

# B K Birla Institute of Engineering & Technology, Pilani

## Computer Science & Engg.

### Part A : Institutional Information

#### 1 Name and Address of the Institution

B K Birla Institute of Engineering & Technology, Pilani,  
BKBIET Campus, CEERI Road, PILANI - 333031 Dist. Jhunjhunu Rajasthan

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#### 2 Name and Address of Affiliating University

Bikaner Technical University Bikaner

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#### 3 Year of establishment of the Institution:

2007

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#### 4 Type of the Institution:

<input type="checkbox"/> University	<input type="checkbox"/> Autonomous
<input type="checkbox"/> Deemed University	<input checked="" type="checkbox"/> Affiliated
<input type="checkbox"/> Government Aided	

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#### 5 Ownership Status:

<input type="checkbox"/> Central Government	<input checked="" type="checkbox"/> Trust
<input type="checkbox"/> State Government	<input type="checkbox"/> Society
<input type="checkbox"/> Government Aided	<input type="checkbox"/> Section 25 Company
<input type="checkbox"/> Self financing	<input type="checkbox"/> Any Other(Please Specify)

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#### 6 Other Academic Institutions of the Trust/Society/Company etc., if any:

Name of Institutions	Year of Establishment	Programs of Study	Location
Birla Technical Training Institute	1985	Industrial Training Institute	CEERI Road, Pilani
Birla Technical Training Institute	1988	Diploma Engineering	CEERI Road, Pilani
BK Birla Institute of Higher Education	2017	B Sc, B Com, BA	CEERI Road, Pilani

**7 Details of all the programs being offered by the institution under consideration:**

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
Engineering & Technology	UG	2007	2007	60	Yes	120	Applying first time	--	--	Yes	4
<b>Sanctioned Intake for Last Five Years for the Engineering &amp; Technology</b>											
<b>Academic Year</b>				<b>Sanctioned Intake</b>							
2018-19				120							
2017-18				120							
2016-17				120							
2015-16				120							
2014-15				120							
2013-14				120							
Information Technology	UG	2007	2007	60	No	60	Eligible but not applied	--	--	0	4
Electrical Engineering	UG	2007	2007	60	Yes	120	Eligible but not applied	--	--	0	4
Electronics & Communication Engineering	UG	2007	2007	60	Yes	120	Eligible but not applied	--	--	0	4
Mechanical	UG	2014	2014	120	No	120	Not eligible for accreditation	--	--	0	4
Electrical & Electronics Engineering	UG	2010	2010	60	Yes	0	Not eligible for accreditation	--	--	0	4
<b>Sanctioned Intake for Last Five Years for the Electrical &amp; Electronics Engineering</b>											
<b>Academic Year</b>				<b>Sanctioned Intake</b>							
2018-19				0							
2017-18				0							
2016-17				120							
2015-16				120							
2014-15				120							
2013-14				120							
Master of Computer Applications (MCA)	PG	2010	2010	60	Yes	0	Not eligible for accreditation	--	--	No	3

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
<b>Sanctioned Intake for Last Five Years for the Master of Computer Applications (MCA)</b>											
<b>Academic Year</b>				<b>Sanctioned Intake</b>							
2018-19				0							
2017-18				0							
2016-17				60							
2015-16				60							
2014-15				60							
2013-14				60							

**8 Programs to be considered for Accreditation vide this application:**

S No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Computer Science & Engg.

**9 Total number of employees in the institution:**

**A. Regular\* Employees (Faculty and Staff):**

Items	2018-19		2017-18		2016-17	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	58	68	68	71	68	72
Faculty in Engineering (Female)	9	11	12	14	12	15
Faculty in Maths, Science & Humanities (Male)	4	4	4	4	4	4
Faculty in Maths, Science & Humanities (FeMale)	6	6	7	7	7	7
Non-teaching staff (Male)	66	74	67	74	66	75
Non-teaching staff (FeMale)	7	10	9	10	9	10

**B. Contractual\* Employees (Faculty and Staff):**

Items	2018-19		2017-18		2016-17	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	1	4	4	7	3	7
Faculty in Engineering (Female)	0	1	0	1	1	4
Faculty in Maths, Science & Humanities (Male)	0	0	0	0	0	0
Faculty in Maths, Science & Humanities (FeMale)	0	0	0	0	0	0
Non-teaching staff (Male)	0	0	0	0	0	0
Non-teaching staff (FeMale)	0	0	0	0	0	0

**10 Total number of Engineering Students:**



<b>Engineering and Technology- UG</b>	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
<b>Engineering and Technology- PG</b>	<input type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
<b>Engineering and Technology- Polytechnic</b>	<input type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
<b>MBA</b>	<input type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
<b>MCA</b>	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2

**Engineering and Technology- UG Shift-1**

Items	2018-19	2017-18	2016-17
Total no. of Boys	1048	1224	1328
Total no. of Girls	210	236	280
<b>Total</b>	<b>1258</b>	<b>1460</b>	<b>1608</b>

**Engineering and Technology- MCA Shift-1**

Items	2018-19	2017-18	2016-17
Total no. of Boys	0	5	19
Total no. of Girls	0	4	9
<b>Total</b>	<b>0</b>	<b>9</b>	<b>28</b>

**11 Vision of the Institution:**

Excel as an outstanding application-oriented and innovation-driven engineering institute. Inspire future Engineers to apply technology for solving real world challenges.

**12 Mission of the Institution:**

Create a platform for igniting ingenuity and path-breaking engineering applications for the India of future.

**13 Contact Information of the Head of the Institution and NBA coordinator, if designated:**

Head of the Institution	
Name	Dr. S. M. Prasanna Kumar
Designation	Director
Mobile No.	9414062510
Email ID	director@bkbiet.ac.in

**NBA Coordinator, If Designated**

Name	Dr. Nimish Kumar
Designation	Associate Professor & Head
Mobile No.	9414648683
Email ID	nimish.kumar@bkbiet.ac.in

## PART B: Criteria Summary

Criteria No.	Criteria	Total Marks	Institute Marks
1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	60	60.00
2	PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES	120	120.00
3	COURSE OUTCOMES AND PROGRAM OUTCOMES	120	120.00
4	STUDENTS' PERFORMANCE	150	102.25
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	168.99
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00
7	CONTINUOUS IMPROVEMENT	50	50.00
8	FIRST YEAR ACADEMICS	50	46.54
9	STUDENT SUPPORT SYSTEMS	50	50.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	120.00
	<b>Total</b>	<b>1000</b>	<b>918</b>

## Part B

### 1 VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (60)

Total Marks 60.00

#### 1.1 State the Vision and Mission of the Department and Institute (5)

Total Marks 5.00

Institute Marks : 5.00

Vision of the institute	Excel as an outstanding application-oriented and innovation-driven engineering institute. Inspire future Engineers to apply technology for solving real world challenges.									
Mission of the institute	Create a platform for igniting ingenuity and path-breaking engineering applications for the India of future.									
Vision of the Department	To produce excellent, innovative, self-motivated engineering entrepreneurs who can sustain in rapidly changing field of applied computational technology in various industries and be among the most highly reputed technology-focused learning institutions in the world.									
Mission of the Department	<table border="1"> <thead> <tr> <th>Mission No.</th> <th>Mission Statements</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>Create conducive environment for learning and research</td> </tr> <tr> <td>M2</td> <td>Establish industry and academia collaborations</td> </tr> <tr> <td>M3</td> <td>Ensure professional and ethical values in all institutional endeavors</td> </tr> </tbody> </table>		Mission No.	Mission Statements	M1	Create conducive environment for learning and research	M2	Establish industry and academia collaborations	M3	Ensure professional and ethical values in all institutional endeavors
Mission No.	Mission Statements									
M1	Create conducive environment for learning and research									
M2	Establish industry and academia collaborations									
M3	Ensure professional and ethical values in all institutional endeavors									

#### 1.2 State the Program Educational Objectives (PEOs) (5)

Total Marks 5.00

Institute Marks : 5.00

PEO No.	Program Educational Objectives Statements
PEO1	Able to apply fundamental knowledge of mathematics, science and computer to analyze and accomplishment of engineering challenges.
PEO2	Able to follow ethical attitude, professionalism, effective communication skills, entrepreneurship, interdisciplinary and leadership skills to solve the issue for Computer Science and Engineering.
PEO3	Able to apply concepts of scientific and engineering knowledge to analyze, design and prototyping novel solutions for the real life problems of industries in Computer Science and Engineering.
PEO4	To create supportive environment for learning, aware of technological trends and research, inspired and life-long learning required for a bright and successful professional career in Computer Science and Engineering.
PEO5	To prepare the students for the work excellence in industry and higher education, by educating and skill transfer with high moral values and knowledge in Computer Science and Engineering.

#### 1.3 Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (10)

Total Marks 10.00

Institute Marks : 10.00

##### A. Adequacy in respect of publication and dissemination

List of stakeholders:

Internal Stake Holders	External Stake Holders
Students	Alumni
Faculty members	Parents

Non-Teaching Staff	Industry& Employers
College Management	Visiting Researchers & Experts
Board of Governance	International Students and Faculty
Educational Trust	Affiliated University
	AICTE , NBA and other Govt. Bodies

**Vision, Mission and PEOs are published and disseminated through:**

Particulars	Internal Stake Holders	External Stake Holders
Institute website: <a href="https://bkbiet.ac.in/vision-mission/">https://bkbiet.ac.in/vision-mission/</a>	YES	YES
Institute notice board	YES	YES
Department notice board	YES	
Orientation & Induction Program	YES	YES
Conference & Workshops	YES	YES
Director Office Notice Board	YES	YES
Principal Office Notice Board	YES	YES
HOD Office Notice Board	YES	YES
Library	YES	YES
Laboratories	YES	
Training & Placement Office notice board	YES	
Faculty Staffrooms	YES	YES
BIRD Office notice board	YES	YES
BPTRC Notice Board	YES	YES
Seminal Halls	YES	YES
Hostel Notice Board	YES	YES
College Admission Brochure	YES	YES
College Placement Brochure	YES	YES
College Magazine/ News Letter	YES	
Teachers Diary	YES	
Subject Notes	YES	
Lab Manuals	YES	
Student Practical Files	YES	
Alumni meet	YES	YES
Emails	YES	YES

**B. Process of dissemination among stake holders****Process of dissemination among internal stake holders:****1. Students:**

- Display on Institute website.
- Informed Verbally in Orientation & Induction program, Alumni meet.
- Informed Verbally in Class and presentation in Workshop and Conferences.
- Informed through Email.
- Display on Notice Board (*Institute, Department, Library, Laboratories, Training & Placement Office, Faculty Staffrooms, BIRD Office, BPTRC, Seminal Halls, and Hostel*).
- Printed in Publications (*College Admission Brochure, College Placement Brochure, College Magazine/ News Letter, Subject Notes, Lab Manuals and Student Practical Files*).

**2. Faculty members:**

- Informed Verbally in Meeting.
- Handed over print copy to display in staffroom.
- Informed through E-mail to put in Subject Notes, Lab Manuals.
- Printed in Publications (*College Admission Brochure, College Placement Brochure, College Magazine/ News Letter*).
- Display on Notice Boards.

**3. Non-Teaching Staff:**

- Informed Verbally in Meeting.
- Handed over print copy.
- Display on Notice Boards.

**4. College Management:**

- Informed Verbally in Meeting.
- Handed over print copy.
- Printed in Publications (*College Admission Brochure, College Placement Brochure, College Magazine/ News Letter*).
- Informed through E-mail.

**5. Board of Governance**

- Informed through E-mail.
- Posted Hard copy.
- Informed Verbally in Meeting.

**6. Educational Trust**

- Informed through E-mail.
- Posted Hard copy.

**Process of dissemination among External stake holders:****1. Alumni:**

- Informed verbally with presentation in Alumni Meet
- Informed through Email.
- Display on Institute website.
- Display on Notice Boards.

**2. Parents:**

- Informed Verbally with presentation in Orientation Program
- Informed Verbally in Parents-teacher meeting
- Display on Institute website.
- Display on Notice Boards.
- Printed in Publications (*College Admission Brochure, College Placement Brochure*)

**3. Industry & Employers:**

- Informed through Email.
- Display on Institute website.
- Informed verbally with presentation in Industry-Academia Meet.
- Printed in Publications (*College Placement Brochure*).
- Display on Notice Boards.

**4. Visiting Researchers & Experts:**

- Informed verbally with presentation in Workshop and Conferences.
- Informed through Email.
- Printed in Publications (*College Admission Brochure, College Placement Brochure, College Magazine/ News Letter*).
- Display on Institute website.
- Display on Notice Boards.

**5. International Students and Faculty:**

- Display on Institute website
- Display on Notice Boards.
- Printed in Publications (*College Admission Brochure, College Placement Brochure, College Magazine/ News Letter*).

**6. Affiliated University:**

- Display on Institute website.
- Informed through Email.
- Posted Hard copy.

**7. AICTE, NBA and other Govt. Bodies**

- Display on Institute website.
- Informed through Email.

**C. Extent of awareness of Vision, Mission and PEOs amongst stakeholders:**

1. External stake holders (Industry& Employers, Visiting Researchers & Experts, International Students and Faculty) and internal stake holders (students and faculty)are targeted to be aware about vision, mission and PEO to a great extent through workshop, conference and seminars.
2. All stake holders get aware of about vision, mission and PEO through visiting institute website extensively. On an average 6500 number of visitors hit the institute website in a year.
3. Internal and external stake holders are targeted to be aware of vision, mission and PEO through industry-academia meet, placement drives where the students, faculty and industry person are present.
4. Internal and external stake holders are targeted to be aware of vision, mission and PEO to an extent during the parent-teacher meetings and orientation program where students and parents are present.
5. Internal stake holders like students, Non-Teaching Staff and faculty membersare targeted to be aware about vision, mission and PEO through display on notice boards, flex and presentations.
6. Through email all external stake holders get aware of vision, mission and PEO of the institute extensively.
7. Printed copy of Vision, mission and PEO are put in the student record. This targets students (internal stake holder) to a greater extent, as they get to look at it regularly.

Particulars	Internal Stake Holders	External Stake Holders
Institute Website	Yes	Yes
Orientation Programs	Yes	Yes
Workshop	Yes	Yes
Conference	Yes	Yes
Seminar	Yes	Yes
Industry-Academia Meet	Yes	Yes

Placement Drive	Yes	Yes
Parents-Teacher Meeting	Yes	
Notice Boards	Yes	
Flex	Yes	
Presentations	Yes	
Email	Yes	Yes
Students Records	Yes	

#### 1.4 State the process for defining the Vision and Mission of the Department, and PEOs of the program (25)

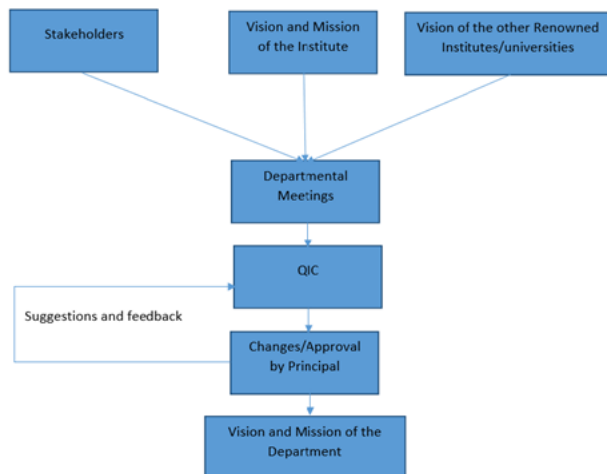
Total Marks 25.00

Institute Marks : 25.00

##### Process for defining Vision and Mission of the Department

1. Quality Improvement Committee (QIC) was formed by Principal and HOD to define Vision and Mission of the department.
2. Brainstorming session was conducted between QIC members.
3. First Vision and Mission was presented to the HOD and principal, improvements were suggested.
4. Vision and Mission were revised by QIC
5. Again presented to HOD and principal, and suggested to take inputs from students, faculties, staff, management, parents, industries, alumni, RTU, BTU, AICTE, NBA, foreign professor and technical departments.
6. After consideration from all these inputs, final Vision and Mission were prepared.
7. Finally, the Vision and Mission were approved by Principal of institution

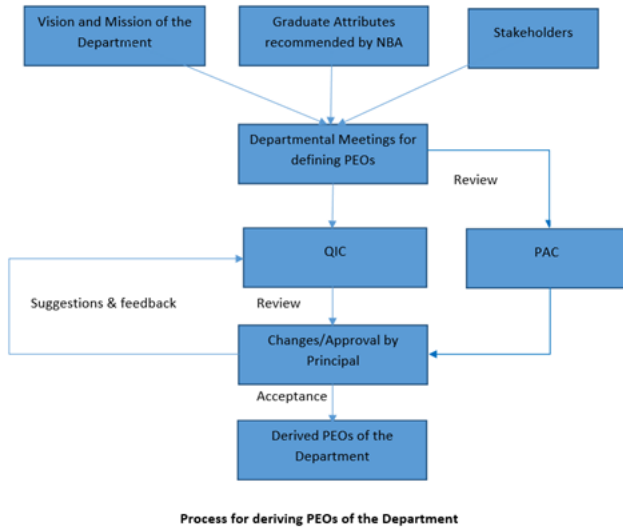
Process for defining Vision and Mission of the Department



##### Process for defining PEOs of the Department

1. Vision and Mission of the Institute, Department and Graduate attributes recommended by NBA are taken as directorial factors in forming the Program Educational Objectives (PEOs) by QIC.
2. Stakeholder inputs are obtained through extensive surveys with follow-up telephone calls by the Department HOD and faculties
3. Department meetings were organized for defining PEOs
4. QIC presented PEOs to Program Assessment Committee (PAC), HOD and principal
5. Suggestions were received from PAC, HOD and principal
6. By considering suggestions PEOs were revised and again presented

7. Final PEOs were approved by principal of the institution



Stakeholder inputs to our program educational objectives are obtained in a number of traditional ways by the Department HOD & associated faculties. These feedbacks are condensed and presented to QIC at the faculty meeting and the final report is sent to Principal of the Institution for review and acceptance.

**Sample of Staff interaction for Vision and Mission**



B K Birla Institute of Engineering & Technology, Pilani

Department of Computer Science and Engineering

Staff interaction for Vision and Mission

Vision	To produce excellent, innovative, self-motivated engineers and entrepreneurs who can sustain in rapidly changing field of applied computational technology in industries and be among the most highly reputed technology-focused learning institutions in the world.	5	4	3	2	1
		5				

Sample feedback form for PEOs

B K Birla Institute of Engineering & Technology, Pilani

Department of Computer Science and Engineering

PEOs Evaluation Form

S.No.	PEOs	5	4	3	2	1
1.	Able to apply fundamental knowledge of mathematics, science and computer to analyse and accomplishment of engineering challenges	✓				
2.	Able to follow ethical attitude, professionalism, effective communication skills, entrepreneurship, interdisciplinary and leadership skills to solve the issue for Computer Science and Engineering	✓				
3.	Able to apply concepts of scientific and engineering knowledge to analyse, design and prototyping novel solutions for the real life problems of industries in Computer Science and Engineering	✓				
4.	To create supportive environment for learning, aware of technological trends and research, inspired and life-long learning required for a bright and successful professional career in Computer Science and Engineering		✓			
5.	To prepare the students for the work excellence in industry and higher education, by educating and skill transfer with high moral values and knowledge in Computer Science and Engineering	✓				

Name and Signature  
*Dr. Anish Kumar*  
 Head of Department  
 Computer Science Engineering  
 B K Birla Institute of Engineering & Technology  
 Pilani 333031 (Rajasthan) INDIA

Name and Signature  
*Dr. Anish Kumar*  
 Head of Department  
 Computer Science Engineering  
 B K Birla Institute of Engineering & Technology  
 Pilani 333031 (Rajasthan) INDIA

**1.5 Establish consistency of PEOs with Mission of the Department (15)**

Total Marks 15.00

Institute Marks : 15.00

**B. Consistency/Justification of co-relation parameters of the above matrix:**

The following steps were followed for the establishment of consistency of PEOs with Mission of the department:

**Step-I:**

For the mapping of PEOs with mission of the department, the feedback forms of mapping of PEOs with mission were distributed among the faculties of the department and common opinions were taken into the account during the meeting with the department.

**Step-II:**

After taking the feedback from all the faculty members of the department, the average value of each cell of the table was calculated and fractional value of a cell was rounded to the nearest integer value.

**Step-III:**

Based on the actions taken in step-I and step-II, the **table 1.5.1** of consistency of PEOs with mission of the department was formed.

The Table demonstrates the consistency among PEO's and Mission statements			
PEOs		Mission	Justification
PEO1	Able to apply fundamental knowledge of mathematics, science and computer to analyse and accomplishment of engineering challenges.	M1 Create conducive environment for learning and research	Providing a positive and good learning environment to students helps them to learn fundamental knowledge of computer science and engineering, ask the questions and follow the strategies for the accomplishment of engineering challenges. Hence this PEO is highly correlated to M1.
		M2 Establish industry and academia collaborations	Industry and Academia collaborations are beneficial to the students in learning new tools, and increasing the knowledge of engineering, and analyzing different approaches for tackling the challenges.Hence this PEO is moderately correlated to M2.
		M3 Ensure professional and ethical values in all institutional endeavours.	Moderately correlates by providing quality education, training about modern designing tools and technologies to students to attain proficiency.
PEO2	Able to follow ethical attitude, professionalism, effective communication skills, entrepreneurship, interdisciplinary and leadership skills to solve the issue for Computer Science and Engineering.	M1 Create conducive environment for learning and research	A conducive learning environment enables the students to take positive actions such as problem solving and decision making, to discuss about issues of various problems related to computer science and engineering fields, and interacting with other students in the group for the exchange of ideas.Hence this PEO is highly correlated to M1.
		M2 Establish industry and academia collaborations	Industry and academia collaborations have the advantages of awareness of latest technologies and industry trends among the students, interaction among students and industry experts and development of skills for solving the issues related to various kinds of problems.Hence this PEO is moderately correlated to M2.
		M3 Ensure professional and ethical values in all institutional endeavours.	Ability to follow ethical attitude and professionalism ensure professional and ethical values in all institutional endeavors. Hence this PEO is highly correlated to M3.

PEO3	Able to apply concepts of scientific and engineering knowledge to analyse, design and prototyping novel solutions for the real life problems of industries in Computer Science and Engineering.	M1 Create conducive environment for learning and research	A learning environment allows students to explore and expand their knowledge in science and engineering fields to solve complex problems.Hence this PEO is moderately correlated to M1.
		M2 Establish industry and academia collaborations	Industry and academia collaborations are useful for the knowledge creation, and analyzing and designing the solutions for technology to be used in industry and institute.Hence this PEO is moderately correlated to M2.
		M3 Ensure professional and ethical values in all institutional endeavours.	Understanding and analyzing the real life problems of industry to be solved can lead to proficiency.Hence this PEO is moderately correlated to M3.
PEO4	To create supportive environment for learning, aware of technological trends and research, inspired and life-long learning required for a bright and successful professional career in Computer Science and Engineering.	M1 Create conducive environment for learning and research	The main purpose of creating a supportive learning environment is to aware the students about the latest technologies used in the market and ongoing research so that they can explore their knowledge and understanding for achieving the successful professional career in their life.Hence this PEO is highly correlated to M1.
		M2 Establish industry and academia collaborations	Industry and academia collaborations have the advantages of awareness of technological trends and research, transparency and communication, and identify and train students to be worked in industry according to industry needs.Hence this PEO is moderately correlated to M2.
		M3 Ensure professional and ethical values in all institutional endeavours.	Creating a supportive environment for learning enable the students to understand responsibility, teamwork, and basic ethical and moral values.Hence this PEO is moderately correlated to M3.
PEO5	To prepare the students for the work excellence in industry and higher education, by educating and skill transfer with high moral values and knowledge in Computer Science and Engineering.	M1 Create conducive environment for learning and research	A learning environment enables students to learn about the technologies and efficiently apply them in industrial environment. It helps students to enhance their skills, moral values, and knowledge in computer science and engineering field. Hence this PEO is highly correlated to M1.
		M2 Establish industry and academia collaborations	Industry and academia collaborations have the advantages of awareness of industry trends, exchange of knowledge, training, and skill transfer with moral values. Hence this PEO is highly correlated to M2.
		M3 Ensure professional and ethical values in all institutional endeavours.	Strongly correlates by preparing the students according to needs of the Industry, enabling them to work excellence in industry for achieving the professionalism, and educating them with moral values.

Table 1.5.1: Consistency among PEO's and Mission statements

The sample of Feedback Form of Mapping of PEOs with Mission is depicted below:



## B K Birla Institute of Engineering & Technology

Pilani, Rajasthan, INDIA

Approved by AICTE, New Delhi  
(06/01/RAJ/ENGG/2007/S1)

Affiliated to Rajasthan Technical University (RTU), Kota  
RTU/F(17)/Acad.I/Gr.1/S1/2007-08

### Feedback Form of Mapping of PEOs with Mission

"Enter correlation levels 1, 2 or 3 as defined below 1: slight (Low) 2: Moderate (Medium) 3: Substantial (High)"

Note: M1, M2 and M3 are the missions of the department and PEO1, PEO2... PEO5 are Program Educational Objectives.

PEOs	M1 Create conducive environment for learning and research	M2 Establish industry and academia collaborations	M3 Ensure professional and ethical values in all institutional endeavors.
PEO1 Able to apply fundamental knowledge of mathematics, science and computer to analyze and accomplishment of engineering challenges.	3	3	3
PEO2 Able to follow ethical attitude, professionalism, effective communication skills, entrepreneurship, interdisciplinary and leadership skills to solve the issue for Computer Science and Engineering.	3	2	3
PEO3 Able to apply concepts of scientific and engineering knowledge to analyze, design and prototyping novel solutions for the real life problems of industries in Computer Science and Engineering.	3	2	3
PEO4 To create supportive environment for learning, aware of technological trends and research, inspired and life-long learning required for a bright and successful professional career in Computer Science and Engineering.	3	3	3
PEO5 To prepare the students for the work excellence in industry and higher education, by educating and skill transfer with high moral values and knowledge in Computer Science and Engineering.	3	3	3

*D. Nimesh*  
Dr. NIMESH KR

Associate Prof. & Head  
Dept. of CS & IT

PEO Statements	M1	M2	M3
Able to apply fundamental knowledge of mathematics, science and computer to analyze and accomplishment of engineering challenges.	3	2	2
Able to follow ethical attitude, professionalism, effective communication skills, entrepreneurship, interdisciplinary and leadership skills to solve the issue for Computer Science and Engineering.	3	2	3
Able to apply concepts of scientific and engineering knowledge to analyze, design and prototyping novel solutions for the real life problems of industries in Computer Science and Engineering.	2	2	2
To create supportive environment for learning, aware of technological trends and research, inspired and life-long learning required for a bright and successful professional career in Computer Science and Engineering.	3	2	2
To prepare the students for the work excellence in industry and higher education, by educating and skill transfer with high moral values and knowledge in Computer Science and Engineering.	3	3	3

## 2 PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (120)

Total Marks 120.00

### 2.1 Program Curriculum (20)

Total Marks 20.00

**2.1.1 State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexurel. Also mention the identified curricular gaps, if any (10)**

Institute Marks : 10.00

#### Program Curriculum

B.K. Birla Institute of Engineering & Technology is an engineering college affiliated to Rajasthan Technical University, Kota and Bikaner Technical University, Bikaner. It is located in Pilani, Rajasthan, India. It was founded in 2007 by Krishnarpan Charity Trust, with Late Basant Kumar Birla as chairman, where the following program curriculum for Department of Computer Science and Engineering has been prescribed.

#### First Year, First Semester

Common to all branches of UG Engineering &amp; Technology

SNo	Category	Course Code	Course Title	Hours			Marks			Cr
				L	T	P	IA	ETE	Total	
1	BSC	IFY2-01	Engineering Mathematics-I	3	1	-	40	160	200	4
2	BSC	IFY2-02/ IFY2-03	Engineering Physics/ Engineering Chemistry	3	1	-	40	160	200	4
3	HSMC	IFY1-04/ IFY1-05	Communication Skills/ Human Values	2	-	-	20	80	100	2
4	ESC	IFY3-06/ IFY3-07	Programming for Problem Solving/ Basic Mechanical Engineering	2	-	-	20	80	100	2
5	ESC	IFY3-08/ IFY3-09	Basic Electrical Engineering/ Basic Civil Engineering	2	-	-	20	80	100	2
6	BSC	IFY2-20/ IFY2-21	Engineering Physics Lab/ Engineering Chemistry Lab	-	-	2	30	20	50	1

7	HSMC	IFY1-22/ IFY1-23	Language Lab/ Human Values Activities and Sports	-	-	2	30	20	50	1
8	ESC	IFY3-24/ IFY3-25	Computer Programming Lab/ Manufacturing Practices Workshop	-	-	3	45	30	75	1.5
9	ESC	IFY3-26/ IFY3-27	Basic Electrical Engineering Lab/ Basic Civil Engineering Lab	-	-	2	30	20	50	1
10	ESC	IFY3-28/ IFY3-29	Computer Aided Engineering Graphics/ Computer Aided Machine Drawing	-	-	3	45	30	75	1.5
11	SODE CA	IFY8-00							25	0.5
<b>Total</b>									<b>1025</b>	<b>20.5</b>

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**First Year, Second Semester**

(Common to all branches of UG Engineering &amp; Technology)

SNo	Category	Course Code	Course Title	Hours			Marks			Cr
				L	T	P	IA	ETE	Total	
1	BSC	2FY2-01	Engineering Mathematics-II	3	1	-	40	160	200	4
2	BSC	2FY2-03/ 2FY2-02	Engineering Chemistry/ Engineering Physics	3	1	-	40	160	200	4
3	HSMC	2FY1-05/ 2FY1-04	Human Values/ Communication Skills	2	-	-	20	80	100	2
4	ESC	2FY3-07/ 2FY3-06	Basic Mechanical Engineering/ Programming for Problem Solving	2	-	-	20	80	100	2
5	ESC	2FY3-09/ 2FY3-08	Basic Civil Engineering/ Basic Electrical Engineering	2	-	-	20	80	100	2
6	BSC	2FY2-21/ 2FY2-20	Engineering Chemistry Lab/Engineering Physics Lab	-	-	2	30	20	50	1
7	HSMC	2FY1-23/ 2FY1-22	Human Values Activities and Sports/ Language Lab	-	-	2	30	20	50	1

8	ESC	2FY3-25/ 2FY3-24	Manufacturing Practices Workshop/ Computer Programming Lab	-	-	3	45	30	75	1.5
9	ESC	2FY3-27/ 2FY3-26	Basic Civil Engineering Lab/Basic Electrical Engineering Lab	-	-	2	30	20	50	1
10	ESC	2FY3-29/ 2FY3-28	Computer Aided Machine Drawing/ Computer Aided Engineering Graphics	-	-	3	45	30	75	1.5
11	SODE CA	1FY8-00							25	0.5
<b>Total</b>									<b>1025</b>	<b>20.5</b>

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**Second Year, Third Semester**

(Computer Science & Engineering)

<b>THEORY</b>											
SNo	Cate gory	Course		Contact hrs/week			Marks				Cr
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total	
1	BSC	3CS2-01	Advanced Engineering Mathematics	3	0	0	3	30	120	150	3
2	HSMC	3CS1-02/ 3CS1-03	Technical Communication/ Managerial Economics and Financial Accounting	2	0	0	2	20	80	100	2
3	ESC	3CS3-04	Digital Electronics	3	0	0	3	30	120	150	3
4	PCC	3CS4-05	Data Structures and Algorithms	3	0	0	3	30	120	150	3
5		3CS4-06	Object Oriented Programming	3	0	0	3	30	120	150	3
6		3CS4-07	Software Engineering	3	0	0	3	30	120	150	3
<b>Sub Total</b>				<b>17</b>	<b>0</b>	<b>0</b>		<b>170</b>	<b>680</b>	<b>850</b>	<b>17</b>
<b>PRACTICAL &amp; SESSIONAL</b>											

7	PCC	3CS4-21	Data Structures and Algorithms Lab	0	0	3		45	30	75	1.5
8		3CS4-22	Object Oriented Programming Lab	0	0	3		45	30	75	1.5
9		3CS4-23	Software Engineering Lab	0	0	3		45	30	75	1.5
10		3CS4-24	Digital Electronics Lab	0	0	3		45	30	75	1.5
11	PSIT	3CS7-30	Industrial Training	0	0	1		0	0	50	1
12	SODE CA	3CS8-00	Social Outreach, Discipline & Extra Curricular Activities							25	0.5
<b>Sub- Total</b>				<b>0</b>	<b>0</b>	<b>13</b>		<b>180</b>	<b>120</b>	<b>375</b>	<b>7.5</b>
<b>TOTAL OF III SEMESTER</b>				<b>17</b>	<b>0</b>	<b>13</b>		<b>350</b>	<b>800</b>	<b>1225</b>	<b>24.5</b>

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**Second Year, Forth Semester**

(Computer Science & Engineering)

<b>THEORY</b>											
SNo	Category	Course		Contact hrs/week			Marks				Cr
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total	
1	BSC	4CS2-01	Discrete Mathematics Structure	3	0	0	3	30	120	150	3
2	HSMC	4CS1-03/ 4CS1-02	Managerial Economics and Financial Accounting /Technical Communication	2	0	0	2	20	80	100	2
3	ESC	4CS3-04	Microprocessor & Interfaces	3	0	0	3	30	120	150	3
4	PCC	4CS4-05	Database Management System	3	0	0	3	30	120	150	3
5		4CS4-06	Theory of Computation	3	0	0	3	30	120	150	3
6		4CS4-07	Data Communication and Computer Networks	3	0	0	3	30	120	150	3



		<b>Sub Total</b>		<b>17</b>	<b>0</b>	<b>0</b>	<b>170</b>	<b>680</b>	<b>850</b>	<b>17</b>
<b>PRACTICAL &amp; SESSIONAL</b>										
7	PCC	4CS4-21	Microprocessor & Interfaces Lab	0	0	2	30	20	50	1
8		4CS4-22	Database Management System Lab	0	0	3	45	30	75	1.5
9		4CS4-23	Network Programming Lab	0	0	3	45	30	75	1.5
10		4CS4-24	Linux Shell Programming Lab	0	0	2	30	20	50	1
11		4CS4-25	Java Lab	0	0	2	30	20	50	1
12	SODE CA	4CS8-00	Social Outreach, Discipline & Extra Curricular Activities						25	0.5
<b>Sub- Total</b>				<b>0</b>	<b>0</b>	<b>12</b>	<b>180</b>	<b>120</b>	<b>325</b>	<b>6.5</b>
<b>TOTAL OF IV SEMEESTER</b>				<b>17</b>	<b>0</b>	<b>12</b>	<b>350</b>	<b>800</b>	<b>1175</b>	<b>23.5</b>

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**Third Year, Fifth Semester**

(Computer Science &amp; Engineering)

<b>THEORY</b>												
SNo	Category	Course		Contact hrs/week			Marks				Cr	
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total		
1	ESC	5CS3-01	Information Theory & Coding	2	0	0	2	20	80	100	2	
2	PCC/ PEC	5CS4-02	Compiler Design	3	0	0	3	30	120	150	3	
3		5CS4-03	Operating System	3	0	0	3	30	120	150	3	
4		5CS4-04	Computer Graphics & Multimedia	3	0	0	3	30	120	150	3	
6		5CS4-05	Analysis of Algorithms	3	0	0	3	30	120	150	3	
7		Professional Elective 1: (any one)			2	0	0	2	20	80	100	2
		5CS5-11	Wireless Communication									

		5CS5-12	Human-Computer Interaction								
		5CS5-13	Bioinformatics								
		<b>Sub Total</b>		<b>16</b>	<b>0</b>	<b>0</b>		<b>160</b>	<b>640</b>	<b>800</b>	<b>16</b>
<b>PRACTICAL &amp; SESSIONAL</b>											
8	PCC	5CS4-21	Computer Graphics & Multimedia Lab	0	0	2	2	30	20	50	1
9		5CS4-22	Compiler Design Lab	0	0	2	2	30	20	50	1
10		5CS4-23	Analysis of Algorithms Lab	0	0	2	2	30	20	50	1
11		5CS4-24	Advance Java Lab	0	0	2	2	30	20	50	1
12	PSIT	5CS7-30	Industrial Training	0	0	1		75	50	125	2.5
13	SODE CA	5CS8-00	Social Outreach, Discipline & Extra Curricular Activities						25	25	0.5
		<b>Sub- Total</b>		<b>0</b>	<b>0</b>	<b>9</b>		<b>195</b>	<b>155</b>	<b>350</b>	<b>7</b>
		<b>TOTAL OF V SEMESTER</b>		<b>16</b>	<b>0</b>	<b>9</b>		<b>355</b>	<b>795</b>	<b>1150</b>	<b>23</b>

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**Third Year, Sixth Semester**

(Computer Science &amp; Engineering)

<b>THEORY</b>											
SNo	Category	Course		Contact hrs/week			Marks				Cr
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total	
1	ESC	6CS3-01	Digital Image Processing	2	0	0	2	20	80	100	2
2	PCC/ PEC	6CS4-02	Machine Learning	3	0	0	3	30	120	150	3
3		6CS4-03	Information Security System	2	0	0	2	20	80	100	2
4		6CS4-04	Computer Architecture and Organization	3	0	0	3	30	120	150	3
5		6CS4-05	Artificial Intelligence	2	0	0	2	20	80	100	2
6		6CS4-06	Cloud Computing	3	0	0	3	30	120	150	3
7		Professional Elective 1 (any one)		2	0	0	2	20	80	100	2

		6CS5-11	Distributed System									
		6CS5-12	Software Defined Network									
		6CS5-13	Ecommerce and ERP									
		<b>Sub-Total</b>		<b>17</b>	<b>0</b>	<b>0</b>		<b>170</b>	<b>680</b>	<b>850</b>	<b>17</b>	
<b>PRACTICAL &amp; SESSIONAL</b>												
8		6CS4-21	Digital Image Processing Lab	0	0	3	2	45	30	75	1.5	
9		6CS4-22	Machine Learning Lab	0	0	3	2	45	30	75	1.5	
10	PCC	6CS4-23	Python Lab	0	0	3	2	45	30	75	1.5	
11		6CS4-24	Mobile Application Development Lab	0	0	3	2	45	30	75	1.5	
12	SODE CA	6CS8-00	Social Outreach, Discipline & Extra Curricular Activities						25	25	0.5	
		<b>Sub- Total</b>		<b>0</b>	<b>0</b>	<b>12</b>		<b>180</b>	<b>145</b>	<b>325</b>	<b>6.5</b>	
		<b>TOTAL OF VI SEMESTER</b>		<b>17</b>	<b>0</b>	<b>12</b>		<b>350</b>	<b>825</b>	<b>1175</b>	<b>23.5</b>	

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## Fourth Year, Seventh Semester

(Computer Science &amp; Engineering)

VII	Computer Science and Engineering	Teaching			Exm Hrs	Max. Marks			Comments
		L	T	P		IA	TE	TOTAL	
Course Code	Subject Name (Revised)	L	T	P		IA	TE	TOTAL	Common to
7CS1A	Cloud Computing	3	-		3	20	80	100	
7CS2A	Information System Security	3			3	20	80	100	CS, IT
7CS3A	Data Mining & Ware Housing	3			3	20	80	100	CS, IT
7CS4A	Computer Aided Design for VLSI	3	-		3	20	80	100	
7CS5A	Compiler Construction	3			3	20	80	100	
7CS6.1A	Advance DataBase Management Systems		-						
7CS6.2A	Robotics	3			3	20	80	100	
7CS6.3A	Data Compression Techniques								
7CS7A	Web Development Lab			2		30	20	50	
7CS8A	VLSI Physical Design Lab			3		45	30	75	

7CS9A	Compiler Design Lab			3		45	30	75	
7CSPR	Project-I			2		50		50	CS, IT
7CSTR	Practical Training*			2			100	100	CS, IT
7CSDC	Discipline & Extra Curricular Activities							50	CS, IT
		18	0	12				1000	

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#### Fourth Year, Eighth Semester

(Computer Science & Engineering)

VIII	Computer Science and Engineering	Teaching			Exm	Max. Marks			Comments
		Hrs	Hrs	Hrs		IA	TE	TOTAL	
Course Code	Subject Name (Revised)	L	T	P		IA	TE	TOTAL	Common to
8CS1A	Mobile Computing	3			3	20	80	100	CS, IT
8CS2A	Digital Image Processing	3	-		3	20	80	100	CS, IT
8CS3A	Distributed Systems	3			3	20	80	100	
8CS4.1A	Hardware Testing & Fault Tolerance		-						CS, IT
8CS4.2A	Real Time Systems	3			3	20	80	100	CS, IT
8CS4.3A	Information Retrieval								CS, IT
8CS5A	Unix Network Programming & Simulation Lab				3	60	40	100	
8CS6A	FPGA Lab.				3	60	40	100	
8CS7A	Digital Image Processing lab				2	30	20	50	CS, IT
8CSPR	Project-II				2	120	80	200	CS, IT
8CSSM	Seminar				2	60	40	100	CS, IT
8CSDC	Discipline & Extra Curricular Activities							50	CS, IT
		12	0	12				1000	

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For reference (link states complete detailed syllabus of Department of Computer Science and Engineering.):

1. [http://www.rtu.ac.in/UTD/wp-content/uploads/2019/07/Scheme-I-Sem.-B.Tech.\\_-2019-20-onward.pdf](http://www.rtu.ac.in/UTD/wp-content/uploads/2019/07/Scheme-I-Sem.-B.Tech._-2019-20-onward.pdf)
2. <http://www.rtu.ac.in/RTU/wp-content/uploads/2018/09/Scheme-CS.pdf>
3. <http://www.rtu.ac.in/RTU/wp-content/uploads/2018/11/Scheme-CS.pdf>
4. <http://www.rtu.ac.in/RTU/wp-content/uploads/2019/07/CR-S.pdf>
5. [http://www.rtu.ac.in/RTU/wp-content/uploads/2015/10/CS\\_3\\_8\\_Scheme-07102015.pdf](http://www.rtu.ac.in/RTU/wp-content/uploads/2015/10/CS_3_8_Scheme-07102015.pdf)

The curriculum of Department of Computer Science and Engineering is affiliated with Rajasthan Technical University, Kota. It comprises of Mathematics, Electronics core and Professional core component in relation Computer Science and Engineering. For identifying the gaps subjects are mapped with program outcomes.

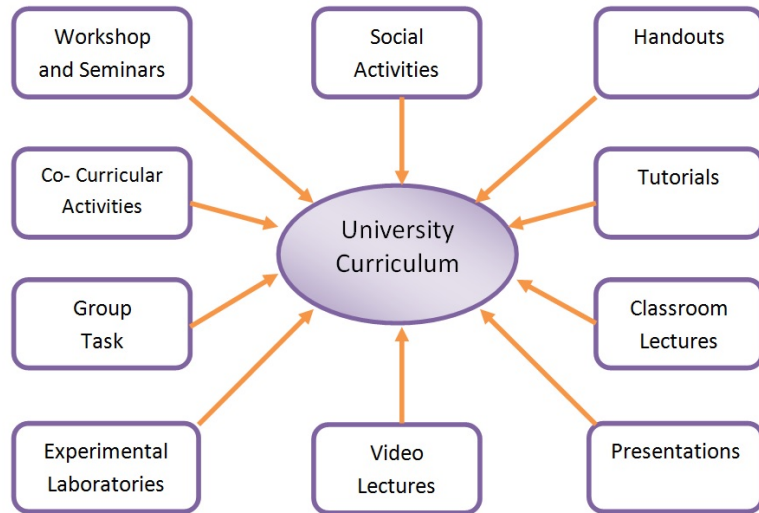
PROGRAM SPECIFIC OUTCOMES

<b>PSO1</b>	The ability to identify, analyze and design solutions for complex engineering problems in multidisciplinary areas by applying the core principles of computer science engineering and allied fields.
<b>PSO2</b>	The ability to achieve programming competency through the use of algorithms and the implementation of standard practices in software project development to deliver quality software products that accomplish industrial needs.
<b>PSO3</b>	Demonstrate ethical behavior in their chosen professions and daily conduct, while working towards the betterment of society and engineering community.

PROGRAM OUTCOMES

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals and Computer Science and Engineering specialization to the solution of complex Computer Science and Engineering problems.
2. **Problem analysis:** Identify, formulate, research literature, and analyze complex Computer Science and Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex Computer Science and Engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of Computer Science and Engineering experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex Computer Science Engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional Computer Science and Engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional Computer Science and Engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the Computer Science and Engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings in Computer Science and Engineering.
10. **Communication:** Communicate effectively on complex Computer Science and Engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the Computer Science and Engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change in Computer Science and Engineering.

A. Compliance of the University Curriculum



**Process of Compliance the University Curriculum for attaining the POs and PSOs**

The following process is used to identify extent of compliance of the University Curriculum for attaining the POs and PSOs.

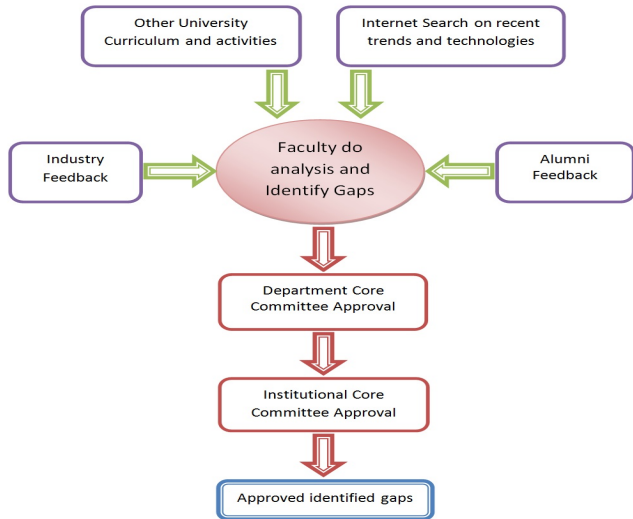
- **Lectures:** Faculty of the CSE Department effectively teach students about a concerned subject. Faculties convey significant information, history, background, theories, analogies and equations to make the concepts clear.
- **Tutorials:** Faculty helps the students by solving number of problems by dividing them in groups and faculty Member mentors the students.
- **Triangle Method:** During lecture HOD visits class room along with two senior faculty members in which one of the faculty is the expert of the respective subject. They observe the teaching method followed by Faculty Member and analyzes the importance of content. After Class, HOD shares feedback to the faculty member.
- **Experimental Laboratory Work:** Laboratory work demonstrates how theory can be verified by experiments through interpretation of results.
- **Hand-outs:** Gives a quick insight to the course. It helps the slow learners to face the exams with confidence.
- **Presentations:** Faculty members also provide PPT and Videos related to course. Videos effectively communicate the working of actual engineering solutions-long learning in the appropriate societal context.
- **Video Lectures:** The facility of multi Media is available where all interested students & faculty members may read e-books and e-journals which are available on NPTEL, expert lectures on you tube.
- **Group Tasks:** Through group task the concepts of engineering that the student has understood in the course is showcased. This helps to do work in groups effectively.
- **Social Activity:** Gives a sense of social responsibility to a student under Nirman group.
- **Fun Activity:** Here, each concerned faculty teaches his/her subject with the help of fun activity like making group and debates based on topics so that the student can learn the topic in visualized manner.
- **Government/ AICTE Initiative :**All the interactive courses prepared by best teachers in the country are taught through Swayam, NPTEL, and Virtual lab from IIT Delhi and ICT courses through NITTR Chandigarh.
- **FDP/Conference/Workshop:** Faculty members take knowledge about the latest technology and deliver the same to students.
- **Invited Talks, Workshops and Seminars** on the latest trends in technology are done from the industry person.

#### **B. List the curricular gaps for the attainment of defined POs and PSOs**

The procedure adopted for finding the curriculum gaps is shown in following figure for attaining the POs and PSOs.

- Feedback from the teacher handling the course.
- Input from Industry experts/ employers.
- Based on the feedback from students.

- Based on the feedback from parents.
- Based on alumni feedback.
- Based on the analysis of other universities' curriculum
- Input from Internet Search results.
- Input from other university.



**Processes used to identify the curricular gaps**

Identified gaps:

Following gaps were identified that are required for industry oriented and learning of emerging technologies.

Sr. No	Gap	Gap Description
1	Cloud Computing	Practical Aspects of Cloud Computing Concepts like Virtualization
2	Creative Skill	Front end and User interface designing tools
3	Open Source	Open Source Tools required for programming & designing database
4	Data mining	Learning Practical tool required like for data mining
5	Open Source	Open Source Cloud Deployment and Security Tools
6	Emerging tools	Emerging tools like BIG DATA, IoT, Drupal Tool, R Language etc.
7	Android	Practical aspects of Android, Web Development, Networking.
8	Mobile App Development	Practical aspects and development process of applications
9	Leadership Skills	Skills to manage and work in a team
10	Social Awareness and Ethics	The ability to identify moral or ethical issues and the inclination to do something about them
11	Higher studies in abroad	Everything from advice on choosing a study destination
12	ERP and benefits	The backbone of any business has been integrated as an important module in the ERP system
13	Intelligent Systems and transformation in Engineering	The principles of artificial intelligence and their application to engineering and science, as well as techniques for developing intelligent systems to solve practical problems
14	Industrial expectation from engineers	Interpersonal skills, Communication Skills, Team working, Time management, and Stress management etc

15	Software Engineering and Testing	Meets the business and technical requirements that guided its design and development; works as expected
16	Networking courses	That combine IT technical training & professional IT skills development.
17	Ethical Hacking and Cyber Security	Masters and develop the skills and mindset needed to tackle computer hackers.
18	Microsoft tools	Service that brings together the best tools for the way people work today.
19	Cyber Crime	Investigating cyber attacks by criminals, These investigations involve all areas of the Internet and online services
20	Industry Exposure	where an engineering student is put through real-life work situations.
21	Soft skill developments	Combination of people skills, social skills, communication skills, character or face-to-face are generally more successful
22	Web design Training	Creative and technical skills for planning and building
23	Trends in CS and IT	There are so many multi-disciplinary courses emerge as bioinformatics, biomedical computing and data analytics, obviously statistics and theoretical computer science play a big role
24	Health Awareness	Awareness of disease and symptoms is essential for screening and early detection.
25	Voting Rights and awareness	Voting is a fundamental right that every individual should exercise
26	Python	Interactive course that covers critical aspects of Python such as integration of machine

### 2.1.2 State the delivery details of the content beyond the syllabus for the attainment of POs and PSOs (10)

Institute Marks : 10.00

2017-18



S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	ASP.NET Web Application	A Professional Demo oriented training was conducted for 6 Months in C# Language with platform ASP.NET 2012	18/08/2018	Sanjeev Sultania, Assistant Professor	6	PO1, PO
2	ASP.NET Windows Application	A Professional Demo oriented training was conducted for 6 Months in C# Language with platform ASP.NET 2012	18/08/2018	Sanjeev Sultania, Assistant Professor	12	PO11
3	PHP	A Professional Demo oriented training was conducted for 6 Months	18/08/2018	Sunil Kumar, Assistant Professor	11	PO11
4	Entrepreneurships	Illuminate, One Day Workshop for budding entrepreneur, Conducted by IIT Bombay	27/09/2018	IIT Mumbai	83	PO12
5	Social Awareness and Ethics	Janmasthan Celebrations	03/09/2018	Mr. Ankit Sharma-Assistat Professor, Ms. Monika Jangir-Assistant Professor	95	PO8, PO9
6	Cyber Security and Application Development	Workshop	08/09/2018	Mr. Bhupendra Jangir-Assistant Professor	40	PO1, PO2, PO3
7	First Step Towards Embedded Development	Workshop	10/09/2018	Mr. Bhupendra Jangir-Assistant Professor	40	PO1, PO2, PO3
8	An Awareness Seminar on NPTEL Programs	Seminar	10/09/2018	Dr. Nimish Kumar-HOD, Mr. Himanshu Verma-Assistant Professor	80	PO1, PO10
9	Social Awareness and Ethics	SPIC Macay	11/09/2018	Mr. Ankit Sharma-Assistat Professor, Ms. Monika Jangir-Assistant Professor	90	PO9
10	Python, IOT, Machine Learning	Training	17/09/2018	Dr. Nimish Kumar-HOD, Mr. Himanshu Verma-Assistant Professor	60	PO1, PO2, PO4, PO5
11	Internet of things(IoT)	Expert Talk	22/09/2018	Dr. Praveen Dhyani, Executive Director, Banasthali University	40	PO1
12	SQL using Oracle	Short Term Course	17/09/2018	Mr. Vipin Kr. Saraogi-Assistant Professor	10	PO1, PO2, PO4
13	Problem Solving using Programming	Short Term Course	17/09/2018	Mr. Pradeep S. Shekhawat-Assistant Professor	10	PO1, PO2, PO4
14	Hobby Course(HTML)	Short Term Course	17/09/2018	Mr. Himanshu Verma-Assistant Professor	10	PO1, PO2, PO4
15	Implementing Windows Application using C# & MS SQL Server	Short Term Course	17/09/2018	Sanjeev Sultania, Assistant Professor	10	PO1, PO2, PO4
16	Gate Orientation Program for Students through TEQIP-III RTU (ATU)	Orientation Program	20/09/2018	Mr. Santosh Jangid-Assistant Professor	20	PO1, PO2, PO4
17	Android Application Development	Workshop	24/08/2018	Mr. Gautam Jangir-Assistant Professor	20	PO1, PO2, PO4
18	Examining the Industry Challenges	Expert Talk	12/10/2018	Mr. Tarundeep Singh, Manager, Siemens	60	PO1, PO6
19	Personality Enrichment Session	Expert Talk	20/09/2018	Mr. Ananth Shesha Das Vice President, The Akshay Patra Foundation, Rajasthan	20	PO8, PO9, PO10
20	Emerging Trends of Applied Mathematics	Expert Talk	24/11/2018	Prof. C. B. Gupta BITS, Pilani	30	PO1, PO2

2016-17

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	ASP.NET Windows Application	A Professional Demo oriented training was conducted for 6 Months in C# Language with platform ASP.NET 2012	20/03/2017	Sanjeev Sultania-Assistant Professor	7	PO11
2	Customer Insights and Analytics	Seminar	06/12/2017	Dr. Anu Brookins-Vice President, Belk	40	PO8, PO11
3	Blood Donation Camp	Social Activity	12/01/2018	Mr Rahul Runthala-Assistant Professor	20	PO9
4	Touch & Augmented Reality	Workshop	27/01/2018	ORDINADO Team	90	PO1, PO9
5	Career in Programming	Workshop	22/02/2018	Eckovation, New Delhi	80	PO1, PO10
6	Big Data, Hadoop & Catia	Workshop	13/03/2018	Mr. Robin Raj-Assistant Professor	40	PO1, PO2, PO5
7	Advance Internet of Things	5-Day Workshop	16/03/2018	Mr Bhupendra Kumar Jangir-Assistant Professor	40	PO3, PO5, PO6
8	Python	A Professional Demo oriented training was conducted for 1 Month	02/02/2018	Sunil Kumar, Assistant Professor	34	PO1, PO5

**2015-16**

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	One day talk IBM Company	Expert talk	13/09/2016	Prof. Shridhar B. Dandin, Principal (Admin)	90	PO11, PO12
2	On computational Mathematics and Operational Research(CMOR-16)	Paper Presentation	15/10/2016	Dr.A.K.Malik-Associate Professor, Mr. Ramakant Soni-Assistant Professor	88	PO5, PO9, PO10
3	Short term online course(one week)	Short Term Course	21/03/2017	Dr.Nimish Kumar-Associate Professor, Himanshu Verma-Assistant Professor	90	PO11, PO12
4	One Day Workshop	Workshop	17/02/2017	Mr Reetesh Gautam & Mrs. Kritika Sharma-Placement Cordinators	90	PO9, PO10
5	Two Days workshop	Workshop	25/03/2017	Mr Vikas Kumawat-Assistant Professor, Mr.Bhupendra Jangir-Assistant Professor	42	PO3, PO5, PO6
6	Intellectual Property Rights Under DST - IPR	Expert talk	27/03/2017	Dr.Hasibur rahman-Associate Professor,Dr. Kulwant Singh-Associate Professor	80	PO6, PO7, PO8

**2.2 Teaching - Learning Processes (100)**

Total Marks 100.00

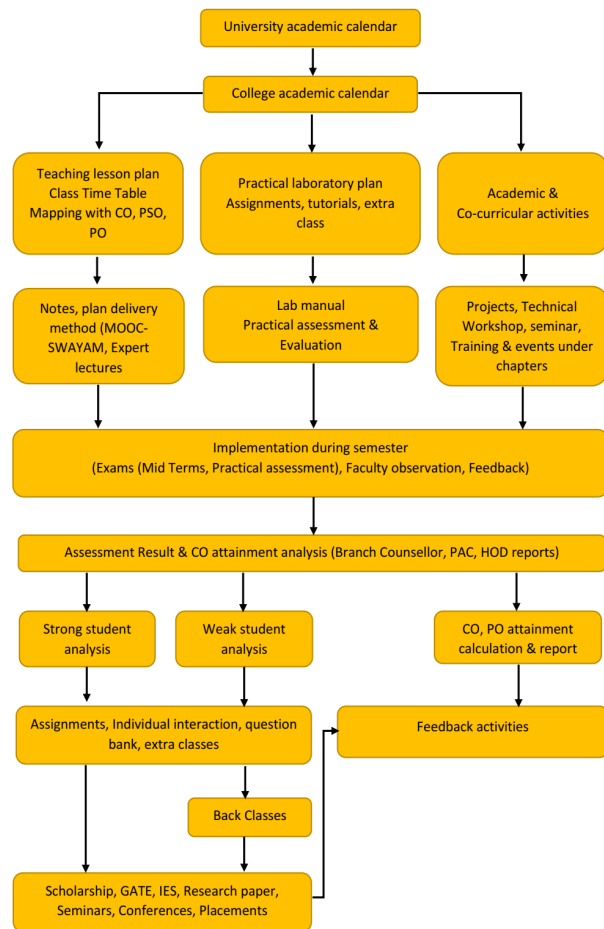
**2.2.1 Describe processes followed to improve quality of Teaching & Learning (25)**

Institute Marks : 25.00

**A. Adherence to Academic Calendar**

- College Academic calendar is prepared in compliance to the University academic calendar covering the teaching learning schedule with examinations and extra-curricular activities at the beginning of the Session.
- Subject allotment is done by HOD before session starts, taking in care the expertise of faculty in respective subject theory and practicals.
- Teaching Lesson plan is prepared in compliance to University syllabus and institute's academic calendar for effective teaching, on time course completion and achieving course outcomes to maximum extent, which is gained through CO, PO and PSO Mapping.
- Faculty prepare the Teachers Diary for each theory and practical subject. Teacher's diary include lesson plan, student attendance, marks, and Syllabus completion. Teacher's diary checked every week by HOD, Principal and Director.
- Subject notes are prepared in soft and hard copy. The HOD verifies notes.
- Lecture delivery methods including traditional ways and advanced techniques like Online MOOC- SWAYAM, expert lectures, video lectures, and industrial visits are planned.
- Practical lab plan, assignment, tutorials and extra classes are planned in which lab manual is prepared and assessment and evaluation is done in each turn.

- Academic and co-curricular activities are planned –projects, technical workshop, seminar, training and events under different student chapters like ACM, CSI, IEEE, IETE, IFERP and ASME are organized. QUASAR- annual sports fest and BASANT- annual cultural event of our institute is planned.
- Examinations during the semester conducted by Exam Cell including mid-terms practical exam and final semester exam.
- Student performance analysis is done based on CO attainment in mid-term tests. Weak student (CO under 60%) are given assignments, and provided question bank and extra classes and back classes are arranged for their improvement. Examined by Branch Counselor and PAC, Report is submitted to HOD.
- Strong students (CO above 60%) are motivated through Providing Scholarship (Aditya Birla Memorial Merit Award, Sarala Birla Memorial Scholarship, International Scholarship for higher studies (Eiffel Scholarship, Erasmus Mundus Scholarship, Alliance Francaise Scholarship, EGIDE Scholarship, Charpak Scholarship etc)), International Internship opportunity, GATE, IES, PSU and Placement preparation, Seminar and Conference attending and presentations.
- CO, PO attainment calculation per subject to maximize the teaching effectiveness.
- Student feedback taken through Branch Counselor, HOD, and Class Representative Meetings with Principal and Director for continuous improvements.



Adherence to Academic Calendar

#### B. Use of various instructional methods and pedagogical initiatives

- **Classroom teaching:** Lectures are prepared considering higher student attentiveness and best learning environment. The strategy implemented for this is first revising previous day topics briefly, and then teaching scheduled topics and toward the end of lecture interaction for queries and doubt clearance.
- **Subject Notes:** Faculty provides Subject notes and handouts to students of their respective subjects. Notes are prepared as soft and hard copies.
- **Previous year papers:** Previous year question papers of respective subjects are discussed among students. This helps students for better preparation of exams.
- **Practical Laboratory work:** Practicals are conducted as per the university guidelines. University has specified practical list. For relevant courses, practicals beyond the specified list are also conducted to improve problem and critical thinking capability of student. Lab manual explaining the details of the practical are available with the Faculty and are given to students for reference and preparation of lab records. Faculty tries to solve individual student queries and assess them. Practical Lab records prepared by the students and evaluated in each lab and marked in the teachers diary for internal assessment marks.
- **E-Learning Material:** Faculty provides E Books, notes, presentations, video links (NPTEL, SWAYAM, TCSion and other MOOC Courses) for better understanding of practical applications of theoretical concepts.
- **Teacher's Diary:** Faculty maintains proper schedule of Lecture Plan, maintain Attendance and academic record of students for proper monitoring and assessment.
- **Expert Talks, Workshop and seminars:** Expert talks, workshop and seminars conducted for students to get exposure to latest technology and trends with respect to the concepts studied in the class.
- **Industrial Training:** Students undergoes Industrial training to cover gap between industry and institutes. In house training provided to facilitate students to experience the corporate environment with skill development. BKBIET, Pilani Ranked 295 in AICTE & Internshala Ranking Report.
- **Skill Development Short Term Courses:** Short-term courses for skill development by the department faculties in each semester to introduce new technologies among students and reduce institute industry gap.
- **International Student exchange Programme:** Under Students Exchange Programme, BKBIET students visit leading international universities for internships and higher studies.
- **International Faculty Exchange Programme:** Faculty Members get latest international teaching and research exposure through collaborations with French and Thai Universities. Under International Faculty Exchange Programme, Faculty from such universities also come to BKBIET and guide students with their technical expertise.
- **Student chapters:** Student chapters (ACM, CSI, IEEE, IETE, ASME and IFRP) conducts various educational activities (seminar, workshop and tours) and facilitate with books (IEEE Library) and journals for advanced research topics.
- **Student Library and Book Bank facility:** We have one Issue Library and two Reference Libraries (air-conditioned and Wi-Fi-enabled) with adequately stocked books, periodicals, references, educational CDs/DVDs, national and international journals, covering all aspects of academic studies and research materials. Students also access to the National Digital Library. First year Students get all course book from book bank and thereafter can get two books issued for 15 days.
- **Branch Counselors:** Two Faculty are assigned to be Branch Counselors for each branch section for proper monitoring of student performance, interacting and counseling parents and students. Manages the attendance, academic, extracurricular activity of students in their section. Send Message regarding attendance and midterm examination marks to students and parents. This helps build better bonding between student and faculty as well as parents get the updates of their wards performance.
- **Supervision in Hostels:** Faculty perform supervision duties in Hostels to keep regular check on student with their grievances and facility management. This improved attendance of students in class as well as increased satisfaction with respect to stay at hostel.
- **Project Guide:** Project guide monitors and guide the students in their minor and major projects regularly.
- **Fortnightly Performance Assessment:** Student performance and course completion report assessed by Branch Counselor and HOD fortnightly. Attendance and academic reports are put on the notice board. Regular check on attendance of students helped increase attendance in classes and academic analysis improved student performance in class.

### C. Methodologies to support weak students and encourage bright students

#### Methodologies to encourage bright students:

- The bright students are identified based on their academic performance. Students securing above 60 % in examination are considered eligible to be bright students. Ranking of students is prepared and Toppers are identified.
- Support to attend conferences, workshops, internship and publish papers in National & International conferences & Journals.
- Provide support to take up innovative projects with technical support and get external funding.
- Support to participate in various Hackathon and competitions. This makes students more open in thinking and problem solving also students evaluate themselves on such open platforms.
- Support and encourage achieving university ranks, also to take up competitive examinations like GATE, IES, GRE, CAT etc.
- Provide support to be future entrepreneur. **BKBIET Innovation center (BIC)** serves as an incubator of entrepreneurs. BIC promotes the spirit of research & development, entrepreneurship and startups in the campus. BIC encourage students to undertake innovation challenges at National and International levels to unleash their potentials in entrepreneurial and startup nurturing platforms.
- BKBIET provides number of Scholarships for meritorious students:
  - Aditya Birla Memorial Merit award & Sarala Birla Memorial Scholarships:** For excellence in academics, Branch Toppers and the Overall Toppers are awarded with scholarships. This scholarship is also awarded for the International Internships.

- ii. **International Scholarships:** BIRD (BKBIET International Relation Division) assist students to get scholarship for higher studies in Foreign Universities. Since 2011, many BKBIET students have received famous international scholarships like Erasmus Mundus scholarship, Eiffel scholarship, Alliance Francaise Scholarship, Regional Scholarship (Bourse d' AccueilRéseauN+i), master Île-de-France Scholarship, EGIDE Scholarship and Charpak Scholarship for higher studies abroad.
- iii. **IJMOT Scholarship:**International Journal of Microwave and Optical Technology (IJMOT) is published in collaboration with B. K. Birla Institute of Engineering & Technology, Pilani. This online journal provides common platform to disseminate original research work.
- iv. **Tuition Fee Waiver Scheme (TFWS):** Provided to top 5% of admitted students in each branch according to economic background as per University guidelines at the time of admission.
- v. **Scholarship for EWS(Economical Weaker Section):** Provided according to student academics and economic background as per University guidelines at the time of admission.
- vi. **Birla Education Trust, Pilani Scholarships:** Provided to BET employee wards based on academic performance at time of admission.
- vii. **Government Scholarships**(e.g. Pradhan Mantri Vidya Lakshmi Karyakram, Prime Minister Scholarship Scheme): These portal have facilities of education loan, scholarship and other student friendly facilities.

#### Methodologies to support weak students:

- A well-defined process containing monitoring, guidance and assistance to slow learners is adopted. Weak students/ slow learners are identified by regular observations and academic performance analysis. Students scoring less than 60 % for CO attainment in mid-term tests and assignments are considered weak students.
- Branch Counselors keep proper monitoring of student performance, interacting and counseling parents and students. Manages the attendance, academic, extracurricular activity of students in their section.
- Extra classes are conducted for weak students for better understanding of the subject and improved results. This step also helped in building their confidence.
- Extra Classes for students with back in previous semesters are conducted for student's result improvement.
- Notes are provided to backlog students including important and previous year questions with solutions.
- Assisting and motivating weak students resulted in low count of weak students with improved results.

#### D. Quality of classroom teaching (Observation in a Class)

- **Lecture Theatre:** Lecture theatres equipped with Projectors, computers and sound system for interactive learning.
- **Class lectures:** Concerned Faculty prepare effective lectures for each subject according to lecture plan following the methodology of revision, current topic and query handling. Report every lecture in the Teachers Diary the same day and submit for weekly review to HOD.
- **Lecture Plan:** Concerned faculty prepare lecture plan of each subject according to University syllabus and University and Institute's Academic calendar.
- **Expert Lectures:** Conduct expert lectures through invited faculties from reputed organization (e.g. BITS Pilani, CEERI Pilani, and TITS Bhiwani).
- **Extra Class/ Tutorials:** Extra class and tutorials for subjects to give effective fundamental understanding and strong basics.
- **Experimental Laboratory Work:** BKBIET has state-of-art and hi-tech engineering laboratories where students experiment and practice what they have learnt in theory. For effective Laboratory work Lab Manual is prepared according to University syllabus. Lab work is done according to the lab manual. All labs are equipped with Projectors/ LED TV to demonstrate the requisite practical and then monitor each student for their performance in lab.
- **Presentations:** Faculty prepare presentations for topics which need more visualizations for effective understanding and thinking.
- **Video Lecture:** Faculty shows video lectures for some topics which are advanced and require media for students to grasp and understand better.
- **Notes/ Handout for Quick Revision:** Faculty prepare notes and handout for quick revision of concerned subjects. These help students for quick reference and better preparation of Examinations.
- **Online MOOC Courses:** Faculty suggest and motivate students to join Online MOOC courses to gain extra knowledge about subjects and credits for their assessments.
- **Teachers Observation:** Director, Principals and HOD visit and attend class randomly to observe and assess Teaching quality.
- **Teaching Feedback:** Director, Principals conduct CR (Class representative) Meeting, in which students of a section are called randomly and then take feedback from them regarding Faculty teaching.
- **Hackathon participation:** Faculty encourage and motivates students to participate in various Hackathon and competitions. This makes students more open in thinking and problem solving also students evaluate themselves on such open platforms.
- **BPTRC:** BKBIET has its own Research Center, **Birla Professional Training & Research Center** that empowers faculty and students to indulge in research and development. Students get training and research tools through BPTRC.
- **BKBIET Innovation center (BIC)** serves as an incubator of entrepreneurs. BIC promotes the spirit of research & development, entrepreneurship and startups in the campus. BIC encourage students to undertake innovation challenges at National and International levels to unleash their potentials in entrepreneurial and startup nurturing platforms.

- **BIRD: BK Birla International Relation Division** to promote international internship and studies. Students get international internship, higher study and placement facility through BIRD.
- **TED<sup>x</sup>**: Institute conduct TED<sup>x</sup> talks in which eminent personalities share their experiences with students and motivate them.
- **Workshop/ Seminar**: Workshops and seminars are conducted throughout year, which gives students an experience and opportunity to listen to experts and learn latest tech from them.
- **Local Chapter Activities**: Institute has 7 Local Chapters (ACM, CSI, IEEE, IETE, IET, ASME and ICFER) which gives students a platform to showcase their talent in organizing and participating in various tech activities and competition. It develops leadership and management qualities in them.
- **Social Activities**: Students are involved in social activities through NSS (National Service Scheme) and NIRMAAN Organization in which they for upbringing the backward and needy section of society do various activities e.g. Teaching poor children and conduct blood donation camp and celebrate events of national importance e.g. Republic Day, Independence Day, Hindi Divas etc.
- **FDP/ Conference/ Workshop**: Faculty attend various FDP programs, Conferences and workshops to learn advanced tech from the experts and then share the same with their colleagues and students.

#### E. Conduct of Experiments (Observation in Lab)

- **Laboratory classes**: Practicals are conducted as per the university guidelines. University has specified practical list. For relevant courses, practicals beyond the specified list are also conducted to improve problem and critical thinking capability of student. Lab manual explaining the details of the practical are available with the Faculty and are given to students for reference and preparation of lab records. Faculty tries to solves individual student queries and assess them. Practical Lab records prepared by the students and evaluated in each lab and marked in the teachers diary for internal assessment marks.
- All labs are equipped with Projectors/ LED TV, high tech equipment to demonstrate and the requisite practical and then monitor each student for their performance in lab.
- **Lab Manual**: For effective Laboratory work Lab Manual is prepared according to University syllabus. All practicals are done according to the lab manual.
- **Educational Posters**: Educational posters in each lab to provide visual aid in learning process. Students get induced to constant learning even when they look around the labs.
- **Training with demonstration**: Faculty first demonstrates the practical and then give problems to students. In this way students get idea of how to solve problems.
- **Monitoring**: Faculty monitors the students while they perform the practical by their own and guide them wherever necessary. Students seek help for practical and each student is evaluated for each practical in the laboratory itself on the same day.
- **Fundamental understanding**: Students learn the fundamentals of the activities performed in the lab and find other applications of the same sort to explore possibilities to highest extent.
- **File record checking**: Students after performing the practical prepare practical files. Faculty evaluates the files, mark corrections, and guides the student for betterment. Student learns to document their work.

#### F. Continuous Assessment in the laboratory

- **Internal Assessment**: Faculty evaluates each student in each practical lab. Each lab is performed according to the Lab plan and manual prepared by faculty. Each practical performed is evaluated and student is assessed for it and provided marks.
- **Teachers Diary assessment**: Faculty maintains the assessment record in the teacher's diary. Teacher's diary contains details the attendance and assessment for each student in each lab.
- **File record checking**: Faculty checks and evaluates the file record prepared by the student and provide marks in internal assessment.
- **Practical Assignments**: Faculty also give practical assignments so that student practice more for the performed practical.
- **External Exam Assessment**: The Department conducts external examination. First, a schedule is prepared according to which students appear in exam. Two faculty for each exam is appointed. Respective faculty as internal examiner prepares the examination paper for students divided in different groups. Student perform the practical given in exam paper and get it checked by faculty. Faculty see the output and marks the performed problem. One faculty appointed as External Examiner takes oral viva of the student. Student is assessed over practical implementation and viva performance.
- **Exam paper setting**: Respective faculty as internal examiner prepares the examination paper set for students divided in different groups. The exam paper is based on the practicals done in laboratory and this is how examiner evaluates student learning during laboratory.

#### G. Student feedback of teaching learning process and actions taken

1. **Branch Counselors Meeting**: Two faculty for each section appointed as the Branch Counselor. Branch counselor maintains the academic record, exam assessment report and attendance record of the student as well as counsel's student and their parents for student's improvement. Branch counselor conduct meeting with students to get their feedback and report to HOD for necessary actions.
2. **HOD Meeting**: HOD Conducts meeting with the class representatives and get feedback of teaching learning process and requirements and take necessary actions.
3. **CR Meeting**: Director and Principals conduct weekly CR (Class Representative) Meeting, get the feedback of teaching-learning process, and take necessary actions for improvement after discussion with the HOD, concerned departments and committees.

Departments and Committees involved are:

- Quality Improvement Committee
- Program Assessment Committee
- Grievance Redressal Committee
- Finance Department
- Purchase Department
- Discipline Committee
- Anti- Ragging Committee

#### **Feedback from Students and Actions Taken**

##### **1. Regarding understanding of Subject:**

Students were concerned for not being able to understand and learn some subjects. HOD and QIC (Quality Improvement Committee) held a meeting with concerned faculty member and identified the reason that the subjects were difficult and required extra classes. Therefore, the concerned faculties were motivated to arrange extra classes and remedial classes to help students' understand the subject better. The students provided the feedback that they are satisfied with the decision and extra classes helped a lot in understanding the subjects and improved their performance in the exams.

##### **2. Regarding usage of modern tools in teaching:**

Many Faculty members are using the modern tools (projector, software's, LED TVs) in teaching-learning process. Students provided feedback that this process is creating interest to explore more in the subject and helping them to understand the subject in better ways as it is more lively and interactive. All faculty were motivated to implement the method and most of the teachers have included modern teaching aids in teaching. They have started preparing power point presentation and other innovative teaching aids to stimulate the students for better understanding.

##### **3. Regarding course completion:**

Students were concerned of course completion for some subject in time. Meeting was held with the HOD and the faculty and it was identified that the particular topics were length but not all. So Extra classes were arranged for the subjects and the course got complete in time. Also motivated faculty, to plan the lectures keeping in mind the time frame-work of the syllabus to complete the entire syllabus in time. From then the lecture plan is followed strictly and students are satisfied with the scheduling of lectures, time allocated to particular topics and Course coverage by the faculty.

##### **4. Regarding training in institute:**

Students are very much satisfied by the trainings arranged by the department to teach them new technologies undertaken by the industries in a very effective manner.

##### **5. Regarding skill development classes:**

Students requested for addition of new courses to meet the growing academic demand and meet the industry requirement. As the institute follow the syllabus provided by University so this request was put forward and in the meantime Skill development classes were arranged. Students are very much satisfied with the skill development classes. Some skills were identified by the faculty members of the respective subjects which were not covered in the syllabus but were very necessary to learn. Faculty members were motivated to continue this activity and give proposal to the HOD.

##### **6. Regarding teachers' interaction and lecture delivery:**

Overall the Students are satisfied with the teachers' punctuality, interaction and lecture delivery in the class. Still the faculty members were motivated to keep improving.

##### **7. Regarding Branch counselor concept:**

Students are satisfied with the Branch counselor concept as it helps to convey their feedback and concerns in a very convenient manner. Students reported that it helps them to get updates regarding their assessment and attendance records at one place.

##### **8. Regarding ERP system:**

Students are very much satisfied with the concept of sending messages through ERP, introduced by the institute as they get information instantly. So management decided to continue the activity.

##### **9. Regarding Class Representative Meeting:**

Students are very happy with the concept of regular feedback through Class Representative Meeting as it helps them to convey their concerns about teaching-learning in an easy and effective manner.

##### **10. Regarding Department initiatives:**

Students expressed their satisfaction towards the initiatives & efforts which department takes from time to time for the improvement of teaching standards and quality of research.

##### **11. Regarding improvement examination:**

Students requested for improving score in I & II Mid-term exam. With mutual discussion of Principal, HOD and faculty members' concept of improvement exam was introduced. Students are satisfied with the concept and its implementation. Continuous feedback is taken to identify improvements and faculty is motivated to assess the performance of the students and accordingly counsel them for better writing skills and further preparation of examination.

##### **12. Regarding books requisition:**

Students regularly give the HOD & Principal requisition for specific books in Library not available in the Library. Then Principal, HOD, QIC and Finance Department hold a meeting. The faculties suggestions are also taken. The requirements are assessed and the books are procured in the library and made available to student to the earliest. Students are very much satisfied.

**13. Regarding equipment requisition:**

Students demanded for some equipment in the IOT Lab for project. A meeting of Principal, HOD, QIC and finance department was held and decided to procure the equipment against the fund for projects & development. So the equipment were procured in the lab and made available to the students. Students are very much satisfied with the action and thanked the management for this action and also developed a number of project using it thereafter.

**14. Regarding Lecture theatre facility:**

The Lecture theatres and Laboratories with Projectors, internet facility and Wi-Fi system are available in the department. Students reported that this facility is very helpful in conducting events and system operating staff is also very cooperative.

**15. Regarding back result improvement:**

Students put their concern regarding improving result in backs subjects. Extra classes for improvement of back students were arranged. After extra classes the number of backs reduced substantially and the result of students improved thereafter. Faculty were motivated to identify such subject and give extra time for those particular subjects so that students get good results in the exams. Students are very much satisfied with the action and thanked the management for this step.

**2.2.2 Quality of internal semester Question papers, Assignments and Evaluation (20)**

Institute Marks : 20.00

**A. Process for internal semester question paper setting and evaluation and effective process implementation:**

The department conducts three internal assessment tests (I Mid Term Test, II Mid Term Test and Improvement Test). I Mid Term test covers first half of the syllabus, II Mid Term test covers second half of the syllabus and Improvement test covers complete syllabus of respective subject. The tests are conducted for marks as per the university guidelines. The duration of each test is of Two hours and question papers are set according to the time.

**i. Internal Semester Question Paper Setting:**

Internal semester question papers are set as per the syllabus specified for each test as:

- **I Mid-term test** -First half of syllabus
- **II Mid-term**- Second Half of syllabus
- **Improvement Test**- Complete syllabus

1. For paper setting faculty prepares a question bank. While preparing question bank pervious Years University Exam papers are taken in consideration.
2. Faculty set the question paper and map with the COs so that after evaluation CO analysis could be done and weak/ strong student in respective CO could be identified to get learning level of each student.
3. Faculty uses Blooms Taxonomy for setting Questions to decide level of learning. Questions covers understanding, application, evaluation, analysis, generation and Recognition.
4. Faculty considers the adequate toughness level for all student types (Fast, average and slow learners) to ensure learning for all:
  - One third question considering slow learners are straight forward and require basic course coverage and basic understanding.
  - One third question considering average learners need adequate content coverage and a level of understanding.
  - One third question considering fast learners requires student to gain greater understanding, analytical thinking and implementation level.

**ii. Assignments Setting:**

1. Assignments are issued to student to ensure the attainment of objectives and learning levels.
2. Assignment is issued to all students. Bright students (scoring 60% and above in respective COs) get adequate training and average, weak students (scoring below 60% in respective COs) are encouraged to do hard work and improve for better attainment level.
3. Faculty set the assignment as per the test syllabus and take in consideration COs mapping and Blooms taxonomy. To bridge the gap between institute and industry problems beyond syllabus are also given.

**iii. Evaluation of Internal Semester Question Paper:**

1. Faculty prepares the solution of the examination paper for evaluation of answer sheets.
2. Evaluated answer sheets are shown to students and solution is explained so those students identify their mistakes and correct them for better understanding and improved performance in the final examination.
3. Solution of examination paper is shared to the students through email or hard copy.
4. Marks list and Strong/ Weak student analysis report is generated including CO attainment so that weak student (Below 60% in respective CO) are identified and worked on improvement.
5. Improvement exam is conducted for absent students with genuine reason and weak students in I and II Mid-term test for improving internal assessment marks.
6. Student absent in all the three test is marked as absent.
7. For final assessment marks, average of the best two test is taken.

"Marks List" and "Strong/ Weak student analysis report" are submitted to branch counselor by faculty for counseling of students for result improvement.

**iv. Evaluation of Assignments:**

Weak student (Below 60% in respective CO) in test are issued assignments. Students complete the assignment and submit in the stipulated time. Assignment is evaluated by the faculty referencing the assignment solution and solution is shared to the students through email or hard copy. Extra classes are conducted.



**B. Process to ensure questions from outcomes/learning levels perspective:**

1. Exam Cell circulates the notice for examination paper submission with the sample examination paper format among the faculty.
2. Faculty set the question paper and map with the COs so that after evaluation CO analysis could be done and weak/ strong student in respective CO could be identified to get learning level of each student.
3. Faculty uses Blooms Taxonomy for setting Question paper to decide level of learning. Questions cover understanding, application, evaluation, analysis, generation and Recognition.
4. Faculties submit the Examination paper to the Exam cell. Exam cell and PAC (Program Assessment Committee) assess examination paper quality with CO Coverage and Learning level analysis and validates the question paper. Examination papers with inadequate quality level are sent back to faculty for revision.

**Sample Sessional question paper:****B.K. Birla Institute of Engineering & Technology, Pilani****First Sessional Exam, 2019****B.Tech- II Year IV Semester (Branch: Computer Science & Engineering)****Time: 2 Hrs****Sub: DCCN-4CS4-07****Max. Marks: 30**

<b><u>Section-A (1x4)</u></b>		
Question No.	Question	CO
1	<b>Explain in short</b>	
	a. Periodic and Non Periodic Signal	CO1
	b. Block Coding	CO2
	c. Codeword and Data Word	CO2
	d. Error Detection	CO2
<b><u>Section-B (4x3)</u></b>		
5	What do you mean by topology? Explain the different types of topologies in detail with the help of an example.	CO1
6	Elaborate and Compare TCP/IP and OSI reference model	CO1
7	<b>Write short notes on:</b> a. Sampling b. Quantization	CO1
8	What is Hamming distance? How minimum Hamming Distance can be calculated? A decimal number was encoded using seven bit even parity Hamming code. After transmission it was received as 1101101. Is there any error introduced during transmission?	CO2
9	<b>Given</b> $\mathbf{G} = \begin{matrix} 1 & 0 & 0 & 0 & 1 & 1 \\ 0 & 1 & 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 1 & 1 & 0 \end{matrix}$ Find out all the code vectors	CO2
<b><u>Section-C (7x2)</u></b>		
10	The generator polynomial of (7, 4) cyclic code is $g(x) = x+x^2+x^3$ . Find the code vector using Systematic <b>OR</b> Non Systematic Form.	CO2

11	<b>Differentiate</b> a. CSMA/CA and CSMA/CD b. Flow Control – Error Control	CO1, CO2
12	<b>Explain the functionalities of</b> 1. Physical Layer 2. Data Link Layer	CO1

B.K. Birla Institute of Engineering & Technology, Pilani

Second Sessional Exam, 2019

B.Tech- II Year IV Semester (Branch: Computer Science & Engineering)

Time: 2 Hrs

Sub: DCCN-4CS4-07

Max. Marks: 30

<u>Section-A (1x4)</u>		
Question No.	Question	COs
1	<b>Explain in short</b>	
	1. ARP	CO3
	2. IPV4	CO3
	3. Open Loop and Closed Loop	CO3
	4. Email	CO5
<u>Section-B (4x3)</u>		
5	Explain the functionalities of network layer. Also explain design issues of network layer.	CO3
6	Explain the process of connection establishment and connection release with the help of a diagram.	CO4
7	Compare TCP and UDP. Also draw the TCP and UDP Header.	CO3
8	Write short notes on 1. WWW 2. DNS 3. HTTP	CO5

9	Use Dijkstra's Shortest Path Algorithm to compute shortest path from node 0		CO3									
<b>Section-C.(7x2)</b>												
10	Find the subnet address and host id for the following	<table border="1"> <thead> <tr> <th>S.No.</th> <th>IP Address</th> <th>Mask</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>120.14.22.16</td> <td>255.255.128.0</td> </tr> <tr> <td>2.</td> <td>141.181.14.16</td> <td>255.255.224.0</td> </tr> </tbody> </table>	S.No.	IP Address	Mask	1.	120.14.22.16	255.255.128.0	2.	141.181.14.16	255.255.224.0	CO3
S.No.	IP Address	Mask										
1.	120.14.22.16	255.255.128.0										
2.	141.181.14.16	255.255.224.0										
11	What is Transport layer? Explain its functionalities.		CO4									
12	What do we mean by network security? What are the different ways to provide security?		CO5									

**Sample of Weak and Bright Student Analysis:**

Weak and Bright Student Analysis											
B K Birla Institute of Engineering & Technology, Pilani											
I Sessional Exam, 2019											
B.Tech- II Year IV Semester (Branch: Computer Science & Engineering )											
Time: 2 Hrs			Sub: Data Communication & Computer Networks 4CS4-07				Max. Marks: 30				
S.NO	ENROL NO	NAME	Marks Obtained in CO1	Total Marks of CO1	%Age of CO1	Below 60% in CO1	Marks Obtained in CO2	Total Marks of CO2	%Age of CO2	Below 60% in CO2	
1	17EBKCS064	MUSKAN AGARWAL	15	16	93.75	NO	14	14	100	NO	
2	17EBKCS065	NAVEEN KUMAR SINGH	16	19	84.21	NO	10	11	90.91	NO	
3	17EBKCS066	NEHA SANGWAN	13	13	100	NO	16	17	94.12	NO	
4	17EBKCS067	NIKHIL GUPTA	AB	AB	AB	AB	AB	AB	AB	AB	
5	17EBKCS068	NISHANT KASHYAP	10	16	62.5	NO	5	14	35.71	YES	
6	17EBKCS069	NITESH KUMAR	12	19	63.16	NO	10	11	90.91	NO	
7	17EBKCS070	PARISHRAM SINGH RATHORE		AB				AB			
8	17EBKCS071	PINKY	10	16	62.5	NO	6	14	42.86	YES	
9	17EBKCS072	POORVA GAUR	10	16	62.5	NO	12	14	85.71	NO	
10	17EBKCS073	PRATEEK SHARMA	5	16	31.25	YES	9	14	64.29	NO	

11	17EBKCS074	PRATEEK SHARMA	10	19	52.63	YES	7	11	63.64	NO
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**Sample of weak & bright students list:**

List of weak & bright students				
B K Birla Institute of Engineering & Technology, Pilani				
B.Tech- II Year IV Semester (Branch: Computer Science & Engineering)				
Sub: Data Communication & Computer Networks (4CS4-07)				
S.NO	ENROL NO	NAME	Below 60% in CO1	Below 60% in CO2
1	17EBKCS064	MUSKAN AGARWAL	NO	NO
2	17EBKCS065	NAVEEN KUMAR SINGH	NO	NO
3	17EBKCS066	NEHA SANGWAN	NO	NO
4	17EBKCS067	NIKHIL GUPTA	AB	AB
5	17EBKCS068	NISHANT KASHYAP	NO	YES
6	17EBKCS069	NITESH KUMAR	NO	NO
7	17EBKCS070	PARISHRAM SINGH RATHORE	AB	AB
8	17EBKCS071	PINKY	NO	YES
9	17EBKCS072	POORVA GAUR	NO	NO
10	17EBKCS073	PRATEEK SHARMA	YES	NO
11	17EBKCS074	PRATEEK SHARMA	YES	NO

**Sample of Assignment based on sessional paper:**

Assignment based on sessional-1:

Assignment		CO
Q1.	What is network hardware? Explain its different types.	CO1
Q2.	What is Topology? Explain different types of topologies. Write their advantages and disadvantages.	CO1

Q3.	Compare TCP/IP and OSI Model in detail	CO1
Q4.	Write short notes on: a. Stop and wait b. ALOHA c. Piggy Backing d. Go Back n ARQ	CO2
Q5.	Explain with example a. Block coding b. Linear Block Coding c. Cyclic Codes	CO2

**Sample of weak students Marks List:**

B K Birla Institute of Engineering & Technology, Pilani				
B.Tech- II Year IV Semester (Branch: Computer Science & Engineering)				
Sub: Data Communication & Computer Networks (4CS4-07)				
Assignment Marks List of Weak Students in Sessional-1				
S.NO	ENROL NO	NAME	Below 60% in CO1	Below 60% in CO2
1	17EBKCS064	MUSKAN AGARWAL	NO	NO
2	17EBKCS065	NAVEEN KUMAR SINGH	NO	NO
3	17EBKCS066	NEHA SANGWAN	NO	NO
4	17EBKCS067	NIKHIL GUPTA	AB	AB
5	17EBKCS068	NISHANT KASHYAP	NO	3
6	17EBKCS069	NITESH KUMAR	NO	NO
7	17EBKCS070	PARISHRAM SINGH RATHORE	AB	AB
8	17EBKCS071	PINKY	NO	4
9	17EBKCS072	POORVA GAUR	NO	NO
10	17EBKCS073	PRATEEK SHARMA	5	NO
11	17EBKCS074	PRATEEK SHARMA	3	NO

**2.2.3 Quality of student projects (25)**

Institute Marks : 25.00

**A. Identification of projects and allocation methodology to Faculty Members**

The projects are mandatory for VII semester and VIII semester students. Students make their **minor and major projects** under the supervision of their respective Guide Faculties. In VII semester student make their minor project which carries 50 marks in RTU curriculum. The student may extend the minor project into major project in VIII semester which carries 200 marks in RTU curriculum.

1. Head of the department shall identify one of the senior faculty members as Project Coordinator
2. Project Coordinator will facilitate guides allotment, progress monitoring and evaluation of the project
3. Students shall form project teams within the stipulated period. To improve the quality of the project each project team contains two students
4. Faculty and students shall express area(s) of interest
5. Allotment of guides by considering their area of interest and students' area of interest
6. Teams shall formulate the project problem in consent with their respective guides
7. Head of the Department and Project Coordinator constitutes Progress Assessment Committee(The committee is shown in Table 2.2.3a ).
8. Guide shall assess the progress periodically and collects a report from the team and records his/her observations
9. Project is evaluated by the demonstration of working prototype and viva/presentation

The composition of the Committee is as shown below :

S.NO	FACULTY NAME	QUALIFICATION	DESIGNATION	ROLE
1	Dr Nimish Kumar	M.Tech, MBA, Ph.D	HOD	Chair
2	Mr Himanshu Verma	M.Tech	Asst.Professor	Co-Coordinator
3	Mr Gauttam Jangir	ME	Asst.Professor	Branch Counselor
4	Mr Gopal Krishan Prajapat	ME	Asst.Professor	Branch Counselor
5	Mr Pradeep Singh Shekhawat	M.Tech	Asst.Professor	Branch Counselor
6.	Mr Ramakant Soni	M.Tech	Asst.Professor	Branch Counselor

**Table 2.2.3a: Details of Members Involved in Project Progress Assessment Committee**

Sample of performa/proposal for project

**Performa for Minor Project (Stage- I) 2013-2014****Course Code:** 7CS10 /7IT10/7EC10/7EE10**Group No.:****Group Detail**

S No.	Name of Candidate	RTU Roll No.	Branch	E-mail	Mobil No.
1.					
2.					

**Title of the Project:****Abstract:****Keywords:****References:**

**Signature of Candidate**      1. \_\_\_\_\_      2. \_\_\_\_\_

**Guides Declaration**

I certify that the topic selected by Mr/Ms \_\_\_\_\_ (Name of student) , in my opinion is fully adequate in scope and quality as a minor project (Stage I) for the degree of B.Tech in \_\_\_\_\_ (Branch).

**Date:-****Signature of Guide****Approved by:****Project and Seminar Evaluation Cell****Guidelines for evaluation of project work may include the following:****Project Report Formulation**

All the final year CS students should prepare their project report under the following headings. The implementation should involve all the phases of software development life-cycle i.e. problem formulation, design, implementation and testing phases.

The project report should be arranged in the following manner:

- Front Page (Colored)
- Certificate
- Acknowledgement

- Table of Contents
- List of Figures and Tables (Figures and Tables should be properly numbered and have captions)
- List of Abbreviation
- Team Information
- Abstract
- Introduction
  - Background
  - Objectives
  - Purpose, Scope and Applicability
- Tools / Environment used
- Analysis Document (This should include SRS in proper structure based on Software Engineering concepts, ER Diagrams/Class Diagrams, Data Flow Diagrams (DFD), Data Dictionary).
- Design Document (Modularization details, Data integrity and constraints including database design, Procedural design and User interface design).
- Program code (Modular Description)
- Testing (Test case design are to be included separately for Unit testing, Integration testing, System testing; Reports of outcome of Unit testing, Integration testing, System testing are to be included separately. Also, details of debugging and code improvement are to be included).
- Input and Output screens
- Implementation of security for the Software developed
- Conclusions
- Limitations of the project
- Future Application of the project
- References
- Glossary
- Appendix

#### **Guidelines for Report**

Below are the guidelines for structuring and formatting of the project report.

1. Report Should be Computerized (Microsoft Word)
2. Project Report should be Hard Bound
3. The Project report should be as like given format.

#### Font

1. Chapter Names - 16 TIMES NEW ROMAN (bold) all caps
2. Headings - 14 TIMES NEW ROMAN (bold) all caps
3. Subheadings - 14 TIMES NEW ROMAN (bold) Title case
4. Sub – sub headings - 12 TIMES NEW ROMAN (bold) Title case
5. Body of Project - 12 TIMES NEW ROMAN
6. Text in Diagrams - 12 TIMES NEW ROMAN (all lower case)
7. Diagrams / Table headings / Fig. Headings – 10 TIMES NEW ROMAN (bold) Title case
8. If any text 12 TIMES NEW ROMAN (Title case)

#### Spacing

1. Two(2) line spacing between heading and body text.
2. 1.5 line spacing in body text.
3. New paragraphs start with single tab.

#### Margins

Left 1.5'      Right 1.0'  
Top 1.0'      Bottom 1.0'

#### Page numbers

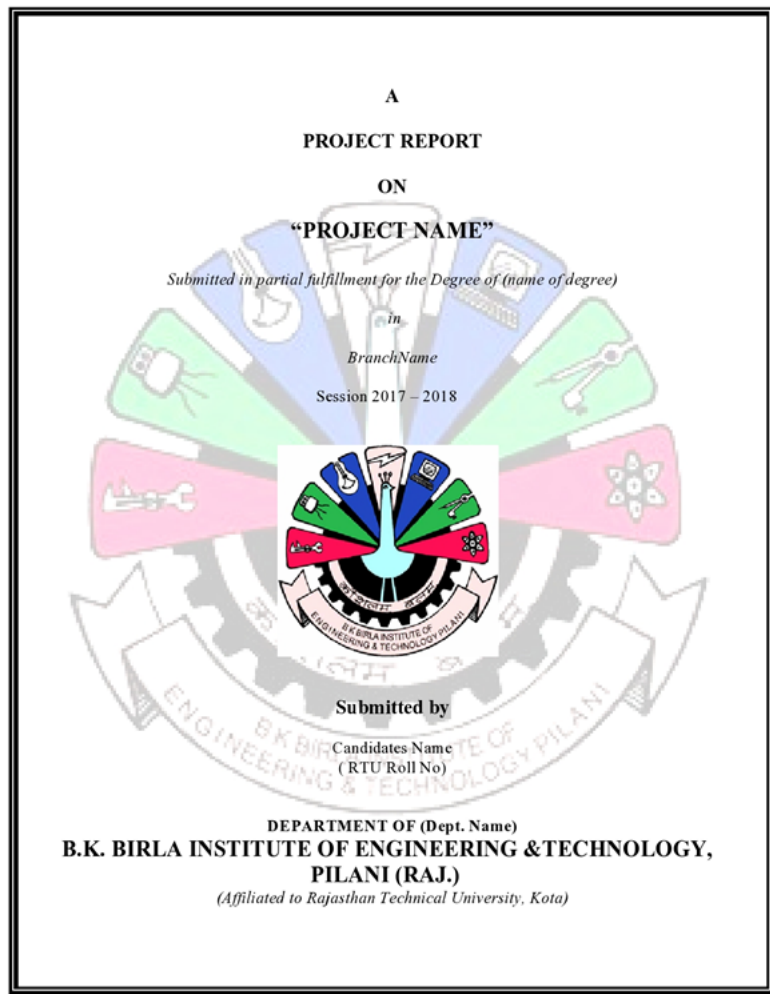
Position: Bottom, Middle



1. Front Pages Small Roman Numbers  
(Excluding title page, Certificate page, Acknowledgement page)
2. Body pages 1,2,3 ..... 3. Annexure 1,2,3.....  
(Separate for each Annexure) Pages Size: A4 paper  
Color: White

Note: The project report should be Hard bound; all pages of report should be numbered; printouts and screen layout should be original. The student should submit one Hard copy of the project including source code along with one soft copy of the project (in CD) per group to the institute. Xerox of the project is not allowed.

Sample of Cover Page of Project Report



**B. Types and relevance of the projects and their contribution towards attainment of PO's**

- Current academic projects are mapped to POs and PSOs.
- Each project is evaluated with internal marks and are graded according to their project quality and with their contribution towards attainment of PO's.

Sample of Student Project for mapping POs and PSOs :

SN	PROJECT NAME	NAME OF STUDENT	POs / PSOs
1	Face Identification	Aditya Kukreti (15EBKCS005)	PO1,PO2,PO3,PO4,PO5,PO11,PO12/ PSO1,PSO2
2	Survival Shooting Game	Poras Vedi (15EBKCS071)	PO1,PO2,PO3,PO5, PO11,PO12/ PSO1,PSO2
3	E-Post Office	Raman Nehra (16EBKCS210) Krishan Kumar (16EBKCS204)	PO1,PO2,PO3,PO5, PO10,PO11,PO12/ PSO1,PSO2
4	Histopathological Cancer Detection	Aayush Bajaj (15EBKCS001) Gopal Maheshwari (15EBKCS033)	PO1,PO2,PO3,PO4,PO5, PO10,PO11,PO12/ PSO1,PSO2
5	Wireless Robotic Hand	Yesvant Alaria (15EBKCS125) Govind Prasad (16EBKCS203)	PO1,PO2,PO3,PO4,PO5, PO10,PO11,PO12/ PSO1,PSO2

**C. Process for monitoring and evaluation**

- Project students should meet their respective guide weekly once and asked to explain their progress they have done in their project in that week.
- They should discuss project progress weekly with the respective guide.
- The project guides will evaluate the progress of the students and help them to go with project work.
- Project guide will assess each student in team and make them work in right way.
- To ensure the quality of projects, project in-charge evaluates the projects submitted by students.

**D. Process to assess individual and team performance**

- Project progress seminars are conducted once in every month by the team of their respective guide, a professor cadre faculty, an Associative professor and an Assistant professor.
- The project seminar should be given by all the project team members according to the division of project.
- Each student in the project team is assessed to their skill set to deliver the seminar, explain the concept and way to make project assess team to understand their work. Each individual and team performance is purely based on this project seminar presentation, the viva voice and progress work they show to their guide.

Phase	Subject Code	Semester	Nature of Work	Assessment
Stage I		VII	Project ideas and Abstract	Problem Definition
			Submission	
			Finalize project theme/title, Define Objectives, Completion Time Line	Progress Presentation

Stage II	Project-I 7CSPR	VIII	Project Implementation		Project Demonstration
			Report Submission and University Viva		Project Report
			New Project idea or extension of Minor Project		Problem Definition
	Project Implementation		Progress Presentation		
	Project Competition, Testing		Project Demonstration		
	Teamwork Assessment		Project Report & Demonstration		
University Viva		Project Report			

**Project Evaluation Process**

S. No	Title of Project	Project Guide	Session (30)				External (20)		Total (50)
			Report (5)	Viva (10)	Presentation (5)	Demonstration (10)	Viva (10)	Demonstration (10)	

**Scheme for the evaluation Project-I**

S. No	Title of Project	Project Guide	Session (120)					External (80)			Total (200)
			Attendance (10)	Report (20)	Viva (30)	Presentation (30)	Demonstration (30)	Viva (30)	Presentation (30)	Demonstration (20)	

**Scheme for the evaluation Project-II**

**E. Quality of completed projects/working prototypes**

- Final project demo for the working prototype and the report are evaluated by a team of respective guide and examiner.
- The projects are evaluated and are awarded internal assessment marks for maximum 120 and are graded according to the project contribution towards attainment of PO's and PSO's.

Project Course Outcomes :

On completion of the Project:	
CO1	Graduates will be able to understand the concepts of real world complex problems with analyzing social impact for sustainable development.
CO2	Graduates will be able to create cost effective solutions in multidisciplinary environments.

CO3	Graduates will be able to Design and Develop Software Applications.
CO4	Graduates will be able to demonstration their work with writing effective Reports, Design Documentation and Presentation.

Sample of Student Project Details:

S#	PROJECT NAME	NAME OF STUDENT
1	Face Identification	Aditya Kukreti (15EBKCS005)
2	Survival Shooting Game	Poras Vedi (15EBKCS071)
3	E-Post Office	Raman Nehra (16EBKCS210) Krishan Kumar (16EBKCS204)
4	Histopathological Cancer Detection	Aayush Bajaj (15EBKCS001) Gopal Maheshwari (15EBKCS033)
5	Wireless Robotic Hand	Yesvant Alaria (15EBKCS125) Govind Prasad (16EBKCS203)

**List of Student Project**

**F. Evidences of Papers Published/Awards received by projects.**

Student will present their paper related to project in conference/journal etc

S. No.	Event	Student name	Title of paper
1.	3rd ICCS-2017	Anurag Sharma	Design of suitable Vibration Isolation System for given equipments mounted on trailer for protection from Transportation Induced Vibration
2.	3rd ICCS-2017	Kashi	ELECTRONIC WATER PURIFIER USING CAPACITIVE DEIONIZATION TECHNOLOGY
3.	3rd ICCS-2017	Anita Melesa Tully	GPS Tracking system using Raspberry Pi
4.	3rd ICCS-2017	NileshSompura	Home Automation via Bluetooth module HC-05 using Arduino UNO
5.	3rd ICCS-2017	Arpit Gupta	PAS Using Arduino
6.	3rd ICCS-2017	Shubham Jain	Web controlled Anti Car-Theft System Using Raspberry pi

7.	3rd ICCS-2017	Ajay Tomar and Rabi Jalan	Predicting Dark Triad Personality from linguistic analysis
8.	3rd ICCS-2017	Prachi Sharma	Integration of Usability Engineering and Software Development Life Cycle is a Blessing for Software Industry
9.	3rd ICCS-2017	ApoorvaJangir	Quality Analysis of Meat using the Techniques of Image Processing in MATLAB
10.	3rd ICCS-2017	VenkateshBhutra	Door Security using Face Detection and Raspberry Pi
11.	3rd ICCS-2017	ANKUR ARUN BHANSALI	CRYOGENIC TREATMENT OF RACING ENGINES AND ITS PARTS
12.	3rd ICCS-2017	Rounakagrwal and Nikesh sharma	A Review on Energy Scenario and Sustainable Energy in India A Review on Energy Scenario and Sustainable Energy in India
13.	3rd ICCS-2017	ShashaankSaxena	Data Extraction and Modification using VB.Net
14.	3rd ICCS-2017	Amit Gaur	To analyze Performance of VoIP in Wireless Networks
15.	3rd ICCS-2017	Harshav	Cloud Computing & Resource Implementation – A Review
16.	3rd ICCS-2017	Shreya Joshi	Hurdles and challenges for 5G implementation
17.	3rd ICCS-2017	Mayank Suman	Effect of Electromagnetic Radiations Due to High Voltage Transmission Lines on Human Beings
18.	3rd ICCS-2017	Abhisek Kumar Savaran	NANOTECHNOLOGY FOR SUSTAINABLE ENERGY
19.	3rd ICCS-2017	Mohit Sharma, Subham Sharma	Designing MATLAB GUI for various Analog and Digital Communication Systems
20.	3rd ICCS-2017	Dinesh Kumar	Performance Analysis of Three-Phase Induction Motor with AC Direct and VFD
21.	3rd ICCS-2017	Vivek Bhardwaj	A Review Paper On Generation Of Electricity In India
22.	3rd ICCS-2017	Abhishek	Electrical Energy Theft in India: A Review Report
23.	3rd ICCS-2017	MohitSoni and Mukesh Singh	Power Sources for generation of Renewable Energy through available resources and potential capacities of India
24.	3rd ICCS-2017	NAVEEN SHARMA	Resume Builder Software
25.	3rd ICCS-2017	ANAGHA SINGH	PRODUCTION OF SCREENCASTS AND VIDEOS FOR A MOOC ON DIGITAL ELECTRONICS
26.	3rd ICCS-2017	Sajal Gupta and Harshita Gupta	Inventory Model for Deteriorating Items with Partial Backlogging under Stock and Price Dependent Demand
27.	3rd ICCS-2017	Nikita Saini	Modelling and Simulation of Armature Controlled DC Motor with Transfer Function Using MATLAB
28.	3rd ICCS-2017	GouravJangir	Android controlled robotic arm
29.	3rd ICCS-2017	PorasVedi	Analysis of an inventory model with time-varying demand for non-instantaneous deteriorating Items
30.	3rd ICCS-2017	Nancy Agarwal	Smart Classroom

31.	3rd ICCS-2017	HarshitSatyaseel	Light Intensity Monitoring & Automation of Street Light Control by IOT
32.	3rd ICCS-2017	Aayush Bajaj	A Review On: Flood Forecasting using Internet of Things and Artificial Neural Networks
33.	3rd ICCS-2017	Devesh Kumar Sharma	"Smart Parking System using Internet of Things (IOT) – A Review
34.	4th ICCS-2019	Sukeerti Kota	Hardware Implementation of basic building blocks of machine learning algorithms using FPGA
35.	4th ICCS-2019	EramRahmani	Applications of Metamaterials in Antenna Designing: A Review
36.	4th ICCS-2019	Mansi Verma	PERFORMANCE EVALUATION AND COMPARISON BETWEEN SINGLE/MULTI CYCLED PROCESSORS
37.	4th ICCS-2019	Kumar Sachin	Solar PV Scenario in India
38.	4th ICCS-2019	SumitVerma	SMART WATER METERING SYSTEM USING NB-IOT
39.	4th ICCS-2019	CharulBudania	Risk Management and Mitigation Steps in Software Development – A Survey
40.	4th ICCS-2019	Anmol Sharma	Communication Blackout and an Alternative Measures For Harsh Space Weather.
41.	4th ICCS-2019	Harendra Kumar	Analysis of OMR Sheet Using Machine Learning Model
42.	4th ICCS-2019	Himanshu Chauhan,	Breast Cancer Classification using Random Forest Classification
43.	4th ICCS-2019	Vatsla Garg	Survey Of Applications Of Natural Language Processing: A Review
44.	4th ICCS-2019	Poorva Gaur	TEXT SUMMARIZATION AN OVERVIEW
45.	4th ICCS-2019	Akshita Sharma	Use of WPA3 in Fog Nodes for Enhanced Security.
46.	4th ICCS-2019	Nikhil Gupta	Malaria Detection from Cell Images Using Deep Learning
47.	4th ICCS-2019	Roopam Agarwal	Automatic wireless Gesture based Robocart
48.	4th ICCS-2019	AbhayRastogi	Fetal Heart Rate Classification using Random Forest Classifier

#### 2.2.4 Initiative related to industry interaction (15)

Institute Marks : 15.00

##### A. Industry supported laboratories

1. **Birla Professional Training & Research Centre (BPTRC):** BPTRC has many labs, where we provide a well study environment addressing the intellectual, and professional and leader development of students. Graduate and diploma engineers are trained as per industry requirement in the following labs

A. **Internet of Things (IoT) Lab:** It transforms problems and ideas into customized solutions. It provides infrastructure suitable for testing sensor devices and heterogeneous communicating objects.

B. **Programmable logic controller (PLC) Lab:** Practical models of Programmable Logic Controller (PLC) like Allen Bradley Micrologix 1000, Allen Bradley Mico830 & Genie-NX PLCs etc.

C. **Practical Low and high voltage Lab:** Various types of stator winding arrangement panels for 2 pole and 4 pole induction motor. Practical Model of 2 pole and 4 pole three phase induction motor

D. **Three phase induction motors Lab:** Various types of starting methods like DOL, Star Delta Starter designing for three Phase Induction Motors with Specification

2. **BKBIET Innovation Centre (BIC):** BIC has labs that are equipped with internet and basic facilities. Labs are followings:

- A. **Embedded Lab:** Lab is equipped with like Arduino, raspberry pi, microcontroller, solar panels, drone kits, etc.
- B. **Web Site Design Lab:** The goal of the lab is to give students a better understanding of how websites are made and inspire them to learn by designing and coding their own creative web project.
- C. **Robotics Lab:** Robotics is an interdisciplinary area of engineering and science that includes mechanical engineering, electronic engineering, information engineering, computer science, and others. Robotics deals with the design, construction, operation, and use of robots, as well as computer systems for their control, sensory feedback, and information processing. Lab have basic robotics kit, drone kits, basic boards and different types of sensors etc. for the students to develop their projects with creative ideas like "Police Booth location", and "Indexing spatial temporal data" etc.
3. **IIC: Institutions Innovation Council (IIC)** is to achieve the vision to promote innovation in young students by encouraging, inspiring and nurturing them to work with new innovative ideas through periodic activities related to innovation and entrepreneurship.

#### B. Industry involvement in the program design and partial delivery of any regular courses for students

Industry persons are invited for the program design, seminars, workshops, so that gap between industry and academic can be reduced. Some of the projects undertaken by the students does seek guidance from Industry. In order to design various inputs on course delivery and beyond syllabus contents the Institution consults the industry.

Guest lectures on important topics of **regular curriculum** are delivered from time to time. Industry visits on a regular basis are organized and students got an opportunity to interact with the industry and get exposure to real life practices.

#### C. Impact analysis of industry institute interaction and actions taken thereof

- Impact on the students of industry interaction is truly upright in terms of the exposure to different dimensions in computer engineering and interdisciplinary field.
- They get to know that what the options are available according to the area of interest in which they can do better and solve real life problems and further can get better work opportunity.
- This kind of interaction force students' routine work also includes projects, participation in national and international competition, group discussion on ideas and their implementation after the industry internship by students.

**Actions** were taken based on the student's feedback. In recent year more number of workshops, seminars, conferences and events are conducted by the department and institute with the association of different technical chapters (IEEE, ACM, CSI etc.) according to their requirements and area of interests.

The department takes following initiatives for interaction with industries:



- **TED<sup>x</sup>:** TedX talk has been organized at BKBIET to discuss various topics like machine learning by Ajinkya Kohle (trainer at google), physical fitness by Mr. Anand Arnold (Mr. Olympia Title 2018) and wealth management by Mr. Feroze Azeez (Deputy CEO of Anand Rathi group) and many more.
- **Smart India Hackathon (SIH) & ICPC:** BKBIET students regularly participate in smart India hackathon and International Collegiate Programming Contest (ICPC). Coders, developers & designers will have a prodigious platform to use their out-of-the-box thinking on Bhamashah, e-Mitra, Artificial Intelligence, Internet of Things, AR/VR, Blockchain, Machine Learning and Data Mobility. The event will witness IT leaders, dignitaries and Officials from Government of India.
- **Placement Assistance:** The HOD and TPO designed a program to teach reasoning, aptitude, technical skills enhancement and communication, which focuses on the placement strategy for unplaced students and also interacts with industry so that they can visit campus and recruit students.
- **Placement Drives:** Many companies are visiting the campus for the recruitment of students. The TPO and HOD regularly interact with industry experts so that they can visit the campus and increase the placement opportunity.

- **Conferences/Workshops:** BKBIET organizes various national and international conferences and workshop for the faculty members and students to interact with national and international delegates, invited as guest lecture, session chair in conferences and workshop organized at college.
- **Alumni:** The interaction is done with many students who are currently working in many reputed companies in India and abroad.
- **Industry-Academia meet:** Industry-academia meet was organized to aware the students, what technologies are being used in industry for solving real life problems.
- **Industrial visit:** The department organizes industrial visit on yearly basis, through these industry members start interaction with campus.
- **Invited Talks:** Department invites many industry experts to make students familiar with industry environment and technologies.
- **Technical Event Judges:** The eminent personalities are invited as judges from industries and institutes in technical events like C, Java and many more.

#### MOUs done with industries:

1. Techienest Pvt. Ltd.
2. Incise InfoTech Pvt. Ltd.
3. Apron Solutions Pvt. Ltd.
4. CyberCure Technologies Pvt. Ltd.
5. Kesoram Industries Ltd.
6. CETPA Infotech Pvt. Ltd.
7. LinuxWorld Informatics Pvt Ltd.
8. Birla Tyres
9. Vasavadatta Cement Plant
10. AMCAT
11. CoCubes

#### Industry Brief:

1. **Techienest Pvt. Ltd.:** TechieNest is a certified ISO 9001:2008, technology service provider and training organization. The soul mission of founders is to facilitate the education, research and development program; all under one roof. Services offered are Product development, training program, organize workshop and technical projects.
2. **Incise Infotech Pvt. Ltd.:** INCISE Infotech Private Limited is a Technology service provider company with the vision of enlightening and igniting the hidden engineer in each one of us by designing the world's most challenging products which simplifies the life of common people. Whatever Incise does it does differently, and strongly believe that the world's most complex problems are solved in the most simplistic manner
3. **Apron Solutions Pvt. Ltd.:** APTRON Solutions offers strategic training paths for the certification skills required to support today's technologies, while offering a broad curriculum of application focused courses for clients looking to implement new/upgraded business applications.
4. **CyberCure Technologies Pvt. Ltd.:** CyberCure works towards Spreading awareness, providing solutions and developing a Better and Secure Digital World and Safeguarding the upcoming future of India from Digital Frauds. The extensiveness of these threats leads to the increase demand for IT Security and E-Business professionals worldwide. The digital world has brought with it a box of challenges, and we aim to face them head-on.
5. **Kesoram Industries Ltd.:** It is one of the pioneer companies in India. It is under the flagship B K Birla Group Of Companies. Its production ranges from tires to cement to rayon. According to ET500, its all India ranking was 121 for the year 2010 with a net income of Rs. 5020.63 Crore and a net profit of Rs. 648.29 Crore.
6. **CETPA Infotech Pvt. Ltd.:** CETPA is a certified by ISO 9001:2015 is Northern India's best training institute which offers training in many evergreen technologies. CETPA has designed its training program to fulfill the needs of engineering students by offering various types of training programs like, Students Training, 6 weeks training, Industrial training, winter training, corporate training, final year project training. Moreover it provides student training in different technologies like Software Testing, JAVA, embedded system, oracle certified, VLSI, PLC and SCADA Training and much more. Different technologies are delivered for students training with well-described modules and different time period.
7. **LinuxWorld Informatics Pvt Ltd.:** LinuxWorld is a RedHat Awarded Partner, Cisco Learning Partner and An ISO 9001:2008 Certified Company is dedicated to offering a comprehensive set of most useful Open Source and Commercial training programmes today's industry demands. For around a decade now, the company has successfully built a niche of its own by offering an integrated portfolio of high end Linux, Open Source training and support services. Our organization is also a well-known name in Linux training Jaipur.
8. **Birla Tyres:** Birla tyres was first established in 1991, as part of Kesoram Industries Limited, initially collaborating, in the production and development of its tyres with world-class tyre manufacturer Pirelli. Since then, Birla Tyres has built a solid reputation for quality and is now recognised as one of the best tyre manufacturers in India.
9. **Vasavadatta Cement Plant:** Vasavadatta cement plant, under Kesoram industries limited Cement Division is an award-winning cement manufacturer and is one of the nations largest producers to provide high quality products and reliable services to our clients and communities throughout India. Discover our manufacturing footprint, products, innovation methods, portfolio and our philosophies along the way.
10. **AMCAT:** The AMCAT is a computer adaptive test which measures job applicants on critical areas like communication skills, logical reasoning, quantitative skills and job specific domain skills thus helping recruiters identify the suitability of a candidate.
11. **CoCubes:** CoCubes is Indias leading assessment and hiring platform. We run assessments to measure employability across all domains - from programming to plumbing. CoCubes works with 600+ corporate clients to execute entry level and lateral assessments and has access to more than a million candidates through its platform. We run 2 million+ assessments each year in 350+ cities; thus, everyday helping our corporate clients reduce interview bandwidth using our central assessment platform, helping our institutional clients measure and improve employability and helping candidates move ahead on their career path. Our vision is to ensure that everyone in the country gets an equal opportunity to build a career. We are the visionaries of this space with a strong growth trajectory and an exciting firm to be with.



**2.2.5 Initiative related to industry internship/summer training (15)****Initiatives****A. Industrial training/ tours for students**

International collaboration with more than eleven universities/institutions of Europe and Thailand attracts the students in selecting global destination for summer training.

Industrial training MoUs have been signed with companies like “Techienest Pvt. Ltd.”, “Incise Infotech Pvt. Ltd.”, etc. to train the students and fulfill the industry academia gap. Area of training is decided by taking the inputs from students and faculties for that session.

**Industrial Tours for students:**

1. Kota Thermal Power Station, Kota
2. Secure Meters, Udaipur
3. For Engineering Congress (AISYWC), Hyderabad

**B. Industrial /internship /summer training of more than two weeks and post-training Assessment**

Training in areas of Machine Learning, Data Science, Deep Learning, IoT and cyber security is included to full-fill the gap between industry and academia. These kinds of trainings are conducted for 30 to 45 days and most of students get benefited from these trainings.

Post-training assessment indicates that applied computer engineering field is rapidly changing and to be in the market we should conduct these kinds of training sessions on current and upcoming technologies.

**C. Students' feedback**

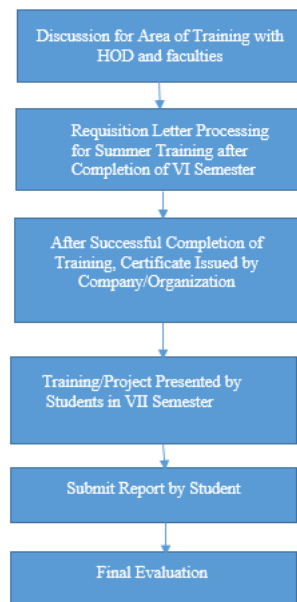
Students' feedbacks are taken orally. Response from students motivates, “conducting training sessions on latest technologies” are really helpful in shaping their future.

**Implementation details**

Process of Internship/Summer Training Allotment

- Rajasthan Technical University/Bikaner Technical University have 15 days after first year, 30 days after second year and 60 days after third year in the curriculum of graduate students as a summer training.
- Students have to pursue a detailed project in the specific company in their field of interest. The project enables the student to understand the business process and makes them ready for the careers ahead.

The process is depicted in following figure:



#### **Process of Internship/Summer Training Allotment**

The process of allotment of summer training is as follows:

- In the beginning students discuss the area of interest and companies in that domain with HOD and faculties.
- Students request to issue a letter for summer training.
- Department issue a letter to individual students for the company that is finalized.
- After completion of training, they will be issued a certificate or evaluation letter from that company
- A presentation will be taken on their summer training in next semester on which they have to submit a report
- Final evaluation will be done and marks will be given for summer training program.

#### **Sample of training requisition letter**



**B K Birla Institute of Engineering & Technology**  
BKBIET Campus, Pilani - 333031, (Raj), INDIA

Approved by AICTE, New Delhi (06/01/RAJ/ENGG/2007/51)  
Affiliated to RTU, Kota (RTU/F17/Acad.I/Gr.1/51/2007-08)

www.bkbiet.ac.in  
Fax No : 01596-244054

Ref No:

Date:

To,

Contact Person Name

Company Address

**Sub:** Practical Training of our student Mr/ Ms \_\_\_\_\_

Dear Sir/Madam,

We introduce ourselves as a leading Engineering Institution in the state of Rajasthan. Primarily our motto is to deliver excellence, perfection and to render best educational services for the betterment of our Nation.

As we are aware, need of the hour today for an Engineering Student, is to undergo industrial training as part of third year B.Tech curriculum of Rajasthan Technical University.

Being a leading organization having the best in-class modern and state-of-art facilities, we strongly feel that the proposed training at your place would be highly beneficial to our students for their career growth.

Kindly permit him/her to avail the facility of Practical Training in your esteemed organization during/commencing from \_\_\_\_\_ to \_\_\_\_\_, details being mentioned as under:

Mr/ Ms \_\_\_\_\_ Roll No \_\_\_\_\_

B.Tech: \_\_\_\_\_ Mob No.: \_\_\_\_\_ e-Mail ID: \_\_\_\_\_

Hoping for a favourable and prolific response.

Thanking you with sincere regards,

Principal (Acad.): 9414062513 e-Mail: principal.acd@bkbiet.ac.in	Principal (Admin.):9414062512 e-Mail: principal.admin@bkbiet.ac.in	Coordinator: 9414062520 e-Mail: training@bkbiet.ac.in
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**Impact Analysis of Industrial Training**

- A positive response in class rooms and labs is seen in the students after their industrial training.
- Impact is also seen in terms of their performance in sessional exams, quizzes, class tests and viva-voce.
- Nowadays students are focusing more on upcoming technologies like machine learning, internet of things, data science and their use in real life problem solving.
- Additionally projects, participation in national & international competition, group discussion on ideas, and their implementation are the impacts of the industrial training.

**Sample of Summer Training(Batch 2016-20) Year 2019**

<p style="text-align: center;"><b>Summer Training Details</b> <b>Batch 2016-20</b> <b>Computer Science Engineering</b></p>					
S. No	Roll No	Name	Training Duration	Training Centre	Training Topic
1	16EBKCS001	ABHILASHA TIWARI	15 May- 30 June	Colaborar Pvt. Ltd., Noida	Web Development
2	16EBKCS003	ABHINAV JAIN	2 June - 20 July	Linuxworld, Jaipur	Machine Learning, Ansible, Hadoop, IOT
3	16EBKCS006	ABHISHEK SAINI	1 June - 15 July	UXArmy, Jaipur	Slack App
4	16EBKCS008	AKASH SHARMA	21 July - 24 Sept	BKBIET Pilani	Python & Machine Learning
5	16EBKCS009	AKSHAT YADAV	1 June - 20 July	Maxfizz Technologies, Jaipur	SEO
6	16EBKCS010	AKSHITA SHARMA	15 May - 28 June	Vasvadatta Cement Plant(Kesoram Ind.), Sedam, Karnataka	ERP( PQC Dept.)
7	16EBKCS011	AMBHUJ	1 June - 20 July	Maxfizz Technologies, Jaipur	SEO
8	16EBKCS012	AMBIKA PAREEK	9 May - 20 July	Linuxworld, Jaipur	Industry 4.0
9	16EBKCS015	AMIT KUMAR	2 June - 21 July	Linuxworld, Jaipur	Machine Learning
10	16EBKCS016	AMIT SHARMA	2 June - 19 July	Linuxworld, Jaipur	Machine Learning
11	16EBKCS017	ANJALI PADIA	14 June - 14 July	Techienest, Jaipur	Machine Learning, Data Science
12	16EBKCS019	ANKUR KEDIA	10 May- 10 August	Cyber Octet Pvt. Ltd, Ahemdabad	Ethical Hacking, System & NW Security
13	16EBKCS022	ASHUTOSH KRISHNA	14 June - 14 July	Techienest, Jaipur	Machine Learning, Data Science
14	16EBKCS023	ASTIK CHOTIA	8 June - 1 August	RannLab Technologies Pvt. Ltd.,Noida	Python Development
15	16EBKCS026	BHUSHAN VERMA	15 August - 25 Sept	BKBIET Pilani	Python & Machine Learning
16	16EBKCS028	DEEPAK KUMAR DUDI	10 May- 10 July	Techienest, Jaipur	Embedded Systems & Robotics
17	16EBKCS029	DEEPALI BABREWAL	9 May - 20 July	Linuxworld, Jaipur	Industry 4.0
18	16EBKCS030	DEEPANSHU JANGID	15 May - 30 June	Techienest, Jaipur	IOT using Raspberry Pi
19	16EBKCS031	DEVANSH BHATNAGAR	10 May - 12 July	Ducat, Noida	AWS , Cloud
20	16EBKCS033	DHANENDRA SINGH CHAUHAN	15 Aug - 25 Aug	BKBIET Pilani	Python & Machine Learning
21	16EBKCS034	DHRUV DAYAL GUPTA	15 May- 15 July	CRED, Bangaluru	Cloud, Python, Linux
22	16EBKCS035	DUSHYANT VYAS	2 June - 19 July	Linuxworld, Jaipur	Machine Learning
23	16EBKCS037	GANESH SUTHAR	2 June - 22 July	Linuxworld, Jaipur	Industry 4.0
24	16EBKCS040	GULSHAN MALAV	15 May - 30 June	CETPA Infotech	Web Development
25	16EBKCS041	HARIKISHAN LATA	27 May - 20 July	CEG, Jaipur	Web Development
26	16EBKCS046	JAGRITY PRIYA	26 June - 11 July	Croma pvt ltd, Noida	AWS Certified Solution Arc
27	16EBKCS047	JATIN PREMJNI	27 May - 19 July	Interra Systems, Noida	Machine Learning
28	16EBKCS048	JAYANT KARNATAK	15 Aug - 25 Aug	BKBIET Pilani	Python & Machine Learning
29	16EBKCS049	JITENDRA KHADOLIYA	6 June - 14 July	Aptron Gurugram	Java
30	16EBKCS050	KUNAL MITTAL	16 May - 16 July	Gimit E services, New Delhi	Core Java
31	16EBKCS051	KUSHAGRA TAYAL	5 July - 13 August	Atthah Info Media Pvt. Ltd., Gurgaon	Industry Exposure in Game Development
32	16EBKCS052	MANISHA AGARWAL	15 May- 17 July	Education Studio Pvt. Ltd.	Python & Machine Learning

3 COURSE OUTCOMES AND PROGRAM OUTCOMES (120)

Total Marks 120.00

Define the Program specific outcomes

3.1 Establish the correlation between the courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs) (20)

Total Marks 20.00

<b>PSO1</b>	The ability to identify, analyze and design solutions for complex engineering problems in multidisciplinary areas by applying the core principles of computer science engineering and allied fields.
<b>PSO2</b>	The ability to achieve programming competency through the use of algorithms and the implementation of standard practices in software project development to deliver quality software products that accomplish industrial needs.
<b>PSO3</b>	Demonstrate ethical behavior in their chosen professions and daily conduct, while working towards the betterment of society and engineering community.

**3.1.1 Course Outcomes(COs)(SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses and made available as evidence, if asked) (5)**

Institute Marks : 5.00

**Note : Number of Outcomes for a Course is expected to be around 6.**

<b>Course Name :</b>	<b>C2 03</b>	<b>Course Year :</b>	<b>2018-2019</b>
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<b>Items</b>	<b>2018-19</b>
C2 03.1	To understand the fundamental of number system and two valued logic with its implementation on switching circuits.
C2 03.2	Acquire the knowledge about representing of Boolean function and various techniques to minimize them.
C2 03.3	Gain fundamental aspects of various logic families and basic circuit of these families with characteristics.
C2 03.4	Develop the ability to design, analyze and identify the combinational circuits.
C2 03.5	Develop the ability to design, analyze and identify the sequential circuits.

<b>Course Name :</b>	<b>C2 04</b>	<b>Course Year :</b>	<b>2018-2019</b>
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<b>Items</b>	<b>2018-19</b>
C2 04.1	Independently understand basic computer network technology. Identify the different types of network topologies and protocols. Understand and explain Data Communications System and its components.
C2 04.2	Understand data link layer & its functions-Error detection & correction.
C2 04.3	Understand Network layer & their functions within a network
C2 04.4	To explain the architecture of TCP/IP and protocols associated with TCP/IP and to analyze the network applications, network management and security issues.
C2 04.5	Understand application layer & its functions, and introduction to network security. To apply the knowledge about QoS.

<b>Course Name :</b>	<b>C3 05</b>	<b>Course Year :</b>	<b>2018-2019</b>
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<b>Items</b>	<b>2018-19</b>
C3 05.1	Be able to understand the fundamentals of VHDL along with case study example of digital circuits
C3 05.2	Be able to use fundamental concepts of VHDL in simulation and synthesis.
C3 05.3	Be able to design clocked sequential circuits as well as programmable logic devices.
C3 05.4	Be able to design event driven circuits and able to understand the concepts of races & hazards.
C3 05.5	Be able to understand the functionality of FPGA, case study examples and technology mapping for FPGAs.

<b>Course Name :</b>	<b>C3 06</b>	<b>Course Year :</b>	<b>2018-2019</b>
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Items	2018-19
C3 06.1	Be able to understand the scan conversion of mathematical objects like line, circle, ellipse and curve.
C3 06.2	Be able to apply color fill algorithms on user defined objects that are modeled using polygons.
C3 06.3	Be able to implement two dimensional transformation operation on user defined objects.
C3 06.4	Be able to implement three dimensional transformation operations on user defined objects.
C3 06.5	Be able to understand basic illumination model and color models along with their suitable use.

<b>Course Name :</b>	<b>C4 07</b>	<b>Course Year :</b>	<b>2018-2019</b>
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Items	2018-19
C4 07.1	To Understand the basics of Cloud computing, Definition of cloud , Historical background of cloud , Characteristics, Risks, Challenges associated with cloud computing ,Why use clouds, Impact of cloud on business and economics, Future of cloud, Ubiquitous cloud and IoT.
C4 07.2	Understanding the cloud Design and Infrastructure. Cloud computing service and deployment models. Programming languages and software used for developing cloud applications.
C4 07.3	To understand virtualization and its role in cloud computing, Characteristics of virtualization, Benefits of virtualization, Levels of virtualization. Virtualization of CPU, Memory, I/O Devices, Server, and Data center. Virtualization tools and mechanism.
C4 07.4	To understand the Cloud Computing Services and security issues. Cloud security architecture, policies, legal issues, Understanding security risks. Data security in cloud.
C4 07.5	To Study popular Cloud Platforms Available in market. Application areas of Cloud computing. Advance topics in Cloud computing.

<b>Course Name :</b>	<b>C4 08</b>	<b>Course Year :</b>	<b>2018-2019</b>
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Items	2018-19
C4 08.1	Be able to describe the fundamental concepts of digital image processing, like representation, conversion from analog to digital image, use of image processing etc.
C4 08.2	Be able to explain various image transformation functions for image enhancement and will be able to perform spatial and frequency domain analysis.
C4 08.3	Be able to evaluate various types of noise responsible for image degradation and method for image restoration such as average filter, median filter etc.
C4 08.4	Be able to define basic concepts of image compression and will be able to interpret image compression techniques.
C4 08.5	Be able to characterize numerous image segmentation and representation methods e.g. edge detection, line detection etc. and their uses.

### 3.1.2 CO-PO matrices of courses selected in 3.1.1(Six matrices to be mentioned; one per semester from 3rd to 8th semester) (5)

Institute Marks : 5.00

#### 1 . course name : C203

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C203.1	2 ▼	2 ▼	2 ▼	3 ▼	2 ▼	3 ▼	3 ▼	- ▼	3 ▼	3 ▼	3 ▼	3 ▼

C203.2	2 ▼	2 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	- ▼	3 ▼	3 ▼	3 ▼	3 ▼
C203.3	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	- ▼	3 ▼	3 ▼	3 ▼	3 ▼
C203.4	2 ▼	2 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	- ▼	3 ▼	3 ▼	3 ▼	3 ▼
C203.5	2 ▼	2 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	- ▼	3 ▼	3 ▼	3 ▼	3 ▼
<b>Average</b>	<b>2.2</b>	<b>2.2</b>	<b>2.8</b>	<b>3</b>	<b>2.8</b>	<b>3</b>	<b>3</b>		<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>

## 2 . course name : C204

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C204.1	2 ▼	2 ▼	2 ▼	3 ▼	2 ▼	3 ▼	3 ▼	3 ▼	1 ▼	3 ▼	3 ▼	3 ▼
C204.2	2 ▼	2 ▼	3 ▼	2 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼
C204.3	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼
C204.4	3 ▼	3 ▼	3 ▼	2 ▼	3 ▼	3 ▼	3 ▼	1 ▼	2 ▼	3 ▼	3 ▼	3 ▼
C204.5	2 ▼	2 ▼	2 ▼	2 ▼	3 ▼	3 ▼	3 ▼	1 ▼	2 ▼	3 ▼	3 ▼	3 ▼
<b>Average</b>	<b>2.4</b>	<b>2.4</b>	<b>2.6</b>	<b>2.4</b>	<b>2.8</b>	<b>3</b>	<b>3</b>	<b>2.2</b>	<b>2.2</b>	<b>3</b>	<b>3</b>	<b>3</b>

## 3 . course name : C305

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C305.1	2 ▼	2 ▼	2 ▼	3 ▼	2 ▼	3 ▼	3 ▼	2 ▼	2 ▼	3 ▼	3 ▼	2 ▼
C305.2	2 ▼	2 ▼	3 ▼	2 ▼	3 ▼	3 ▼	3 ▼	2 ▼	2 ▼	3 ▼	3 ▼	2 ▼
C305.3	3 ▼	3 ▼	2 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	2 ▼	3 ▼	3 ▼	3 ▼
C305.4	2 ▼	2 ▼	2 ▼	3 ▼	3 ▼	3 ▼	3 ▼	2 ▼	2 ▼	3 ▼	3 ▼	2 ▼
C305.5	2 ▼	2 ▼	2 ▼	3 ▼	3 ▼	3 ▼	3 ▼	2 ▼	3 ▼	3 ▼	3 ▼	2 ▼
<b>Average</b>	<b>2.2</b>	<b>2.2</b>	<b>2.2</b>	<b>2.8</b>	<b>2.8</b>	<b>3</b>	<b>3</b>	<b>2.2</b>	<b>2.2</b>	<b>3</b>	<b>3</b>	<b>2.2</b>

## 4 . course name : C306

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C306.1	3 ▼	3 ▼	2 ▼	2 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	2 ▼	3 ▼
C306.2	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	2 ▼	3 ▼	3 ▼	2 ▼	3 ▼
C306.3	3 ▼	3 ▼	2 ▼	2 ▼	3 ▼	3 ▼	3 ▼	2 ▼	3 ▼	3 ▼	2 ▼	3 ▼
C306.4	3 ▼	3 ▼	3 ▼	2 ▼	3 ▼	3 ▼	3 ▼	2 ▼	3 ▼	3 ▼	3 ▼	3 ▼
C306.5	3 ▼	3 ▼	3 ▼	2 ▼	2 ▼	3 ▼	3 ▼	2 ▼	3 ▼	3 ▼	2 ▼	3 ▼
<b>Average</b>	<b>3</b>	<b>3</b>	<b>2.6</b>	<b>2.2</b>	<b>2.8</b>	<b>3</b>	<b>3</b>	<b>2.2</b>	<b>3</b>	<b>3</b>	<b>2.2</b>	<b>3</b>

**5 . course name : C407**

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C407.1	1 ▼	1 ▼	2 ▼	2 ▼	3 ▼	3 ▼	3 ▼	3 ▼	2 ▼	3 ▼	3 ▼	3 ▼
C407.2	1 ▼	1 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	2 ▼	3 ▼	3 ▼	3 ▼	2 ▼
C407.3	1 ▼	1 ▼	3 ▼	3 ▼	3 ▼	3 ▼	3 ▼	2 ▼	2 ▼	3 ▼	3 ▼	2 ▼
C407.4	1 ▼	1 ▼	2 ▼	3 ▼	3 ▼	3 ▼	3 ▼	2 ▼	2 ▼	3 ▼	3 ▼	2 ▼
C407.5	1 ▼	1 ▼	2 ▼	3 ▼	3 ▼	3 ▼	3 ▼	2 ▼	2 ▼	3 ▼	3 ▼	3 ▼
<b>Average</b>	<b>1</b>	<b>1</b>	<b>2.4</b>	<b>2.8</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2.2</b>	<b>2.2</b>	<b>3</b>	<b>3</b>	<b>2.4</b>

**6 . course name : C408**

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C408.1	3 ▼	3 ▼	3 ▼	2 ▼	3 ▼	3 ▼	3 ▼	1 ▼	3 ▼	1 ▼	3 ▼	2 ▼
C408.2	3 ▼	3 ▼	3 ▼	3 ▼	2 ▼	3 ▼	3 ▼	1 ▼	3 ▼	1 ▼	3 ▼	2 ▼
C408.3	3 ▼	3 ▼	3 ▼	3 ▼	2 ▼	3 ▼	3 ▼	2 ▼	3 ▼	3 ▼	3 ▼	2 ▼
C408.4	3 ▼	3 ▼	3 ▼	3 ▼	2 ▼	3 ▼	3 ▼	2 ▼	3 ▼	3 ▼	3 ▼	2 ▼
C408.5	3 ▼	3 ▼	2 ▼	3 ▼	2 ▼	3 ▼	3 ▼	2 ▼	3 ▼	3 ▼	3 ▼	3 ▼
<b>Average</b>	<b>3</b>	<b>3</b>	<b>2.8</b>	<b>2.8</b>	<b>2.2</b>	<b>3</b>	<b>3</b>	<b>1.6</b>	<b>3</b>	<b>2.2</b>	<b>3</b>	<b>2.2</b>

**1 . Course Name : C203**

Course	PSO1	PSO2	PSO3
C203.1	3 ▼	3 ▼	3 ▼
C203.2	3 ▼	3 ▼	3 ▼
C203.3	3 ▼	3 ▼	3 ▼
C203.4	3 ▼	3 ▼	3 ▼
C203.5	3 ▼	3 ▼	3 ▼
<b>Average</b>	<b>3</b>	<b>3</b>	<b>3</b>

**2 . Course Name : C204**

Course	PSO1	PSO2	PSO3
C204.1	3 ▼	3 ▼	3 ▼
C204.2	3 ▼	3 ▼	3 ▼
C204.3	1 ▼	3 ▼	3 ▼



C204.4	2	▼	3	▼	3	▼
C204.5	2	▼	3	▼	3	▼
<b>Average</b>	<b>2.2</b>		<b>3</b>		<b>3</b>	

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**3 . Course Name : C305**

Course	PSO1	PSO2	PSO3			
C305.1	3	▼	3	▼	2	▼
C305.2	3	▼	3	▼	2	▼
C305.3	3	▼	1	▼	2	▼
C305.4	3	▼	2	▼	2	▼
C305.5	3	▼	3	▼	3	▼
<b>Average</b>	<b>3</b>		<b>2.4</b>		<b>2.2</b>	

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**4 . Course Name : C306**

Course	PSO1	PSO2	PSO3			
C306.1	3	▼	3	▼	3	▼
C306.2	3	▼	3	▼	3	▼
C306.3	3	▼	3	▼	3	▼
C306.4	3	▼	3	▼	3	▼
C306.5	3	▼	3	▼	3	▼
<b>Average</b>	<b>3</b>		<b>3</b>		<b>3</b>	

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**5 . Course Name : C407**

Course	PSO1	PSO2	PSO3			
C407.1	3	▼	3	▼	3	▼
C407.2	3	▼	1	▼	3	▼
C407.3	3	▼	2	▼	3	▼
C407.4	2	▼	3	▼	3	▼
C407.5	2	▼	-	▼	3	▼
<b>Average</b>	<b>2.6</b>		<b>2.25</b>		<b>3</b>	

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**6 . Course Name : C408**

Course	PSO1	PSO2	PSO3
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C408.1	3	▼	3	▼	3	▼
C408.2	3	▼	3	▼	3	▼
C408.3	3	▼	3	▼	3	▼
C408.4	3	▼	3	▼	3	▼
C408.5	3	▼	3	▼	3	▼
<b>Average</b>	<b>3</b>		<b>3</b>		<b>3</b>	

## 3.1.3 - A Program level Course-PO matrix of all courses INCLUDING first year courses (10)

Institute Marks : 10.00

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1FY1-05	1	3	3	3	2	2	3	3	3	3	2	3
1FY2-01	3	3	3	2	2	3	2	PO8	2	PO10	2	2
1FY2-03	2.6	3	3	2	2	2.5	2.5	PO8	2	3	2.5	3
1FY3-06	3	3	3	3	1.5	1	2.5	1	2	1.5	2.5	3
1FY3-08	1	3	3	2	3	2	2	2	2	2	3	3
2FY1-04	2.3	3	2	PO4	2	2	PO7	2	3	3	2	3
2FY2-01	3	3	2	1	2.5	2	2	PO8	3	2	3	3
2FY2-02	3	3	3	3	3	3	3	3	3	3	2.5	3
2FY3-07	3	3	3	3	3	3	3	3	3	2	3	3
2FY3-09	3	3	3	2	3	3	3	3	3	2	3	3
3CS1-02	3	PO2	1	PO4	2.8	PO6	3	3	3	PO10	3	3
3CS2-01	3	3	3	2.2	3	3	3	2.2	2.2	2.2	2.2	3
3CS3-04	2.2	2.2	2.8	3	2.8	3	3	PO8	3	3	3	3
3CS4-05	2.2	2.4	3	2.2	3	3	2.2	2.2	2.2	3	3	3
3CS4-06	3	3	3	3	3	3	3	2.6	3	3	3	3
3CS4-07	2.8	3	2.6	3	3	3	3	3	3	3	3	3
4CS1-03	2	1.2	2.8	2.8	3	3	3	3	3	3	3	2.2
4CS2-01	3	3	2.4	3	3	PO6	PO7	PO8	PO9	3	PO11	3
4CS3-04	3	2.2	2.4	3	2.8	3	3	2.2	3	3	3	3
4CS4-05	2.6	2.2	2.4	2.8	2.8	3	3	2.2	3	3	3	3
4CS4-06	2.2	2.2	2.2	2.6	2.8	3	3	2.2	3	3	3	3
4CS4-07	2.4	2.4	2.6	2.4	2.8	3	3	2.2	2.2	3	3	3
5CS1A	2.2	2.4	2.8	3	3	3	3	3	3	3	3	3
5CS2A	2.2	2.2	2.2	2.8	2.8	3	3	2.2	2.2	3	3	2.2

5CS3A	2.2	2.2	2.2	3	2.8	3	3	2.2	3	3	3	3
5CS4A	3	3	3	2.8	2.8	3	3	2.2	3	3	2.2	3
5CS5A	3	3	3	3	2.8	3	3	2.2	2.2	3	3	3
5CS6.1A	2.8	3	2	2.8	2.8	3	2.8	2.2	2.2	3	2.2	2.2
5CS6.3A	3	2.2	2	2.8	1.6	3	PO7	PO8	2.2	PO10	PO11	3
6CS1A	3	3	2.8	3	2.8	3	2.8	2.2	3	3	2.2	3
6CS2A	3	3	3	3	2.8	3	3	2.2	3	3	3	3
6CS3A	3	3	3	3	2.8	3	3	1.6	2.6	3	3	3
6CS4A	3	3	2.6	2.2	2.8	3	3	2.2	3	3	2.2	3
6CS5A	3	3	3	3	3	3	3	2.2	3	2.2	3	3
6CS6.2A	3	3	2.4	3	3	3	3	2.2	3	3	3	3
6CS6.3A	3	2.8	2.4	3	2.8	3	2.2	2.2	2.2	3	3	2.2
7CS1A	3	1	2.4	2.8	3	3	3	2.2	2.2	3	3	2.4
7CS2A	2.2	2.6	2.8	2.8	3	3	2.2	1.6	3	3	3	2.2
7CS3A	3	3	3	2.8	3	3	2.2	1.6	3	2.2	3	2.2
7CS4A	2.8	3	2.8	3	3	3	3	2.2	2.2	2.2	2.2	2.2
7CS5A	2.8	2.8	2.6	2.8	2.2	3	3	1.6	3	3	3	3
7CS6.1A	3	2.6	3	2.8	2.2	3	3	2.2	3	3	3	3
8CS1A	3	3	3	3	3	3	3	2.2	3	3	3	3
8CS2A	3	3	2.8	2.8	2.2	3	3	1.6	3	2.2	3	2.2
8CS3 A	3	3	3	2.8	2.8	3	3	2.2	3	2.2	3	2.2
8CS4.2 A	3	2.4	1.8	2.8	2.8	3	3	2.2	3	2.2	2.2	2.2
8CS4.3A	3	3	3	3	3	3	3	2.2	3	2.2	3	2.2

## 3.1.3 - B Program level Course-PSO matrix of all courses INCLUDING first year courses

Course	PSO1	PSO2	PSO3
1FY1-05	2	2	3
1FY2-01	3	2	2.6
1FY2-03	2	2	2.5
1FY3-06	3	3	2.5
1FY3-08	1	2	2.5
2FY1-04	2.6	PSO2	2
2FY2-01	3	3	PSO3
2FY2-02	3	3	3

2FY3-07	2	2	3
2FY3-09	3	3	3
3CS1-02	2.2	0	3
3CS2-01	3	2.2	3
3CS3-04	3	3	3
3CS4-05	2.2	3	3
3CS4-06	3	3	3
3CS4-07	3	3	3
4CS1-03	2.2	3	3
4CS2-01	3	3	2.2
4CS3-04	3	3	2.8
4CS4-05	3	3	2.2
4CS4-06	3	2.2	2.2
4CS4-07	2.2	3	3
5CS1A	3	3	2.2
5CS2A	3	2.4	2.2
5CS3A	2.2	2.2	2.2
5CS4A	3	2.2	2.2
5CS5A	2.2	2.2	2.2
5CS6.1A	3	2.2	2.2
5CS6.3A	3	3	2.8
6CS1A	3	3	3
6CS2A	2.2	3	3
6CS3A	2.2	2.2	2.2
6CS4A	3	3	3
6CS5A	3	3	3
6CS6.2A	2.2	2.2	3
6CS6.3A	3	3	3
7CS1A	2.6	2.2	3
7CS2A	2.2	3	3
7CS3A	2.2	3	3
7CS4A	2.2	2.2	2.2
7CS5A	2.2	3	3

7CS6.1A	3	3	3
8CS1A	3	3	2.4
8CS2A	3	3	3
8CS3A	3	3	2.2
8CS4.2A	3	2.2	2.2
8CS4.3A	3	3	3

**3.2 Attainment of Course Outcomes (50)**

Total Marks 50.00

**3.2.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based (10)**

Institute Marks : 10.00

**A. List of Assessment process**

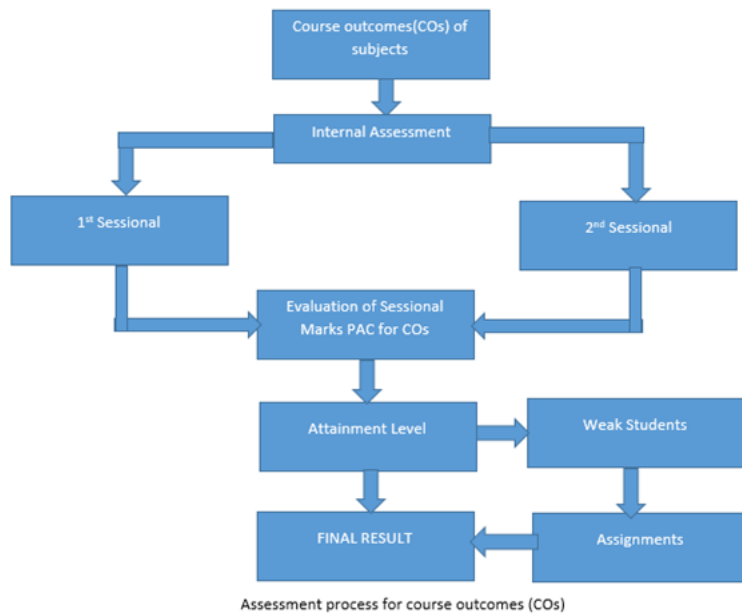
- **Direct Assessment Tools:** include final university exam, sessional exam, practical, quiz, assignment and viva.
- **Indirect Assessment Tool:** Course feedback is used to evaluate the PO and PSO.

**B. Quality and Relevance**

Scheme and Syllabus (Subject wise) is provided by the University. All course outcomes are developed using Bloom's taxonomy and mid semester tests, quiz, practical and assignments are aligned to CO addressing same level of Bloom's taxonomy.

- **Sessionals and University Exam:** Sessional and university examination are metric for assessing whether all the POs are attained or not. Examination is more focused on attainment of course outcomes and program outcomes using a descriptive exam. Two internal tests (known as sessional examination I and II) are held per semester and improvement sessional is conducted for the students who are not able to achieve set attainment level. Each test covers 2/3 units (Maximum) out of 05 Units from the syllabus of respective subject. 1 sessional question paper cover CO1 and CO2, and CO3, CO4 and CO5 are covered in second sessional, if a student is not able to attain the target level in that subject improvement sessional is conducted where he/she has chance for that. Average from all sessional exams is calculated for each COs.
- Each unit covers one or two COs, generally 1<sup>st</sup> unit covers Remembering and understanding level, 2<sup>nd</sup> unit cover applying level, 3<sup>rd</sup> unit covers analysing level, 4<sup>th</sup> and 5<sup>th</sup> unit covers evaluating and creating level. But it may vary from subject to subject. Some subjects may cover only four levels; some may five or all the six levels.
- Question paper format is decided by the academic committee headed by the Principal. Each mid semester paper covers two or Three CO maximum. But it may vary in different subjects depending upon syllabus and course coverage in classroom before commencement of mid semester examination.
- For evaluation of COs well defined statistical technique (excel spread sheet) is used to map the questions with the COs and POs. Since the question wise result of students from the university semester examination are not available, analysis of CO with questions is limited to sessional examinations, assessment of lab practical, assignments, Quiz only.
- **Assignments:** The assignment is a qualitative performance assessment tool designed to assess students knowledge of engineering practices, framework, and problem solving.
- **Quiz:** Quiz is a quantitative performance assessment tool designed to assess students knowledge of engineering practices.
- **Practical Exams:** This is mainly to assess student's practical knowledge with their designing capabilities.

The following diagram depicts the assessment process for Course Outcomes:



3.2.2 Record the attainment of Course Outcome of all courses with respect to set attainment levels (40)

Institute Marks : 40.00

Course Outcomes for all courses from 3rd Semester to 8th Semester 2018-19 (Attainment Level>=60)							
S. No.	Subject Code	Subject	CO1	CO2	CO3	CO4	CO5
1	3CS2-01	Advanced Engineering Mathematics	88.97	71.47	94.96	91.00	82.81
2	3CS1-02	Technical Communication	85.59	86.18	58.32	73.17	NA
3	3CS3-04	Digital Electronics	65.90	63.00	69.00	61.40	69.10
4	3CS4-05	Data Structures & Algorithms	79.86	67.05	52.34	48.32	47.61
5	3CS4-06	Object Oriented Programming	72.24	69.00	66.00	77.79	72.75
6	3CS4-07	Software Engineering	59.78	60.62	64.53	66.53	70.34
7	4CS2-01	Discrete Mathematics Structure	79.20	74.92	81.08	90.54	62.50
8	4CS1-03	Managerial Economics and Financial Accounting	72.90	68.85	69.71	72.54	50.64
9	4CS3-04	Microprocessor & Interfaces	68.69	65.51	65.64	76.24	63.86
10	4CS4-05	Database Management System	71.49	76.04	68.37	77.71	76.69
11	4CS4-06	Theory Of Computation	65.86	64.60	69.30	69.60	68.60
12	4CS4-07	Data Communication and Computer Networks	69.32	70.04	70.01	77.48	71.72
13	5CS1A	ComputerArchitecture	68.57	67.53	75.40	66.46	60.00
14	5CS2A	Digital Logic Design	46.00	60.01	64.56	61.03	54.89
15	5CS3A	Telecommunication Fundamentals	65.84	65.71	67.07	70.38	71.07
16	5CS4A	Database Management Systems	52.47	53.04	59.61	59.75	55.34
17	5CS5A	Operating System	61.21	72.13	74.56	74.83	78.45
18	5CS6.1A	Advanced Data structure	73.57	61.47	79.09	71.06	68.18
19	5CS6.3A	Information Theory and Coding	73.18	70.26	76.76	69.98	71.32
20	6CS1A	Computer Networks	68.90	75.89	69.04	66.42	74.60
21	6CS2A	Design and Analysis of Algorithms	67.40	67.00	76.40	76.40	79.40
22	6CS3A	Theory Of Computation	65.86	64.60	69.30	69.60	68.60
23	6CS4A	Computer Graphics and Multimedia Techniques	38.80	43.16	50.02	50.02	49.28
24	6CS5A	Embedded System Design	60.40	60.70	67.50	66.50	64.80
25	6CS6.2A	Artificial Intelligence	74.91	73.87	75.93	66.34	71.22
26	6CS6.3A	Human Computer Interface	71.80	70.98	66.78	75.28	70.70
27	7CS1A	Cloud Computing	84.13	80.39	79.10	74.06	64.96
28	7CS2A	Information System Security	86.78	81.66	79.45	70.53	70.28
29	7CS3A	Data Mining & Ware Housing	80.82	70.43	68.76	73.10	73.78
30	7CS4A	Computer Aided Design Of VLSI	49.44	43.14	51.77	48.10	46.98
31	7CS5A	Complier Construction	72.70	76.61	81.23	81.76	78.41
32	7CS6.1A	Advance Data Base Management System	70.81	69.42	65.03	70.63	69.54
33	8CS1A	Mobile Computing	76.00	78.02	72.66	63.50	73.50
34	8CS2A	Digital Image Processing	57.95	53.42	65.20	60.12	64.53
35	8CS3 A	Distributed Systems	79.91	79.88	76.36	73.19	66.11
36	8CS4.2A	Real Time Systems	85.25	68.86	71.33	63.48	54.75
37	8CS4.3A	Information Retrieval	76.80	61.11	66.60	75.20	66.40

**3.3 Attainment of Program Outcomes and Program Specific Outcomes (50)**

Total Marks 50.00

**3.3.1 Describe the assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes (10)**

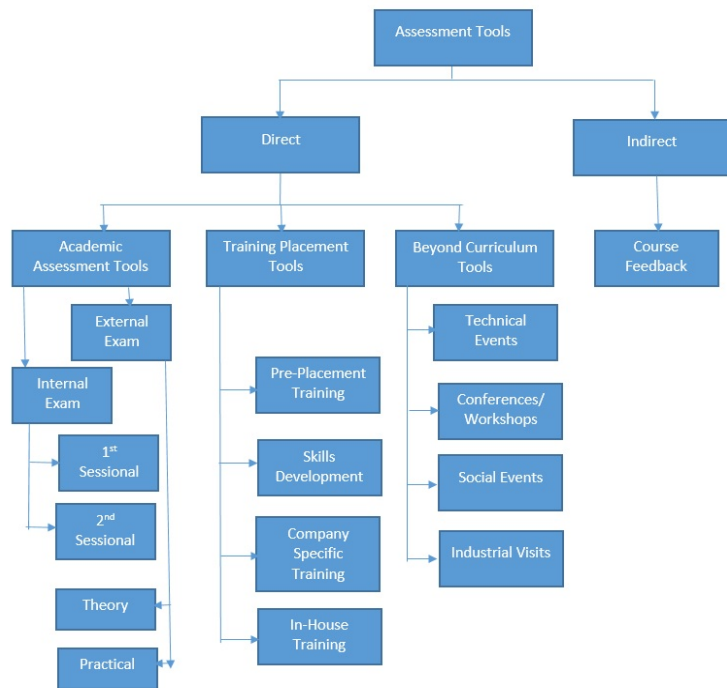
Institute Marks : 10.00

**A. List of Assessment tools and processes:**

- **Direct Assessment Tools:** includes final university exam, sessional exam, practical, quiz, assignment and viva.
- **Indirect Assessment Tool:** Course feedback is used to evaluate the PO and PSO.

**B. Quality and Relevance**

Scheme and Syllabus (Subject wise) is provided by the University. All course outcomes are developed using Bloom’s taxonomy and mid semester tests, quiz, practical and assignments are aligned to CO addressing same level of Bloom’s taxonomy to attain PO and PSO.



Assessment process for attaining POs and PSOs

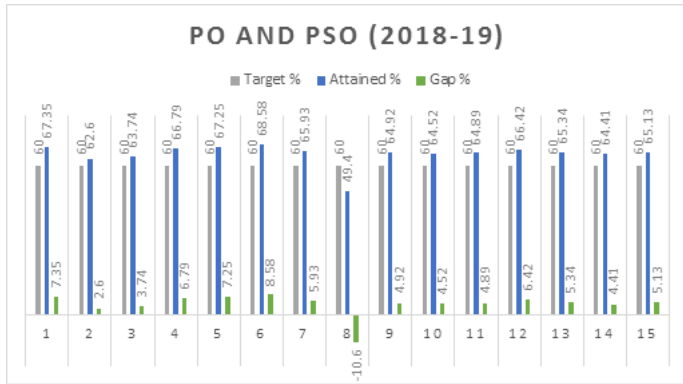
**Results of evaluation of POs (2018-19)**

Tool	Tools	Mapping	Rubric	Attainment
Academic Assessment	Sessionals Result	H	70% students >65%=>100% marks	2.37
			70% students >60%=>80%	
			60% students >65%=>60%	
			60% students >60%=>50%	
			Else =>0 marks	
	Final RTU Result	L	70% students >65%=>100% marks	0.93
			70% students >60%=>80%	
			60% students >65%=>60%	
			60% students >60%=>50%	



			Else =>0 marks	
	Project	M	Distribution as per rule =>20% marks	1.5
			Continuous assessment -1 =>20%	
			Continuous assessment -2 =>20%	
			Internal assessment -1 =>20%	
			External assessment -1 =>20%	
			Else 0 marks	
	Lab/Experiments	H	Record /File =>20%	2.5
			Internal assessment -1 =>40%	
			External assessment -1 =>40%	
	Industrial training	M	>=90% students visited =>100% marks	1.95
			>=80% students visited=>80%	
			>=60% students visited =>60%	
			>=50% students visited =>50%	
			Else=> 0 marks	
Placement	Final Placed Strength	M	>=65% students placed => 100%	1.43
			>=60% students placed => 80%	
			>=50% students placed => 70%	
			>=40% students placed => 60%	
			Else== 0 marks	
	Skills Development	L	>=80% students attended=> 100%	0.92
			>=70% students attended=> 80%	
			>60% students attended => 70%	
			>=50% students attended=> 60%	
			Else== 0 marks	
	Higher Studies	L	>=40% students cleared => 100%	0.5
			>=35% students cleared => 80%	
			>=30% students cleared=> 70%	
			>=25% students cleared => 60%	
			Else== 25% marks	
	GATE/PSU	L	>=35% students cleared => 100%	0.7
			>=30% students cleared => 80%	
			>=25% students cleared=> 70%	
			>=20% students cleared => 60%	

			Else=>= 20% marks	
Beyond Curriculum	Technical Events	H	>=80% students participated => 100%	2.5
			>=70% students participated => 80%	
			>60% students participated=> 70%	
			>=55% students participated => 60%	
			Else=>= 0 marks	
	Conferences/Workshops	L	>=60% students attended => 100%	1.5
			>=55% students attended => 80%	
			>50% students attended=> 70%	
			>=45% students attended => 60%	
			Else=>= 0 marks	
	Social Events	H	>=70% students participated => 100%	2.5
			>=60% students participated => 80%	
			>55% students participated=> 70%	
			>=50% students participated => 60%	
			Else=>= 0 marks	
	Industrial visits	L	>=90% students visited =>100% marks	0.5
>=80% students visited=>80%				
>=60% students visited =>60%				
>=50% students visited =>50%				
Else=> 0 marks				
Feedback	Course feedback	M	>=100% students filled=> 100%	1.2
			>=90% students filled => 90%	
			>=80% students filled=> 80%	
			>=70% students filled => 70%	
			Else=>= 0 marks	



### 3.3.2 Provide results of evaluation of PO&PSO (40)

Institute Marks : 40.00

#### PO Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
3CS1-02	1.76	0	0.65	0	1.63	0	1.77	1.77	1.77	0	1.77	1.77
3CS2-01	2.37	2.37	2.37	1.74	2.37	2.37	2.37	1.74	1.74	1.74	1.74	2.37
3CS3-04	1.29	1.29	1.67	1.75	1.61	1.75	1.75	0	1.75	1.75	1.75	1.75
3CS4-05	1.21	1.33	1.65	1.21	1.65	1.65	1.21	1.21	1.21	1.65	1.65	1.65
3CS4-06	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.72	1.95	1.95	1.95	1.95
3CS4-07	1.84	1.93	1.70	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93
4CS1-03	1.18	0.79	1.70	1.70	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.31
4CS2-01	2.10	2.10	1.70	2.10	2.10	0	0	0	0	2.10	0	2.10
4CS3-04	1.95	1.43	1.57	1.95	1.78	1.95	1.95	1.43	1.95	1.95	1.95	1.95
4CS4-05	1.83	1.53	1.68	1.99	1.91	2.08	2.08	1.53	2.08	2.08	2.08	2.08
4CS4-06	1.44	1.44	1.44	1.73	1.80	1.96	1.96	1.44	1.96	1.96	1.96	1.96
4CS4-07	1.64	1.64	1.79	1.64	1.89	2.03	2.03	1.49	1.49	2.03	2.03	2.03
5CS1A	1.42	1.56	1.85	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94
5CS2A	1.23	1.23	1.23	1.59	1.53	1.67	1.67	1.23	1.23	1.67	1.67	1.23
5CS3A	1.44	1.44	1.44	1.96	1.80	1.96	1.96	1.44	1.96	1.96	1.96	1.96
5CS4A	1.73	1.73	1.73	1.65	1.58	1.73	1.73	1.27	1.73	1.73	1.27	1.73
5CS5A	2.08	2.08	2.08	2.08	1.91	2.08	2.08	1.53	1.53	2.08	2.08	2.08
5CS6.1A	1.93	2.02	1.33	1.85	1.85	2.02	1.85	1.48	1.48	2.02	1.48	1.48
5CS6.3A	1.99	1.46	1.32	1.83	1.10	1.99	0	0.15	0.46	0	0	1.99
6CS1A	2.01	2.01	1.91	2.01	1.91	2.01	1.84	1.47	2.01	2.01	1.47	2.01
6CS2A	2.06	2.06	2.06	2.06	1.88	2.06	2.06	1.51	2.06	2.06	2.06	2.06

6CS3A	2.02	2.02	2.02	2.02	1.85	2.02	2.02	1.11	1.78	2.02	2.02	2.02
6CS4A	1.37	1.37	1.20	1	1.25	1.37	1.37	1	1.37	1.37	1	1.37
6CS5A	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.35	1.84	1.355	1.84	1.84
6CS6.2A	2.50	2.50	2.01	2.50	2.50	2.50	2.50	1.83	2.50	2.50	2.50	2.50
6CS6.3A	2.02	1.93	1.63	2.02	1.86	2.02	1.48	1.48	1.48	2.02	2.02	1.48
7CS1A	2.15	0.79	1.74	1.97	2.15	2.15	2.15	1.58	1.58	2.15	2.15	1.74
7CS2A	1.58	1.90	2.05	1.98	2.15	2.15	1.58	1.19	2.15	2.15	2.15	1.58
7CS3A	2.04	2.04	2.04	1.87	2.04	2.04	1.50	1.12	2.04	1.50	2.04	1.50
7CS4A	1.43	1.50	1.43	1.50	1.50	1.50	1.50	1.10	1.10	1.10	1.10	1.10
7CS5A	2.10	2.10	1.94	2.02	1.62	2.20	2.20	1.21	2.20	2.20	2.20	2.20
7CS6.1A	1.97	1.73	1.97	1.88	1.45	1.97	1.97	1.45	1.97	1.97	1.97	1.97
8CS1A	2.09	2.09	2.09	2.09	2.09	2.09	2.09	1.53	2.09	2.09	2.09	2.09
8CS2A	1.74	1.74	1.66	1.66	1.28	1.74	1.74	0.96	1.74	1.28	1.74	1.28
8CS3A	2.18	2.18	2.18	2.08	2.08	2.18	2.18	1.60	2.18	1.60	2.18	1.60
8CS4.2A	2.04	1.64	1.27	1.87	1.87	2.04	2.04	1.50	.04	1.50	1.50	1.50
8CS4.3A	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.44	1.96	1.44	1.96	1.44

**PO Attainment Level**

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	1.82	1.74	1.73	1.86	1.82	1.96	1.89	1.41	1.72	1.85	1.86	1.80
InDirect Attainment	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

**PSO Attainment**

Course	PSO1	PSO2	PSO3
3CS1-02	1.3	0	1.77
3CS2-01	2.37	1.74	2.37
3CS3-04	1.75	1.75	1.75
3CS4-05	1.21	1.65	1.65
3CS4-06	1.95	1.95	1.95
3CS4-07	1.93	1.93	1.93
4CS1-03	1.31	1.78	1.78
4CS2-01	2.10	2.10	1.54
4CS3-04	1.95	1.95	1.86
4CS4-05	2.08	2.08	1.53
4CS4-06	1.96	1.44	1.44
4CS4-07	1.49	2.03	2.03

5CS1A	1.94	1.94	1.42
5CS2A	1.67	1.35	1.23
5CS3A	1.44	1.44	1.44
5CS4A	1.73	1.27	1.27
5CS5A	1.53	1.53	1.53
5CS6.1A	2.02	1.48	1.48
5CS6.3A	1.99	1.99	1.99
6CS1A	2.01	2.01	2.01
6CS2A	1.51	2.06	2.06
6CS3A	1.48	1.48	1.48
6CS4A	1.37	1.37	1.37
6CS5A	1.84	1.84	1.84
6CS6.2A	1.83	1.83	2.50
6CS6.3A	2.02	2.02	2.02
7CS1A	1.89	1.58	2.15
7CS2A	1.58	2.15	2.15
7CS3A	1.50	2.04	2.04
7CS4A	1.10	1.10	1.10
7CS5A	1.62	2.2	2.2
7CS6.1A	1.97	1.97	1.97
8CS1A	2.09	2.09	1.69
8CS2A	1.74	1.74	1.74
8CS3A	2.18	2.18	1.60
8CS4.2A	2.04	1.50	1.50
8CS4.3A	1.96	1.96	1.96

**PSO Attainment Level**

Course	PSO1	PSO2	PSO3
CO Attainment	1.78	1.79	1.78
Direct Attainment	1.77	1.79	1.77
InDirect Attainment	1.8	1.8	1.8

4 STUDENTS' PERFORMANCE (150)

Total Marks 102.25

Table 4.1

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2018-19 (CAY)	2017-18 (CAYm1)	2016-17(CAYm2)	2015-16(CAYm3)	2014-15(CAYm4)	2013-14 (CAYm5)	2012-13 (CAYm6)
Sanctioned intake of the program(N)	120	120	120	120	120	120	120
Total number of students admitted in first year minus number of students migrated to other programs/ institutions plus No. of students migrated to this program (N1)	111	122	119	121	100	103	118
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	2	4	6	13	14	12	16
Separate division students, If applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the programme(N1 + N2 + N3)	113	126	125	134	114	115	134

Table 4.2

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated without backlogs in any semester/ year of study (Without Backlog means no compartment or failures in any semester/ year of study)			
		I year	II year	III year	IV year
2018-19 (CAY)	113	0	0	0	0
2017-18 (CAYm1)	126	68	0	0	0
2016-17 (CAYm2)	125	63	46	0	0
2015-16 (CAYm3)	134	70	45	45	0
2014-15 (LYG)	114	42	29	23	23
2013-14 (LYGm1)	115	54	39	37	37
2012-13 (LYGm2)	134	66	59	59	59

Table 4.3

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated in stipulated period of study) [Total of with Backlog + without Backlog]			
		I year	II year	III year	IV year
2018-19 (CAY)	113	0	0	0	0
2017-18 (CAYm1)	126	122	0	0	0
2016-17 (CAYm2)	125	119	124	0	0
2015-16 (CAYm3)	134	121	134	130	0
2014-15 (LYG)	114	100	109	107	66
2013-14 (LYGm1)	115	103	113	110	77
2012-13 (LYGm2)	134	118	133	133	98

## 4.1 Enrolment Ratio (20)

Total Marks 20.00

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2018-19 (CAY)	120	111	92.50
2017-18 (CAYm1)	120	122	101.67
2016-17 (CAYm2)	120	119	99.17

Average [ (ER1 + ER2 + ER3) / 3 ] : 97.78

Assessment : 20.00

#### 4.2 Success Rate in the stipulated period of the program (40)

Total Marks 17.90

##### 4.2.1 Success rate without backlogs in any semester / year of study (25)

Institute Marks : 8.00

Item	Latest Year of Graduation, LYG (2014-15)	Latest Year of Graduation minus 1, LYGm1 (2013-14)	Latest Year of Graduation minus 2 LYGm2 (2012-13)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	114.00	115.00	134.00
Y Number of students who have graduated without backlogs in the stipulated period	23.00	37.00	59.00
Success Index [ SI = Y / X ]	0.20	0.32	0.44

Average SI [ (SI1 + SI2 + SI3) / 3 ] : 0.32

Assessment [25 \* Average SI] : 8.00

##### 4.2.2 Success rate in stipulated period (15)

Institute Marks : 9.90

Item	Latest Year of Graduation, LYG (2014-15)	Latest Year of Graduation minus 1, LYGm1 (2013-14)	Latest Year of Graduation minus 2 LYGm2 (2012-13)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	114.00	115.00	134.00
Y Number of students who have graduated in the stipulated period	66.00	77.00	98.00
Success Index [ SI = Y / X ]	0.58	0.67	0.73

Average SI [ ( SI1 + SI2 + SI3) / 3 ]: 0.66

Assessment [15 \* Average SI] : 9.90

**Note** : If 100% students clear without any backlog then also total marks scored will be 40 as both 4.2.1 & 4.2.2 will be applicable simultaneously.

#### 4.3 Academic Performance in Third Year (15)

Total Marks 9.06

Institute Marks : 9.06

Academic Performance	CAYm3 (2015-16)	LYG (2014-15)	LYGm1 (2013-14)
Mean of CGPA or mean percentage of all successful students(X)	6.46	5.89	6.25
Total number of successful students(Y)	130.00	107.00	110.00
Total number of students appeared in the examination(Z)	134.00	109.00	113.00
API [ X*(Y/Z) ]:	6.27	5.78	6.08

Average API [ (AP1 + AP2 + AP3)/3 ] : 6.04

Assessment [1.5 \* AverageAPI] : 9.06

#### 4.4 Academic Performance in Second Year (15)

Total Marks 8.62

Institute Marks : 8.62

Academic Performance	CAYm2 (2016-17)	CAYm3 (2015-16)	LYG (2014-15)
Mean of CGPA or mean percentage of all successful students(X)	5.65	6.03	5.86
Total number of successful students (Y)	124.00	134.00	109.00
Total number of students appeared in the examination (Z)	125.00	134.00	114.00
API [ X * (Y/Z) ]	5.60	6.03	5.60

Average API [ (AP1 + AP2 + AP3)/3 ] : 5.74

Assessment [ 1.5 \* AverageAPI ] : 8.62

#### 4.5 Placement, Higher Studies and Entrepreneurship (40)

Total Marks 26.67

Institute Marks : 26.67

Item	LYG (2014-15)	LYGm1 (2013-14)	LYGm2 (2012-13)
Total No of Final Year Students(N)	107.00	110.00	133.00
No of students placed in the companies or government sector(X)	54.00	67.00	75.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	4.00	7.00	14.00
No of students turned entrepreneur in engineering/technology (Z)	6.00	4.00	3.00
x + y + z =	64.00	78.00	92.00
Placement Index [ (X+Y+Z)/N ] :	0.60	0.71	0.69

Average Placement [ (P1 + P2 + P3)/3 ] : 0.67

Assessment [ 40 \* Average Placement ] : 26.67

#### Program Name :

Assessment Year Name : CAYm1

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	AJAY TOMAR	14E1BKCSM35P003	Kesoram Industries Ltd., Mumbai	2018/14052018
2	AKASH SHARMA	14E1BKCSM45P005	Cybage, Pune	2018/02092017



3	ASHISH JINDAL	14E1BKCSM45P016	Cybage, Pune	2018/02092017
4	ASHISH MAHLA	14E1BKCSM30P017	Cybage, Pune	2018/02092017
5	DHEERAJ POONIA	14E1BKCSM30P027	Start-Up Two Little Feet (NGO)	-
6	HIMANSHU SAINI	14E1BKCSM30P030	Adstacks Pte. Ltd., Gurgaon	-
7	NANCY AGARWAL	14E1BKCSF40P043	Insilico, Bengaluru	X00413
8	NISHA SAINI	14E1BKCSF30P051	Cybage, Pune	2018/02092017
9	NISHANT SHARMA	14E1BKCSM40P052	Lovely Professional University	-
10	PALLAV SHARMA	14E1BKCSM40P056	Hexaview Technologies, Noida	E0156
11	POOJA KUMARI	14E1BKCSF30P058	Cybage, Pune	2018/02092017
12	PRACHI SHARMA	14E1BKCSF40P061	M.Tech from ENSISA, France	-
13	PRINCY NARUKA	14E1BKCSF45P062	Bharti Soft Tech Pvt Ltd, Vadodara	2018/28122017
14	RABI JALAN	14E1BKCSM45P066	Start-Up Unclecabby   Edureka	-
15	RAHUL KUMAR VERMA	14E1BKCSM45P068	Cybage, Hyderabad	2018/02092017
16	RAKHI	14E1BKCSF30P070	Bharti Soft Tech Pvt Ltd, Vadodara	2018/28122017
17	RAUNAK TRIKHA	14E1BKCSM40P071	RMgX	-
18	RISHIKA TODI	14E1BKCSF45P077	CHEP India Pvt Ltd, Bengaluru	2018/11112017
19	SANJU SIHAG	14E1BKCSF30P086	NIIT Ltd, Bangalore	33888
20	SHAKSHI TULSIAN	14E1BKCSF40P089	Kesoram Industries Ltd., Mumbai	2018/14052018
21	SHUBHAM RATHI	14E1BKCSM45P091	Hexaview Technologies, Noida	E0155
22	SRISHTI BHATNAGAR	14E1BKCSF45P094	Insilico, Bengaluru	-
23	SURENDER SHARMA	14E1BKCSM35P096	Volvo Eicher Commercial Vehicles Ltd.	-
24	UPPUNURU VIJAY SIMHA REDDY	14E1BKCSM45P100	WiZN Systems Pvt Ltd, Hyderabad	-
25	VARUN SAINI	14E1BKCSM30P101	Cybage	2018/02092017
26	VIBHA VAIDYA	14E1BKCSF40P102	Dotsquares, Jaipur	-
27	VIPUL SHARMA	14E1BKCSM40P105	Godfrey Phillips India limited	-
28	RIDDHI AGARWALA	14E1BKCSF45P300	CHEP India Pvt Ltd, Bengaluru	2018/11112017
29	LATA SONI	14E1BKCSF30P302	Tata Consultancy Services	-
30	KUSUM BUDANIA	15E1BKCSX30P208	Multibrand Security Solutions	-
31	TEJAS SHARMA	14E1BKCSM40P098	Green Connect Technologies	GCT/OL/003/2017-18
32	NAVEEN YOGI	14E1BKCSM30P048	Start-Up Navsha CyberInfotech Pvt Ltd, Jaipur, Rajasthan	-
33	SAURAV SINGHAL	14E1BKCSM10P088	Bharti Soft Tech Pvt Ltd, Vadodara	2018/28122017
34	POOJA NIRWAN	14E1BKCSF40P059	Habilelabs Private Limited (HABILELABS), Jaipur	-
35	ADITYA BHARDWAJ	15E1BKCSX45P200	Tech Mahindra, Noida	-
36	MANISH	15E1BKCSX10P210	Destinasia.com, Jaipur	-
37	AJAY SINGH SISODIYA	14E1BKCSM45P002	Predictive Analytics Nanodegree Student	-

38	AJEET SINGH	14E1BKCSM40P004	Founder at hackeduser	-
39	ANJANI SUMAN	14E1BKCSM45P012	Microsoft	-
40	DESHRAJ KUMAWAT	14E1BKCSM30P024	E2E Networks Limited	-
41	HEMENDRA SINGH BARAD	14E1BKCSM40P029	ZappFresh	-
42	PRIYANKA SINGHAL	14E1BKCSF40P065	Mtoag Technologies	-
43	REYA SHARMA	14E1BKCSF40P072	M.Tech, Vellore Institute of Technology	-
44	RIDDHI	14E1BKCSF40P073	BXB Digital, A Brambles Company	-
45	SAPNA CHANEJA	14E1BKCSFX0P087	Incise Infotech Private Limited	-
46	SIDDHI	14E1BKCSF40P092	Essar Oil Limited	-
47	YATENDER POONIA	14E1BKCSM30P107	InsuranceInbox	-
48	DEEPAK AGARWAL	14E1BKCSM40P301	UncleCabby	-
49	GAURAV KUMAR SHARMA	15E1BKCSX40P204	Self employed	-
50	KHUSBOO SHARMA	15E1BKCSX40P207	XCode Web Solutions	-
51	SAGRIKA MIDDHA	14E1BKCSF40P082	Coaching at Made Easy	-
52	AMIT GAUR	14E1BKCSM45P010	Sunrise Technologies Pvt Ltd, Vadodara	-
53	KALPANA PATHAK	14E1BKCSF40P032	Project Assistant in CEERI, Pilani	T1163
54	SONAL PAYAL	14E1BKCSF30P093	Tagore Public School, Pilani	-
55	VIPIN SHARMA	14E1BKCSM40P103	Kellton Tech Solutions, Gurgaon	6210
56	SOURABH RATAWA	15E1BKCSX40P213	Noida	-
57	AMAR NATH GUPTA	14E1BKCSM35P009	Acliv Technologies Private Limited, New Delhi	-
58	MANISH KUMAR JANGIR	14E1BKCSM30P038	LMD Consulting, LLC Jaipur	-
59	MANISH SAINI	14E1BKCSM35P039	Superior Power Solutions, Bhiwani, Haryana	-
60	NEHA ALOK	14E1BKCSF45P050	BYJU'S(Think & Learn Pvt. Ltd.), Banglore	-
61	NISHCHAL VERMA	14E1BKCSF30P053	IMG Global Infotech Private Limited, Jaipur	-
62	VIRAT SINGH	14E1BKCSM40P106	InVOID Technologies, New Delhi, Delhi	-
63	AVI SHARMA	14E1BKCSM40P019	MBA in Finance from National Institute of Banking Management, Pune	-
64	SANDEEP KUMAR	14E1BKCSM10P085	M.Tech Second Year from Keystone Group of Colleges, RTU Kota	-

**Assessment Year Name : CAYm2**

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	AKANKSHA TANWAR	13E1BKCSF4XP007	Cybage	2017/09092016
2	DIVYANSHU SHARMA	13E1BKCSM4XP028	Click-Labs, Chandigarh	2017/01072017/1
3	KARAN NIJHAWAN	13E1BKCSM45P038	Cybage	2017/09092016
4	MANISHA SAINI	13E1BKCSF3XP048	Secure Meters	43209
5	NAMAN BANSAL	13E1BKCSM45P052	Cybage	2017/09092016
6	NEHA CHOUDHARY	13E1BKCSF3XP057	Cybage	2017/09092016
7	NEHA DAHIYA	13E1BKCSF3XP058	Cybage	2017/09092016

8	NIKHIL BHOMIA	13E1BKCSM4XP060	M.Tech Computer Science from Maharashtra Institute of Technology, Pune	-
9	PARVEEN KUMAR	13E1BKCSM45P062	Research Fellow at CSIR CEERI, Delhi	T-1114
10	PIYUSH MODI	13E1BKCSM4XP064	StartUp Whisperingbox, Noida	-
11	PIYUSH NAREDI	13E1BKCSM4XP065	Ranosys Technologies, Jaipur	2017/08062017
12	POORVAGYA SHARMA	13E1BKCSF4XP067	Cybage	2017/09092016
13	PRAGYA MISHRA	13E1BKCSF45P068	Virtusa, Bangalore	8070378
14	PRANATI BALODIA	13E1BKCSF4XP069	Cybage	2017/09092016
15	RACHANA AGARWAL	13E1BKCSF4XP073	Infosys	795105
16	RAJLAXMI SHEKHAWAT	13E1BKCSF4XP076	Mobile Programming India Pvt Ltd., Gurgaon	MPIPL/GGN/17/1033
17	SHUBHAM RANJAN	13E1BKCSM45P092	InfoObjects, Jaipur	-
18	SHUBHAM SHARMA	13E1BKCSM4XP093	Cybage	2017/09092016
19	SMARTH RAMBAL	13E1BKCSM45P095	Cybage, Pune	2017/09092016
20	VANSHAJ KUMAR	13E1BKCSM45P103	DineOut, Noida	2017/31012017
21	VIBHOR GAUR	13E1BKCSM4XP106	Start-Up Shift Anywhere, Gurgaon	-
22	VINAY GARG	13E1BKCSM45P108	Cybage, Pune	2017/09092016
23	VIVEK LUNIA	13E1BKCSM4XP111	Click-Labs, Chandigarh	2017/01072017/2
24	AKASH BAJAJ	13E1BKCSM4XP851	Secure Meters, Udaipur	43210
25	HARSHITA KULHAR	14E1BKCSF30P203	Allianz Worldwide Partners, Gurgaon	2017/08032017
26	ASHISH POONIA	13E1BKCSM3XP021	Start-Up Telepresent, New Delhi	-
27	AYUSHI BAHUGUNA	13E1BKCSF45P023	ThinkSys Software Private Limited, Noida	-
28	KAILASH CHANDRA MATHPAL	13E1BKCSM45P037	Syntel Pvt. Ltd., Pune	-
29	RAJAT KUMAR	13E1BKCSM45P075	CSIR - Central Institute of Mining & Fuel Research, Dhanbad	-
30	SIDDARTH DANGE	13E1BKCSM3XP094	Conduent	-
31	SUMIT KUMAR	13E1BKCSM3XP098	Tata Consultancy Services, Noida	-
32	MD AZAZ AHMAD	13E1BKCSM35P049	MS at Polytech Nantes, France	-
33	HITESH WALIA	13E1BKCSM45P035	MS at Polytech Nantes, France	-
34	AKSHAY CHOUDHARY	13E1BKCSM3XP008	EsyaSoft Technologies Pvt Ltd	-
35	ANJU KUMARI	13E1BKCSF3XP014	Derbii	-
36	ANSHUL	13E1BKCSM45P018	GeeksforGeeks	-
37	ARVIND KUMAR	13E1BKCSM45P020	Monocept	-
38	KIRAN BUDANIA	13E1BKCSF3XP039	HCL Technologies	-
39	KIRTI KIRORIWAL	13E1BKCSF3XP040	Research Associate, BITS	-
40	KUNDAN KUMAR	13E1BKCSM45P042	Kuliza	-
41	MEGHA GUPTA	13E1BKCSF4XP050	Healthians.com	-
42	RAVEENA	13E1BKCSF45P078	PYRAMID IT CONSULTING PRIVATE LIMITED	-

43	ROHIT SAHU	13E1BKCSM3XP081	EsyaSoft Technologies Pvt Ltd	-
44	S. DURGA	13E1BKCSF4XP083	Visvesvaraya National Institute of Technology Degree NameMaster of Technology - Mtech	-
45	SHUBHAM GUPTA	13E1BKCSM45P091	Accenture	-
46	UPANSHI MITTAL	13E1BKCSF45P102	Effectual Services	-
47	VIVEK AGARWAL	13E1BKCSM4XP110	T.I.M.E. (Triumphant Institute of Managment Education)	-
48	PANKAJ SAINI	14E1BKCSM30P205	Self Employed	-
49	SHIKHA KAMBOJ	14E1BKCSF40P208	Amiga Informatics	-
50	SOURABH SHARMA	14E1BKCSM40P210	OYO	-
51	ANNU ANAND	13E1BKCSM45P017	PromptCloud	-
52	ANURAG SHARMA	13E1BKCSM4XP019	Kansai Nerolac Paints Ltd	-
53	MADHUR SONI	13E1BKCSM35P045	BPS IT & WEB SERVICES PVT LTD	-
54	NARENDRA KUMAR SUIWAL	13E1BKCSM3XP053	Progression	-
55	HARSHVARDHAN SINGH RATHORE	13E1BKCSM4XP033	MS Luxembourg, Europe	-
56	BAVESSH RAINA	13E1BKCSM45P024	MS Luxembourg, Europe	-
57	NEERAJ SHARMA	13E1BKCSM4XP056	Zordial Technologies Private Limited, Jaipur	ZT-0009
58	RUCHI	13E1BKCSF3XP082	M.Tech in Computer Science from Central University of Rajasthan	-
59	SHALU	13E1BKCSF3XP089	M.Tech in Computer Science from RTU, Kota	-
60	ANKITA SAINI	13E1BKCSF3XP016	Geeksforgeeks, Noida	-
61	ASHU YADAV	13E1BKCSF3XP022	Self employed Choreographer at Mumbai	-
62	FARUK HUSSAIN	13E1BKCSM3XP029	Axis Bank, Chirawa	AS176437
63	KAILASH CHAND JAKHAR	13E1BKCSM3XP036	Mantis Technologies, Bangalore	496
64	TRILOK KUMAR	13E1BKCSM35P101	Smartprix, Noida	2269048
65	VARSHA SHARMA	13E1BKCSF4XP104	Pragmasys Consulting LLP	-
66	HARISH KUMAR	14E1BKCSM30P202	Hardware Technician at BBVP	BTTI0302025
67	POOJA SWAMI	14E1BKCSF30P206	Teaching at Jamuna Mishra Acd., Pilani	-
68	SONU RANI	14E1BKCSF35P209	Haryana Agriculture University	-
69	HEMANT KUMAR SINGH	13E1BKCSM45P034	Freelancer, Mumbai	-
70	MANISH	13E1BKCSM3XP046	Freelancer, Bengaluru	-
71	PRASHANT VERMA	13E1BKCSM3XP070	Backend Developer at Quarks Technosoft, Noida	-
72	RAHUL KUMAR MANDAL	13E1BKCSM35P074	Developer at Algoscale technologies, Inc., Noida	-
73	RAVI SHANKAR VERMA	13E1BKCSM35P079	Software Developer at Thrymr Software, Hyderabad	-
74	SANDEEP KUMAR	13E1BKCSM35P085	Talent Acquisition Specialists at Compunnel Staffing	-
75	SHAILESH KUMAR SINGH	13E1BKCSM45P087	Jana Care, Bengaluru	-
76	SHAKTI SINGH	13E1BKCSM4XP088	Voice Tech Innovator at VoxxUp	-
77	SHARWAN BURI	13E1BKCSM3XP090	PHP developer at Perdiscoo Technology Pvt. Ltd	-

78	LOVE KUMAR SOLANKI	13E1BKCSM4XP044	Anand Rathi IT Pvt. Ltd., Jodhpur	936747
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**Assessment Year Name : CAYm3**

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	AADITYA GOYAL	12E1BKCSM45P001	Cybage-Pune, InfoObjects-Jaipur	2016/14092015
2	AAYUSHI GUPTA	12E1BKCSF45P002	M.Tech (Big Data & Data Analytics), School of Information Science, Manipal	-
3	ADITI CHARORA	12E1BKCSF4XP004	MS, Computer Science from University of Massachusetts Lowell	-
4	ADITI TYAGI	12E1BKCSF45P005	Qualys Inc, Pune	-
5	AKANSHA JINDAL	12E1BKCSF45P007	Myworkforce Technologies, Gurgaon	2016/200716
6	AKHIL SHARMA	12E1BKCSM4XP009	Associate Developer at C R G Solutions Pvt Ltd, Pune	-
7	AMAN ARORA	12E1BKCSM4XP010	Subex Limited, Bangalore	-
8	AMIT SANGWAN	12E1BKCSM4XP013	Academiaguru.com	2016/290116
9	ANIL KUMAR	12E1BKCSM3XP015	Daffodil Software, UX Army	2016/310116
10	DEEPIKA SHEKHAWAT	12E1BKCSF4XP027	CyberCure Technologies, Ghaziabad	2016/190216/1
11	DHRUV GAUR	12E1BKCSM4XP029	Muraai, Bangalore	2016/051016
12	GYAN PRAKASH	12E1BKCSM3XP030	HCL Technologies	-
13	KHUSHAL	12E1BKCSM45P034	Cybage, InfoObjects	2016/14092015
14	KHUSHBOO SHARMA	12E1BKCSF45P035	Academiaguru.com, CyberCure Technologies	2016/190216/2
15	KIRTI SHARMA	12E1BKCSF45P037	OPPO Mobiles, FAB2U, Futiq Technologies	2016/200116/1
16	KULDEEP SINGH	12E1BKCSM4XP041	Cybage	2016/14092015
17	MADHURIMA M	12E1BKCSF45P045	OPPO Mobiles, Futiq Technologies, CyberCure Technologies, Amazon Development Centre, Sony Pictures Entertainment	2016/200116/2
18	MAYANK JANGIR	12E1BKCSM3XP052	Daffodil Software, InfoObjects	2016/19102015
19	MD TOISIPH EKBAL	12E1BKCSM45P053	Maxgen Technologies Pvt Ltd	-
20	MEENAKSHI GOYAL	12E1BKCSF45P054	Cybage	2016/14092015
21	NEHA MITTAL	12E1BKCSF45P058	Nucleus Software	-
22	NIDHISH SHARMA	12E1BKCSM4XP061	Ecom Express	2016/21052016/1
23	NUPOOR CHOUDHARY	12E1BKCSF4XP064	Cybage, Maintec Technologies	2016/14092015
24	PALLAVI GAUR	12E1BKCSF45P065	Cybage, DXC Technology	2016/14092015
25	POOJA JHA	12E1BKCSF45P067	Cybage	2016/14092015
26	POOJA SHARMA	12E1BKCSF45P069	Healthians, Essentrix	-
27	POONAM	12E1BKCSF3XP071	Cybage	2016/14092015
28	PRAVEEN SHARMA	12E1BKCSM4XP074	Ecom Express	2016/21052016/2
29	RAVINDRA SINGH RATHORE	12E1BKCSM4XP089	OckyPocky, Gurgaon	-
30	ROHIT YADAV	12E1BKCSM3XP091	ThinkCurve Technologies, New Delhi	-
31	SAKSHAM AGARWAL	12E1BKCSM4XP093	Cybage, Samsung R&D Institute	2016/14092015
32	SHASHANK MATOLIA	12E1BKCSM4XP100	CellOS Software Ltd, Gurgaon	2016/29122015
33	SHUBHAM BHATT	12E1BKCSM4XP101	eBizneeds, Jaipur	-

34	SHUBHAM DESAI	12E1BKCSM45P102	M.Tech (ISEP, Paris)	-
35	SHUBHAM MITTAL	12E1BKCSM4XP103	Ecom Express	2016/21052016/3
36	SHWETA	12E1BKCSF4XP104	CyberCure Technologies	2016/190216/3
37	SURABHI SHEKHAWAT	12E1BKCSF45P108	Cybage	2016/14092015
38	SWETA CHOUDHARY	12E1BKCSF3XP110	CyberCure Technologies, Systools	2016/190216/4
39	VAISHALI	12E1BKCSF4XP113	Cybage	2016/14092015
40	VIVEK GAGRANI	12E1BKCSM4XP124	CommScope, Bengaluru	-
41	YOGESH KUMAR JANGIR	12E1BKCSM3XP126	Optum Global Solutions, Gurgaon	-
42	VIKRAM VASHISTH	12E1BKCSM45P301	CyberCure Technologies, Webkul Software Pvt Ltd	2016/190216/5
43	SHRISHTIKA	12E1BKCSF4XP302	Cybage	2016/14092015
44	SIDDHI GUPTA	12E1BKCSF45P303	Cybage	2016/14092015
45	GOVIND BAGARIA	12E1BKCSM45P304	ARTIVATIC. AI	-
46	SHUBHAM JAIN	12E1BKCSM45P305	M.Tech	-
47	SHASHI KANT SONI	13E1BKCSMXXP313	QA Infotech, Noida	4117
48	SONIKA GARSHA	13E1BKCSFXXP314	Sterling Infotech, Jaipur	-
49	NISIT KASWAN	12E1BKCSM4XP063	Instaveritas India Private Limited, New Delhi	-
50	KARAN SINGH	13E1BKCSMXXP307	Innthink Technologies Pvt Ltd, Noida	-
51	MANOJ KUMAR SAINI	12E1BKCSM3XP050	Elite Wealth Advisors Ltd, New Delhi	-
52	VIKAS MAAN	12E1BKCSM3XP115	MS, France	-
53	SIDDHARTH CHITTORA	12E1BKCSM4XP106	M.Tech California State University, California	-
54	BHARAT WADHWANI	12E1BKCSM4XP021	Start-Up Adikshya Diamonds, Udaipur	-
55	VISHWA PRAKASH	12E1BKCSM45P123	Think & Learn Pvt Ltd (BYJU's), Delhi	-
56	AJITA BHADOURIA	12E1BKCSF4XP006	Aapc, Noida	-
57	ANIL SWAMI	12E1BKCSM3XP016	Netxs Solutions Pvt. Ltd., Ahmedabad	-
58	CHANDRA RAM JAT	12E1BKCSM3XP022	De facto Infotech Pvt. Ltd., Chandigarh	-
59	RASHI POKHARNA	12E1BKCSF4XP087	Cognizant Technology Solutions, Chennai	-
60	VINAY SHARMA	12E1BKCSM4XP119	Bitbyte Digital Solutions Pvt. Ltd., Gurgaon	-
61	VISHAKHA SINGH	12E1BKCSF4XP121	M.S. Student (Department of Electrical and Computer Engineering) Thammasat University, Bangkok, Thailand	-
62	ANADI SHANKAR	12E1BKCSM45P014	Merino Services, Delhi	-
63	ANURAG GUPTA	12E1BKCSM4XP017	CGI, Hyderabad	-
64	DEEPIKA SAINI	12E1BKCSF3XP026	BTTI	-
65	HIMANSHU CHIHAR	12E1BKCSM4XP031	India Interactive, Agra	-
66	MANU CHANDAK	12E1BKCSM4XP051	Culture Valley, Jaipur	-
67	PRAKHAR AGARWAL	12E1BKCSM45P073	Deloitte, Hyderabad	-
68	PUNIT KUMAR	12E1BKCSM35P081	ANVAYA Analytics Lab Pvt Ltd, Bengaluru	-

69	RAJIV PRIYADARSHI	12E1BKCSM4XP085	OYO, Gurgaon	-
70	SANDIP BHATOLIA	12E1BKCSM35P096	Wishbook Infoservices, Bengaluru	-
71	SURBHI MITTAL	12E1BKCSF4XP109	Ecom Express Pvt. Ltd, New Delhi	-
72	VINOD BENIWAL	12E1BKCSM3XP120	Mpower Softcomm Pvt. Ltd, Gurgaon.	-
73	YOGESH KUMAR	12E1BKCSM3XP125	Reliance Retail, Jaipur	-
74	GOURAV JANGIR	13E1BKCSMXXP303	Université de Haute-Alsace, France	-
75	MAHESH KUMAR	12E1BKCSM3XP046	Alinetech Pvt Ltd	-
76	MANOJ KUMAR	12E1BKCSM1XP049	Elite Wealth Advisors Ltd.	-
77	POOJA SAINI	12E1BKCSF35P068	VentureHeap	-
78	AMIT SAINI	12E1BKCSM3XP012	M.Tech, Poomima University	-
79	ASHUTOSH VERMA	12E1BKCSM3XP020	Textbook.com, Mumbai	-
80	DEVEN SHARMA	12E1BKCSM4XP028	CIL Jaipur, Now Preparing for Govt Job	-
81	MONIKA	12E1BKCSF3XP055	SBI, Chirawa	Emp ID: 7882742
82	SANDEEP MAHARSHI	12E1BKCSM4XP095	ICICI Bank	-
83	SIDDHARATH SHARMA	12E1BKCSM4XP105	RedTechno Services	-
84	TRITIKSHA PATIDAR	12E1BKCSF3XP112	Zomato	-
85	ANUP VERMA	13E1BKCSMXXP300	Tech Mahindra, Noida	Emp id: 559843
86	NIDHI DAIYA	12E1BKCSF1XP059	M.Tech (SKIT, Jaipur)	-
87	NIDHI SRIVASTAVA	12E1BKCSF45P060	M.Tech (NIIT Raurkela)	-
88	SHAHNAZ KHAN	12E1BKCSF4XP098	M.Tech from RTU	-
89	SHARMA HIMANSHU JAGDISH	12E1BKCSM4XP099	M.Tech,SVNIT Surat	-
90	DARSHANA DUTT TIWARI	13E1BKCSFXXP301	M.Tech from BTU	-
91	ISHAN NARUKA	12E1BKCSM4XP032	Business in Digital Marketing, Jaipur	-
92	RAHUL VERMA	12E1BKCSM3XP083	Self Employed	-

**4.6 Professional Activities (20)**

Total Marks 20.00

**4.6.1 Professional societies/ chapters and organizing engineering events (5)**

Institute Marks : 5.00

**Professional Societies / Chapters to organize Engineering Events:**

S. No.	Professional Society	In-charge	Membership Type
1	IEEE	Dr. L. Solanki, Principal(Academic)	Student Chapter
2	IETE	Dr. Krishna Meel	Student Chapter
3	ACM	Mr. Manoj Kataria	Student Chapter
4	IEI	Mr. Himanshu Verma	IEI Local Centre
5	ASME	Mr. Himanshu Gupta	Student Chapter

6	CSI	Mr. Gauttam Jangir	Student Chapter
7	IFERP	Dr. H. Rahaman	Student Chapter
8	Sports	Mr. Boolchand Kataria	Internal Committee
9	Cultural	Mr. Ankit Sharma & Mrs. Monika Jangir	Internal Committee
10	Nirmaan	Mr. Anant Jangir—Student	NGO
11	T-PEC	Mr. D. C. Sharma, HOD(ME) Mr. Himanshu Gupta	Student Chapter

**Events, Programs and Seminars (2017-18-19):**

S.No.	Events	Remarks	Date	Faculty coordinators
1)	<b>One Day Workshop</b>	Hare Krishna Mission	17 <sup>th</sup> Jan.2017	Mr. Rahul Runthala
2)	<b>Health Ambassador Research Camp</b>	Under India Health line	21 <sup>st</sup> Jan 2017	Mr. Rahul Runthala
3)	<b>Voter Awareness Day</b>	Under NSS	25 <sup>th</sup> Jan 2017	Mr. Rahul Runthala
4)	<b>Republic Day</b>	Under NSS	26 <sup>th</sup> Jan 2017	Mr. Rahul Runthala
5)	<b>ORDINADO-17</b>	4 Day Technical fest	14 <sup>th</sup> -17 <sup>th</sup> Feb 2017	Mr.Manoj Kataria
6)	<b>One Day Talk- under IEI</b>	Thin –wall Machining in Aviation Industries	15 <sup>th</sup> Feb.2017	Dr.Smita Pareek
7)	<b>One Day Workshop</b>	How to Crack Group Discussion and Job Interview	17 <sup>th</sup> Feb.2017	Placement cell
8)	<b>20 Medals won BKBIET</b>	MST-2017 Fest ,MNIT Jaipur	25 <sup>th</sup> Feb 2017	Mr.Ankit sharma



9)	<b>Short Term online course(one week)</b>	Embedded World under NITTR Chandigarh.	21 <sup>st</sup> march 2017	Dr.Nimish kr. And Himanshu verma
10)	<b>World Water Day</b>	Under IEI	23 <sup>rd</sup> march 2017	Dr.Smita Pareek
11)	<b>Two Days workshop</b>	Internet of things under IEI	25 <sup>th</sup> march 2017	Dr.Smita Pareek
12)	<b>One Day camp</b>	Intellectual Property Rights Under DST - IPR	27 <sup>th</sup> March 2017	Dr.Hasibur Rahman, Dr. Kulwant Singh
13)	<b>Sarla Ji Birla Punaytithi Program</b>	-	28 <sup>th</sup> march 2017	Monika Jangir, Garima Rungta
14)	<b>BASANT-2017</b>	Cultural five day fest	8 <sup>th</sup> -12 <sup>th</sup> April 2017	Dr. L. Solanki
15)	<b>10 Students got Placement</b>	Mind lance technology ,Bangalore	19 <sup>th</sup> April 2017	Placement cell
16)	<b>Farewell Party -2017</b>	-	9 <sup>th</sup> May 2017	Monika Jangir, Garima Rungta and Ankit sharma
17)	<b>Independence Day</b>	Invited- Omvir family member(Hameenpur )	15 <sup>th</sup> Aug 2017	Mr. Rahul Runthala
18)	<b>One day seminar</b>	Under IEI- Renewable Energy technology	20 <sup>th</sup> August 2017	Dr.Smita Pareek
19)	<b>One Day seminar</b>	Regarding Higher Study in France	26 <sup>th</sup> august 2017	Dr. Sonam Mittal
20)	<b>Fresh co -2017</b>	Fresher Party	30 <sup>th</sup> Aug. 2017	Mr.Ankit sharma

21)	<b>Ramcharit Manas Prvachan</b>	Swami Rajeswaranand Ji Sarswati	7 <sup>th</sup> Sept. 2017	Mr.Abhishek Kumar
22)	<b>Three days Workshop</b>	Under ACM -Python	8 <sup>th</sup> sept. 2017	Mr.Ramakant Soni
23)	<b>One Day seminar</b>	Role of Engineers	12 <sup>th</sup> Sept. 2017	Mr.Himanshu Verma
24)	<b>Two Days workshop</b>	On drone	14 <sup>th</sup> sept. 2017	Dr. Hasheeb Rahmaan
25)	<b>Engg. Day Celebration</b>	Under IEI and IETE	16 <sup>th</sup> Sept. 2017	Dr.Smita Pareek and Dr. Krishna Meel
26)	<b>Health Awareness Program</b>	Under NSS	19 <sup>th</sup> Sept. 2017	Mr. Rahul Runthala
27)	<b>The VIBES</b>	4 days programs	18 <sup>th</sup> -21 <sup>th</sup> Sept. 2017	Dr. L. Solanki
28)	<b>One Day seminar</b>	Under IEI-Mathematics Modeling	26 <sup>th</sup> Sept 2017	Dr.Smita Pareek
29)	<b>Adarsh Syut Rasth</b>		27 <sup>th</sup> Sept. 2017	Dr. L. Solanki
30)	<b>ICCS-2017</b>	3 Days International Conference on Comm. System	14 <sup>th</sup> -16 <sup>th</sup> Oct 2017	Dr.Manoj Pandey and Mr.Satish Rai
31)	<b>One Day seminar</b>	Renewable Energy Technology	12 <sup>th</sup> Oct.2017	Dr.Smita Pareek

32)	<b>One Day seminar</b>	Total Productivity Management	23 <sup>rd</sup> Oct 2017	Dr.Smita Pareek
33)	<b>QUASAR-17</b>	4 Days Sports Programs	31 <sup>th</sup> -3 <sup>rd</sup> Nov 2017	Dr. L. Solanki
34)	<b>One Day Workshop</b>	Personality Development and Communication Skill	24 <sup>th</sup> Nov 2017	Dr.Smita Pareek
35)	<b>French Meeting</b>	Under-BIRD(N+i)	4 <sup>th</sup> Dec 2017	Dr. Sonam Mittal
36)	<b>One Day seminar</b>	Polygate Development Technology	5 <sup>th</sup> Dec 2017	Dr.Smita Pareek
37)	<b>One Day Workshop –On Woman Right</b>	Under- IETE Student Forum	22 <sup>nd</sup> Dec 2017	Dr.Krishna Meel
38)	<b>97 Birthday Celebration (BK Birla)</b>	Under NSS-Blood Donation Champ	12 <sup>th</sup> Jan 2018	Mr.Vishnu Jindal
39)	<b>Republic Day</b>	Under NSS	26 <sup>th</sup> Jan 2018	Mr.Vishnu Jindal
40)	<b>ORDINADO-18</b>	4 Day Technical fest	31 <sup>st</sup> Jan- 3 <sup>rd</sup> Feb 2018	Mr.Manoj Kataria
41)	<b>IETE Students Day</b>	Under IETE Student Forum	2 <sup>nd</sup> Feb 2018	Dr.Krishna Meel
42)	<b>Joy of Giving Week</b>	Under-Nirman	17 <sup>th</sup> Feb. 2018	Nirman
43)	<b>One Day Champ</b>	Under- DST on Bodhik Sampada Adhikar	16 <sup>th</sup> Feb 2018	Prof.S.B.Dandin
44)	<b>Vigyan Divas</b>	Under - DST	28 <sup>th</sup> Feb 2018	Prof.S.B.Dandin

45)	<b>5 Students in Merit (RTU)</b>	3 B.Tech and 2 M.Tech students	12 <sup>th</sup> March 2018	---
46)	<b>World water day</b>	Under IEI	22 <sup>nd</sup> March 2018	Dr.Smita Pareek
47)	<b>Bhajan Sandhaya</b>	on the Punaytithi of Dr.Sarla Birla Ji	29 <sup>th</sup> March 2018	Mr.Abhishek
48)	<b>BASANT-2018</b>	3 days cultural fest	29 <sup>th</sup> March 2018	Monika Jangir,Ankit Sharma, Garima Rungta
49)	<b>Candle march</b>	Justice for Asifa	16 <sup>th</sup> April 2018	Dr. L.K. Solanki
49)	<b>Farewell Party</b>	-	30 <sup>th</sup> April 2018	Mrs. Monika Jangir, Mr.Ankit Sharma
50)	<b>Kesoram Industries Selected 4 Student with 11 lac Package</b>	Under Placement cell	20 <sup>th</sup> May 2018	Placement cell
51)	<b>World Environment Day</b>	Under IEI- Dr.Sunil Dubey BITS	5 <sup>th</sup> June 2018	Dr.Smita Pareek
52)	<b>Farewell Party to Dr.P.S.Bhatnagar</b>	-	25 <sup>th</sup> June 2018	-
53)	<b>One day Talk</b>	On Cyber Security and Application development and new technology	4 <sup>th</sup> Aug 2018	Dr.Nimish Kumar
54)	<b>One day workshop</b>	TITS Bhiwani Prof.M.K.Nanda	23 <sup>rd</sup> July 2018	Dr. L. Solanki
55)	<b>Independence Day</b>	Invited- Subedar pabudan singh wife sushila devi, chapara	15 <sup>th</sup> Aug 2018	Mr. Rahul Runthala
56)	<b>Dhyanchand competition</b>	On the occasion of dhyanchand birthday under NSS	31 <sup>st</sup> Aug 2018	Mr. Rahul Runthala

57)	<b>Janmasthmi</b>	Janmasthmi celebrated (Sharma mujical mandali)	4 <sup>th</sup> Sep 2018	Students
58)	<b>Faculty Development program</b>	Chief Guest – Pro.C.K.Jaggi and Maj Gen Anirudh Banerjee	7 <sup>th</sup> Sep 2018	Dr. A.K.Malik
59)	<b>One Day Seminar</b>	On Machine Language and Internet of things	11 <sup>th</sup> sep 2018	Dr.Nimish Kumar
60)	<b>Shaksarta Abhiyaan</b>	In Khelada Sen. Sec. School under NSS	13 <sup>th</sup> sep 2018	Mr. Rahul Runthala
61)	<b>Engg. Day Celebration</b>	Chief Guest – Dr.A.K.Sarkar and Maj Gen Anirudh Banerjee Under IEI	15 <sup>th</sup> Sept. 2018	Dr.Smita Pareek
62)	<b>7 Day workshop</b>	On Embedded System	18 <sup>th</sup> sep 2018	Dr.Nimish Kumar
63)	<b>Gate Orientation Program</b>	Under RU- Dr.Prakash Tiwari,IIT Jodhpur	20 <sup>th</sup> sep 2018	-
64)	<b>2 days workshop</b>	Under robokart Mumbai- Deepak kumar	19 <sup>th</sup> sep 2018	-
65)	<b>NSS Isthapana divas</b>	Chief Guest- Pawan singh shekhawat	27 <sup>TH</sup> SEP 2018	NSS
66)	<b>Fresher Party</b>	-	1 <sup>st</sup> Oct 2018	Mrs. Monika Jangir, Mr.Ankit Sharma
67)	<b>One day workshop</b>	On MLCD study Jam series	1 <sup>st</sup> Oct 2018	Dr.Nimish Kumar
68)	<b>Madhur , Muskaan and Jyoti</b>	Presented project- In Silicon Valley, America	13 <sup>th</sup> Oct 2018	Mr. Keshav Khandelwal
69)	<b>AGM –IEI Excecutive members Selection committee program</b>	Under IEI Local centre	15 <sup>th</sup> Oct 2018	Mr. Himanshu verma
70)	<b>One day workshop on Stress and Mental disorder</b>	Under ACM and CSI	16 <sup>th</sup> Oct 2018	Dr.Nimish Kumar
71)	<b>QUASAR-18</b>	4 Days Sports Programs	24 <sup>th</sup> -27 <sup>th</sup> Oct 2018	Mr. Reetesh Gautam and Mr. Boolchand Kataria

72)	<b>One day talk</b>	Under IETE Student Forum - On portable THz Technology and it's Industrial Application	25 <sup>th</sup> Oct 2018	Dr. Krishna Meel
73)	<b>Parvachan</b>	Ram charitra Manas	11 <sup>th</sup> -13 <sup>th</sup> Nov 2018	-
74)	<b>Blood Donation Camp and Sunder kand</b>	98 <sup>th</sup> Birthday celebration of BK Birla	13 <sup>th</sup> Jan-2019	NSS
75)	<b>One day talk</b>	On Artificial Intelegence By Dr. Surekha Banot BITS Pilani	16 <sup>th</sup> Jan 2019	Dr.Smita Pareek
76)	<b>One day talk</b>	Industrial talk on VLSI by Lakashya Somani	17 <sup>th</sup> Jan 2019	Santosh Jangir
77)	<b>Technical Presentation Innaugration</b>	-	20 <sup>th</sup> Jan 2019	-
78)	<b>Recommendation System</b>	One day talk by Dr. Nupur Mittal	23 <sup>rd</sup> Jan 2019	Dr. Nimish Kumar
79)	<b>One day talk</b>	On antenna Design by prof. Navneet Gupta BITS Pilani	24 <sup>th</sup> Jan 2019	Santosh Jangir
80)	<b>One day talk</b>	On Radiation and Public health by dr. Praveen Kumar BITS Pilani	30 <sup>th</sup> Jan 2019	Dr.Smita Pareek
81)	<b>Two day workshop</b>	<b>Cyber disease and Ethical Hacking by Software Engg. Nitesh Bhatia</b>	31 <sup>st</sup> Jan 2019	Dr. Nimish Kumar
82)	<b>One day seminar</b>	<b>Big data and Dockers technology by Robin raj</b>	1 <sup>st</sup> Feb 2019	Dr. Nimish Kumar
83)	<b>Science Model Competition</b>		4 <sup>th</sup> Feb 2019	Dr. Krishna Meel and santosh jangir
84)	<b>One day workshop</b>	<b>Machine learning byDr. Yashvardhan Sharma BITS Pilani</b>	6 <sup>th</sup> Feb 2019	Santosh Jangir
85)	<b>One day workshop</b>	<b>Dockers and Python by Vimal Dagga</b>	8 <sup>th</sup> Feb 2019	Dr. Nimish Kumar
86)	<b>One day Expert talk</b>	<b>On deep learning by Kamlesh Tiwari BITS Pilani</b>	14 <sup>th</sup> Feb 2019	Dr. Nimish Kumar
87)	<b>Two Day workshop</b>	<b>On Industrial Automation and control byDr. V.K. Dubey BITS Pilani</b>	25 <sup>th</sup> Feb 2019	Dr.Smita Pareek

88)	<b>International Women Day</b>	<b>Under IEI</b>	10 <sup>th</sup> March 2019	Dr. Nimish Kumar
89)	<b>One day Workshop</b>	<b>High Power Electron Devices for Microwave Applications</b>	16 <sup>th</sup> March 2019	Dr. Nimish Kumar
90)	<b>7 day Camp</b>	<b>Under NSS</b>	19 <sup>th</sup> March 2019	NSS
91)	<b>Sarla birla memorial day celebration</b>	-	29 <sup>th</sup> March 2019	Ankit Sharma and Monika Jangir
92)	<b>One day Seminar</b>	<b>On VLSI by true chip Noida Marketing Manager Ranveer singh</b>	1 <sup>st</sup> April 2019	Santosh Jangir
93)	<b>BASANT 2019</b>	<b>Cultural Fest</b>	1 <sup>st</sup> – 3 <sup>rd</sup> April 2019	Dr. L.Solanki
94)	<b>Mobile App Launch - THE GURU JI</b>	<b>Rajesh rohilla</b>	15 <sup>th</sup> April 2019	Jan Kalyan Sanstha
95)	<b>Farewell Party 2019</b>	-	27 <sup>th</sup> April 2019	Ankit Sharma and Monika Jangir
96)	<b>One day Seminar</b>	<b>Data Science and Deep Learning with Python</b>	30 <sup>th</sup> April 2019	Dr. Nimish Kumar

#### 4.6.2 Publication of technical magazines, newsletters, etc. (5)

Institute Marks : 5.00

##### Publication of Technical Magazines, Newsletters:

2016

S.No	Year	Editor	Publications
1	2016	Placement Cell	Placement Brochure (Newsletter)

2017

S.No	Year	Editor	Publications
1	2017	Dr L Solanki	IEEE Newsletter
2	2017	Dr Manoj Pandey	Conference Souvenir (Technical Magazine)
3	2017	Placement Cell	Placement Brochure (Newsletter)
4	2017	Mr Vikas Kumar	IEI Newsletter

2018

S.No	Year	Editor	Publications
1	2018	Dr L Solanki	IEEE Newsletter
2	2018	Dr Nimish Kumar	CS Department Newsletter
3	2018	Dr Smita Pareek	Abhiyanta Bandhu (Technical Magazine)
4	2018	Placement Cell	Placement Brochure (Newsletter)
5	2018	Mr Manoj Kataria	ACM Newsletter
6	2018	Mr Vikas Kumar	IEI Newsletter

2019

S.No	Year	Editor	Publications
1	2019	Dr Nimish Kumar	CS Department Newsletter
2	2019	Dr Manoj Pandey	Conference Souvenir (Technical Magazine)
3	2019	Placement Cell	Placement Brochure (Newsletter)
4	2019	Mr Vikas Kumar	IEI Newsletter

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#### 4.6.3 Participation in inter-institute events by students of the program of study (10)

Institute Marks : 10.00

List of awards received in the events/conferences organized by other institutes:

Participation list 2018-19			
S. No.	Name of Student	Name of Event / Organizer	Participated / Awarded
1	Rahul Chandola	Bodybuilding, BOSM(Bits Sports Fest, Pilani)	I



2	Saurav	Powerlifting, BOSM(Bits Sports Fest, Pilani)	I
3	Tilak	Powerlifting, BOSM(Bits Sports Fest, Pilani)	II
4	Bittu	Powerlifting, BOSM(Bits Sports Fest, Pilani)	II
5	Himanshu	Powerlifting, BOSM(Bits Sports Fest, Pilani)	II
6	Nishant	Powerlifting, BOSM(Bits Sports Fest, Pilani)	II
7	Ayub	Powerlifting, BOSM(Bits Sports Fest, Pilani)	II
8	Himanshu Sharma	Athletics , BOSM(Bits Sports Fest, Pilani)	III
9	Jai Negi	Athletics , BOSM(Bits Sports Fest, Pilani)	III
10	Balveer Singh	Athletics , BOSM(Bits Sports Fest, Pilani)	III

Participation list 2017-18			
S. No.	Name of Student	Name of Event / Organizer	Participated / Awarded
1	Lokesh	Powerlifting, BOSM(Bits Sports Fest, Pilani)	I
2	Rahul Chandola	Powerlifting, BOSM(Bits Sports Fest, Pilani)	I
3	Sumit	Powerlifting, BOSM(Bits Sports Fest, Pilani)	II
4	Md. Azaz	Powerlifting, BOSM(Bits Sports Fest, Pilani)	II
5	Ayush Sharma	Powerlifting, BOSM(Bits Sports Fest, Pilani)	II
6	Anurag Sharma	Powerlifting, BOSM(Bits Sports Fest, Pilani)	II
7	Abhishek	Powerlifting, BOSM(Bits Sports Fest, Pilani)	III
8	Ayub	Powerlifting, BOSM(Bits Sports Fest, Pilani)	III
9	Tilak	Athletics , BOSM(Bits Sports Fest, Pilani)	I
10	Ankit Bhatia	Athletics , BOSM(Bits Sports Fest, Pilani)	II
11	Rahul	Athletics , BOSM(Bits Sports Fest, Pilani)	I
12	Tilak	Athletics , BOSM(Bits Sports Fest, Pilani)	I
13	Sumit	Athletics , BOSM(Bits Sports Fest, Pilani)	I

14	Kapil	Athletics , BOSM(Bits Sports Fest, Pilani)	I
15	Donika	Athletics , BOSM(Bits Sports Fest, Pilani)	III
16	Sonam	Athletic, , BOSM(Bits Sports Fest, Pilani)	III
17	Vishakha	Athletics,, BOSM(Bits Sports Fest, Pilani)	III
18	Sparsh	Athletics , BOSM(Bits Sports Fest, Pilani)	III
19	Abhishek Khulhar	Athletics , BOSM(Bits Sports Fest, Pilani)	III
20	Rohit Saini	Athletics , BOSM(Bits Sports Fest, Pilani)	III
21	Harsh	Athletics , BOSM(Bits Sports Fest, Pilani)	III
22	Rahul Sharma	Cricket , BOSM(Bits Sports Fest, Pilani)	I
23	Saurav Devna	Athletics , BOSM(Bits Sports Fest, Pilani)	I
24	Saurav Devna	Athletics , BOSM(Bits Sports Fest, Pilani)	II
25	Manish Jangir	India- Nepal Cup – Shot Put	I
26	Jyoti	Rajasthan Student Startup Program	Participation
27	Madhur Boran	Rajasthan Student Startup Program	Participation
28	Muskan Boran	Rajasthan Student Startup Program	Participation

Participation list 2016-17			
S. No.	Name of Student	Name of Event / Organizer	Participated / Awarded
1	Pushpendra Singh	Appogee (BITS, Pilani)	II
2	Pushpendra Singh	Appogee (BITS, Pilani)	III
3	Kuldeep Singh	Appogee (BITS, Pilani)	II
4	Kuldeep Singh	Appogee (BITS, Pilani)	III
5	Sumit Sharma	Powerlifting, BOSM(Bits Sports Fest, Pilani)	I
6	Md Azaz	Powerlifting, BOSM(Bits Sports Fest, Pilani)	I
7	Abhinav Singh	Powerlifting, BOSM(Bits Sports Fest, Pilani)	I
8	Lokesh	Powerlifting, BOSM(Bits Sports Fest, Pilani)	II
9	Devendra Rawat	Powerlifting, BOSM(Bits Sports Fest, Pilani)	II
10	Donika Yadav	Athletics , BOSM(Bits Sports Fest, Pilani)	II
11	Ankit Bhatia	Athletics, BOSM(Bits Sports Fest, Pilani)	I
12	Ankit Bhatia	Athletics , BOSM(Bits Sports Fest, Pilani)	II
13	Ankit Bhatia	Athletics , BOSM(Bits Sports Fest, Pilani)	II

14	Yash	Athletics , BOSM(Bits Sports Fest, Pilani)	III
15	Rahul	Athletics , BOSM(Bits Sports Fest, Pilani)	III
16	Naresh	Athletics , BOSM(Bits Sports Fest, Pilani)	III
17	Tilak	Athletics , BOSM(Bits Sports Fest, Pilani)	III
18	Tilak	Athletics , BOSM(Bits Sports Fest, Pilani)	II
19	Pritam	Athletics , BOSM(Bits Sports Fest, Pilani)	III
20	Saurav Devna	Athletics , BOSM(Bits Sports Fest, Pilani)	I
21	Rahul Chandola	Weightlifting, MNIT Sports Fest, Jaipur	III
22	Sumit	Weightlifting, MNIT Sports Fest, Jaipur	I
23	Ayush Sharma	Weightlifting, MNIT Sports Fest, Jaipur	II
24	Md. Azaz	Weightlifting, MNIT Sports Fest, Jaipur	I
25	Abhinav Singh	Weightlifting, MNIT Sports Fest, Jaipur	I
26	Rahul Chandola	Powerlifting, MNIT Sports Fest, Jaipur	II
27	Ayush Sharma	Powerlifting, MNIT Sports Fest, Jaipur	II
28	Md. Azaz	Powerlifting, MNIT Sports Fest, Jaipur	I
29	Chetan Badetia	Powerlifting, MNIT Sports Fest, Jaipur	III
30	Rahul Chandola	Bodybuilding, MNIT Sports Fest, Jaipur	I
31	Sumit Sharma	Bodybuilding, MNIT Sports Fest, Jaipur	I
32	Ayush Sharma	Bodybuilding, MNIT Sports Fest, Jaipur	I
33	Yash Sharma	Bodybuilding, MNIT Sports Fest, Jaipur	I
34	Md. Azaz	Bodybuilding, MNIT Sports Fest, Jaipur	I
35	Chetan Badetia	Bodybuilding, MNIT Sports Fest, Jaipur	II
36	Harsh	Bodybuilding, MNIT Sports Fest, Jaipur	II
37	Ayub	Bodybuilding, MNIT Sports Fest, Jaipur	III
38	Abhinav Singh	Bodybuilding, MNIT Sports Fest, Jaipur	II

## 5 FACULTY INFORMATION AND CONTRIBUTIONS (200)

Total Marks 168.99

Institute Marks :

Name	PAN No.	University Degree	Date of Receiving Degree	Area of Specialization	Research Paper Publications	Ph.D Guidance	Faculty receiving Ph.D during the assessment year	Current Designation	Date (Designated as Prof/Assoc. Prof.).	Initial Date of Joining	Association Type	At present working with the Institution(Yes/No)	In case of NO, Date of Leaving	IS HOD?
SHRIDHAR B. DANDIN	AASPD4477G	M.E/M.Tech	16/07/2004	SOFTWARE SYSTEMS	3	0	0	Associate Professor	01/07/2010	02/07/2007	Regular	Yes		No

NIMISH KUMAR	ADBPC8622N	ME/M. Tech and PhD	14/10/2016	ARTIFICIAL INTELLIGENCE & SOFTWARE ENGINEERING	6	0	0	Associate Professor	01/04/2017	01/04/2011	Regular	Yes		Yes
MANOJ PANDEY	AVTPP0903F	ME/M. Tech and PhD	07/04/2017	FPGA's Reconfigurable Computing Systems	2	0	0	Associate Professor	01/07/2017	06/09/2010	Regular	Yes		No
MANOJ KATARIA	AJGPK2681N	M.E/M.Tech	27/05/2011	COMPUTER SCIENCE	0	0	0	Assistant Professor		01/08/2014	Regular	Yes		No
HIMANSHU VERMA	AEUPV7088R	M.E/M.Tech	11/02/2012	EMBEDDED SYSTEM	0	0	0	Assistant Professor		10/08/2009	Regular	Yes		No
GAUTTAM JANGIR	APVPJ6424M	M.E/M.Tech	27/03/2017	BRAIN-COMPUTER INTERFACE	3	0	0	Assistant Professor		10/08/2009	Regular	Yes		No
PRADEEP SINGH SHEKHAWAT	AJUPS5183R	M.E/M.Tech	05/10/2015	MULTIMEDIA AND DATA MANAGEMENT	1	0	0	Assistant Professor		02/08/2010	Regular	Yes		No
RAMAKANT SONI	BYRPS2042G	M.E/M.Tech	05/10/2015	MULTIMEDIA AND DATA MANAGEMENT	3	0	0	Assistant Professor		02/08/2010	Regular	Yes		No
REENA SAINI	DAJPS8595C	M.E/M.Tech	26/03/2009	SOFTWARE ENGINEERING	0	0	0	Assistant Professor		10/08/2009	Regular	Yes		No
JITENDER KUMAR	BRIPK8588H	M.E/M.Tech	18/04/2011	SOFTWARE ENGINEERING	0	0	0	Assistant Professor		02/03/2010	Regular	Yes		No
GOPAL KRISHAN PRAJAPAT	AOUPP4426M	M.E/M.Tech	05/12/2017	IMAGE PROCESSING	0	0	0	Assistant Professor		02/08/2010	Regular	Yes		No
GARIMA RUNGTA	BIAPR5303N	M.E/M.Tech	05/10/2015	EMBEDDED SYSTEMS	0	0	0	Assistant Professor		01/08/2012	Contractual	No	19/04/2018	No
VIPIN SARAOGI	AIDPS4412K	M.E/M.Tech	25/08/2011	SOFTWARE SYSTEMS	0	0	0	Assistant Professor		16/01/2012	Regular	Yes		No
RUCHI SHARMA	BSRPS4197Q	M.E/M.Tech	27/06/2009	SOFTWARE SYSTEMS	0	0	0	Assistant Professor		01/03/2012	Regular	Yes		No
SANJEEV SULTANIA	BSRPS5216G	M.E/M.Tech	25/08/2008	SOFTWARE SYSTEMS	0	0	0	Assistant Professor		01/07/2013	Regular	Yes		No
DHANESH KUMAR MATOLIA	AHQPM0475J	M.E/M.Tech	28/02/2008	COMPUTER SCIENCE	0	0	0	Assistant Professor		01/02/2012	Regular	Yes		No
ANIL KUMAR DATIKA	DOLPK3349A	M.E/M.Tech	15/09/2018	Computer Science Engineering	2	0	0	Assistant Professor		10/08/2007	Regular	Yes		No
RADHA MADHAB JHA	AGOPJ4262H	M.A and Ph.D	12/04/2008	ENGLISH LITERATURE	2	2	1	Associate Professor	01/04/2015	01/03/2013	Regular	Yes		No
BHUPENDRA KUMAR JANGIR	AKSPJ4877E	M.E/M.Tech	10/10/2016	EMBEDDED SYSTEMS	3	0	0	Assistant Professor		01/07/2013	Regular	No		No
REETESH GAUTAM	AMSPG5768M	M.E/M.Tech	10/10/2016	MULTIMEDIA AND DATA MANAGEMENT	0	0	0	Assistant Professor		01/11/2016	Regular	Yes		No

SANJAY KUMAR SAINI	DUAPS4467J	M.E/M.Tech	10/10/2016	EMBEDDED SYSTEM	0	0	0	Assistant Professor		01/03/2012	Regular	Yes		No
HARSH SHARMA	CYFPS8848M	M.E/M.Tech	03/09/2010	COMPILER DESIGN	0	0	0	Assistant Professor		01/07/2014	Contractual	No	22/06/2017	No
PRAVEEN KUMAR SHARMA	CQEPS5450C	M.E/M.Tech	23/07/2015	ANTENNA AND MICROWAVE	2	0	0	Assistant Professor		01/08/2007	Regular	Yes		No
AJENDER MALIK	BAKPK1397M	ME/M. Tech and PhD	02/02/2011	OPERATIONS RESEARCH	12	4	2	Associate Professor	01/07/2013	02/07/2007	Regular	Yes		No
RAKESH SAINI	CEKPS6420Q	M.E/M.Tech	17/05/2008	SOFTWARE ENGINEERING	2	0	0	Assistant Professor		01/09/2008	Regular	Yes		No
SONAM MITTAL	BQIPM9390L	M.Sc. and PhD	17/09/2016	ARTIFICIAL INTELLIGENCE & SOFTWARE ENGINEERING	4	0	0	Associate Professor	01/07/2017	02/08/2010	Regular	Yes		No
MONIKA JANGIR	CTRPM6057P	M.E/M.Tech	02/04/2014		0	0	0	Assistant Professor		02/06/2014	Regular	Yes		No
SHASHIKANT SHARMA	CQQPS6147G	M.E/M.Tech	26/04/2018	DIGITAL IMAGE PROCESSING AND SIGNAL PROCESSING	4	0	0	Assistant Professor		10/08/2009	Regular	Yes		No
VIKRAM SHARMA	CMCPS1526H	M.E/M.Tech	05/10/2015	MULTIMEDIA AND DATA MANAGEMENT	0	0	0	Assistant Professor		18/02/2011	Contractual	Yes		No

## 5.1 Student-Faculty Ratio (20)

Total Marks 16.00

Institute Marks : 16.00

## UG

No. of UG Programs in the Department 

Engineering & Technology						
Year of Study	CAY		CAYm1		CAYm2	
	(2018-19)		(2017-18)		(2016-17)	
	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students
2nd Year	120	0	120	4	120	6
3rd Year	120	4	120	6	120	13
4th Year	120	6	120	13	120	14
<b>Sub-Total</b>	<b>360</b>	<b>10</b>	<b>360</b>	<b>23</b>	<b>360</b>	<b>33</b>
<b>Total</b>	<b>370</b>		<b>383</b>		<b>393</b>	
Grand Total	<input type="text" value="370"/>		<input type="text" value="383"/>		<input type="text" value="393"/>	

## PG

No. of PG Programs in the Department 0

Master of Computer Applications (MCA)			
Year of Study	CAY(2018-19)	CAYm1(2017-18)	CAYm2 (2016-17)
	Sanction Intake	Sanction Intake	Sanction Intake
1st Year	0	0	60
2nd Year	0	60	60
<b>Total</b>	<b>0</b>	<b>60</b>	<b>120</b>
Grand Total	0	60	120

## SFR

No. of UG Programs in the Department 1

No. of PG Programs in the Department 0

Description	CAY(2018-19)	CAYm1 (2017-18)	CAYm2 (2016-17)
Total No. of Students in the Department(S)	370 Sum total of all (UG+PG) students	383 Sum total of all (UG+PG) students	393 Sum total of all (UG+PG) students
No. of Faculty in the Department(F)	23 F1	21 F2	20 F3
Student Faculty Ratio(SFR)	16.09 SFR1=S1/F1	18.24 SFR2=S2/F2	19.65 SFR3=S3/F3
Average SFR	17.99 SFR=(SFR1+SFR2+SFR3)/3		
<b>F=Total Number of Faculty Members in the Department (excluding first year faculty)</b>			

**Note:** 75% should be Regular/full time faculty and the remaining shall be Contractual Faculty/Adjust Faculty/Resource persons from industry as per AICTE norms and standards. The contractual faculty will be considered for assessment only if a faculty is drawing a salary as prescribed by the concerned State Government for the contractual faculty in the respective cadre.

## 5.1.1. Provide the information about the regular and contractual faculty as per the format mentioned below:

	Total number of regular faculty in the department	Total number of contractual faculty in the department
CAY(2018-19)	22	1
CAYm1(2017-18)	20	1
CAYm2(2016-17)	17	3

Average SFR for three assessment years : 17.99

Assessment SFR : 16

## 5.2 Faculty Cadre Proportion (25)

Total Marks 10.00

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2018-19)	2.00	0.00	4.00	3.00	12.00	19.00
CAYm1(2017-18)	2.00	0.00	4.00	3.00	12.00	17.00
CAYm2(2016-17)	2.00	0.00	4.00	1.00	13.00	16.00
Average Numbers	2.00	0.00	4.00	2.33	12.33	17.33

Cadre Ratio Marks [ (AF1 / RF1) + [(AF2 / RF2) \* 0.6] + [ (AF3 / RF3) \* 0.4] ] \* 12.5 : 10.00

### 5.3 Faculty Qualification (25)

Total Marks 12.99

Institute Marks : 12.99

	X	Y	F	$FQ = 2.5 \times [(10X + 4Y) / F]$
2018-19(CAY)	3	20	18.00	15.28
2017-18(CAYm1)	3	18	19.00	13.42
2016-17(CAYm2)	1	17	19.00	10.26

Average Assessment : 12.99

### 5.4 Faculty Retention (25)

Total Marks 25.00

Institute Marks : 25.00

Description	2017-18	2018-19
No of Faculty Retained	17	17
Total No of Faculty	17	17
% of Faculty Retained	100	100

Average : 100.00

Assessment Marks : 25.00

### 5.5 Innovations by the Faculty in Teaching and Learning (20)

Total Marks 20.00

Institute Marks : 20.00

Following are the Innovations by the faculty in Teaching and Learning:

#### A. Bloom's Taxonomy in Teaching:

- Faculty follows the Bloom's Taxonomy for the effective teaching- learning process.

- Faculty prepare the lecture plan and create the content taking in reference the Bloom's taxonomy which helps students understand, remember and analyse the concepts.

**B. Teaching through Multimedia Tools:**

- Faculty uses lecture theatres equipped with projectors, computers, sound system and internet to present the lectures through videos and animated presentations.
- Faculty shows animated presentations and videos to students to teach them in effective manner.
- Videos and animated presentations are very helpful in interactive learning as they are visually attractive and create interest in students.
- Faculty makes students able to relate theoretical concepts and logics with such tools easily and effectively as it targets the audio-visual sense of students.
- Students experience the modern-days teaching methodology. This process supports Bloom's Taxonomy as it helps students to remember, understand, apply, analyse, evaluate and create.

**C. Teaching through demonstration in Laboratories:**

- Faculty uses computer simulation software tools in the laboratories to demonstrate the working of real world system on computer. This method effectively demonstrates the abstract concepts, creates interaction between students and simulated equipment, and help students to improve their knowledge and skills.
- Faculty demonstrates the practical using the modern multimedia tools like presentations, videos and animations on projector/ TV screen installed in the laboratories.
- Teaching with interactive demonstration is highly effective in the learning process for students as they visualize the problem with solution and then they can apply the same concept in solving new problem.
- This process highly supports Bloom's Taxonomy as it helps students to understand, remember, analyse, evaluate and create.

**D. Research & Development:**

- Faculty motivates students in the area of research and development by involving students with them in research work. Problem statements are discussed and collaborative approach for the creation of solutions is followed.
- Faculty guides students in writing research paper, publishing and presenting them.
- Faculty guides students in selecting and implementing research oriented industry based real-time projects.

**E. Skill set classes:**

- Faculty identifies the skill set to make students industry ready and arranges the skill development classes e.g. IOT (Internet of Learning), Machine learning, CV writing, Presentation skills, communication skills
- Skill set classes are included in the regular classes' timetable for all students.

**F. Industrial Visits and Trainings:**

- Faculty identifies the learning gap between theoretical learning and practical training and arranges Industrial visits for students to bridge such gap in a real-life environment.
- Students observe, understand and learn the industrial practices and organizational hierarchy during these industrial visits.
- Such Industrial visits for students provide opportunities for active as well as interactive learning experiences outside the classroom in addition to usual classroom learning.

**G. Online courses:**

- Faculty undergo online courses from the sources like SWAYAM, NPTEL, Coursera, Edx, etc. in their area of interest and motivate students to do the same.
- Online courses help both faculty and student to enrich their knowledge on current trends and also to equip themselves with inter-domain expertise.
- These courses are certified by the National and International universities and are motivating towards lifelong learning.
- Online courses also provide forum for discussion among the experts and students worldwide.

**H. e-notes:**

- Faculty prepares the e-notes as per the subject syllabus and provide to students through e-mail as well as print copy. e-notes are more easily accessible in Laptop, computer and mobile devices making students to refer and study using notes anywhere and anytime.



**I. Innovative assignments:**

- Faculty designs the practical assignment problems in relation to the concepts taught in the class, which makes students to understand and explore the problem and create and evaluate its solution.
- Practical assignment helps in developing the imaginative, openness, problem solving and critical thinking ability of the students.

**J. Technical presentation:**

- Faculty arrange presentation sessions and encourage students to present a technical topic of their area of interest.
- This technique serves as an effective platform for knowledge transfer, overcome stage fear, develop presentation skills, communication skills and build confidence.
- These skills significantly help students in their career growth.

**K. Co-curricular and extracurricular activities:**

- Co-curricular and extracurricular activities are conducted to motivate the students and to improve personality, problem solving capabilities, build leadership abilities, learn team work ethics, and administering critical situations.
- These activities include Aptitude Training, Social Welfare Camp, Problem solving, Entrepreneurship Development Programs, Critical Thinking, etc.

**L. Instant Talks and Group Discussions:**

- Faculty arranges instant presentations in the class in which they motivate students to speak on a general topic for 5 minutes. Topic for speech is selected randomly and provided randomly to students.
- Faculty arrange group discussion among a group of students. A topic is provided and each student is asked to participate. Such activity helps students to explore the wide aspect of the topic.
- This activity help student overcome fear to express themselves among others, build confidence, improve personality and improve skills that also help them in placements.

**M. Project Based Learning:**

- Faculty undertake the innovative projects based on real life problems for students and encourage as well as guide them in its implementation.
- Such projects often force students to use multiple learning techniques to succeed, which includes research, analysis, and iterative learning.
- These projects are usually done in groups which encourage teamwork ability in students.
- Project Exhibition is conducted in the department every year to enrich the development skills of the students.

**5.6 Faculty as participants in Faculty development/training activities/STTPs (15)**

Total Marks 15.00

Institute Marks : 15.00

Name of the faculty	Max 5 Per Faculty		
	2017-18 (CAYm1)	2016-17 (CAYm2)	2015-16 (CAYm3)
SHRIDHAR B. DANDIN	0.00	0.00	5.00
NIMISH KUMAR	5.00	5.00	5.00
MANOJ PANDEY	5.00	5.00	0.00
MANOJ KATARIA	0.00	0.00	0.00

HIMANSHU VERMA	0.00	5.00	5.00
GAUTTAM JANGIR	0.00	0.00	5.00
PRADEEP SINGH SHEKHAWAT	5.00	0.00	5.00
RAMAKANT SONI	0.00	0.00	5.00
REENA SAINI	0.00	0.00	5.00
JITENDER KUMAR	5.00	5.00	5.00
GOPAL KRISHAN PRAJAPAT	5.00	0.00	5.00
GARIMA RUNGTA	0.00	0.00	0.00
VIPIN SARAOGI	5.00	0.00	0.00
RUCHI SHARMA	5.00	0.00	5.00
SANJEEV SULTANIA	0.00	0.00	5.00
DHANESH KUMAR MATOLIA	0.00	0.00	5.00
ANIL KUMAR DATIKA	0.00	0.00	5.00
RADHA MADHAB JHA	0.00	0.00	0.00
BHUPENDRA KUMAR JANGIR	0.00	5.00	0.00
REETESH GAUTAM	0.00	0.00	0.00
SANJAY KUMAR SAINI	0.00	0.00	5.00
HARSH SHARMA	0.00	5.00	0.00
PRAVEEN KUMAR SHARMA	0.00	0.00	0.00
AJENDER MALIK	0.00	0.00	5.00
RAKESH SAINI	5.00	5.00	0.00
SONAM MITTAL	0.00	0.00	0.00
MONIKA JANGIR	0.00	0.00	0.00
SHASHIKANT SHARMA	0.00	0.00	5.00
VIKRAM SHARMA	0.00	0.00	5.00

Sum	40.00	35.00	85.00
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratios per 5.1	18.50	19.15	19.65
Assessment [3*(Sum / 0.5RF)]	12.97	10.97	25.95

Average assessment over 3 years: 16.63

**5.7 Research and Development (30)**

Total Mark

**5.7.1 Academic Research (10)**

Institute Marks

**Academic Research of Faculty****Research Publication**

Publication Session : 2018-19				
S.No.	Name of Faculty/ Author	Title of Paper	Name of Journal, Volume, Issue, Year of publication, Page No.	SCI/SCOPUS/UGC approved Journal/Conference Proceeding
1	Mr. Shridhar B Dandin	1. ComVisMD - Choropleth Maps Applied to Multidimensional Data: An illustration on Cricket Players Data	1. IEEE VIS 2018 International Conference, Oct 2018, Berlin, Germany. (hal-01997828)	Conference Proceeding
2	Dr. Nimish Kumar	1. Analyzing Basic Artificial Neural Network: Simulation, Strength and Capabilities	1. National Seminar on Recent Trends in Science & Technology a Computational Approach, helds at CBLU, Bhiwani, 2018.	Conference Proceeding
		2. Evaluating Quality Models for Web-based Applications.	2. International Conference on International Relevance of Vivekananda Thoughts in Modern Research, held at JTT University, 2018.	Conference Proceeding
3	Mr. Shashi Kant Sharma	1. Efficient Facial Expression Recognition Using CS-LBP and PCA	1. International Journal of Scientific Research and Review, Volume 7, Issue 8, 2018, pp: 447-451	UGC Approved
		2. Face Recognition System: Review	2. Journal of Emerging Technologies and Innovative Research, Volume 6, Issue 4 , April 2019, pp: 573-580	UGC Approved
4	Mr. Gauttam Jangir	1. Visual task classification using machine learning algorithms with the help breakout game	1. International Journal for Research in Engineering Application & Management, Vol. 5, Issue. 02, Year of Publication. 2019, Page No. 594-600	UGC Approved
5	Dr. Ajender Kumar Malik	1. Variable demand rate and sales revenue cost inventory Model for non-instantaneous decaying items with maximum Life time	1. International Journal of Engineering & Science Research, Vol. 9(2), 2019, pp 52-57	UGC Approved
		2. Correlation Based Real-Time Data Analysis of Graduate Students Behaviour	2. Recent Trends on Image Processing and Pattern Recognition (RTIP2R) 2018, CCIS 1037, pp. 1-11, 2019	Conference Proceeding
6	Mr. Rakesh Saini	1. A Literature Review on Copy-Move Image Forgery Detection	1. Journal of Engineering Technologies and Innovative Research (JETIR), Volume 6, Issue 5, May 2019.	UGC Approved
		2. Ameliorating the Performance of a Hybrid CMFD Technique	2. International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 22, 2018, pp. 15511-15518	UGC Approved
7	Dr. Sonam Mittal	1. Efficient and Robust System to Recognize Gesture of Hands	1. International Journal of Innovative Research in Science, Engineering and Technology Vol. 7, Issue 12, December 2018	

		2. Smart Classroom – Application of Gesture Recognition	2. International Journal of Innovative Research in Science, Engineering and Technology Vol. 7, Issue 12, December 2018	
8	Mr. Ramakant Soni	1. Variable Demand Rate And Sales Revenue Cost Inventory Model For Non- Instantaneous Decaying Items With Maximum Life Time	1. International Journal of Engineering & Science Research, IJESR (ISSN 2277-2685)/Feb. 2019/ Vol-9/Issue-2/52-57	
9	Mr. Praveen Kumar Sharma	1. Slotted Patch Antenna for X-Band Applications; DESIGN AND PERFORMANCE EVALUATION OF SLOTTED MICROSTRIP PATCH ANTENNA FOR C- BAND APPLICATIONS;	IJRAR, Volume-6, Issue-1,march 2019, 974-977;JETIR, Volume-6, Issue-5, May 2019, 541-545	UGC Approved

Publication Session : 2017-18				
S.No.	Name of Faculty/ Author	Title of Paper	Name of Journal, Volume, Issue, Year of publication, Page No.	SCI/SCOPUS/UGC approved Journal/Conference Proceeding
1	Mr. Shridhar B Dandin	1. ComVisMD - compact visualization of multidimensional data: experimenting with cricket players data	1. 3rd International Conference on Communication Systems (ICCS-2017) IOP Conf. Series: Materials Science and Engineering 331 (2018) 012006 doi:10.1088/1757-899X/331/1/012006	Conference Proceeding
2	Dr. Nimish Kumar	1. Predicting Dark Triad Personality from Linguistic Analysis	1. IIIrd International Conference on Communication Systems, held at BKBIET on 14 <sup>th</sup> -16 <sup>th</sup> Oct, 2017.	Conference Proceeding
		2. Neural Networks and its Application Areas	2. National Conference on Indian Environmental Health and Urban Sustainability through Technology Management, organized by JYT University, Jhunjhunu, 2017.	Conference Proceeding
3	Mr. Gauttam Jangir	1. Windowing based threshold technique to play the simple breakout game at neutral attention level.	1. International Journal of System of System Engineering, Volume 8, Issue. 2, Year of Publication. 2017, Page No. 147-173	Scopus
		2. EEG signal based system to control home appliances.	2. International Journal for Research in Engineering Application & Management, Vol. 4, Issue. 02, Year of Publication. 2018, Page No. 397-408	UGC approved
4	Mr. Pradeep Singh Shekhawat	1. A Comparative Review on the Performance of Intrusion Detection Algorithms and Datasets in Networks Using Data Mining Techniques.	1. International Journal of Computer Sciences and Engineering, Vol.6 , pp.329-334, March 2018	UGC Approved
5	Dr. Ajender Kumar Malik	1. Inventory model with quadratic demand under the two warehouses management system	1. International Journal of Engineering and Technology, Vol.9(3), 2017, pp2299-2303	UGC Approved
		2. Quadratic Demand based Inventory Model with Shortages and Two Storage Capacities System	2. Research Journal of Engineering and Technology, Vol.8(3), 2017, pp 213-218	UGC Approved
		3. An Inventory Model for both Variable Holding and Sales Revenue Cost	3. Asian Journal of Management, Vol.8(4), 2017, pp 1111-1114	UGC Approved
		4. A Two Warehouse Inventory Model with Stock-Dependent Demand and variable deterioration rate	4. International Journal on Future Revolution in Computer Science & Communication Engineering, Vol.3(9), 2017, pp 20-24	UGC Approved
		5. Two warehouses Inventory Model with Stock-dependent demand and Maximum life time,	5. Journal of Ultra Scientist of Physical Sciences Section B, Vol.29(10), 2017, pp 309-318	UGC Approved
		6. Two Warehouses Inventory Model with Quadratic Demand and Maximum Life Time	6. International Journal on Future Revolution in Computer Science & Communication Engineering, Vol.3(10), 2017, pp 26-29	UGC Approved

		7. An Inventory Model with Time-Varying Demand for Non-Instantaneous Deteriorating Items with Maximum Life Time	7. International Journal of Applied Engineering Research, Vol. 13 (9), 2018, pp 7162-7167	UGC Approved
6	Mr. Shashi Kant Sharma	1. Comparative Analysis of Face Recognition using Extended LBP and PCA	1. International Journal of Engineering Science and Technology , Vol. 9 No.10 Oct 2017, pp: 935-942	UGC Approved
7	Mr. Anil Kumar Datika	1. A Review on EEG Brain Signal	1. International Journal of Emerging Technology and Advanced Engineering, Volume 8, Issue 2, February 2018. PP 32-40	UGC Approved
		2. EEG Signal Based System to Control Home Appliances	2. International Journal for Research in Engineering Application & Management, Vol-04, Issue-02, May 2018. PP 397-407	UGC Approved
8	Mr. Bhupendra Kumar Jangir	1. Design of Controlling Home Appliance Remotely Using Raspberry pi	1. IEEE, 2nd International Conference for Convergence in Technology (I2CT), 2017, 841-845	Conference Proceeding
		2. Computationally Improved Algorithm to Find Higher Roots of Integer Order Bessel Function in Gyrotron Application	2. IEEE, 2nd International Conference for Convergence in Technology (I2CT), 2017, 910-914	Conference Proceeding
9	Mr. Ramakant Soni	1. A Comparative Review on the Performance of Intrusion Detection Algorithms and Datasets in Networks Using Data Mining Techniques.	1. International Journal of Computer Sciences and Engineering, Vol.6 , pp.329-334, March 2018	UGC Approved
10	Dr Radha Madhab Jha	1. Poetry: The record of the best and happiest moments of life	1. International Journal of Academic Research and Development ISSN: 2455-4197 Impact Factor: RJIF 5.22 www.academicjournal.com Volume 3; Issue 1; January 2018; Page No. 1286-1290	UGC Approved

Publication Session : 2016-17

S.No.	Name of Faculty/ Author	Title of Paper	Name of Journal, Volume, Issue, Year of publication, Page No.	SCI/SCOPUS/UGC approved Journal/Conference Proceeding
1	Mr. Shridhar B Dandin	1. Data Visualization through Variant Choropleth Map	1. International Transactions in Mathematical Sciences and Computers January-December 2016, Volume 9 No.1 pp. 57-71 ISSN-(Printing) 0974-5068, (Online) 0975-3753	Conference Proceeding
2	Dr. Nimish Kumar	1. MAQM: A Generic Object-oriented Framework to Build Quality Models for Web-based Applications	1. International Journal of Systems Assurance Engineering and Management (IJSA) (Springer), Vol. 7, No. 4, pp. 1-14, 21 July 2016, DOI: 10.1007/s13198-016-0512-5.	Scopus
		2. Redefining Grid Architecture: A Soft Computing Approach	2. Computational Mathematics and Operations Research (CMOR-16), organized by BKBIET, Pilani from October 15-16, 2016	Conference Proceeding
3	Mr. Shashi Kant Sharma	1. Comparative Study of Efficient Face Recognition Methods : A Literature Survey	1. Proceeding of International Conference on Communication, Computing and Networking, 2017, PP: 554-558	Conference Proceeding
4	Dr. Manoj Pandey	1. Computational Acceleration of Real-Time Kernel-Based Tracking System	1. Journal of Circuits, Systems and Computers, Vol. 25, Issue 04, April 2016.	SCI
		2. Custom IC/Embedded IP design for histogram in video processing application	2. AIP Conf. Proc. 1715, March 2016	Scopus
5	Dr. Ajender Kumar Malik	1. Importance of Operations Research in higher education	1. International Journal of Operations Research and Optimization, Vol.7(1), 2016, pp 35-40	UGC Approved
		2. The role of Mathematics in Entrepreneurship	2. International Transactions in Mathematical Sciences and Computers, Vol.9(1-2), 2016, pp 92-96	UGC Approved
		3. Mathematical Modelling of an inventory model with linear decreasing holding cost and stock dependent demand rate	3. International Transactions in Mathematical Sciences and Computers, Vol.9 (1-2), 2016, pp 97-104	UGC Approved
6	Mr. Ramakant Soni	1. Implementation of an Automated Attendance Monitoring Application Using Eigen Faces Recognition Algorithm in MATLAB	1. International Transactions in Mathematical Sciences and Computer, Vol. 9 No.1 -2 pp. 118-129, Dec 2016	

7	Dr. Sonam Mittal	1. Controlling Mouse Pointer Using Web Cam	1. International Research Journal of Engineering and Technology (IRJET) Volume: 03 Issue: 10   Oct-2016	UGC Approved
		2. ONTOLOGY LEARNING	2. International Research Journal of Engineering and Technology (IRJET) Volume: 03 Issue: 10   Oct-2016	UGC Approved
8	Mr. Bhupendra Kumar Jangir	1. Cheap Parking Assist System using 8051 Family	1. IEI, Annual Technical Volume, 2016, 57-60	
9	Mr. Praveen Kumar Sharma	1. Smart Irrigation System using IOT: SIS	1. IJERT, Volume.6, Issue.6, pp.103-107, June-2017.	UGC Approved
10	Dr. Sonam Mittal	1. Twitter Crawler with Multilingual Text Classification	1. International Journal of Innovations & Advancement in Computer Science, Volume 6, Issue 6, June 2017	UGC Approved
11	Dr. Radha Madhab Jha	1. A man of divine vision and a poet of all time	1. International Journal of Applied Research ISSN Print: 2394-7500, ISSN Online: 2394-5869, Impact Factor: 5.2 IJAR 2017; 3(5): 253-257, Received: 21-03-2017, Accepted: 22-04-2017	UGC Approved

**Books Publication****2016-17**

S.No.	Name of Faculty/ Author	Title of Books/ Book Chapters, Publisher Details
1	Dr. Nimish Kumar	Artificial Intelligence Techniques, Author (s): Nimish Kumar and Smita Pareek, 15 August, 2016
2	Dr. Ajender Kumar Malik	NCERT Solution for 12th, New Age International (P) Ltd. New Delhi

**2017-18**

S.No.	Name of Faculty/ Author	Title of Books/ Book Chapters, Publisher Details
1	Dr. Ajender Kumar Malik	Measure and Integration, I. K. International Pub. House Pvt. Ltd., New Delhi, India

**Ph.D. guided / Ph.D. Awarded**

Sr. No.	Faculty Name	PhD Scholars Names	Registered in the Academic Year	PhD awarded in year	Title of the PhD Thesis
1	Dr Y. K. Gupta	Mr Nardeep Singh Yadav	2012	2015	Role of Synthetic and Dimensional Synthetic Chemistry in block Copolymer Micelle
		Mr Babita Kumari	2013	2016	Study of Some Physico-Chemical Characteristics of Under Ground Water, A Casestudy of District Jhunjhunu, Rajasthan)
		Mr Arun Kumar	2014	2017	Synthesis and Physico Chemical Studies of Some Heterocyclic Compounds as Potential Antimicrobial Agents
		Mr Kulveer Singh	2015	2018	Synthesis, characterization and Biological Studies of Some Cyclic Imides and Their Derivatives
		Mr Anil Kumar Saini	2016	2019	A Study of Physiochemical Parameters of Drinking Water in Buhana Tehsil of Jhunjhunu District, Rajasthan)

		Ms Alka	2016	2019	Chemo metric Studies of Water Quality Parameters of Potable (Drinking) Water of District Jhunjhunu, Rajasthan, India)
2	Dr A. K. Malik	Mr Yashveer Singh	2011	2016	Development of Some Optimum Inventory Policies with Soft Computing Techniques
		Mr. Deepak Kumar Chakraborty	2015	2018	Development of Some Inventory Model for Deteriorating Items with variable demand under the two warehouses
		Mr Sanjay Kumar	2014	2019	Study and Analysis of Inventory Model for Deteriorating Items with two warehouses
3	Dr Vipin Kumar	Mr Gopal Pathak	2011	2018	Development of Optimal Ordering Policies for Perishable Products with Trade Credits
		Mrs. Anupama Sharma	2012	2019	Development of Optimal Replenishment Policies for Perishable Products with Shortages and Trade Credit"
<b>Details of Current PhD Scholars</b>					
<b>Sr. No.</b>	<b>Faculty Name</b>	<b>PhD Scholars Names</b>	<b>Registered in the Academic Year</b>	<b>Research Area</b>	<b>University</b>
1	Dr. Y. K. Gupta	Suman Kumari	2017	Synthesis, Characterisation and Antimicrobial Activities of Some New Pyrazoles, Amino-Pyrimidine and Malonitriles.	Singhania University, Pachheri Bari, Jhunjhunu, Rajasthan, India.
2	Dr. A. K. Malik	Ms Kiran Yadav	2016	Mathematics	Singhania University, Pachheri Badi
3	Dr. Vipin Kumar	Mr Vikas Kumar	2015	Mathematics	JJTU Jhunjhunu Rajasthan
		Mrs Monika Rani	2017	Mathematics	Dr. A. P. J. Abdul Kalam University, Luknow

**Details of PhD Awarded to Our Faculty during Assessment Years (2016, 2017).**

Sr No	Name	Branch	Month & Year	University Name	Name of Guide	Name of Co-Guide	Thesis Title
1	Dr. Nimish Kumar	Computer Science and Engineering	September, 2016	Banasthali Vidyapith Vanasthali Road, Dist-Vanasthali, Rajasthan-304022.	Prof. Aditya Shastri, Department of Computer Science, Banasthali University	Prof. Reena Dadhich (HoD), Professor, Department of Computer Science, University of Kota, Kota	Analysis and Evaluation of Object-oriented Testing Methodologies for Web-Based Applications
2	Dr. Sonam Mittal	Computer Science	September, 2016	Banasthali Vidyapith Vanasthali Road, Dist-Vanasthali, Rajasthan-304022.	Prof. Praveen Dhyani Executive Director, Banasthali Vidyapith, Jaipur Campus	Dr. Mukesh Kumar Rohil Associate Professor, BITS Pilani	Some Artificial Intelligence Techniques to Validate Software Design Against Software Requirements
3	Dr. Manoj Pandey	Electronics & Communication Engineering	January, 2017	Sant Longowal Institute of Engineering & Technology (SLIET), Longowal, Sangrur,Punjab.	Dr. J S Ubhi Associate Prof. & Head (ECE), SLIET Longowal.	Dr. Kota Solomon Raju Senior Principal Scientist, CSIR-CEERI Pilani.	System Level Reconfigurable Techniques for Real Time Object Tracking

**5.7.2 Sponsored Research (5)**

Institute Marks : 5.00

**2017-18 (CAYm1)**

Project Title	Duration	Funding Agency	Amount
Business Intelligence (BI) Dashboard on Logistics	10 Months	Vasavadatta Cements	50000.00
ERP-Process & Quality Control Model	10 Months	Vasavadatta Cements	40000.00
Drone Assembly for Chimney of Cement Industry	4 Months	Vasavadatta Cements	105000.00
Chemical Analysis of Lime stone	15 Months	Vasavadatta Cements	775000.00
E-Cell, IoT based Project	12 Months	Department of Information Technology, Rajasthan	1000000.00
Science Day Project	1 Month	Department of Science & Technology, Bikaner	100000.00
Online Journal Publication (IJMOT)	12 Months	University of Nevada, USA	84368.00
			Total Amount(X): 2154368.00

**2016-17 (CAYm2)**

Project Title	Duration	Funding Agency	Amount
Lip Synch for Wax Statue at Pilani Gallery	1 Year	Birla Science Centre, Pilani	150000.00
Online Journal Publication (IJMOT)	1 Year	University of Nevada, USA	104377.00
			Total Amount(Y): 254377.00

**2015-16 (CAYm3)**

Project Title	Duration	Funding Agency	Amount
E-Guide: An Android Application for Art & Culture Academy	2 Months	Biral Art & Culture Academy, Kolkata	35000.00
			Total Amount(Z): 35000.00

Cumulative Amount(X + Y + Z) = 2443745.00

**5.7.3 Development Activities (10)**

Institute Marks : 10.00

**A. Product Development:****1. Jeevan System**

It promises water conservation through automated control and community efforts. This consists of water meters and weather condition checking meters. Data is stored and accessed at a centralized server at Windows Azure which then sends information to the user through Silverlight based web app and Windows Phone app. It controls their water usages behavior by sending them alerts, creating community participation and hence educates them.

**2. SPARSH**

A solar powered automobile automation for heat stroke prevention. Heatstroke in cars is a growing problem all over the world. A dark dashboard or seat can easily reach temperatures in the range of 180 to over 200 degrees F. At 107 degrees F loss of consciousness occurs and body stops functioning. SPARSH provides a solution for this fatal problem by using embedded system, information sharing platform, sensors and the whole system powered by the solar panel, placed on the car roof. The system sends a "FORGET ME NOT" warning SMS on car owner's mobile.

**3. Smart Helmet**

The working principle is: sensing human touch, by using Capacitive Proximity Sensors which are placed inside the Helmet. The behavior of the vehicle's ignition is controlled using signals received and hence only gets enabled when signals received are in accordance to the situation of wearing the helmet.





Smart Helmet

**4. Wireless Lamp**

Its a Lamp which is controlled by the Android smartphone via Bluetooth. LEDs are connected with Arduino alongside HC-05. HC-05 receives the signals from smartphone and Arduino does the controlling of lights (LEDs).

**5. Wireless Robocart**

Its a robot car that is controlled by the gyroscope sensor mounted with smartphone. At cart end Arduino and HC - 05 is used to control the operations and receive the signal respectively.

**6. Automatic Welcome**

Its a system that does welcome of guest by displaying greeting message on screen. Here Arduino, Proximity Sensor and Relay module is used. Arduino is used for processing, proximity sensor sense the object presence and relay module turn on the screen.

**7. Home Light Automation**

An automation system for switching on light. Equipment are connected with the relay module and Light Dependent Resistor (LDR) sense the ambient light. Arduino does the desired processing and turn on or off the light when needed.

**8. Home Automation System**

An automation system to switch on fan according to room temperature. Fans are connected with the Relay module and LM35 sense the ambient temperature. Arduino does the desired processing and turn on or off the fan when needed.

**9. Museum Guide App**

App built for Android smartphones to access Museum exhibits. This app has a user interface containing buttons linked with a descriptive video for each exhibit. When user clicks button for particular exhibit, relevant video plays.

**10. Fingerprint attendance based system**

A fingerprint based attendance monitoring system developed using Arduino and sensors to manage attendance of students\*.

**11. Chat bot**

This chat bot is a web-service (integration possible on all websites) but is mainly created for a MOOC platform. It can answer the basic questions of the user, some questions that are predicted by the teacher and also learn from the questions already asked.

**12. University management system software**

A UI application developed to automate the different departments in University management system. The system utilizes the powerful database management, data retrieval and data manipulation. This project provides more ease for managing the data than manually maintaining in the documents. The project is useful for saving valuable time and reduces the huge paper work.

**13. Online Quiz software:**

An online Quiz software for assessing students in multiple choice question format.

**B. Research laboratories:****1. R & D Division**

BKBIET Pilani has established R&D division towards the formation of intellectual capital by facilitating research culture in the institute Mobilize the knowledge resources available for basic and applied research, innovative projects and startup solutions. The research area covers all major academic disciplines including multidisciplinary research like Embedded systems, MEMS/NEMS technology, Plasma Engineering, Pulse Power, Bio engineering etc.

**2. E-Cell**

E-Cell with all infrastructure, connectivity, networking, common facilities to provide extensive computing resources for research and development education. It includes high-performance computers in the range of latest versions of operating systems like Linux, Windows etc. Each Operating System supports a varied range of application specific software. Network communications include a fiber optic backbone as well as wireless connectivity, offering excellent connectivity to the commodity internet and provides intranet within the lab.

**3. IoT Lab**

IoT lab with facilities of equipment like Arduino, raspberry pi and 8051 Microcontroller boards along with basic sensor for training and implementation purpose and internet. Students are guided in embedded system, IoT, robotics and similar domains using which they can ideate and create their innovation.

#### 4. Project Lab

Project Lab is used by students for the research and development of software & web applications, image processing, data science and artificial intelligence. Necessary Software tools are installed on the Computer systems with the internet facility.

#### 5. Cadence Lab

Cadence lab provides a platform for students who are working in the domain of VLSI with digital & analog circuits. This lab allows the theoretical fundamentals studied as part of subjects CMOS VLSI Design, Microelectronics Circuits and VHDL, to experience in practical with the help of Cadence tool framework. The cadence lab introduces the complete custom IC design flow, ASIC design flow, Analog and Mixed Signal flow for Analog circuits, Digital circuits and Analog and mixed signal circuits design respectively.

### C. Instructional materials:

Various type of instructional material is used to impart knowledge to students:

#### 1. Subject Notes

Subject notes and handouts are provided to students in compliance to University syllabus. Notes are provided to students in print copy as well as soft copy format.

#### 2. University Question Papers with solutions

Previous year question papers of respective subjects with solutions are provided to students for better preparation of exams.

#### 3. Lab Manuals

Work Lab Manual is prepared according to University syllabus for effective Laboratory. Lab manual are available in all laboratories for all practical courses.

#### 4. Presentations

Faculty prepare presentations for topics which need more visualizations for effective understanding and thinking.

#### 5. Online Instructional materials

Faculty provides E Books, notes, presentations, video links (e.g. NPTEL, SWAYAM, TCSion and other MOOC Courses) are provided to students for understanding of practical applications of theoretical concepts.

#### 6. Lab charts/ posters

Educational posters in each lab to provide visual aid in learning process. Students get induced to constant learning even when they look around the labs.

### D. Working models, Charts

#### i. Working Models:

##### 1. Wireless Lamp

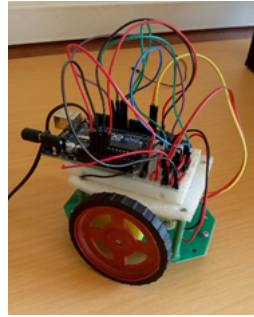
Electronic Lamp controlled by the Android smartphone via Bluetooth. LEDs are connected with Arduino alongside HC-05. HC-05 receives the signals from smartphone and Arduino does the controlling of lights (LEDs).



Wireless Lamp

##### 2. Wireless Robocart

Its a robot car that is controlled by the gyroscope sensor mounted with smartphone. At cart end Arduino and HC - 05 is used to control the operations and receive the signal respectively.



Wireless Robocart

### 3. Automatic Welcome System

Its a welcome of guest by displaying greeting message on screen. Here Arduino, Proximity Sensor and Relay module is used. Arduino is used for processing, proximity sensor sense the object presence and relay module turn on the screen.

### 4. Home Automation System

A home automation system developed using Arduino and sensors. It has two modules: Light control automation and Fan control automation. Equipment are connected with the relay module, Light Dependent Resistor (LDR) sense the ambient light and LM35 sense the ambient temperature. Arduino does the desired processing and turn on or off the equipment (Light and Fan).

### 5. Fingerprint attendance based system

A fingerprint based attendance monitoring system developed using Arduino and sensors to manage attendance of students'.

### 6. Chat bot

This chat bot is a web-service (integration possible on all websites) but is mainly created for a MOOC platform. It can answer the basic questions of the user, some questions that are predicted by the teacher and also learn from the questions already asked.

### 7. University management system software

A UI application developed to automate the different departments in University management system. The system utilizes the powerful database management, data retrieval and data manipulation. This project provides more ease for managing the data than manually maintaining in the documents. The project is useful for saving valuable time and reduces the huge paper work.

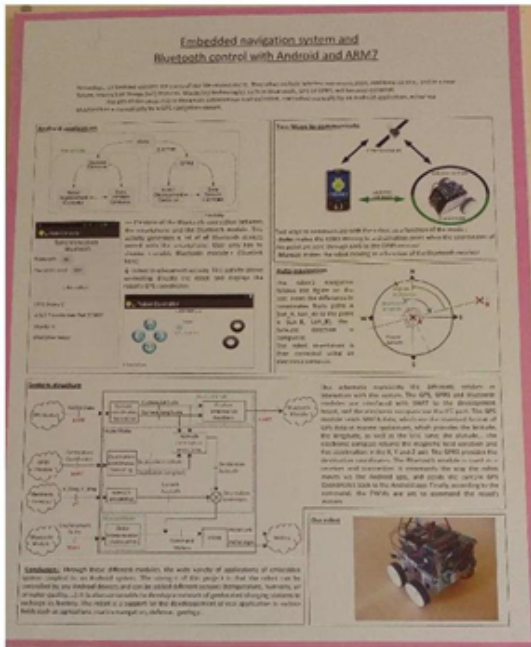
### 8. Online Quiz software

An online Quiz software for assessing students in multiple choice question format.

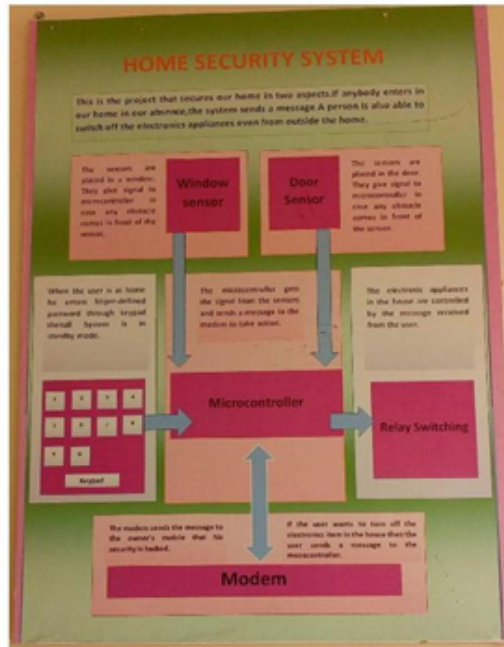
#### ii. List of Charts and posters available in labs:

1. Embedded Navigation System and Bluetooth control with Android and ARM7
2. Home security system
3. E-book for blind man
4. Smart helmet and surveillance system
5. Embedded minicomputer used in IOT
6. Board and microcontroller used in embedded system
7. Asymmetric digital subscriber line
8. Process state diagram
9. Internet security
10. Bus structure of PC

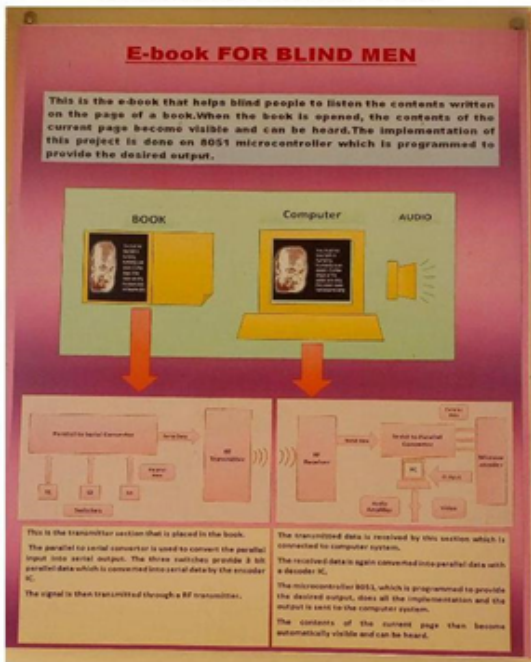
11. Integrated service digital network ISDN
12. Database components
13. Memory hierarchy
14. e-commerce
15. Interface cards
16. Internet
17. Input devices
18. OSI model
19. Evolution of computer
20. Network topology
21. Motherboard
22. Printers
23. Data storage media
24. Core 2 duo processor



Embedded Navigation System and Bluetooth control with Android and ARM7



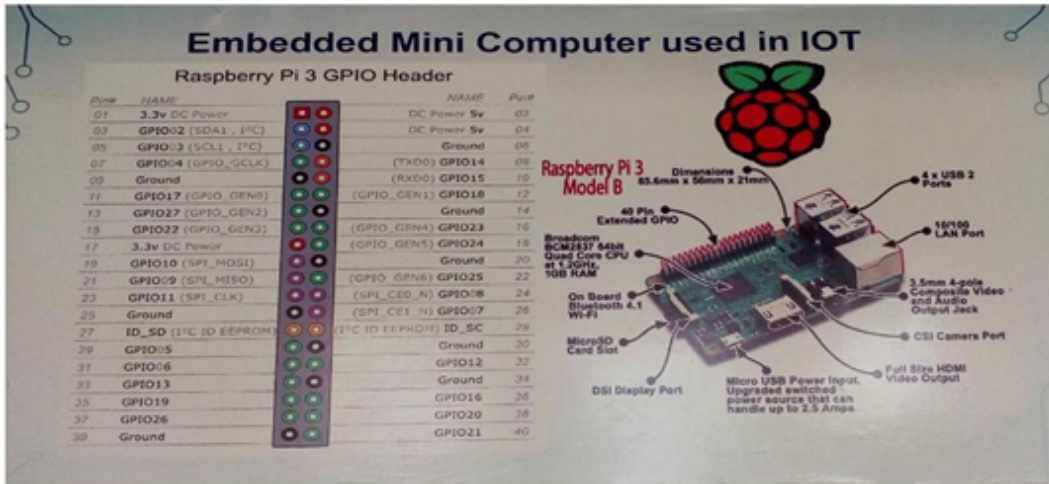
Home security system



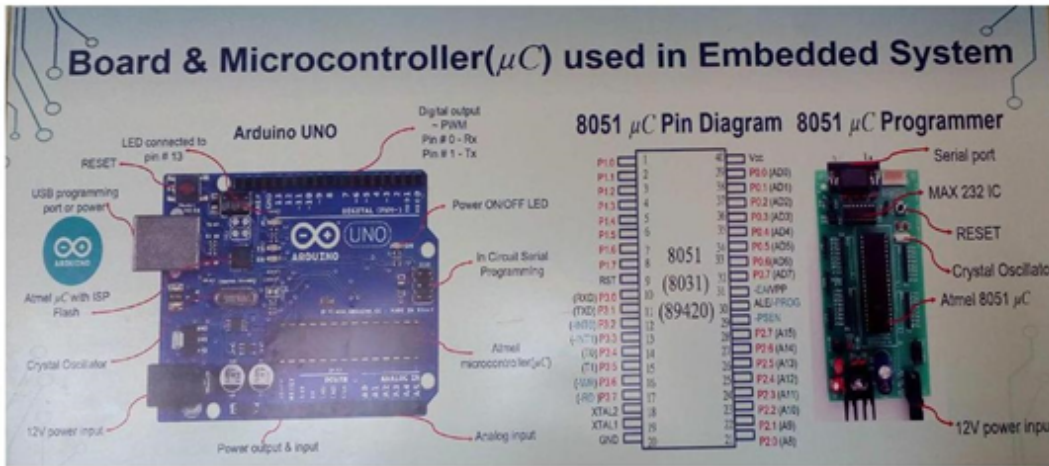
E-book for blind man



Smart helmet and surveillance system



Embedded minicomputer used in IOT

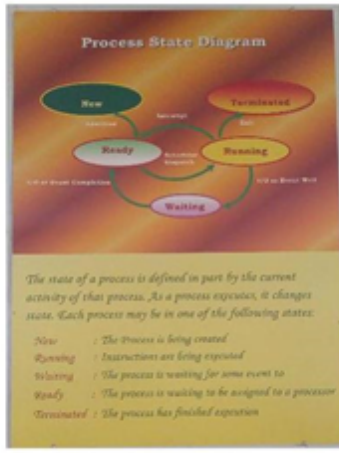


Board and microcontroller used in embedded system





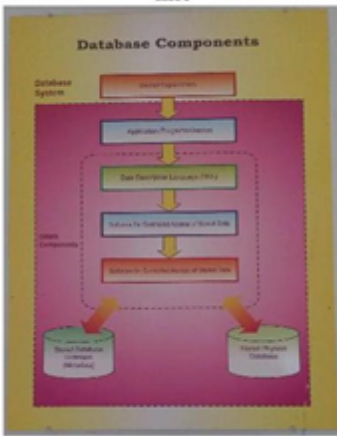
Asymmetric digital subscriber line



Process state diagram



Internet security



Database components

**Memory Hierarchy**

Component	CPU	Cashier Memory	Main Memory	Disk Memory	Tape Memory
Access Type	Random access	Random access	Random access	Direct access	Sequential access
Capacity, Bytes	64-1024	8KB-4MB	32MB-2GB	10-200GB	1 TB
Latency	0.4-10 ns	0.4-20 ns	10-50 ns	10 ms	10 sec-10 s
Block Size	1 word	16 word	16 word	4 KB	4 KB
Bandwidth	System clock rate	System clock rate	10-400MB/s	50 MB/s	1 MB/s
Cost/MB	Very High	High	Low	Cheapest	Very Low

Memory hierarchy



e-commerce



Internet



Input devices

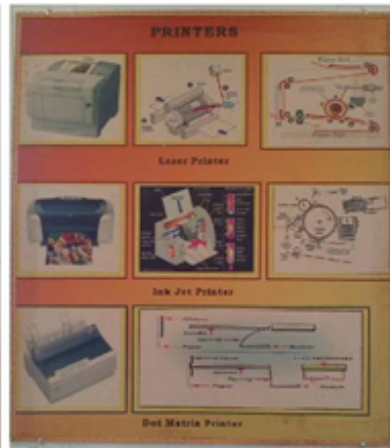
**OSI MODEL**

Layer	Protocol	Device
7. Application Layer User or communication program interface	Protocols: FTP, SMTP, HTTP	Device: Gateway
6. Presentation Layer Data representation and exchange	Protocols: RPC, GIF, GIF89, GIF94	Device: Gateway
5. Session Layer Establish, manage, and terminate the communication session	Protocols: AppleTalk, NetBIOS	Device: Gateway
4. Transport Layer End-to-end communication and error recovery	Protocols: TCP, UDP, SPX	Device: Gateway, Router
3. Network Layer Routing and forwarding of data packets	Protocols: IP, ARP, RARP, ICMP	Device: Router, Bridge, Hub, Switch
2. Data Link (MAC) Layer Transmission and reception of data frames	Protocols: CSMA/CD, Ethernet II, IEEE 802.3	Device: Switch, Bridge, Hub, NIC
1. Physical Layer Transmission and reception of raw bit streams	Protocols: IEEE 802.3, IEEE 802.5	Device: Cable, Repeater

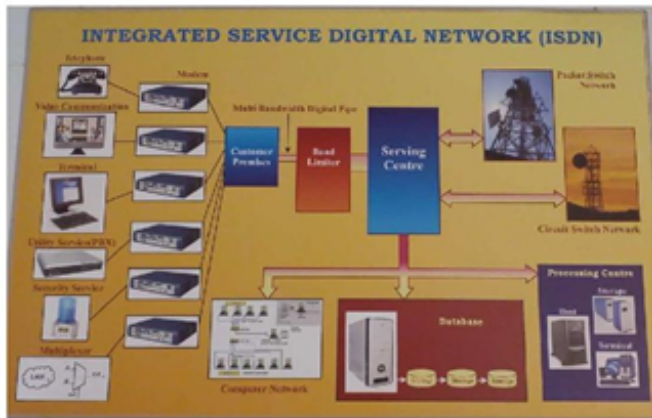
OSI model



Evolution of computer



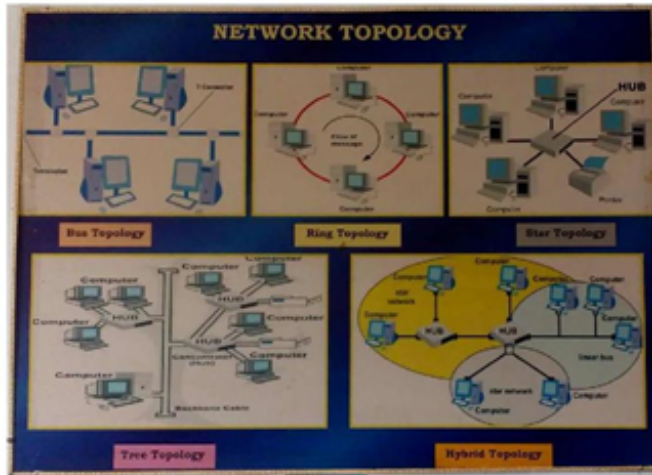
Printers



Integrated service digital network ISDN



Motherboard

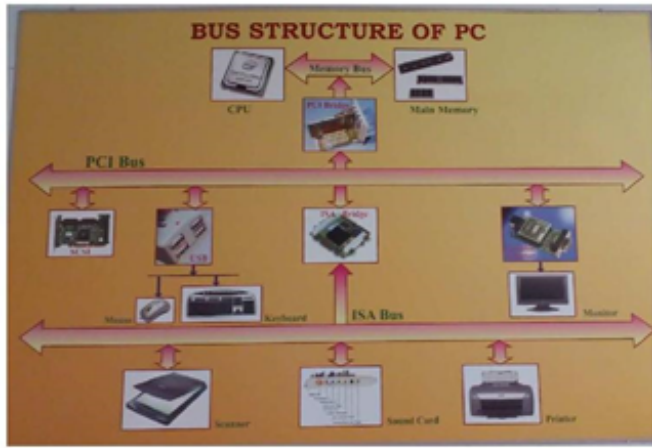


Network topology



Core 2 duo processor





Bus structure of PC



Data storage media

**III. List of Monograms**

1. BKBIET Logo
2. BPTRC (Birla Professional Training & Research Centre) Logo
3. BIC (BKBIET Innovation Centre) Logo
4. IEEE BKBIET Student Chapter Logo
5. ACM BKBIET Student Chapter Logo



BKBIET Logo



BPTRC Logo



BIC Logo



IEEE BKBIET Student chapter Logo



ACM BKBIET Student chapter Logo

**5.7.4 Consultancy(from Industry) (5)**

Institute Marks : 5.00

**2017-18 (CAYm1)**

Project Title	Duration	Funding Agency	Amount
Business Intelligence (BI) Dashboard on Logistics	6 Months	Kesoram Industries	60000.00
ERP-Process & Quality Control	6 Months	Kesoram Industries	50000.00
Wireless Lamp	3 Months	Ultratech	20000.00
Home Automation System	3 Months	Aditya Birla Group	20000.00
Wireless Robo Cart	4 Months	Ultratech	75000.00
			Total Amount(X): 225000.00

**2016-17 (CAYm2)**

Project Title	Duration	Funding Agency	Amount
Lip Synch for Wax Statue in Pilani Gallery	1 Year	Birla Science Centre, Pilani	150000.00
Buggy Car	3 Months	ASME	10250.00
Smart Helmet	6 Months	Aditya Birla Group	175000.00
Finger Print based Attendance System	6 Months	Ultratech	25000.00
			Total Amount(Y): 360250.00

**2015-16 (CAYm3)**

Project Title	Duration	Funding Agency	Amount
E-Guide: An Android Application for Art & Culture Academy	2 Months	Birla Art & Culture Museum, Kolkata	35000.00
Online Journal Publication (IJMOT)	12 Months	University of Nevada, USA	56490.00
Embedded World	1 Month	NITTTTR, Chandigarh	12140.00
Jeevan System	12 Months	Ultratech	175000.00
SPARSH Automation System	12 Months	Aditya Birla Group	200000.00
			Total Amount(Z): 478630.00

Cumulative Amount(X + Y + Z) = 1063880.00

**5.8 Faculty Performance Appraisal and Development System (FPADS) (30)**

Total Marks 30.00

Institute Marks : 30.00

**Faculty Performance Appraisal and Development System**

The assessment of faculty is done on continuous basis with finalization at every academic year. The faculty appraisal is purely based on their performance throughout the year. Team headed by Director, consisting of Principal (Academics), Principal (Administration), Head of the department counsel the faculty during meeting on Annual Confidential Report (ACR).

The first and foremost part of ACR focuses on every individual faculty assessment through **Academic Activity**, that includes:

- University Theory Examination Results, graded A, B or C
- Feedback from students, evaluated through feedback received through CR meetings and feedback from HODs
- Subject Average Attendance, head of the department verifies the same

- Teacher’s Diary, to be verified and assessed by Principal (Academics) and the Director
- Branch Counselor work, evaluated on the basis of performance of students mentored by looking at their attendance, results, discipline etc.
- Subjects taken and Students attended during the academic year

The second part covers **Research, Publication & Skill Enhancement**. It includes:

- Number of UGC approved journals (International), Current year: July to June only
- Number of UGC approved journals (National), Current year: July to June only
- Online course, NPTEL/MOOC/or any other approved by AICTE during July to June of current year
- Organizing various programmes at institute: Conference/FDP/workshop/seminar/industry visit/Exam Cell/ Student Chapter/admission committee etc.
- Seminar or Conference or Workshop or Faculty Development Programme attended
- Paper presentation in Conference
- Expert Lecture at Institute or at outside the Institute

The third part covers, **Extra-Curricular and other Administrative Activities**

- Any other administrative duties assigned, observing the proofs given by individual
- Invigilation duty during sessional examination, data collected from examination cell
- Punctuality, data taken from attendance register
- Contribution in bringing funded projects from outside agency, to be monitored by Principal and Director
- Contribution in Counseling prospective students for Engineering Career
- Social Networking and Personality Development

**Sample of Annual Confidential Report of faculty.**

**B K Birla Institute of Engineering & Technology**

**Annual Confidential Report – Teaching Faculty**

(---SAMPLE---

<b>Name:</b>		<b>Designation:</b>		<b>Contract Period:</b> to	
<b>Gross Pay :</b>		<b>Date of Last promotion:</b>		<b>Previous Designation :</b>	
<b>Particulars</b>	<b>Credit(s)</b>	<b>Expected (Goals)</b>	<b>Actual</b>	<b>Principal</b>	<b>Director</b>
<b>TEACHING (100 Marks)</b>					
<b>University Theory Exam Results</b> (To be verified by HOD) A grade = 1.28 x %result B grade = 1.125 x %result C grade = actual %result	<b>40</b>	90% & Above - 40			
		85% - 89% - 38	Sub.1:		
		80% - 84% - 35	Sub. 2:		
		75% - 79% - 32	Sub. 3:		
		70% - 74% - 29	Sub. 4:		
		65% - 69% - 26	Sub. 5:		
		60% - 64% - 23	Av. :		
		55% - 59% - 20			
		54% - 40% - 20			
		Below 40% - 0			

		<b>Satisfaction Level</b>	Sub.1:		
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<p><b>Feedback from students</b> (To be filled by Principal &amp; Director ) <b>NOTE:</b> It will be evaluated through feedback received through CR meetings and feedback from HODs</p>	<p><b>20</b></p>	<p>90% &amp; Above - 20 85% - 89% - 19 80% - 84% - 18 75% - 79% - 17 70% - 74% - 16 65% - 69% - 13 60% - 64% - 11 55% - 59% - 9 Less than 55% - 7</p>	<p>Sub. 2: Sub. 3: Sub. 4: Sub. 5:  <b>Av. :</b></p>		
<p><b>Subject Average Attendance</b> (Cumulative of theory subjects for complete academic year) (To be verified by HOD)</p>	<p><b>10</b></p>	<p>75% &amp; above = 10 70%-74% = 8 60%-69% = 6 50%-59% = 4 Below 50% = 0</p>	<p>Sub.1: Sub. 2: Sub. 3: Sub. 4: Sub. 5: <b>Av. :</b></p>		
<p><b>Teacher's Dairy</b> (To be filled by Principal &amp; Director )</p>	<p><b>10</b></p>	<p>Timely submission and authenticity of data</p>			
<p><b>Branch Councilor/ Mentor Work/HOD</b> (Attach supporting documents) (To be filled by HOD and Principal) <b>NOTE:</b> This will be evaluated on the basis of performance of students under them by looking at their attendance, results, discipline etc.</p>	<p><b>10</b></p>	<p>Excellent: 10 Good: 8 Fair : 4 Poor: 1</p>			
<p><b>Subject taken &amp; Students attended during academic year</b></p>	<p><b>Max. 10</b></p>	<p>No. Subjects x % students attended x 0.025</p>			
<p><b>RESEARCH , PUBLICATION &amp; SKILL ENHANCEMENT(40)</b></p>					
<p><b>Number of UGC approved journals (International)</b> (Current year: July to June only)</p>	<p><b>5</b></p>	<p>1 or more paper with first author:5 1 or more paper with second author:4 1 or more paper with third author:3 1 or more paper with more than three authors:2</p>			

		<p>1 or more paper with first</p>			
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<b>Number of UGC approved journals (National)</b> (Current year: July to June only)	<b>5</b>	author:5 1 or more paper with second author:4 1 or more paper with third author:3 1 or more paper with more than three authors:2			
<b>Online course (NPTEL/MOOC/or any other approved by AICTE)</b> (Submit proof) (Current year: July to June only)	<b>5</b>	Any ONE			
<b>Organizing various programmes at institute: Conference/FDP/workshop/seminar/industry visit/Exam Cell/ Student Chapter/admission committee etc.</b> (Attach proof)	<b>10</b>	Coordinated any one:10 Sub-committee member 4 : 10 Sub-committee member 3 : 7 Sub-committee member 2 : 5 Sub-committee member 1 : 3			
<b>Seminar/Conference/Workshop/FDP attended</b> (Submit proof)	<b>10</b>	Any 2 attended : 10 Any 1 attended : 6			
<b>Paper Presentation in Conference/Expert Lecture</b>	<b>5</b>	1 or more : 5 1 Presented: 4			
<b>Extra-Curricular and Other Activities (60)</b>					
<b>Other Duties</b> (Attach Proof)	<b>20</b>	Farewell : 3 Quasar : 5 Basant : 5 Fresher's: 3 Other (specify):4			
<b>Invigilation Duty in Sessional Exams</b> (As per data provided by Exam cell)	<b>5</b>	100% duty : 5 If denied for any duty: 0			
<b>Punctuality</b> (To be filled by HOD) <b>NOTE:</b> Data will be taken from attendance register regarding late coming	<b>5</b>	Good: 5 Fair: 3 Poor: 1			
<b>Contribution in bringing funded projects</b>		Performance outcome			

(To be filled by Principal & Director )	5				
<b>Contribution in getting admission in institute</b> (Attach Details) (To be filled by Principal & Director )	20	4 x No. of admissions			
<b>Social Networking</b> (To be filled by Principal & Director )	3	Maintaining healthy interactions with peers and subordinates			
<b>Personality Development</b> (To be filled by Principal & Director )	2	Dress code, behavior, cleanliness etc.			
<b>TOTAL</b>	<b>200</b>				
<b>Leaves availed during the session</b> (Will be filled by institute office)	<b>10 Bonus Marks</b>	Institute may give bonus marks in case faculty has surrendered some leave (unpaid) in favor of institute. NOTE: According to the % of cumulative of CL+PL+ML leaves surrendered. Negative one mark for each LWP	CL: / PL: / ML: / LWP: /		
<b>Admissions</b> (Attach Details) (To be filled by Principal & Director)	<b>2 Bonus marks per admission</b>	Performance outcome			
<b>TOTAL</b>	<b>200</b>				

Signature of Faculty &amp; Date

5.9 Visiting/Adjunct/Emeritus Faculty etc. (10)

Total Marks 10.00  
Institute Marks : 10.00

## B K Birla Institute of Engineering & Technology

### Visiting Faculty / Adjunct Faculty as of May 2019

Sno.	Name	Course taught	Qualifi.	Industry exp	Total Exp
1	Dr C B Gupta	Mathematics	Ph.D	0	40
2	Mr Chetan Joshi	Electronics & Communication	Ph.D	1	1
3	Mrs Divya Vyas	Embedded Systems	M.Tech		6
4	Mr Niranjan Sharma	Information Technology	M.Tech		28
5	Mr Nitesh Kothari	Digital Communications	M.Tech		9
6	Ms Nupur Mittal	Data Minig	Ph.D	1	2
7	Mr Prashant Agarwal	Electrical Engineering	B.Tech		7
8	Dr S Pal	Antenna & Wave Propagation	Ph.D	45	47
9	Mr Sheelendra Prabhat	Information Technology	M.Tech		21
10	Dr V N Dhaulakhandi	Basic Sciences	Ph.D	40	42
11	Mr Shubham Jain	Computer Science	M.Tech		1
12	Mr Kashi Vishwanath	Computer Science	M.Tech		1
13	Mr Nirma Naruka	Computer Science	M.Tech		1
14	Mr Dharmender Singh	Computer Science	M.Tech		1
15	Mr Vikas Poonia	Electrical Engineering	M.Tech		1
16	Mr Akash Maan	Electronics & Communication	M.Tech		1
17	Mr Prakash Choudhary	Electrical Engineering	M.Tech		1
18	Mr Hitesh Walia	Computer Science	M.Tech		1
19	Mr Md Azaz Ahmed	Computer Science	M.Tech		1

6 FACILITIES AND TECHNICAL SUPPORT (80)

Total Marks 80.00

6.1 Adequate and well equipped laboratories, and technical manpower (30)

Total Marks 30.00

Institute Marks : 30.00

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Computer Lab 1 (Programming Lab –I)	30	Desktop Hardware (HCL) – Intel Dual Core 2.8GHZ, HCL Digital Color TFT Monitor 15.6", RAM 2GB, HDD 80 GB, Keyboard & Mouse Desktop Software- Ubuntu, Windows XP, Open Office , Acrobat reader, WinRAR, Java, Argo UML, MySQL, Dev C++, Code::Blocks, Turbo C++ Projector- Panasonic PT-LB51 CCD Camera -01	30 Hrs	Mr. Suresh Kumar	System Analyst	M.Sc.(Tech.)
2	Computer Lab 2 (Programming Lab –II)	30	Desktop Hardware- Intel Dual Core 3.2GHZ Monitor TFT 15.6", RAM 2GB, HDD 500 GB, Keyboard & Mouse Desktop Software- Ubuntu, Windows XP, Open Office , Acrobat reader, WinRAR, Java, Argo UML, MySQL, Dev C++, Code::Blocks, Turbo C++, Projector- 65" Samsung Smart TV CCD Camera -01	30 Hrs	Mr. Jayendra Parmar	Lab Assistant	Diploma (CSE)
3	Computer Lab 3 (DSP/ VLSI Lab)	30	Desktop Hardware- Intel Dual Core 3.2GHZ Monitor TFT 15.6", RAM 2GB, HDD 500 GB, Keyboard & Mouse Desktop Software- Ubuntu, Windows XP, Open Office , Acrobat reader, WinRAR, SciLab, Octave, proteus 8, Keil µvision 5, Model Sim (Student Version), Xilinx (Student Version), Cadence Tool Projector- Panasonic PT-VX400 CCD Camera -01	10 Hrs	Mr. Narayan Kumar	Lab Assistant	MCA
4	Computer Lab 4 (Advanced DBMS Lab)	30	Desktop Hardware- Intel Dual Core 3.2 GHZ Monitor TFT 15.6" RAM 2GB HDD 500 GB Desktop Software- Ubuntu, Windows XP, Open Office , Acrobat reader, WinRAR, Java, NetBeans, Argo UML, StarUML, MySQL, PostgreSQL, HADOOP, R Programming Tool, MSSQL2005, Dev C++, Code::Blocks, Turbo C++ CCD Camera -01	18 Hrs	Mr. Kamlesh Pareek	Lab Assistant	MCA
5	Computer Lab 5 (Project / Web Designing Lab)	30	Desktop Hardware- Intel Dual Core 3.2GHZ Monitor TFT 15.6" RAM 2GB HDD 500 GB Desktop Software- Windows 10, Open Office , Acrobat reader, WinRAR, Java, WAMP, IIS, Argo UML, MySQL, Visual Studio 2010, MSSQL2008, XAMPP, Xamarin Studio, Dev C++, Code::Blocks, Turbo C++ CCD Camera -01	30 Hrs	Mr. Vijendra Kumar Saini	Lab Assistant	B.Tech
6	Computer Lab 6 (Advanced Design Lab)	30	Desktop Hardware-Intel I3 2nd Generation Monitor 15.6" RAM 8GB HDD 500 GB Desktop Software- Windows 10, Open Office Acrobat reader, WinRAR, AutoCAD , Catia, HFSS Java, Argo UML, MySQL, Dev C++, Code::Blocks, Turbo C++	18 Hrs	Mr. Bool Chand Kataria	Lab Assistant	MCA



7	Computer Lab 7 (IoT Lab)	30	Desktop Hardware- Intel Dual Core 3.2GHZ Monitor TFT 15.6" RAM 2GB HDD 500 GB, Arduino Kit, Raspberry Pi Kit, Desktop Software- Linux/Windows 8, Open Office, Acrobat reader, WinRAR, Java, WAMP, Dev C++, Code::Blocks, Turbo C++, IoT Development Boards (Arduino uno, Raspberry Pi), Add on Shields for Development Boards, Wireless Modules, Sensors, Prototyping and Consumables	30 Hrs	Mr. Ankit Lamba	Research Assistant	B.Tech

**6.2 Additional facilities created for improving the quality of learning experience in laboratories (25)**

Total Marks 25.00

Institute Marks : 25.00

Sr. No	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students are expected to have enhanced learning	Relevance to POs/PSOs
1	Lab Room with projector	Fully equipped Class room with LCD projector or 55" Smart TV with the seating capacity of 80 chairs and teaching aids , Fans, Tube Light	Faculties use all interactive modules like videos/ presentations and visually attractive methods of teaching.	30 Hrs. Per Week	Principles of Programming Language, Object Oriented Programming, Software Engineering, Linux & Shell Programming, Java, Advance Java, SQL, Design & Analysis of Algorithms, Compiler Design, Digital Image Processing, Digital Hardware Design, VLSI, Web Development, Mobile Computing, Data Mining & Warehousing etc.	PO1, PO2, PO3, PO4, PO5, PO9, PSO1, PSO2
2	e-journal	IETE Journal of Research, IETE Journal of Education, IETE Technical Review, Indian Journal of Training Development	For training, research and project activities.	Throughout the academic session	Research activity, paper writing. Recent trends in Engineering and software industry Project activity. To know about recent trends in science, Education and Technology.	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PSO1, PSO3
3	Internet Facility	Ethernet/WiFi	Facility to staff and students for enhancing Teaching Learning process	Throughout the academic session	More knowledge apart from curriculum, 24*7 access to learning resources	PO5, PO6, PO8, PSO1
4	Video's From NPTEL, SWAYAM	Video's From NPTEL, SWAYAM	For providing Simple, conventional teaching and much effective methods in area of Science, Engineering and Technology by using Video Lecture from Subject Expert	Throughout the semester	Building deep understanding with expert lectures from subject experts. In depth knowledge beyond curriculum in area of Applied Natural Language Processing, Deep Learning, Computer Vision, Python for Data Science, Spatial Informatics, Machine Learning (ML) and many more	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PSO1, PSO2, PSO3
5	Seminar Hall	Fully equipped seminar hall with Computer, Projector, Well Equipped Audio System. 150 sitting capacity, White Board, Air conditioner, Cushion chair, Speaker, LED light, Podium	To present presentation for research papers/ workshops/ technical talk/ project seminars/ industry interaction. For student meets, Guest Lectures, Expert Talk and conferences	Throughout the semester	To upgrade students to current trends, industry standard. To bridge the gap between academic and industry curriculum.	PO1, PO4, PO5, PO7, PSO3
6	Language Lab	Fully equipped Computer Lab sitting capacity, White Board, chair, LED TV55", Instructor Computer	For the students to improve the way they pronounce the words and be corrected by the teacher whenever necessary	Throughout the semester	Help students to develop good listening skills and aids the process of communication	PO5, PO6, P8, PO10, PO12, PSO3

**6.3 Laboratories: Maintenance and overall ambiance (10)**

Total Marks 10.00

Institute Marks : 10.00

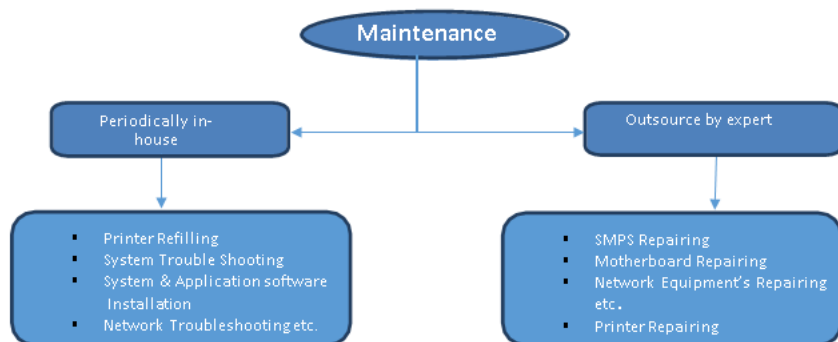
**Laboratories Maintenance**

To maintain the laboratories a departmental committee is constituted headed by head of the department. This committee is responsible for maintenance.

**Procedure:**

- Do's and Don'ts and Safety measures rules are displayed in each laboratory
- Technical Staffs are well trained for maintenance of Hardware, Software and Networking

- Servicing of each laboratory is done frequently
- All necessary software like OS(Windows/ Linux), browser, lab specific software tools, antivirus software etc. are installed and maintained
- Major repairs are outsourced by following the procedure of the institute

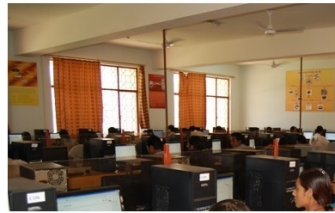


**Figure: Lab maintenance**

### Overall Ambience

Department labs are well equipped and maintained, which are used throughout the year on time-table basis to meet the curriculum requirements.

- Labs are equipped with sufficient hardware and licensed software to run program specific curriculum and off program curriculum
- Department has experienced faculty to educate and train students in different fields of engineering.
- Special introductory session are taken before commencement of practical classes in order to develop honesty during observations and forming conclusions
- Lab facility is provided for all students to carry research work and projects
- Educational posters are hanged on the walls of all the laboratories to provide detailed information about general purpose and complex theoretical methods
- Laboratory furniture is upto the standards and provides proper posture during long practical sessions
- Proper PVC encapsulation of electrical and LAN wires in all laboratories
- Sufficient number of windows are available for ventilation and natural light
- Hygiene is maintained in all laboratories by regular cleaning
- Light and air circulation in all laboratories is adequate
- Window curtains are provided for good visibility
- Periodic maintenance of all lab equipments
- Laboratories are installed with fire extinguisher and first aid box
- Each Lab is equipped with white/black board, computer, Internet, and other basic amenities
- Department having internet of 100 Mbps and Wi-Fi is maintained for students and Faculty usage
- Two separate project lab has been provided for the students to carry out their mini and major project work



Programming Lab - I



Programming Lab - II



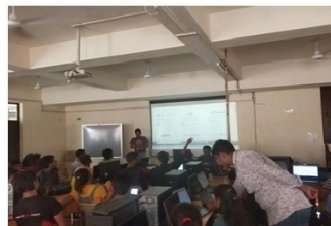
DSP/ VLSI Lab



Advanced Design Lab



Advanced DBMS Lab



Project/ Web Designing Lab



IoT Lab

**6.4 Project laboratories (5)**

Total Marks 5.00  
Institute Marks : 5.00

### Project laboratory

BKBIET has allocated a dedicated building named '**Birla Professional Training & Research Centre**' for research and development activities. A dedicated lab is there exclusively for the project works to be carried out by final year students. To do projects a LAB with 37 systems is assigned to students. A separate lab for projects of IoT is assigned to the students. The lab will be utilized by all the students who are interested to do the projects in house. High speed Internet facility is always available to these systems. The systems can support advanced software which are useful in projects. Dedicated faculties train the students of all branches at this place. The students are given exposures to scientific research and make them industry-ready.

### Research Laboratories – 4 nos

1. BIC Lab- The lab is equipped with internet and basic facilities (Arduino, raspberry pi, microcontroller, solar panels, drone kits, basic boards and all type of sensors etc.) for the students for making their projects with creative ideas.
2. Computer Lab - The lab is equipped with 37 computer with internet facilities for coding & designing, website development, windows and mobile software apps development. 10 of the computers are dedicated for cadence tools to train the students for VLSI and make them ready for placement purpose.
3. Electric Motor and PLC Lab - The lab is equipped various types of Special motors with control panel like Dual Voltage Motor, Brake Motor, Multispeed Motor, Textile motor etc. It also includes practical models of Programmable Logic Controller (PLC) like Allen Bradley Micro Logix 1000, Allen Bradley Mico830 & Genie-NX PLCs etc.
4. Practical & High Voltage Lab – The lab is equipped with different models of industrial induction motors, circuit breakers samples, high voltage transformer oil tester and Schering bridge kit for dissipation loss measurement of insulators.



Project Lab



IoT Lab

### 6.5 Safety measures in laboratories (10)

Total Marks 10.00

Institute Marks : 10.00

Sr. No	Laboratory Name	Safety Measures
1	Computer Lab 1 (Programming Lab –I)	<ul style="list-style-type: none"> <li>• General rules of conduct in laboratories are displayed</li> <li>• If any problem arises with system report it to the lab in- charge</li> <li>• Keep all your files in your google drive before leaving the lab</li> <li>• For any debugging, virus problems consult the programmer for help.</li> <li>• Records and observations are get signed by the concerned staff on the same day or before upcoming lab</li> <li>• Don't leave the lab without correction of your day to day work</li> <li>• Don't insert floppies, CDs and Pen drives without prior permission</li> <li>• Don't share your credential with anyone</li> <li>• Don't forget to turn off your system properly</li> <li>• Ensure that system is not kept on standby mode for long time</li> <li>• Report any broken plugs or exposed electrical wires to your lecturer/laboratory technician immediately</li> <li>• Periodic servicing of the lab equipment</li> <li>• Generator facility for power failure</li> <li>• Maintaining hygiene in laboratory by regular cleaning</li> <li>• Avoiding the use of cell phones</li> <li>• Fire extinguisher is properly installed in Labs</li> <li>• First aid box is kept in the laboratory</li> </ul>
2	Computer Lab 2 (Programming Lab –II)	<ul style="list-style-type: none"> <li>• General rules of conduct in laboratories are displayed</li> <li>• If any problem arises with system report it to the lab in- charge</li> <li>• Keep all your files in your google drive before leaving the lab</li> <li>• For any debugging, virus problems consult the programmer for help.</li> <li>• Records and observations are get signed by the concerned staff on the same day or before upcoming lab</li> <li>• Don't leave the lab without correction of your day to day work</li> <li>• Don't insert floppies, CDs and Pen drives without prior permission</li> <li>• Don't share your credential with anyone</li> <li>• Don't forget to turn off your system properly</li> <li>• Ensure that system is not kept on standby mode for long time</li> <li>• Report any broken plugs or exposed electrical wires to your lecturer/laboratory technician immediately</li> <li>• Periodic servicing of the lab equipment</li> <li>• Generator facility for power failure</li> <li>• Maintaining hygiene in laboratory by regular cleaning</li> <li>• Avoiding the use of cell phones</li> <li>• Fire extinguisher is properly installed in Labs</li> <li>• First aid box is kept in the laboratory</li> </ul>
3	Computer Lab 3 (DSP/ VLSI Lab)	<ul style="list-style-type: none"> <li>• General rules of conduct in laboratories are displayed</li> <li>• If any problem arises with system report it to the lab in- charge</li> <li>• Keep all your files in your google drive before leaving the lab</li> <li>• For any debugging, virus problems consult the programmer for help.</li> <li>• Records and observations are get signed by the concerned staff on the same day or before upcoming lab</li> <li>• Don't leave the lab without correction of your day to day work</li> <li>• Don't insert floppies, CDs and Pen drives without prior permission</li> <li>• Don't share your credential with anyone</li> <li>• Don't forget to turn off your system properly</li> <li>• Ensure that system is not kept on standby mode for long time</li> <li>• Report any broken plugs or exposed electrical wires to your lecturer/laboratory technician immediately</li> <li>• Periodic servicing of the lab equipment</li> <li>• Generator facility for power failure</li> <li>• Maintaining hygiene in laboratory by regular cleaning</li> <li>• Avoiding the use of cell phones</li> <li>• Fire extinguisher is properly installed in Labs</li> <li>• First aid box is kept in the laboratory</li> </ul>

4	Computer Lab 4 (Advanced DBMS Lab)	<ul style="list-style-type: none"> <li>• General rules of conduct in laboratories are displayed</li> <li>• If any problem arises with system report it to the lab in- charge</li> <li>• Keep all your files in your google drive before leaving the lab</li> <li>• For any debugging, virus problems consult the programmer for help.</li> <li>• Records and observations are get signed by the concerned staff on the same day or before upcoming lab</li> <li>• Don't leave the lab without correction of your day to day work</li> <li>• Don't insert floppies, CDs and Pen drives without prior permission</li> <li>• Don't share your credential with anyone</li> <li>• Don't forget to turn off your system properly</li> <li>• Ensure that system is not kept on standby mode for long time</li> <li>• Report any broken plugs or exposed electrical wires to your lecturer/laboratory technician immediately</li> <li>• Periodic servicing of the lab equipment</li> <li>• Generator facility for power failure</li> <li>• Maintaining hygiene in laboratory by regular cleaning</li> <li>• Avoiding the use of cell phones</li> <li>• Fire extinguisher is properly installed in Labs</li> <li>• First aid box is kept in the laboratory</li> </ul>
5	Computer Lab 5 (Project / Web Designing Lab)	<ul style="list-style-type: none"> <li>• General rules of conduct in laboratories are displayed</li> <li>• If any problem arises with system report it to the lab in- charge</li> <li>• Keep all your files in your google drive before leaving the lab</li> <li>• For any debugging, virus problems consult the programmer for help.</li> <li>• Records and observations are get signed by the concerned staff on the same day or before upcoming lab</li> <li>• Don't leave the lab without correction of your day to day work</li> <li>• Don't insert floppies, CDs and Pen drives without prior permission</li> <li>• Don't share your credential with anyone</li> <li>• Don't forget to turn off your system properly</li> <li>• Ensure that system is not kept on standby mode for long time</li> <li>• Report any broken plugs or exposed electrical wires to your lecturer/laboratory technician immediately</li> <li>• Periodic servicing of the lab equipment</li> <li>• Generator facility for power failure</li> <li>• Maintaining hygiene in laboratory by regular cleaning</li> <li>• Avoiding the use of cell phones</li> <li>• Fire extinguisher is properly installed in Labs</li> <li>• First aid box is kept in the laboratory</li> </ul>
6	Computer Lab 6 (Advanced Design Lab)	<ul style="list-style-type: none"> <li>• General rules of conduct in laboratories are displayed</li> <li>• If any problem arises with system report it to the lab in- charge</li> <li>• Keep all your files in your google drive before leaving the lab</li> <li>• For any debugging, virus problems consult the programmer for help.</li> <li>• Records and observations are get signed by the concerned staff on the same day or before upcoming lab</li> <li>• Don't leave the lab without correction of your day to day work</li> <li>• Don't insert floppies, CDs and Pen drives without prior permission</li> <li>• Don't share your credential with anyone</li> <li>• Don't forget to turn off your system properly</li> <li>• Ensure that system is not kept on standby mode for long time</li> <li>• Report any broken plugs or exposed electrical wires to your lecturer/laboratory technician immediately</li> <li>• Periodic servicing of the lab equipment</li> <li>• Generator facility for power failure</li> <li>• Maintaining hygiene in laboratory by regular cleaning</li> <li>• Avoiding the use of cell phones</li> <li>• Fire extinguisher is properly installed in Labs</li> <li>• First aid box is kept in the laboratory</li> </ul>

7	Computer Lab 7(IoT Lab)	<ul style="list-style-type: none"> <li>• General rules of conduct in laboratories are displayed</li> <li>• If any problem arises with system report it to the lab in- charge</li> <li>• Keep all your files in your google drive before leaving the lab</li> <li>• For any debugging, virus problems consult the programmer for help.</li> <li>• Records and observations are get signed by the concerned staff on the same day or before upcoming lab</li> <li>• Don't leave the lab without correction of your day to day work</li> <li>• Don't insert floppies, CDs and Pen drives without prior permission</li> <li>• Don't share your credential with anyone</li> <li>• Don't forget to turn off your system properly</li> <li>• Ensure that system is not kept on standby mode for long time</li> <li>• Report any broken plugs or exposed electrical wires to your lecturer/laboratory technician immediately</li> <li>• Periodic servicing of the lab equipment</li> <li>• Generator facility for power failure</li> <li>• Maintaining hygiene in laboratory by regular cleaning</li> <li>• Avoiding the use of cell phones</li> <li>• Fire extinguisher is properly installed in Labs</li> <li>• First aid box is kept in the laboratory</li> </ul>
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## 7 CONTINUOUS IMPROVEMENT (50)

Total Marks 50.00

## 7.1 Actions taken based on the results of evaluation of each of the POs &amp; PSOs (20)

Total Marks 20.00

Institute Marks : 20.00

## POs Attainment Levels and Actions for Improvement- (2017-18)

POs	Target Level	Attainment Level	Observations
<b>PO 1 : Engineering Knowledge</b>			
PO 1	60	64.38	Attainment achieved.
Action 1: No action was required.			
<b>PO 2 : Problem Analysis</b>			
PO 2	60	60.08	Attainment achieved.
Action 1: No action was required.			
<b>PO 3 : Design/development of Solutions</b>			
PO 3	60	61.23	Attainment achieved.
Action 1: No action was required.			
<b>PO 4 : Conduct Investigations of Complex Problems</b>			
PO 4	60	64.2	Attainment achieved.
Action 1: No action was required.			
<b>PO 5 : Modern Tool Usage</b>			
PO 5	60	64.57	Attainment achieved.
Action 1: No action was required.			
<b>PO 6 : The Engineer and Society</b>			

PO 6	60	66.16	Attainment achieved.
Action 1: No action was required.			
<b>PO 7 : Environment and Sustainability</b>			
PO 7	60	63.58	Attainment achieved.
Action 1: No action was required.			
<b>PO 8 : Ethics</b>			
PO 8	60	48.02	• Students are lagging in real life situations due to lack in ethical moral knowledge.
Action 1: Talk on value added education by Dr. M K Nanda, Professor TITS Bhiwani was organized. Action 2: Meditation session for the students were organized by ISKON devotee. Action 3: Yoga classes are arranged in the morning session for stress free mind.			
<b>PO 9 : Individual and Team Work</b>			
PO 9	60	62.71	Attainment achieved.
Action 1: No action was required.			
<b>PO 10 : Communication</b>			
PO 10	60	62.23	Attainment achieved.
Action 1: No action was required.			
<b>PO 11 : Project Management and Finance</b>			
PO 11	60	62.91	Attainment achieved.
Action 1: No action was required.			
<b>PO 12 : Life-long Learning</b>			
PO 12	60	63.44	Attainment achieved.
Action 1: No action was required.			

### PSOs Attainment Levels and Actions for Improvement- (2017-18)



PSOs	Target Level	Attainment Level	Observations
<b>PSO 1 : The ability to identify, analyze and design solutions for complex engineering problems in multidisciplinary areas by applying the core principles of computer science engineering and allied fields.</b>			
PSO 1	60	62.51	Attainment achieved.
No action required.			
<b>PSO 2 : The ability to achieve programming competency through the use of algorithms and the implementation of standard practices in software project development to deliver quality software products that accomplish industrial needs.</b>			
PSO 2	60	61.92	Attainment achieved.
No action required.			
<b>PSO 3 : Demonstrate ethical behavior in their chosen professions and daily conduct, while working towards the betterment of society and engineering community.</b>			
PSO 3	60	62.46	Attainment achieved.
No action required.			

## 7.2 Academic Audit and actions taken thereof during the period of Assessment (10)

Total Marks 10.00

Institute Marks : 10.00

### Academic Audit

The departments of any institution are the backbone of the core business of any institution where trifocal activities i.e. **teaching, research and placement activities** are conducted. An academic audit reviews the processes and procedures used by departments to enhance the quality of their programs in terms of program objectives and ensure graduate attributes as program outcomes as defined by each department are achieved against the stipulated targets for which standard practices and processes need to be put in place.

### Objectives of Academic Audit

The main objective of an academic audit is to ensure that the departments have put adequate and effective quality assurance mechanisms in terms of strategies, procedures, their applicability to ensure quality inputs and quality outputs. Also their promptness in ensuring continuous improvements along with review of available resources, their optimal utilization, additional resource requirements for providing quality education. The focus area of academic audit is:

- 1] Defining intended Course and Program Outcomes
- 2] Identifying curricular gaps and strategy to bridge the gaps
- 3] Designing effective teaching and learning processes
- 4] Developing and using outcome based student assessment
- 5] Assuring implementation of quality education - significant activities such as research and services, co- curricular and extracurricular activities to support program outcomes

### Methodology:

#### Approach

Institution creates various committees for conduct and review of activities at the institution and department levels. The compositions, functions of the committees are as follows:

#### (a) Institutional Level Committee - Institution Assessment Core Committee (IACC)

##### Composition:

**Chairman:** Head of the Institution

**Special Member:** Principal (Academics) & Principal (Academics)

**Members:** All HODs

##### Functions of Committee :

- Seek timeline and action plan from each department for Direct and Indirect assessment and ensure its compliance.
- Interact with employers/industry/alumni and prepare manpower market analysis.
- Conduct end of semester analysis of results and achievement of POs/PSOs for all departments
- Taking corrective actions and additional inputs for meeting POs/PSOs
- Assessment and revision of PEOs

- Review of Institutional and Departmental Vision and Mission
- Develop faculty appraisal system and assess faculty performance annually.

**(b) Department Level Committees**

**1. Department Advisory Committee (DAC)**

**Composition:**

**HOD:** Dr Nimish Kumar

**Faculty:** Members and especial external members - (Alumni, Industry, Professional Society Representation, some current students).

**Functions of Committee:**

- Review assessment of Course Outcomes and their relationship with POs/PSOs prepared by HODs
- HOD collects recommendations and suggestions and through department advisory committee come out with implementable actions or items points for continuous improvements of POs and PEOs
- HOD presents report to IACC with resource requirements and academic directions

**The Process**

The College management decides the main guidelines of academic audit indicating special reference to investigation to be made about the various practices being followed by the departments. The main emphasis remains on teaching, research and placements. All attempts are made to ensure that continuous growth of all major parameters related to quality of education are achieved. The achievement with specific reference to the plan of action related to PEOs and POs/PSOs are monitored. The college management authorize IACC to conduct the audit and collect information through various records that may include the following:

- Department action plan and targets
- Minutes of departmental meetings of various committees
- Record of content delivery through lectures, practical etc. and
- Result analysis semester/annual of courses in relation to set targets.
- Corrective action taken for further improvement

**Reporting**

The purpose of academic audit is not judgmental but to cause development to happen. The IACC produces a report that describes the strengths and weaknesses of the each departments efforts to improve academic quality of their programs and identify plans for improvements. The main components of the report will be:

- Recognition of Good practice
- Recognition of well performing departments
- Recommendations for improvement

The audit report is presented to the college management and made available to the departments who will be required to respond to the issues raised in the report. The response of the departments will be part of the final audit report.

**Audit Questions**

**1. Defining Intended Course and Program Outcomes:**

- What should a student who successfully completes the program know and be able to do?
- Are the program Educational Objectives (PEOs) of your department aligned to the Mission of the Institution?
- Are the statements of POs/PSOs relevant to the (a) PEOs and (b) curriculum prescribed by the university?
- If the POs and PSOs are not aligned or aligned at the low level, what are the efforts by the department to bridge the gaps?
- How do you ensure that the POs/PSOs align to the requirements of industry/employers?
- How do the POs/PSOs take care of the holistic development of students?
- How are the learning outcomes communicated to staff, students, and external examiners/employers/alumni?
- What is the basis of defining PSOs of your department?
- Did you seek inputs from faculty, students, alumni and industry/employers while developing and improving PEOs, POs/PSOs? If yes, what mechanism did you use?
- Have you developed relevant survey questionnaire/focus group discussions questions to seek such inputs?
- Do you have relevant documentation as evidence for conducting such an exercise
- Are data from such surveys analyzed so that you can justify your decisions in designing and improving PEOs, PO/PSOs and COs?
- What is your planned time frame for seeking inputs on COs, PEOs, POs/PSOs for review, improvements and corrective action through direct and indirect method?

**2. Identifying Curricular Gaps and Strategy to Bridge the Gaps**

- Have you mapped your courses with Program Outcomes (PO)/Program Specific Outcome (PSO)?

- b. What are the major gaps identified by your department with the university curricula?
- c. Is there any PO/PSO that is not addressed at all by university curricula? If yes, provide the PO/PSO? and how do you meet the concerned PO/PSO?
- d. What is your justification of considering courses meeting Program/Course Outcome as low, medium and high?
- e. Do you consider the courses in the university curricula termed, "low" as adequate to meet your program outcome requirements? if your response is yes, give justification. if your response is no, what are the additional inputs you have included in the curricula to bridge the gaps?
- f. Are your courses covering all 6 Cognitive levels of Blooms Taxonomy? if yes, are there sufficient courses that cover higher level skills of Blooms Taxonomy? If no, what is the strategy adopted to include topics, subjects, electives that cover higher levels of Blooms Taxonomy adequately for students to master these skills?
- g. Have you mapped your laboratory experiments to POs/PSOs?
- h. Which level of Blooms psychomotor and affective domain do these cover or not cover adequately? State your strategy to bridge the gaps?
  - i. How do you ensure that the curriculum content enables students to achieve the POs/PSOs?
  - j. How do you ensure that the design and organization of the curriculum is effective in promoting student learning and achievement of POs/PSOs?
- k. How do you ensure that the curriculum content and design is adequately informed by recent developments in pedagogy, research and changes in relevant occupational or professional requirements? Do you have adequate documents/evidence to justify?
  - l. Who do you consult with in identifying curricular gaps and bridging it?
- m. What have you learnt from alumni/exit students and employers/industry?
- n. How do you ensure that there is agreement on the essential elements of the curriculum?
- o. Did you review best practices adopted by other departments in your institution as well as other institutions offering same program?
- p. How do you ensure that curriculum continuously remains updated?
- q. What are the recent changes in your curriculum?
- r. What is the basis for introducing these changes?

### 3. Designing Effective Teaching and Learning Processes

- a. How is teaching and learning organized for students?
- b. What pedagogical approaches are used by faculty to enhance teaching learning?
- c. What strategies are used to stimulate student centric learning in the classroom?
- d. What resources/ICT/learning simulation tools are used in teaching and learning?
- e. How is the quality of teaching maintained and enhanced? How do you ensure that strategies such as effective staff development, peer review, induction and mentoring are used?
- f. How effectively do lecturers use latest technological inputs, research, professional activities in their teaching to fill curricular gaps?
- g. Is there any academic support including handbooks, notes, videos and other written documents provided to students?
- h. How do you evaluate teaching and learning processes on a regular basis?
- i. Do you seek student feedback? How many times do you seek the feedback from Students in a semester?

### 7.3 Improvement in Placement, Higher Studies and Entrepreneurship (10)

Total Marks : 10.00

Institute Marks : 10.00

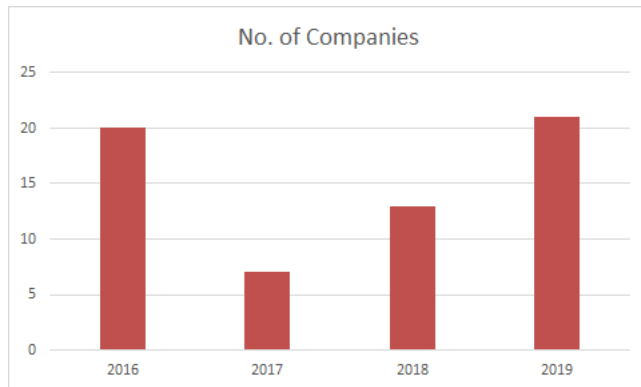
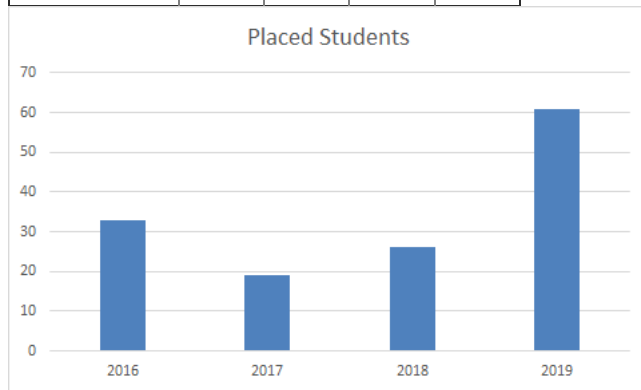
#### Improvement in Entrepreneurship

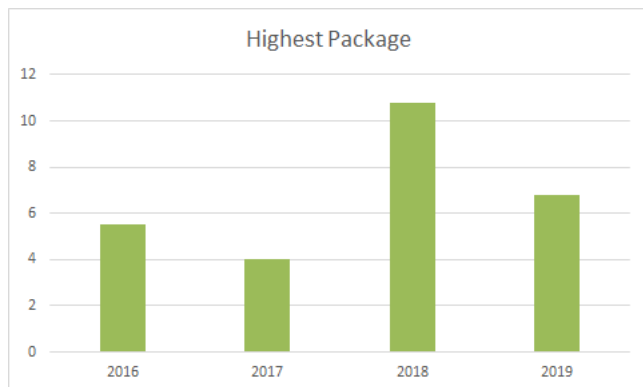
Item	LYG (2014-15)	LYGm1 (2013-14)	LYGm2 (2012-13)
Total No. of Final Year Students(N)	107	110	133
No. of Students Placed in Companies or Government Sector (X)	43	48	68
No. of Students admitted to higher studies with valid qualifying scores (GATE or Equivalent State or National Level Tests, GRE, GMAT, etc.)(Y)	2	7	9

No. of students turned entrepreneur in engineering / technology(Z)	6	4	1
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**On Campus Placement Improvement: number, companies and package**

Batch	2016	2017	2018	2019
Placed Students	33	19	26	61
No. of Companies	20	7	13	21
Highest Package	5.5	4	10.8	6.8





## GATE Appeared Students List:

Session 2017-2018		
S.No	Roll No	Name
1	14EBKCS005	AKASH SHARMA
2	14EBKCS012	ANJANI SUMAN
3	14EBKCS023	DEEPIKA PAREEK
4	14EBKCS026	DHEERAJ PAREEK
5	14EBKCS027	DHEERAJ POONIA
6	14EBKCS043	NANCY AGARWAL
7	14EBKCS051	NISHA SAINI
8	14EBKCS053	NISCHAL VERMA
9	14EBKCS056	PALLAV SHARMA
10	14EBKCS057	PARAS YADAV
11	14EBKCS058	POOJA KUMARI
12	14EBKCS059	POOJA NIRWAN
13	14EBKCS060	RABI JALAN
14	14EBKCS065	PRIYANKA SINGHAL
15	14EBKCS070	RAKHI
16	14EBKCS072	REYA SHARMA
17	14EBKCS076	RISHAB SURANA
18	14EBKCS081	SAGAR DUHAN
19	14EBKCS082	SAGARIKA MIDDHA
20	14EBKCS086	SANJU
21	14EBKCS087	SAPNA CHANEJA
22	14EBKCS089	SHAKSHI TULSIAN
23	14EBKCS090	SHARMILA KUMAR
24	14EBKCS091	SHUBHAM
25	14EBKCS096	SURENDER
26	14EBKCS097	SWATI RAWAT
27	14EBKCS100	UPPMA VIJAY SINGH
28	14EBKCS106	VIRAT SINGH
29	14EBKCS301	DEEPAK AGARWAL



## 7.4 Improvement in the quality of students admitted to the program (10)

Total Marks 10.00

Institute Marks : 10.00

Item		2018-19	2017-18	2016-17
National Level Entrance Examination REAP ( JEE MAINS )	No of students admitted	76	90	79
	Opening Score/Rank	41346	34190	53549
	Closing Score/Rank	1040971	1030579	1107384
State/ University/ Level Entrance Examination/ Others REAP (XII PCM BASE)	No of students admitted	42	36	42
	Opening Score/Rank	85	93	89
	Closing Score/Rank	45	48	46
Name of the Entrance Examination for Lateral Entry or lateral entry details LEEP	No of students admitted	2	4	6
	Opening Score/Rank	68	80	84
	Closing Score/Rank	65	68	69
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		67	70	69

## 8 FIRST YEAR ACADEMICS (50)

Total Marks 46.54

## 8.1 First Year Student-Faculty Ratio (FYSFR) (5)

Total Marks 5.00

Institute Marks : 5.00

Please provide First year faculty information considering load for the particular program

Name of the faculty member	PAN No.	Qualification	Date of Receiving Highest Degree	Area of Specialization	Designation	Date of joining	Teaching load (%)			Currently Associated (Yes / No)	Nature Of Association (Regular / Contract)	Date Of leaving(In case Currently Associated is 'No')
							CAY	CAYm1	CAYm2			
Yogesh Kumar	AEOPG1919A	M.Sc. and PhD		Chemistry	Associate Professor	02/07/2007	46	46	46	Yes	Regular	
Anupama Shar	AKKPA5060E	M.Sc. and PhD		Mathematics	Associate Professor	02/07/2007	15	15	15	Yes	Regular	
Vipin Kumar	AYWPK1113A	M.Sc. and PhD		Mathematics	Associate Professor	15/07/2008	15	15	15	Yes	Regular	
Manusmriti Sh	ESEPS8162L	M.A and Ph.D		English	Associate Professor	01/08/2012	30	30	30	Yes	Regular	
R M Jha	AGOPJ4262H	M.A and Ph.D		English	Associate Professor	01/03/2013	30	30	30	Yes	Regular	
Rashmi Sharr	ANHPJ5573F	M.Phil		Physics	Assistant Professor	01/09/2008	46	46	46	Yes	Regular	
R K Thapliyal	AAZPT4136D	M.E/M.Tech		Electrical Engineering	Assistant Professor	01/04/2013	30	30	30	Yes	Regular	
Jitender Kumar	BRIPK8588H	M.E/M.Tech		Computer Science	Assistant Professor	02/03/2010	24	24	24	Yes	Regular	

Vikram Sharmā	CMCPS1526H	M.E/M.Tech		Computer Science	Assistant Professor	01/07/2013	16	16	16	Yes	Regular	
Bhupendra Kr .	AKSPJ4877E	M.E/M.Tech		Information Technology	Assistant Professor	01/07/2013	38	38	38	Yes	Regular	
Shalini Srivastā	ECOPK5318F	MA		English	Assistant Professor	01/10/2015	30	30	30	Yes	Regular	
Ravindra Kumā	ADOPY5116C	B.E/B.Tech		Mechanical Engineering	Assistant Professor	24/07/2017	30	30	30	Yes	Regular	
Manoj Kataria	AJGPK2681N	M.E/M.Tech		Computer Science	Assistant Professor	01/08/2014	38	38	38	Yes	Regular	
Krishna Meel	AJBPN1644D	M.Sc. and PhD		Physics	Associate Professor	02/07/2007	46	46	46	Yes	Regular	
Disha	BHQPD1180C	M.Sc. and PhD		Chemistry	Associate Professor	01/06/2011	46	46	46	Yes	Regular	
Ujala Nyola	AJBPN1644D	M.Sc. and PhD		Environmental Engineering	Assistant Professor	02/07/2007	0	0	30	No	Contractual	30/06/2018
Deepak Chaur	ANSPC7274N	M.E/M.Tech		Civil	Assistant Professor	01/08/2018	30	30	0	Yes	Contractual	
Bhoomi Shah	DMBPS2298C	M.E/M.Tech		Civil	Assistant Professor	01/08/2018	30	30	0	Yes	Contractual	
Narayan Kuma	DBSPK9571E	MCA		Computer Science	Assistant Professor	01/11/2010	8	8	8	Yes	Regular	
Gopal Pathak	AMZPP0162B	M.Sc		Mathematics	Assistant Professor	03/10/2016	0	0	30	No	Contractual	12/08/2017
Krishna Kumar	DIAPS2346A	M.E/M.Tech		Electrical Engineering	Assistant Professor	10/08/2015	16	16	16	Yes	Regular	

Year	Number Of Students(approved intake strength) N	Number of Faculty members(considering fractional load) F	FYSFR (N/F)	*Assessment=(5*20)/FYSFR(Limited to Max.5)
2016-17(CAYm2)	120	6	20	5
2017-18(CAYm1)	120	6	20	5
2018-19(CAY)	120	6	20	5
<b>Average</b>	120	6	20	5

## 8.2 Qualification of Faculty Teaching First Year Common Courses (5)

Total Marks 5.00

Institute Marks : 5.00



Year	x (Number Of Regular Faculty with Ph.D)	y (Number Of Regular Faculty with Post graduate Qualification)	RF (Number Of Faculty Members required as per SFR of 20:1)	Assessment Of Faculty Qualification [ (5x + 3y) / RF ]
2016-2017	8	8	6	10.00
2017-2018	8	8	6	10.00
2018-2019	7	10	6	10.00

Average Assessment: 10.00

### 8.3 First Year Academic Performance (10)

Total Marks 6.54

Institute Marks : 6.54

Academic Performance	2018-19	2017-18	2016-17
Mean of CGPA or mean percentage of all successful students(X)	6.51	6.35	6.75
Total Number of successful students(Y)	122.00	119.00	121.00
Total Number of students appeared in the examination(Z)	122.00	119.00	121.00
API [X*(Y/Z)]	6.51	6.35	6.75

Average API[ (AP1+AP2+AP3)/3 ] : 6.54

Assessment [ 1.5 \* Average API] : 6.54

### 8.4 Attainment of Course Outcomes of first year courses (10)

Total Marks 10.00

#### 8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5)

Institute Marks : 5.00

##### A. Process for internal Assessment question paper setting and evaluation and effective process implementation:

The Department conducts three internal assessment tests (I Sessional Test, II Sessional Test and Improvement Test). I Sessional test covers first Two Units of the syllabus, II Sessional test covers Last Three Units of the syllabus and Improvement test covers whole syllabus of respective subject.

The tests are conducted for marks as per the university guidelines.

The duration of each test is of Two hours and question paper are set according to the time.

##### Process for Internal Assessment Test Question Paper Setting:

Internal Assessment question papers are set as per the syllabus specified for each test as:

- I Sessional Test -First Two units of syllabus
- II Sessional Test-Last Three Units of syllabus
- Improvement Test- Whole syllabus

For paper setting faculty prepares a question bank. While setting the question paper all previous university exam papers are taken into consideration.

Faculty set the question paper and map with the COs so that after evaluation CO analysis could be done and weak/ strong student in respective CO could be identified to get learning level of each student.

According to level of learning faculty uses Blooms Taxonomy for setting Questions and questions are prepared analyzing the problems, implementation of modern tools, formulating the problems etc. Questions covers analysis, application understanding, evaluation, generation and Recognition.

Faculty considers the adequate toughness level to ensure learning for all type of students, so the questions will be of three categories:

- One third of the questions is straight and can be answered by all students it requires basic course coverage and basic understanding.
- One third of the questions need analysis and use of content covered as per syllabus
- Remaining one third of the questions are not straight. It requires student to gain certain amount of thinking, greater understanding, analysis and mathematical knowledge to resolve.

#### **Procedure for Conduction and Evaluation of Internal Assessment Test:**

The time table for the Internal Assessment Test will be conducted as per academic calendar and the dates are announced and kept in the notice board 10 to 15 days prior to the commencement of the test.

#### **Assignments Setting:**

- Assignment are issued to student to ensure the attainment of objectives and learning levels.
- Assignments are evaluated and feedback is given to the students to improve their learning and appreciate their efforts
- Assignment questions are prepared using Bloom's Taxonomy process.
- Assignment is issued to all students. Bright students (scoring 60% and above in respective COs) get adequate training and average, weak students (scoring below 60% in respective COs) are encouraged to do hard work and improve for better attainment level.
- In order to bridge the gap between institute and industry problems beyond syllabus are also given.
- If a candidate remains absent for all the tests conducted, the Internal assessment marks are marked as "Absent" in the result. Assignments are used as a tool for practice and evaluation is based purely on Internal Assessment Test.

#### **Evaluation:**

##### **Evaluation of Internal Assessment Question Paper:**

- Each faculty prepares scheme of evaluation and also the key for each exam conducted to students. The answer sheets after evaluation will be distributed to students in the class room and discuss the answers with students if there are any grievances, same will be discussed and resolved which will enable them to perform well in the final examination.
- Solution of examination paper is shared to the students through email or hard copy.
- Marks list and Strong/ Weak student analysis report is generated including CO attainment so that weak student (Below 60% in respective CO) are identified and worked on improvement.
- For any genuine reasons, if a student was unable to perform well in the given two internal assessment tests or if they are absent in the tests, improvement test is given to him/her.
- For final assessment marks, average of the best two test is taken.
- Marks list and Strong/ Weak student analysis report is submitted to branch counselor by faculty for counseling of students for result improvement.

#### **Evaluation of Assignments:**

Each faculty prepares scheme of evaluation of Assignments in which weak student (Below 60% in respective CO) in internal assessment test are issued assignments. Assignment is evaluated by the faculty referencing the assignment solution and solution is shared to the students. Extra classes are conducted.

#### **B. Process to ensure questions from outcomes/learning levels perspective:**

- Exam Cell circulates the notice for examination paper submission with the sample examination paper format among the faculty.
- Faculty set the question paper and map with the COs so that after evaluation CO analysis could be done and weak/ strong student in respective CO could be identified to get learning level of each student.
- According to level of learning faculty uses Blooms Taxonomy for setting Questions and questions are prepared analyzing the problems, implementation of modern tools, formulating the problems etc. Questions covers analysis, application understanding, evaluation, generation and Recognition.
- Faculty submit the Examination paper to the Exam cell. Exam cell and Program Assessment Committee assess examination paper quality with CO Coverage and Learning level analysis and validates the question paper. Examination papers with inadequate quality level is sent back to faculty for revision.

#### **Sample of Internal examination question paper:**

## First Sessional Exam Oct, 2018

B.Tech- I Year I Semester (Branch: Computer Science &amp; Engineering)

Time: 2 Hrs Sub: Engineering Chemistry 1FY2-03 Max. Marks: 40

NOTE: 1.First question compulsory, from rest (Q2 to Q7) attempt any four.		
Section - A (2x4)		
Question No.	Questions	COs
Q.1 a	What is hardness & types of hardness?	CO1
b	Define calorific value.	CO2
c	Why hardness is express in terms of CaCO <sub>3</sub> equivalent?	CO1
d	What is carbonization?	CO2
Section - B (8x4)		
Q.2	What is the principle of EDTA method? Briefly describe the estimation of hardness of water by EDTA method.	CO1
Q.3	A sample of water contains the following impurities: Mg (HCO <sub>3</sub> ) <sub>2</sub> = 73mg/l, CaCl <sub>2</sub> = 222mg/l, MgSO <sub>4</sub> = 120mg/l, Mg (NO <sub>3</sub> ) <sub>2</sub> = 148mg/l. Calculate the quantity of Lime (80%pure) and soda (90% pure) needed for softening of 10,000liters of water.	CO1
Q.4	Describe with diagram the construction of bomb calorimeter explain how the calorific value of solid fuel is determined by bomb calorimeter.	CO2
Q.5	Asample of coal was found to contain following % composition by weight=75%, H=5.2%, O=12.1%, N=3.2%, ASH=4.5%. a. Calculate the minimum amount of oxygen & air by weight necessary for complete combustion of 1Kg of coal. b. Calculate the net and gross calorific value of coal sample using Dulong's formula.	CO2
Q.6	What is cracking? Explain with diagram moving bed and fixed bed catalytic cracking.	CO2
Q.7	Write short note on: 1. Scale and sludge 2. Coal gas manufacturing	CO1 CO2

Sample of Weak and Bright Student Analysis report:

B.K. Birla Institute of Engineering &amp; Technology, Pilani

I Sessional Exam Oct, 2018

B.Tech- I Year I Semester (Branch: Computer Science &amp; Engineering)

Sub: Engineering Chemistry 1FY2-03

S.	Enroll. No.	Name	Marks	Total	%Age	Below	Marks	Total	%Age	Below
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No.			Obtained in CO1	Marks of CO1	of CO1	60% in CO1	Obtained in CO2	Marks of CO2	of CO2	60% in CO2
1	18EBKCS001	ABHINANDAN SINGHAL	14	24	58	Yes	13	16	81	No
2	18EBKCS002	ABHISHEK BARGURJAR	11	12	92	No	23	28	82	No
3	18EBKCS003	ABHISHEK COUDHARY	19	20	95	No	13	20	65	No
4	18EBKCS004	ABHISHEK GUPTA	13	16	81	No	16	24	67	No
5	18EBKCS005	ABHISHEK KUMAR	7	8	88	No	13	32	41	Yes
6	18EBKCS006	ABHISHEK SHARMA	9	12	75	No	19	28	68	No
7	18EBKCS007	ABHISHEK SONI	18	24	75	No	13	16	81	No
8	18EBKCS008	ADITI TIWARI	15	20	75	No	11	20	55	Yes
9	18EBKCS009	ADITYA SHARMA	11	12	92	No	24	28	86	No
10	18EBKCS010	AJAY JAKHAR	5	8	63	No	24	32	75	No
11	18EBKCS011	AJAY SINGH	AB	AB	AB	AB	AB	AB	AB	AB
12	18EBKCS012	AKSHITA PANDEY	7	8	88	No	29	32	91	No
13	18EBKCS013	AMAN BHARDWAJ	15	24	63	No	10	16	63	No
14	18EBKCS014	AMIT KUMAR	15	16	94	No	17	24	71	No
15	18EBKCS015	ANANT JAIN	11	12	92	No	20	28	71	No
16	18EBKCS016	ANEESH R I	9	12	75	No	14	28	50	Yes
17	18EBKCS017	ANIKET SINGH	18	24	75	No	10	16	63	No

**Sample List of weak & bright students :**

B K Birla Institute of Engineering &amp; Technology, Pilani

B.Tech- I Year I Semester (Branch: Computer Science Engineering)				
Sub: Engineering Chemistry 1FY2-03				
List of Weak Students in Sessional-1				
S.NO	ENROL NO	NAME	Below 60% in CO1	Below 60% in CO2
1	18EBKCS001	ABHINANDAN SINGHAL	Yes	No
2	18EBKCS005	ABHISHEK KUMAR	No	Yes
2	18EBKCS006	ABHISHEK SHARMA	Yes	No
3	18EBKCS008	ADITI TIWARI	No	Yes

4	18EBKCS014	AMIT KUMAR	Yes	Yes
5	18EBKCS016	ANEESH R I	No	Yes
6	18EBKCS018	ANKIT SHARMA	Yes	Yes
7	18EBKCS022	ANUJ PILANIA	Yes	Yes
8	18EBKCS023	ARPIT KUMAR	Yes	Yes
9	18EBKCS026	ASISH KUMAR	Yes	No
10	18EBKCS041	HEMANT	Yes	Yes
11	18EBKCS044	HIMANSHU SHARMA	Yes	Yes
12	18EBKCS050	KAMAL	Yes	Yes
13	18EBKCS052	KARTIK SONI	Yes	Yes
14	18EBKCS054	KRISHAN KUMAR VERMA	Yes	No

**Sample of Assignment based on sessional:**

## Assignment based on sessional-1

Assignment		CO
Q1.	<p>A. What is hardness &amp; types of hardness? Discuss the EDTA method for determination of hardness of water in detail.</p> <p>B. How will you purify water by using ion exchange resins? Write its advantages.</p> <p style="text-align: center;"><b>OR</b></p> <p>A zeolite softener was completely exhausted and was regenerated by passing 200 liters of sodium chloride solution containing 50gm/liter of NaCl. How many liters of a sample of water of hardness 1000 ppm can be softened by this softener?</p>	<b>CO 1</b>
Q2.	<p>Write a short note on <b>(Any Two)</b> of the following</p> <ol style="list-style-type: none"> <li>Break point chlorination</li> <li>Scale and Sludge formation</li> <li>Boiler Corrosion</li> <li>Caustic Embrittlement</li> </ol>	<b>CO 1</b>
Q3.	Write therequisites of good metallurgical Coke. Describe Otto-Hoffmann's by Product Oven method for the manufacturing of metallurgical coke from coal	<b>CO 2</b>
Q4.	<p>What is Synthetic Petrol.? With the help of diagram, describe Fischer-Tropsch's and Bergius methods for obtaining synthetic Petrol.</p> <p style="text-align: center;"><b>OR</b></p> <p>Define cracking with suitable example. Explain fixed bed and moving bed catalytic cracking with the help of suitable diagram.</p>	<b>CO 2</b>

Q5.	The analytical data of a hard water sample was found as: $\text{CaSO}_4 = 0.4\text{ppm}$ , $\text{MgCO}_3 = 0.44\text{ppm}$ , $\text{CaCO}_3 = 2.00\text{ ppm}$ , $\text{MgSO}_4 = 0.80\text{ ppm}$ , $\text{MgCl}_2 = 0.78\text{ ppm}$ , $\text{SiO}_2 = 2.40\text{ ppm}$ and $\text{NaCl} = 2.50\text{ ppm}$ . Calculate the amount of lime and soda required to softened 5000 liters of water; if the purity of lime and soda is 80%.	CO 1 OR CO 2
	<b>OR</b>	
	A sample of coal having following composition by mass: C = 72%, H = 5%, O = 4%, N = 2%, S =3%, Ash =8% & Moisture =6% Calculate the quantity of air required for complete combustion of 1 Kg. of coal. If 40 % excess air is supplied.	

**Sample Marks List of weak students:**

B K Birla Institute of Engineering & Technology, Pilani				
B.Tech- I Year I Semester (Branch: Computer Science & Engineering)				
Sub: Engineering Chemistry 1FY2-03				
Assignment Marks List of Weak Students in Sessional-1				
S. No.	Enroll. No.	Name	CO1	CO2
1	18EBKCS001	ABHINANDAN SINGHAL	5	5
2	18EBKCS005	ABHISHEK KUMAR	2	2
3	18EBKCS006	ABHISHEK SHARMA	2	1
4	18EBKCS008	ADITI TIWARI	5	5
5	18EBKCS014	AMIT KUMAR	1	2
6	18EBKCS016	ANEESH R I	5	5
7	18EBKCS018	ANKIT SHARMA	5	5
8	18EBKCS022	ANUJ PILANIA	3	2
9	18EBKCS023	ARPIT KUMAR	2	1
10	18EBKCS026	ASISH KUMAR	1	3
11	18EBKCS041	HEMANT	2	2
12	18EBKCS044	HIMANSHU SHARMA	2	1
13	18EBKCS050	KAMAL	1	2
14	18EBKCS052	KARTIK SONI	3	2
15	18EBKCS054	KRISHAN KUMAR VERMA	5	5

**8.4.2 Record the attainment of Course Outcomes of all first year courses (5)**

Institute Marks : 5.00

First Year- CO Attainment			2018-19					Attainment Level>=60				
S. No.	Subject Code	Subject Name	CO1	CO2	CO3	CO4	CO5					
1	1FY2-01	Engineering Mathematics-1	73.76	77.96	72.22	69.14	67.87					
2	1FY2-02	Engineering Physics	79.33	72.60	73.05	75.74	77.60					
3	1FY2-03	Engineering Chemistry	80.24	75.31	82.59	81.24	81.56					
4	1FY1-04	Communication Skill	86.72	87.07	84.34	86.30	83.55					
5	1FY1-05	Human Values	80.85	81.12	75.35	82.02	64.55					
6	1FY3-06	Programming for Problem Solving	68.44	61.00	60.07	-	-					
7	1FY3-07	Basic Mechanical Engineering	78.23	73.26	75.45	71.49	71.09					
8	1FY3-08	Basic Electrical Engineering	65.00	56.52	60.70	62.70	62.70					
9	1FY3-09	Basic Civil Engineering	67.74	65.88	75.86	67.86	74.08					
10	2FY2-01	Engineering Mathematics-II	74.51	75.15	76.20	79.19	72.07					
11	2FY2-02	Engineering Physics	65.21	61.11	51.20	74.97	70.35					
12	2FY2-03	Engineering Chemistry	71.89	73.50	76.05	81.62	80.02					
13	2FY1-04	Communication Skill	85.08	85.47	88.99	88.52	87.21					
14	2FY1-05	Human Values	81.60	81.68	82.56	86.82	67.21					
15	2FY3-06	Programming for Problem Solving	65.70	62.59	59.01	-	-					
16	2FY3-07	Basic Mechanical Engineering	72.81	73.42	75.88	77.78	80.98					
17	2FY3-08	Basic Electrical Engineering	76.29	71.46	73.05	71.33	69.40					
18	2FY3-09	Basic Civil Engineering	72.93	70.77	78.06	77.54	79.95					

**8.5 Attainment of Program Outcomes from first year courses (20)**

Total Marks 20.00

**8.5.1 Indicate results of evaluation of ezch relevant PO and/ or PSO, if applicable (15)**

Institute Marks : 15.00

**POs Attainment:**

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Engineering Mathematics-1	3	2.6	1.8	1.6	2	2.2	1	0	1	0	1	2
Engineering Chemistry	2.6	1.8	1.4	1.6	2	1.6	1.6	0	1	1.6	1.2	2.4
Human Values	1	1	1	1	1	1	3	3	2.8	2.6	1	3
Programming for Problem Solving	3	2.3	2	2	0.3	0.6	1.3	0.2	1	0.3	1.3	1.3
Basic Electrical Engineering	1	1	1	1	1.8	1	1	1	1	1	2.6	3
Computer Aided Engineering Graphics	3	2	2	2.2	1.4	0	0	0	0	0	1	1
Engineering Mathematics-11	3	2	2	0	1	1	1	0	2	1	2	2
Engineering Physics	3	2.6	2.6	2.2	2.8	2.8	2.8	2.8	2.6	2.2	1.6	3
Communication Skill	2.3	1	1	0	1	1.4	0	1	1.6	3	1	2.2
Basic Mechanical Engineering	3	2	2	2	2	2	2	2	2	1	2	2
Basic Civil Engineering	3	2	2	1	2	2	2	2	2	1	2	2
PO Attainment	2.54	1.85	1.71	1.62	1.57	1.56	1.74	1.71	1.7	1.52	1.52	2.17

**PO Attainment Level**

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	2.54	1.85	1.71	1.62	1.57	1.56	1.74	1.71	1.7	1.52	1.52	2.17

**PSOs Attainment:**

Course	PSO1	PSO2	PSO3
Engineering Mathematics-1	3	2	1.6
Engineering Chemistry	2	1.7	1.8
Human Values	1	1	3
Programming for Problem Solving	2.6	2.3	1
Basic Electrical Engineering	1	1	1.6
Computer Aided Engineering Graphics	2.2	1	1
Engineering Mathematics-11	3	2	0
Engineering Physics	3	2.8	3
Communication Skill	1.3	0	1
Basic Mechanical Engineering	2	1	2
Basic Civil Engineering	3	1	2
PSO Attainment	2.19	1.58	1.8

**PSO Attainment Level**

Course	PSO1	PSO2	PSO3
Direct Attainment	2.19	1.58	1.8



**POs Attainment Levels and Actions for Improvement- (2017-18)**

POs	Target Level	Attainment Level	Observations
<b>PO 1 : Engineering Knowledge</b>			
PO 1	60	60.14	Attainment achieved
No action required			
<b>PO 2 : Problem Analysis</b>			
PO 2	60	62.76	Attainment achieved
No action required			
<b>PO 3 : Design/development of Solutions</b>			
PO 3	60	59.17	• I Year curriculum include basic knowledge of Engineering and sciences. • Participation in technical & social activities was less.
Action 1: Students were motivated to improve their participation in technical/social/extracurricular activities. Action 2: Students are motivated to join various Technical Clubs in Institute.			
<b>PO 4 : Conduct Investigations of Complex Problems</b>			
PO 4	60	51.75	• Participation in technical activities was less. • Use of E resources was less. • Students have less understanding of complex problems and its investigation.
Action 1: Participation in technical activities was increased by mentoring & motivation. Action 2: Workshops are conducted to give the hands on experience to students and faculty. Action 3: They are motivated to use E Resources and register themselves in online courses.			
<b>PO 5 : Modern Tool Usage</b>			
PO 5	60	61.58	Attainment achieved
No action required			
<b>PO 6 : The Engineer and Society</b>			
PO 6	60	60.83	Attainment achieved
No action required			
<b>PO 7 : Environment and Sustainability</b>			
PO 7	60	51.53	• Less awareness of students about the issues related to global and environmental sustainability.
Action 1: Students are encouraged to indulge in projects in which global and environmental issues are improved. Action 2: The activities related to environment and sustainability are organized			
<b>PO 8 : Ethics</b>			
PO 8	60	42.97	• The students were reluctant to bear upon a responsibility in the competitive activities. • Moreover, some of the students were found to be casual in their conduct.
Action 1: As far as professional conduct and behavior is concerned the students were made to attend anti ragging, seminars, interactive talks on personal conduct and behavior with eminent advisors in the college. Action 2: The College has a well established spiritual cell which encourages students to experience professional life with high moral conduct and spirituality.			
<b>PO 9 : Individual and Team Work</b>			
PO 9	60	58.31	• Team activities should be included in regular practice.
Action 1: The team activities like Group discussions, quizzes etc., technical events and coordinating for various events in annual etc.			

**PO 10 : Communication**

PO 10	60	54.50	• The students are unable to express their views on public platform.
Action 1: In order to address this issue, the groups of students are asked to prepare and give power point presentations on the topics within the curriculum as well as the beyond the curriculum. Action 2: They are encouraged to participate various competitions to enhance their communication skills.			

**PO 11 : Project Management and Finance**

PO 11	60	57.00	• I Year students are not involved in project management and finance, but they can learn the basics by participating in other activities organized in college.
Action 1: Annual Project exhibition is organized in the college where 1 year students participate learn the basics of project handling and finance.			

**PO 12 : Life-long Learning**

PO 12	60	62.65	Attainment achieved
No action required			

**PSOs Attainment Levels and Actions for Improvement- (2017-18)**

PSOs	Target Level	Attainment Level	Observations
<b>PSO 1 : The ability to identify, analyze and design solutions for complex engineering problems in multidisciplinary areas by applying the core principles of computer science engineering and allied fields.</b>			
PSO 1	60	62.94	Attainment achieved
No action required			
<b>PSO 2 : The ability to achieve programming competency through the use of algorithms and the implementation of standard practices in software project development to deliver quality software products that accomplish industrial needs.</b>			
PSO 2	60	52.31	• Adequate technical knowledge and skills
Action: Students are adept in demonstrating the acquired knowledge in real life situation while confronting software and hardware snags.			
<b>PSO 3 : Demonstrate ethical behavior in their chosen professions and daily conduct, while working towards the betterment of society and engineering community.</b>			
PSO 3	60	55.65	• Efficient application of theory into practice
Action: Students are motivated to participate in real time projects thereby learnt to handle problems in engineering fields.			

**9 STUDENT SUPPORT SYSTEMS (50)**

**Total Marks 50.00**

**9.1 Mentoring system to help at individual level (5)**

**Total Marks 5.00**

**Institute Marks : 5.00**

**Mentoring System to Help at Individual Level**

Role of a Mentor

- 1] Mentors work with students and parents to help guide students **academic, behavioral** and **career** growth. Maintain strong and healthy relationship between mentors and mentees.
- 2] To guide and support the students for their career enhancements for their overall development.
- 3] To maintain all the records of student attendance, marks, assignments and all curricular activities to encourage the students.
- 4] Collective and collaborative approach for resolving the student's problems.

- 5] Conducting regular meetings.
- 6] Regular communication with the parents.
- 7] Special attention to the weak/Hindi medium students by arranging extra class.
- 8] Counseling students to attend **seminar, conferences, professional and personal** development trainings organized by different chapters (IEEE, ACM, IETE, IEL, ASME, NSS, NIRMAN etc...).
- 9] Maintain profile of students from first year and analyze overall growth till fourth year.
- 10] If student feels homesick, then the mentors provide congenial environment to students.

(A faculty mentor is assigned a group of 20 students to deal with their problems)

#### Other Area of Guidance

In addition to the regular course work of teaching learning process of practical and theory, each mentor works in the direction for the overall development of the student. Some of the key area in which they focus over the students is :

**Professional Guidance:** The Industry Institute Partnership cell and Entrepreneurship development cell have been putting efforts in this direction to make the students professionally very strong and competent.

**Career advancement:** The Training and Placement cell has been active not only in arranging campus recruitment drives, but also offering awareness and training for the students as per the requirements of the companies.

**All Round Development of Student:** In addition to academics, the college puts forward efforts to realize total development of the student in the area of: literary, cultural , sports, decision making abilities, team spirit, precision, analytical capabilities, socio-psychological awareness etc. to offer leadership qualities among the students to stand different from the crowd of technocrats . Students are given opportunity to organize , manage , bring sponsorships to support college activities like : BASANT (annual cultural fest), QUASAR (annual techno-sports fest), VIBES (technical fest of IEEE BKBIET), ARDINADO( technical fest of ACM BKBIET), freshers , farewell and many such functions in a calendar year.

#### Efficiency of Mentoring System

- 1] The system develops an interaction among the students, teachers and parents.
- 2] The system helps to improve the academic performance of the students.
- 3] The system provides scope for healthy , positive and stress free state of mind.

#### **Branch Mentor List (2018-19)**

##### First Year

Branch Name	Branch Mentor	Branch Mentor
Electronics & Communication Engineering	Mr Sashikant Sharma (9929694663)	Ms Rashmi Sharma (9829511800)
Electrical Engineering	Dr Smita Pareek (9414790438)	Mr Manish Kumar (9416817165)
Computer Science Engineering-I	Ms Ruch Sharma (9571552166)	Ms Anupam Sharma (9887341416)
Computer Science Engineering-II	Mr Vipin Sarogi (9414402837)	Dr Vipin Kumar (9784533320)
Mechanical Engineering-I	Mr. D.C.Sharma (9413565645)	Ms Krishna Meel (9352662132)
Information Technology	Mr Ankit Sharma (8107142345)	Dr R M Jha (9024687213)

##### Second Year

Branch Name	Branch Mentor	Branch Mentor
Electronics & Communication Engineering	Ms Monika Shekhawat	Ms S Ananthi
Electrical Engineering	Mr Krishan Kr Saini	Mr Vikas Poonia
Computer Science Engineering-I & IT	Mr. Bhupendra Jangid	Mr. Sanjeev Sultania
Computer Science Engineering-II	Mr. Rakesh Saini	Mr. Vikas Kumawat
Mechanical Engineering-I	Mr Ravindra Yadav	

**Third Year**

Branch Name	Branch Mentor	Branch Mentor
Electronics & Communication Engineering	Mr Gaurav Sahu	Mr Rahul Runthla
Electrical Engineering-I	Mr Satish Kr Rai	Mr Aashish Ranjan
Electrical & Electronics Engineering	Mr Praveen Kumar	Mr Anuj Sharma
Computer Science Engineering-I and IT	Mr Ramakant Soni	Ms. Reena Saini
Computer Science Engineering-II	Dr. Sonam Mittal	Mr. Manoj Kr. Saini
Mechanical Engineering-	Mr. Naveen Sharma	Mr Himanshu Gupta

**Fourth Year**

Branch Name	Branch Mentor	Branch Mentor
Electrical Engineering-I	Mr Vikas Kumar	Mr Dinesh Kumar
Electrical Engineering-II & EX	Mr R S Shekhawat	Dr Hasibur Rehaman
Electronics & Communication Engineering	Mr Praveen Sharma	Dr Manoj Pandey
Computer Science Engineering-I & IT	Mr Himanshu Verma	Mr. Pradeep S. Shekhawat
Computer Science Engineering-II	Mr Gopal Kr. Prajapat	Mr. Gauttam Jangir
Mechanical Engineering- I	Mr Divesh Rohilla	
Mechanical Engineering- II	Mr Chitranjan Kumar	

**Branch Mentor List (2017-18)****First Year**

Computer Science – I A	Dr. Ravi Prakash Sharma
Computer Science – I B	Dr. Ujala Nyola
Computer Science – II A	Dr. Y. K. Gupta
Computer Science – II B	Mr. Keshav Khandelwal
Electronics & Communication – I A	Ms. Manumriti Sharma
Electronics & Communication – I B + IT	Mr. Rashmi Jangid
Electrical – I A	Ms. Shalini Shrivastav
Electrical – I B	Ms. Anupama Sharma
Electrical – II A	Dr . Krishana Meel

Electrical – II B + Electrical & Electronics	Dr. Disha Meel
Mechanical I A	Dr. R. M. Jha
Mechanical I B	Mr. Krishan Kumar Saini
Mechanical II A	Mr. R. K. Thapliyal
Mechanical II B	Dr. Vipin Kumar

**Second Year**

Branch Name	Branch Counselor Name
Electronics & Communication Engineering	Mr Sanjay K Saini & Ms Garima Rungta
Electrical Engineering+EX	Mr. Bhupendra Jangid & Mr. Vikas Kumawat
Computer Science Engineering-I	Dr. Vipin Kumar & Mr. Monika Jangir
Computer Science Engineering-II & IT	Mr. Manoj Kataria & Mr. Sanjeev Sultania
Mechanical Engineering-I	Mr. Vikram Bhatia & Mr. Himanshu Gupta
Mechanical Engineering-II	Dr. A.K. Malik & New Mech. Faculty

**Third Year**

Branch Name	Branch Counselor Name
Electronics & Communication Engineering	Mr Vikas Poonia & Mr Vishnu Jindal
Electrical Engineering-I	Mr. Satish Kumar Rai & Ms. Jyoti Purohit
Electrical Engineering-II	Dr. Manoj Pandey & Ms. Monika Shekhawat
Electrical & Electronics Engineering	Ms. Smita Pareek & Mr. Gaurav Sahu
Computer Science Engineering-I	Dr. Sonam Mittal & Mr. Manoj K Saini
Computer Science Engineering-II and IT	Mr. Himanshu Verma & Ms. Reena Saini
Mechanical Engineering-I	Mr. D.C. Sharma & Mr. Chitranjan
Mechanical Engineering-II	Mr. Divesh Rohilla & Mr. Naveen Kumar

**Fourth Year**

Branch Name	Branch Counselor Name
Electrical Engineering-I	Mr. Vikas Kumar & Mr. Ashish Ranjan
Electrical Engineering-II	Mr. R. S. Shekhawat & Dr. H. Rahaman
Electrical & Electronics Engineering-I	Mr. Buddhi Prakash Sharma & Mr. Dinesh Kumar
Electronics & Communication Engineering	Mr. Praveen Sharma & Mr. Shasikant Sharma
Computer Science Engineering-I	Mr. Gopal Krishan Prajapat & Mr. Gauttam Jangir
Computer Science Engineering-II	Dr. Nimish Kumar & Mr. Pradeep S. Shekhawat
Information Technology	Dr. Nimish Kumar & Mr. Pradeep S. Shekhawat

**Branch Counselors (2016-17)****First Year**

Computer Science – I A	Dr. Ravi Prakash Sharma
Computer Science – I B	Dr. Ujala Nyola
Computer Science – II A	Dr. Y. K. Gupta
Computer Science – II B	Mr. Keshav Khandelwal
Electronics & Communication – I A	Ms. Manusmriti Sharma
Electronics & Communication – I B + IT	Mr. Rashmi Jangid
Electrical – I A	Ms. Shalini Shrivastav
Electrical – I B	Ms. Anupama Sharma
Electrical – II A	Dr . Krishana Meel
Electrical – II B + Electrical & Electronics	Dr. Disha Meel
Mechanical I A	Dr. R. M. Jha
Mechanical I B	Mr. Krishan Kumar Saini
Mechanical II A	Mr. R. K. Thapliyal
Mechanical II B	Dr. Vipin Kumar

**Second Year**

Computer Science – I A	Mr. Gauttam Jangid
Computer Science – I B	Mr. Sanjeev Sultania
Computer Science – II A	Ms. Garima Rungta
Computer Science – II B + IT	Mr. Jitendra Kumar
Electronics & Communication – I A	Ms. S. Ananthi
Electronics & Communication – I B	Mr. Sanjay Kumar Saini
Electrical – I A	Dr. Vipin Kumar
Electrical – I B	Ms. Chanchal Jakhodia
Electrical – II A	Mr. Ramesh Jangid
Electrical – II B + Electrical & Electronics	Mr. Vikas Kumawat
Mechanical I A	Mr. C. B. Roy
Mechanical I B	Mr. Himanshu Gupta
Mechanical II A	Mr. Vikram Bhataiya
Mechanical II B	Mr. P. S. Shekhawat

**Third Year**

Computer Science – I A	Mr. Ramakant Soni
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Computer Science – I B	Ms. Reena Saini
Computer Science – II A	Ms. Ruchi Sharma
Computer Science – II B + IT	Mr. Manoj Kumar Saini
Electronics & Communication – I A	Mr. Vikas Poonia
Electronics & Communication – I B	Mr. Vishnu Jindal
Electrical – I A	Mr. Satish K. Rai
Electrical – I B	Ms. Monika Shekhawat
Electrical – II A	Ms. Smita Pareek
Electrical – II B	Mr. Dinesh Kumar
Electrical & Electronics I A	Mr. Gaurav Sahu
Electrical & Electronics I B	Mr. Bhupendra Jangid
Mechanical I A	Mr. D. C. Sharma
Mechanical I B	Mr. C. R. Rao
Mechanical II A	Mr. Divesh Rohilla
Mechanical II B	Mr. Naveen Kumar

**Fourth Year**

Computer Science – I A	Mr. Nimish Kumar
Computer Science – I B	Mr. Manoj Saini
Computer Science – II A	Mr. Gopal K. Prajapat
Computer Science – II B + IT	Mr. Himanshu Verma
Electronics & Communication – I A	Mr. Santosh Jangid
Electronics & Communication – I B	Mr. Shashikant Sharma
Electronics & Communication – II A	Mr. Praveen Sharma
Electronics & Communication – II B	Dr. Kulwant Singh
Electrical – I A	Mr. Sandeep Soni
Electrical – I B	Ms. Jyoti Purohit
Electrical – II A	Mr. R. S. Shekhawat
Electrical – II B	Dr. Hasibur Rahaman
Electrical & Electronics I A	Mr. Buddhi Prakash Sharma
Electrical & Electronics I B	Mr. Ashish Ranjan
Electrical & Electronics II A	Mr. Vikas Kumar
Electrical & Electronics II B	Mr. Praveen Kumar

**MCA**

MCA III Yr	Mr. Rakesh saini
MCA II Yr	Mr. Akangsha Bhatnagar
MCA I Yr	Mr. Dhanesh Matolia

**Mentors Report**

Year: Second Year / Third Semester

**Mentors: Ms Ruchi Sharma, Mr Manoj Kataria, Mr Dhanesh Matolia**

S No	Name	I Sessional Marks						Attendance (%)						Initiative taken by Mentor		
1	ABHINANDAN SINGHAL	15	9	3	11	15	8			55	40	47	48	55	52	Inform to parents , They are already aware with situation and already met subjects teachers and HOD
2	ABHISHEK BARGURJAR	17	12	8	10	3	9			60	60	79	62	57	68	Inform to parents , They talk to Abhishek & then come to institute to meet
3	ABHISHEK SHARMA	15	9	7	7	4	6			79	83	82	78	78	88	Inform to mother , She is also working and come to meet us for the same
4	AMAN BHARDWAJ	8	11	5	0	A	A			47	40	39	48	41	48	Inform to mother , already aware about everything and also informed that he went for his INDIAN NAVY EXAM that why he got failed ... for future he will work hard
5	ANIKET SINGH	12	11	11	5	5	3			53	77	61	57	57	56	inform to parents , They talk to Aniket & then come to institute to meet us on 27/9/19
6	ANKIT SHARMA	7	11	8	8	13	10			60	70	74	70	65	68	inform to parents , They talk to Ankit & not interested in B tech dont want to persue b tech .They will come to institute to meet with in 10 days
7	ANSHUL MANDRELIA	14	13	4	10	20	4			50	67	42	44	57	54	Inform to parents , They talk to ANSHUL & try to recover the marks in two subjects



8	ANUJ PILANIA	15	11	10	9	11	6			82	83	82	83	82	80	Inform to parents , They will talk to Anuj to recover the marks ... also come once to meet.
9	ASISH KUMAR	8	13	4	6	3	4			60	70	64	63	59	68	Inform to parents , They will talk to Ashish & try to recover the marks in all four subejcts subjects .They will come to institue to meet with till 3rd oct
10	CHETAN PUJARI	14	14	11	2	7	9			61	63	58	63	53	64	Inform to parents , They will talk to Chetan & try to recover the marks in all three subejcts subjects .They will come to institue to meet with till 3rd oct
11	DEEPIKA SHARMA	15	13	9	8	13	UF			53	60	58	57	55	62	Inform to parents , They will talk to deepika and take action accordingly ... also come once to meet .
12	DEVANG VIJAY	10	13	9	6	5	8			63	67	77	62	71	62	Inform to parents , They will talk to Devang to recover the marks ... also come once to meet .
13	GOURAV LOHIYA	15	13	4	4	7	A			77	87	76	78	69	62	Inform to parents , They will talk to Gourav to recover the marks .
14	HEMANT	A	A	A	A	A	12			73	73	80	79	82	84	Inform to parents , They will talk to Hemant to recover the marks ... also come once to meet .
15	HIMANSHU SHARMA	8	13	9	7	9	A			53	77	56	57	49	52	Inform to parents , They will talk to Himanshu to recover the marks ... Had not given last exam as he had fevere ....Facing health problem ... also come once to meet .
16	KAMAL	13	13	12	9	5	3			77	60	77	79	78	78	Inform to parents , They will talk to Kamal to recover the marks ...
17	KUNAL SHARMA	19	13	7	11	14	13			60	73	65	70	57	66	Inform to parents , They will talk to Kunal to recover the marks ...

18	MAHESH	10	11	4	8	8	4			57	67	67	60	57	64	Inform to parents , They will talk to Mahesh to recover the marks ...
19	MANAL SWAMI	14	14	0	7	8	11			57	73	67	65	53	64	Inform to parents , They will talk to Devang to recover the marks ... also come once to meet & father made request to talk hismother to resolve the issue

**Mentors: Mr Vipin Saraogi, Mr Vikas Kumawat**

S No	Name	I Sessional Marks	Attendance (%)	Initiative taken by Mentor
1.	MANTHAN JITAWAT	2(oop) 2(DE) 5(SE) 3(DSA)	48 15.79 27 43	Talked to father several times. Student is patient of asthma.
2.	MAYANK GAUR	2(DE)	70.18	went to jaipur for Red Hat certification exam. Not given sessional.
3.	NAKUL SINGH SHEKHAWAT	5(oop) 7(AEM) 5(DE) 3(SE) 1(DSA)	55 31 66.67 69 60	Hospitalization of grand father and finally expired, enable to concentrate on studies.
4.	NARENDRA KUMAR SARDA	5(oop) 3(DE) 7(DSA)	68 59 62	Talked to Father and personally met with uncle. Uncle promised that he will improve.
5.	NAVIN KUMAR	AB(TC)	51.77	went to jaipur for Red Hat certification exam. Not given sessional.
6.	NEHA SWAMI	1(oop) 3(DE)	55 61.4	medical case went to jaipur for treatment regularly.
7.	NIKUNJ HIMMATRAMKA	7(oop) 0(SE)	68 73	Talked to father regarding sessional marks. Assures his son will perform well in coming exams.
8.	NITIN NAGWAN	0(SE)	73	Went to jaipur for Red Hat certification exam. Not given sessional. Not attended classes in start due to that attendance is short.

9.	<b>PRAKASH KUMAR SINGH</b>	5(DE) 6(DSA)	26.32 31	Talked to parents several time. Continous monitoring of student under the guidance of solanki sir
10.	<b>PRERNA KAMAT</b>	5(DE) 5(SE) 4(DSA)	91.23 92 88	personally met with parents. Assued she will perform in next exam.
11.	<b>PRIYANKA</b>	5(oop) 7(DE) 6(DSA)	75 80 76	Talked to father regarding sessional marks. Assures his son will perform well in coming exams.
12.	<b>PRIYANSHU</b>	7(DE) 7(SE) 7(DSA)	33 39 40	Talked to parents several time. Continous monitoring of student under the guidance of solanki sir
13.	<b>PUNEET KHINCHI</b>	7(oop) 6(DE)	95 91	Talked to father. Will improve.
14.	<b>RAVI SWAMI</b>	7(oop) 3(DE) 6(SE) 7(DSA)	71 64.91 71 74	Talked to father regarding sessional marks. Assures his son will perform well in coming exams.
15.	<b>REKHA KUMARI</b>	5(oop) 5(SE)	93 92	Talked to father regarding sessional marks. Assures his son will perform well in coming exams.
16.	<b>ROHIT JAKHER</b>	4(oop) 4(AEM) 2(DE) 1(DSA)	55 28 45.61 52	Talked and personally met to father and HOD sir. Busy in government exams. Done regular monitoring of student.
17.	<b>SAHIL GOYAL</b>	5(DSA)	79	Talked to father regarding sessional marks. Assures his son will perform well in coming exams.
18.	<b>SAMEER KHAN</b>	5(oop) 5(DE)	89 78.95	Got Scholarship from JMA. Talked to father student will improve.
19.	<b>SANDEEP</b>	3(oop) 5(DE) 7(DSA)	38 24.56 33	Talked to parents several time. Continous monitoring of student under the guidance of solanki sir
20.	<b>SAURABH SINGH</b>	5(DSA)	71	Medical Case. Joundise not attended classes for 3 Months.

21.	SHUBHAM SINGHAL	1(TC)	18.182	Talked to parents several time. Continous monitoring of student under the guidance of solanki sir
		5(oop)	34	
		3(AEM)	17	
		2(DE)	31.58	
		0(SE)	39	
22.	SOURABH PANDEY	3(oop)	57	Known to HOD sir. Personaly met Father. Will improve in rest exams.
		6(SE)	69	
23.	SURYA PRAKASH	5(TC)	24.242	Talked to parents several time. Continous monitoring of student under the guidance of solanki sir
		3(oop)	68	
		6(AEM)	32	
		0(DE)	50.88	
		0(DSA)	53	
24.	TAPISH CHOURSIYA	3(DE)	59.75	Talked to father regarding sessional marks. Assures his son will perform well in coming exams.
25.	UMMED SINGH	4(oop)	66	Talked to father regarding sessional marks. Assures his son will perform well in coming exams.
		5(DE)	57.89	
		7(DSA)	57	
26.	VAIBHAV VYAS	2(DE)	52.63	Talked to father regarding sessional marks. Assures his son will perform well in coming exams.
27.	VIJYA SHARMA	6(DE)	57.89	Talked to father. Will improve.
28.	VINAY SAROLIA	5(oop)	57	Talked to Mother several times. Will improve
		1(DE)	45.61	
		0(DSA)	52	

**Mentor: Mr Ankit Sharma**

S No	Name	I Sessional Marks	Attendance (%)	Initiative taken by Mentor
2	HEMANT SHARMA	5(DE)	53.3	Informed parents.
3	HRITIK SHARMA	5(AM)	32.3	Talked to parent, asked to console and inform
		0(DE)	39.39	
		0(DSA)	34.92	
		0(OOP)	30.61	
4	KUMKUM JANGIR	0(SE)	36	Medical case talked to parents
		4(OOP)	73	
		4(SE)	74	

5	NEKHA	5(OOP)	79.5	Informed parents.
6	PARIKSHIT SINGH BHATI	2(DE) 2(DSA) 1(OOP) 5(SE)	45 41 38 48	Switched off phone.
7	POOJA MAHLA	1(OOP)	83.6	Informed parents.
9	PRIYANK SHARMA	3(DE) 7(DSA) 6(OOP)	62 68 63	Incoming stopped. Called student. No contact. Asked friend to make him meet.
10	RAJNEESH KUMAR MISHRA	4(AM) 3(DSA) 1(OOP) 4(SE)	55 60 51 50	Parents not picking up phone. Called student and consoled.
14	SACHIN CHOUDHARY	1(DE) 3(OOP)	84 81	Informed father, asked to console the ward.
15	SANJEEV KUMAR JANGID	7(DE) 7(DSA) 5(OOP)	79 65 69	Talked to mother, knows marks, student will do go in next exam
16	VIRENDRA SINGH NARUKA	3(DE) 3(DSA) 1(OOP)	74 74 73	Talked to father, will talk to son and consoled

Year: Third Year / Fifth Semester

**Mentors: Mr Bhupendra Jangir, Ms Reena Saini, Mr Nachiket Sainis**

S No	Name	I Sessional Marks Marks(Subject)	Attendance (%)	Initiative taken by Mentor
1	ABHISHEK SHARMA	6 (CD)	59	Called parents
2	AKASH SHARMA	5 (ITC), 5(CG)	27,12	Called parents & meeting
3	ANUJ SHARMA	4(CD), 6(OS), 7(CG)	78, 78, 71	Called parents
4	ARCHIT DADA	6(CD), 6(AA)	79, 59	Called parents
5	ARPIT YADAV	7(OS),	81	Called parents & meeting

6	CHINMAY SAHAL	4(HCI)	79	Called parents
7	DEEPAK	3(HCI)	92	Called parents
8	DIKSHA PANWAR	5(ITC), 6(CD)	83, 76	Called parents & meeting
9	DINESH KUMAR SAINI	0(CD), 3(OS), 3(AA), 0(HCI)	38, 39, 44, 50	Called parents
10	DIPANSHU KUMAR MAHLA	2(CD), 6(CG), 3(HCI)	24, 37, 29	Called parents
11	DOVESH YADAV	7(CD), 7(CG),	0, 17	Called parents
12	GOURAV SINGH	4(OS), 3(CG), 6(AA)	49, 56, 56	Called parents
13	HARISH KUMAR	5(CD)	89	Called parents
14	HRITHIK KUMAWAT	7(CD)	73	Called parents
15	KISHAN KASHYAP	3(ITC), 4(CD), 4(CG), 1(AA), 4(HCI)	17, 16, 15, 18, 21	Called parents & Not Picked up
16	KULDEEP SINGH DUDI	5(AA)	72	Called parents
17	MANOJ KUMAR TAK	3(CD), 2(OS),	62, 54	Called parents& Not Picked up

**Mentor: Mr Rakesh Saini**

S No	Name	I Sessional Marks	Attendance (%)	Initiative taken by Mentor
1	MURLIDHAR JANGIR	ITC-02, CD-00, OS-00, CG-02, AA-00	15.4	His father came with student & discuss about his performance. He promise to improve.
2	RAJAT RANJAN	ITC-03, CD-04, OS-02, CG-05, AA-05	2.4	Number of times called him but not coming in classes. Matter discussed with principal sir. Spoke to his mother & discuss about his performance. She come after diwali holidays.
3	ROHIT JANGIR	CG-07, AA-06	30	His Father came us & Discuss about his performance. He will improve in II sessional
4	SANKET KUMAR	CG-07	70.2	Discuss about his performance. He will improve in II sessional
5	SHIVAM GUJRAN	CD-03, OS-07, CG-07, AA-AB	63.4	His mother came us & she told that he is not well in I sessional. He will improve in II sessional
6	TARUN	CD-04, OS-02, CG-04, AA-03	39.2	His Father came us & Discuss about his performance. He will improve in II sessional
7	VISHNU KUMAR JANGIR	ITC-04, CD-06, OS-00, CG-01, AA-03	35.2	Discuss with student about his performance. He will improve in II sessional. Called his father & informed him about his performance too.

8	YASHASVI KULHAR	ITC-AB, CD-00, OS-00, CG-AB, AA-00	7.4	Spoke to his mother & discuss about his performance. Also called him to discuss & he promised to improve in II sessional.
9	DEVANSHU JANGIR	ITC-AB, OS-AB, CG-AB, AA-AB	61.8	He is not well in I sessional informed us during exam. He will improve in II sessional.
10	RAJESH SHARMA	CG-06, AA-03	75	Discuss with student about his performance. He will improve in II sessional

**Mentor: Mr Manoj Kumar Saini**

Sr. No.	Roll No	Name	SIT4-02 (Compiler)		SIT4-03 (OS)		SIT4-04 (CG)		SIT4-05 (AOA)		Initiative taken by Mentor
			Marks [20]	Attn %	Marks [20]	Attn %	Marks [20]	Attn %	Marks [20]	Attn %	
1	17EBKIT001	ABHISHEK	6	68							Called and informed parents. Talked to students for further study.
2	17EBKIT002	ABHISHEK SHARMA					4	23	2	33	Father medically not in good condition so could not prepare for I-Sessional.
4	17EBKIT004	ANANT JANGIR	4	49							Informed parent and talked to student to improve in II-Sessional
5	17EBKIT005	ANKIT KUMAR MANDUSIA	6	54			6	75	7	72	Informed parent and talked to student to improve in II-Sessional
6	17EBKIT007	ANUBHAV RATHI			6	76	4	75	1	72	Discussed with his cousin about his condition. He is taking strict action. Also I am monitoring him continuously to improve in II-Sessional as well as his back logs.
10	17EBKIT013	DEVENDRA SHARMA	3	0			2	5	3	8	Earlier number not available. Called in person through some student and talked to study for II-Sessional
12	17EBKIT015	HARSH KUMAR	7	27					1	23	Not well (medical given) so could not prepare for I-Sessional but will study for II-Sessional.

14	17EBKIT017	JAI NEGI	6	22		2	15	0	26	Earlier number not available. Called in person through some student and talked to study for II-Sessional	
15	17EBKIT018	JITENDRA KUMAR	0	62	2	76	2	68	2	64	Called and informed parents. Discussed study plan with student for main as well as back exams.
16	17EBKIT019	KAPIL SINGH	2	16	5	49	1	25	2	18	Called and informed his mother. Talked with student and discuss further study plan
17	17EBKIT022	MOHIT	10	19		8	23				Earlier number not available. Called in person through some student and talked to study for II-Sessional
22	17EBKIT028	SHUBHAM JOSHI	1	57	5	76	5	70	4	62	Called and informed parents. Discussed study plan with student for main as well as back exams.

Year: Fourth Year / Seventh Semester

**Mentors: Mr Ramakant Soni, Mr Pradeep S. Shekhawat**

S No	Name	I Sessional Marks	Attendance (%)	Initiative taken by Mentor
1.	ABHINAV GUPTA	4(CCON)	78	Informed to his father and he said that he was preparing for Placement.
2.	ABHINAV JAIN	3(ISS),6(CCON)	65, 93	Informed to his parents.
3.	ABHISHEK SAINI	3(ISS),5(DMM),UFM(CAD),6(CCON)	20,19,36,33	Informed to Mr Krishan Saini Sir ( local Gurdian)
4.	AKASH SHARMA	7(CAD)	79	Informed to his parents
5.	AKSHAT YADAV	5(CAD),4(CCON)	77,75	Informed to his father
6.	AMBHUJ	5(ISS),7(CAD)	58,49	Informed to his father.
7.	AMIT KUMAR (16EBKCS013 )	0(ISS),0(DMM),UFM(CAD),	15,10,18	We have counselled and motivated him and also informed about his marks and attendance to his parents.
8.	AMIT KUMAR(16EBKCS014 )	AB(CC),2(ISS),4(DMM),3(CAD),2(CCON)	26,33,14,33,28	We have counselled and motivated him and also informed to his parents.
9.	AMIT SHARMA	3(DMM),5(CAD),5(CCON)	79,85,93	He is preparing for Placement drives as said by his father during conversation with him.
10.	ASHISH KUMAR	AB(CC),AB(ISS),0(DMM),0(CAD),AB(ADMS)	13,5,14,59,23	Informed to Mr Santosh Jangir Sir ( local Gurdian ).



11.	ASHUTOSH KRISHNA	7(CAD),7(CCON)	54,88	His father will asked to him.
12.	ASTIK CHOTIA	7(CC),1(ISS),6(DMM),4(CAD),AB(CCON)	47,63,50,95,68	He was on internship so didnt get enough time for preparation as said by his father.
13.	BHUSHAN VERMA	7(CAD),6(CCON),3(ADBMS)	46,50,51	Earlier he was in internship and he is also preparing for placement drives as said by his father.
14.	DEEPAK KUMAR DUDI	AB(ADBMS)	69	He was not well during the exam so he didnt take the exam for last paper.He is a good student so we didnt inform to his parents.
15.	DEVANSH BHATNAGAR	AB(ISS),AB(DMM),AB(CAD),	78,79,79	We have asked to him and he said that he has been preapring for placement drive and earlier he was on internship so didnt take the class and didnt get the good marks in the exam.He is a good student so we didnt inform to his parents.
16.	DHANENDRA SINGH CHAUHAN	4(DMM),2(CAD),6(CCON)	50,49,48	Informed to local gurdian Mr Shashikant Sharma.
17.	DHRUV DAYAL GUPTA	7(CCON)	75	We have counselled and motivated him and also informed about his marks and attendance to his parents.
18.	DUSHYANT VYAS	6(DMM)	93	Informed to his parents.
19.	FATEH SINGH	7(CC),3(CAD),2(CCON),4(ADBMS)	34,44,20,29	Counselled and motivated him and also informed to his parents.
20.	GANESH SUTHAR	7(CC),AB(ISS),AB(CAD),AB(CCON),AB(ADBMS)	34,31,28,33,37	We have counselled and motivated him and also informed about his marks and attendance to his parents.
21.	HARIKISHAN LATA	4(CAD),7(CCON)	56,65	Informed to his parents.
22.	HARSHIT GOYAL	5(CCON)	88	We have asked to him, he said that he was on internship so didnt take the class and he has been preapring for placement drive. He is a good student so we didnt inform to his parents.
23.	HEMANT SINGH SHEKHAWAT	3(ISS),0(VLSI),4(CC),7(ADBMS)	25,36,28,20	Counselled and motivated him and also informed to his parents.
24.	HRISHIKESH SARDA	2(ISS),7(CAD),5(CCON),7(ADBMS)	33,36,30,37	Informed to his parents.

25.	JATIN PREMJNI	7(CC),7(CAD),4(CCON)	57,69,75	We have asked to him, he said that he was on internship so didnt take the class. He is a good student so we didnt inform to his parents.
26.	JAYANT KARNATAK	7(DMW),2(CAD),7(CCON)	33,62,53	Counselled and motivated him and also informed to his parents.
27.	JITENDRA KHADOLIYA	7(CC),AB(ISS),7(DMW),0(CAD),5(CCON),5(ADBMS)	57,63,48,69,55,51	We have counselled and motivated him and also informed about his marks and attendance to his parents.
28.	KUNAL MITTAL	4(CAD)	64	We have asked to him and he said that he has been preapring for placement drive and earlier he was on internship so didnt take the class and didnt get the good marks in one paper.He is a good student so we didnt inform to his parents.
29.	KUSHAGRA TAYAL	4(CAD)	100	Informed to his local gurdian.
30.	MANJEET CHOUDHARY	AB(CC),3(ISS),7(DMW),0(CCON)	17,15,10,33	We have counselled and motivated him and also informed to his mother.
31.	MANOJ SINGH RAWAT	2(CAD),2(CCON)	33,25	Counselled him and informed to his parents.
32.	MANVI SHARMA	5(CC),6(ISS),6(CCON)	64,62,53	Informed to his parents. Earlier she was in internship and after that she was suffering for health issue as said by her father.

**Mentors: Dr Sonam Mittal, Mr Gauttam Jangir**

S No	University Id	Name	I Sessional Marks	Attendance (%)	Initiative taken by Mentor
1.	16EBKCS064	PIYUSH BARGUJAR	5 (CC),1 (VLSI), 1 (Compiler)	20, 26, 25	Informed his father and his father promised that he will do good in II Sessional Exams
2.	16EBKCS078	RAJAT SHARMA	4 (ADBMS)	13	Father came and discussed everything in detail. Student also promised that he will score good marks in second sessional exams
3.	16EBKCS106	TARUN SHARMA	5 (ISS), 4(DMW), 1 (VLSI), 4 (Compiler)	37, 48, 47, 56	Some issues are there regarding family and he promised to meet on Monday (Did not come)

4.	16EBKCS109	UJJWAL SINGH	1 (ISS), 0 (VLSI), 5(ADBMS)	25, 35, 52	Much improvement is seen in him from last semester. He and his mother both promised to get good marks in second sessional
5.	16EBKCS116	VISHNU NARAYAN MALVIYA	1 (DMW), 0 (VLSI),	19, 12	Talked to his elder brother and he will counsel him
6.	17EBKCS200	ABHIMANYU	0 (VLSI), 2 (Compiler)	5, 9	Preparing for competitive exams and promised to perform well in II Sessional Exams

**Mentor: Monika Jangir**

Student Name	Remark
ABHISHEK	Not Received
ROHIT	His father said rohit is still not well
ROHIT KUMAR	His mother said will convey him to attend the classes and score good marks
TANISHQ PAL SINGH	Informed to his father
VIJAY KUMAR	Not Received
VIKASH SHARMA	Informed to his father about marks and attendance

**9.2 Feedback analysis and reward /corrective measures taken, if any (10)**

Total Marks 10.00

Institute Marks : 10.00

**Feedback Analysis and Reward / Corrective Measures Taken, if any****Methodology being Followed for the Analysis of Feedback and its Effectiveness**

Feedback Process is important component of our institute to get the opinion of students to know about the overall functioning of the institute and its improvement. Institute follows following feedback process:

**Step1: Feedback Collection****Step 2: Scrutiny of Feedback by Assessment Committee****Step 3: Feedback is Conveyed to Respective Faculty****Step 4: Corrective Measures Initiated****Step1: Feedback Collection**

College management collects the feedback from students through different methodology / modes as mentioned below:

**1. Feedback from Mentor**

Mentors are in constant touch with the students under them, and conducts regular meetings with the students. Through these meetings they take the feedback about their class room teaching, marks attained in sessional exams, problem incurred in any subject. In case of any problem is registered by student, the mentor meets the concern person to get the problem solved.

**2. Direct Feedback from the Students**

Every department have constituted Class Representatives(CR) for each semester. These class representatives are invited by department head to express their view on the academic environment of the institute and the feedback is collected by the head of the department and submitted to the Director for final opinion . CR committee comprises of following types of students:

1. Class toppers
2. Slow learners

3. Active in all fields

### 3. Trough Feedback Questioners

At the end of semester, department conduct end course survey in order to take the feedback about the facilitators as well about the effectiveness of course. Standard feedback questionnaire is collected from the students every mid-semester course wise. Near about 80% to 90% of students generally participates in the feedback process.

#### Step 2: Scrutiny of Feedback by Assessment Committee

Collected feedback is scrutinized by the Assessment Committee comprising of Director, Principal (Academics) , Principal (Administrative) and HOD of respective department . The feedback is quantified by the committee :

- All the parameters mentioned in the feedback form will be analyzed.
- Ability of teaching with respect to each item and comprehensive ability of the teachers is analyzed

#### Step 3: Feedback is Conveyed to Respective Faculty.

All the comments received as feedback are communicated to the respective faculty members along with their feedback levels to know their strengths and weaknesses and to enhance their teaching skills.

#### Step 4: Corrective Measures Initiated

Based on the feedback received from the students following corrective measures are adopted:

- 1] Feedback of student is conveyed to the faculty
- 2] Special Lectures are conducted for the topic in which they find it difficult to understand.
- 3] Syllabus completion report is taken from staff after every 15 days to ensure that syllabus gets completed well within the given time schedule.
- 4] Conducts special classes for weak student in college and hostel.
- 5] Suggestions given by students during interaction is forwarded for necessary action to the concern department.
- 6] Notes are provided to students including important and previous year questions with solutions.
- 7] Faculty is motivated to attend online courses , attend FDP and workshops related to the subject of teaching.

Faculty member whose feedback is very good is suitably **rewarded** by college management committee by giving extra increment in salary.

### 9.3 Feedback on facilities (5)

Total Marks 5.00

Institute Marks : 5.00

#### **Feedback on Facilities**

Following facilities are available at BKBIET campus:

1. Library
2. Wi-Fi Enabled Campus
3. Medical
4. Food
5. RO Water Supply
6. Water Geysers
7. Maintenance of the Campus
8. Guest House
9. Power Back up
10. Group Insurance for students and staff
11. Reprographic Section

To handle each facility, separate committees are working to handle feedback, problems, requirements, and updates as required. The details of different committees and their In-charges are as follows:

S.No	Committees	In-Charge
1.	Library	Ms.Neetu Gujran, Asst. Librarian Ms.Sarita Jain , Asst. Librarian Jaswant Singh, Library Assistant
2.	Wi-Fi and Internet	Mr. Anil , System Administrator Mr. Suresh Kumar, System Analyst
3.	Medical	Mr. Suresh Kumar, System Analyst
4.	Food and Mess	Mr. Y K Yadav , Hostel Superintendent Mr.Praveen Sharma , Hostel Warden
5.	RO and Water Supply	Mr. Kuldeep Rawat, Office Assistant Mr. Y K Yadav, Hostel Superintendent
6.	Water Geysers	Mr. Naresh, Estate Officer Mr. Kuldeep Rawat, Office Assistant
10.	Maintenance of the Campus	Mr. Naresh Kumar, Estate Officer
11.	Guest House	Mr. Naresh Kumar, Estate Officer
12.	Power Back up	Mr. Naresh Kumar, Estate Officer
13.	Group Insurance for students and staff	Mr. Umesh Ratawa, Sr. Account Officer
14.	Reprographic Section	Mr. Sushil Saini, Technician

**Feedback / Complaint Form**

Separate Feedback form is available at the respective In-charge offices where either students or faculty members can register their complaints, requirements and give feedback which can help them for the regular updates. The sample feedback form is attached herewith.

<p><b>Feedback/Complaint/Requirement Form</b></p> <p><i>Name:</i> _____</p> <p><i>Faculty/ Student:</i> _____</p> <p><i>Department:</i> _____</p> <p><i>Address:</i> _____</p> <p><i>Problems Faced:</i> _____</p>
--

*Requirements:* \_\_\_\_\_

*Feedback:* \_\_\_\_\_

*Signature:* \_\_\_\_\_ *Date:* \_\_\_\_\_

---

(For Office Use Only)

*Committee In-Charge:* \_\_\_\_\_

*Work Done:* \_\_\_\_\_

*Items Used:* \_\_\_\_\_

*Signature:* \_\_\_\_\_ *Date:* \_\_\_\_\_

**1. Library :**

The Institute has three libraries, one is an issue library and two are reference libraries (air-conditioned) . Book bank facility is available for first-year students. The librarian maintains proper record of the books issued and requirements. The details of all the three libraries are as follows:

Carpet area of library (in feet)	60 x 45; 45 x 45; 45 x 45
Number of seats in reading space	200
Number of users (issue book) per day	150
Number of users (reading space) per day	50-60
Timings: During working day, weekend, and Vacation	9.00 am to 9.00 pm
Number of library staff	6
Number of library staff with a degree in Library	4
Library Management	Using ERP software
Computerization for search, indexing	Yes
Issue/return records barcoding/Software used	Using ERP software

Number of Text Books	27751
Number of Reference Books	5715
Number of Journals subscriptions (Engineering and Technology)	12
Number of Magazines subscriptions	30
Digital Library Availability	Yes



## DAILY ISSUE REGISTER

31

Name \_\_\_\_\_ Borrower's Card No. \_\_\_\_\_ Class or Designation \_\_\_\_\_

Serial No.	Author	Title	Call No. Acc. No.	Borrower's Signature	Date of Issue	Date of Return	Signature of Lib. Assst.	No. of days delayed	Fine Payable	Receipt No.	Excessive Issue	Remarks
1	Student 1st	Computer Graphics	10001	[Signature]	15/01/20	16/01/20	[Signature]					
2	Student 1st	Computer Graphics	10002	[Signature]	15/01/20	16/01/20	[Signature]					
3	Student 1st	Computer Graphics	10003	[Signature]	15/01/20	16/01/20	[Signature]					
4	Student 1st	Computer Graphics	10004	[Signature]	15/01/20	16/01/20	[Signature]					
5	Student 1st	Computer Graphics	10005	[Signature]	15/01/20	16/01/20	[Signature]					
6	Student 1st	Computer Graphics	10006	[Signature]	15/01/20	16/01/20	[Signature]					
7	Student 1st	Computer Graphics	10007	[Signature]	15/01/20	16/01/20	[Signature]					
8	Student 1st	Computer Graphics	10008	[Signature]	15/01/20	16/01/20	[Signature]					
9	Student 1st	Computer Graphics	10009	[Signature]	15/01/20	16/01/20	[Signature]					
10	Student 1st	Computer Graphics	10010	[Signature]	15/01/20	16/01/20	[Signature]					
11	Student 1st	Computer Graphics	10011	[Signature]	15/01/20	16/01/20	[Signature]					
12	Student 1st	Computer Graphics	10012	[Signature]	15/01/20	16/01/20	[Signature]					
13	Student 1st	Computer Graphics	10013	[Signature]	15/01/20	16/01/20	[Signature]					
14	Student 1st	Computer Graphics	10014	[Signature]	15/01/20	16/01/20	[Signature]					
15	Student 1st	Computer Graphics	10015	[Signature]	15/01/20	16/01/20	[Signature]					
16	Student 1st	Computer Graphics	10016	[Signature]	15/01/20	16/01/20	[Signature]					
17	Student 1st	Computer Graphics	10017	[Signature]	15/01/20	16/01/20	[Signature]					
18	Student 1st	Computer Graphics	10018	[Signature]	15/01/20	16/01/20	[Signature]					
19	Student 1st	Computer Graphics	10019	[Signature]	15/01/20	16/01/20	[Signature]					
20	Student 1st	Computer Graphics	10020	[Signature]	15/01/20	16/01/20	[Signature]					

Sl. No.	Project Name	Year	Amount	Start Date	End Date	Status
1	1700000001	18200	18200	18/01/19	18/01/19	✓
2	1700000002	18200	18200	18/01/19	18/01/19	✓
3	1700000003	18200	18200	18/01/19	18/01/19	✓
4	1700000004	18200	18200	18/01/19	18/01/19	✓
5	1700000005	18200	18200	18/01/19	18/01/19	✓
6	1700000006	18200	18200	18/01/19	18/01/19	✓
7	1700000007	18200	18200	18/01/19	18/01/19	✓
8	1700000008	18200	18200	18/01/19	18/01/19	✓
9	1700000009	18200	18200	18/01/19	18/01/19	✓
10	1700000010	18200	18200	18/01/19	18/01/19	✓
11	1700000011	18200	18200	18/01/19	18/01/19	✓
12	1700000012	18200	18200	18/01/19	18/01/19	✓
13	1700000013	18200	18200	18/01/19	18/01/19	✓
14	1700000014	18200	18200	18/01/19	18/01/19	✓
15	1700000015	18200	18200	18/01/19	18/01/19	✓
16	1700000016	18200	18200	18/01/19	18/01/19	✓
17	1700000017	18200	18200	18/01/19	18/01/19	✓
18	1700000018	18200	18200	18/01/19	18/01/19	✓
19	1700000019	18200	18200	18/01/19	18/01/19	✓
20	1700000020	18200	18200	18/01/19	18/01/19	✓

**2. Wi-Fi Enabled Campus:**

Name of the Internet provider	AITSPL Pvt Ltd and BSNL
Available bandwidth	Upto 100 Mbps(AITSPL Pvt Ltd) 4 Mbps (BSNL)
Availability of Internet in an exclusive lab	Yes
Availability in most computing lab	Yes
Availability in Departments and other units	Yes
Availability in Faculty rooms	Yes
Institute own e-mail facility to faculty/students	Yes
Security/privacy of e-mail/internet users	Yes

Students are provided 2 GB data per day at the speed of 1 Mbps and faculties are given 10 GB data per day at 1 Mbps. The register is maintained by System Administrator and Analyst and records the data speed provided by the data provider company. Complaints are resolved on priority by the team of experts .

**3. Medical Facilities:**

The Institute has its own fully-fledged Health Care Center with a full-time male nurse and weekly visiting doctors. The institute also runs a Yoga Centre where students and faculties can learn and practice yoga during the morning time daily under the guidance of expert yoga teachers. Patients suffering from acute illness/enquiring intensive care are referred to the Birla Savarjnik Hospital, Pilani-Rajasthan to which the college has made an agreement of service for our students on priority . A full time dedicated Ambulance service is available at the dispensary. The medical center In-charge maintains an OPD register for the students and staff. The list of available facilities at the center is as follows:



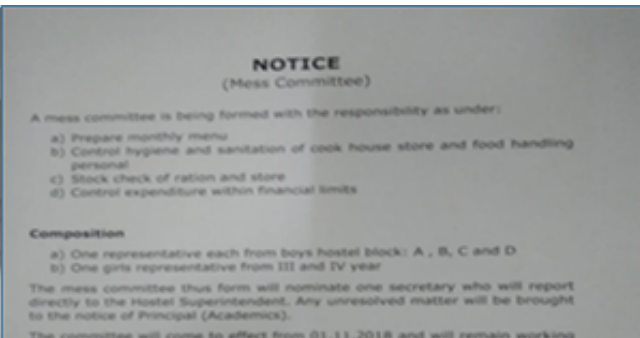
<i>S.No</i>	<i>Available Items</i>	<i>Quantity</i>
1.	Stethoscope	1
2.	Digital weighing machine	1
3.	BP monitor machine	1
4.	First Aid Kits	5
5.	General purpose medicines	Consumable items
6.	Sugar monitor device	1
7.	Wheelchair	1

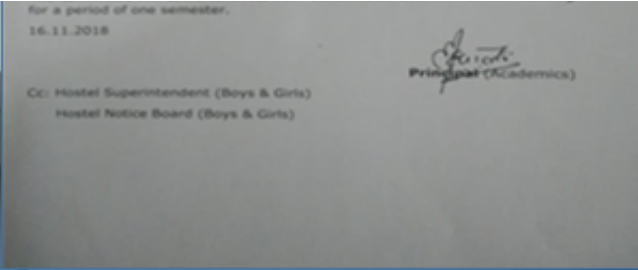


10-8-19				20-8-19			
265	M.K.Panchal	80 M	st	286	M.K.Panchal	80 M	st
266	Karunakish	20 M	st	287	Jai Singh	41 M	st
267	Hanshil Raj	19 M	st	288	Nikhil	21 M	st
268	R.K.Thakral	51 M	st	289	Jai Singh	41 M	st
12-8-19				21-8-19			
269	M.K.Panchal	80 M	st	290	V.K.Yadav	50 M	st
270	Manoj	48 M	st	291	M.K.Panchal	80 M	st
271	L.Selwaji	48 M	st	292	Nikhil	21 M	st
272	R.K.Thakral	51 M	st				
14-8-19				22-8-19			
273	M.K.Panchal	80 M	st	293	Hanshil	47 M	st
274	Manoj	48 M	st	294	M.K.Panchal	80 M	st
275	Siddhant Ram	18 M	st	295	Nikhil	21 M	st
16-8-19				23-8-19			
276	M.K.Panchal	80 M	st	296	M.K.Panchal	80 M	st
277	V.K.Yadav	50 M	st	297	Hanshil	47 M	st
278	Nikhil	21 M	st	298	Nikhil	21 M	st
17-8-19				26-8-19			
279	Nikhil	21 M	st	299	M.K.Panchal	80 M	st
280	M.K.Panchal	80 M	st	300	Aditi	19 F	st
				301	Vikesh	29 M	st
19-8-19				27-8-19			
281	Jai Singh	41 M	st	302	M.K.Panchal	80 M	st
282	Nikhil	21 M	st	303	Hanshil	47 M	st
283	M.K.Panchal	80 M	st	304	Aditi	19 F	st
284	Jatin	12 M	st	305	Vikesh	29 M	st
285	Tarunay	18 M	st				

**4. Mess and Canteen:**

The institute owns three boys and one girls' mess, where students are served with pure vegetarian food. The separate sitting place of the size of 20 members is available for faculties in a mess. The mess is well equipped with an Automatic Roti Maker machine that can make around 50 chapattis in one minute to aid the smooth functioning of the mess. For smooth operation of the mess, every year, a Mess Committee is made by the chief-warden, which comprises of a hostel warden, supervisor, mess contractor and one student each from all the four years. The role of the mess committee is to regularly check the quality of the food, make and update the mess menu and handle the problems if it arises with the help of the mess contractor. The institute also owns a spacious Canteen for both students and faculties having separate air-conditioned rooms for small get-together.





**WARDEN MESS VISIT**

Sl. No.	Date	Name	Time In	Time Out	Remarks	Signature
24	21/08/19	Himanshu Gupta	2:10pm	2:55pm	OK	[Signature]
25	21/08/19	Himanshu Gupta	7:35pm	8:25pm	OK	[Signature]
26	21/08/19	Himanshu Gupta	2:10pm	2:55pm	OK	[Signature]
27	21/08/19	Himanshu Gupta	8:30pm	2:45pm	OK	[Signature]
28	21/08/19	Himanshu Gupta	8:30pm	2:45pm	OK	[Signature]
29	21/08/19	Himanshu Gupta	8:30pm	2:45pm	OK	[Signature]
30	21/08/19	Himanshu Gupta	2:10pm	2:55pm	OK	[Signature]
<b>A-Block</b>						
1	01-03-19	Dr. Y.K. Gupta	8:00 pm	8:00 pm	OK	[Signature]
2	01-03-19	D.C. Sharma	8:00 pm	8:15 pm	OK	[Signature]
3	02/03/19	Dr. Y.K. Gupta	8:00 pm	8:25 pm	OK	[Signature]
4	03/03/19	Dr. Y.K. Gupta	8:00 pm	8:25 pm	OK	[Signature]
5	02/03/19	D.C. Sharma	7:45 PM	8:25 PM	OK	[Signature]
6	03/03/19	D.C. Sharma	7:50 PM	8:45 PM	OK	[Signature]
7	04/03/19	D.C. Sharma	7:50 PM	8:45 PM	OK	[Signature]
8	04/03/19	Dr. Y.K. Gupta	8:00 pm	8:25 pm	OK	[Signature]
9	04/03/19	Dr. Y.K. Gupta	8:00 pm	8:25 pm	OK	[Signature]
10	05/03/19	D.C. Sharma	7:50 PM	8:10 PM	OK	[Signature]
11	05/03/19	Dr. Y.K. Gupta	8:10 pm	8:25 pm	OK	[Signature]
		D.C. Sharma	7:55 PM	7:55 PM	OK	[Signature]
<b>B-Block</b>						
1	8/9/19	Himanshu Verma	7:40 AM	7:55 AM	OK	[Signature]
2	8/9/19	Himanshu Verma	1:50 PM	1:50 PM	OK	[Signature]
3	8/9/19	Himanshu Verma	8:50 AM	9:50 AM	OK	[Signature]

**SRM BIRLA INSTITUTE OF ENGINEERING AND TECHNOLOGY PLAN  
BOYS & GIRLS HOSTEL MESS MENU**

Wed. 02-Nov-2019

S.No.	Day	Breakfast	Lunch	Dinner
01	Monday	Milk Sambar, soosun Chutney, Sauce, Coffee.	Kulha Mixed Dal, Rice, Chapati, Lemon, Pickle & Salad.	Avner Dal, Seasonal veg, Jera Rice, Chapati, Curries, Lemon-Chutni & Pickle.
02	Tuesday	Aloo Paratha, Pickle, Sauce, Tea.	Chole, Seasonal veg, Rice, Curd, Chapati, Pickle & Salad.	Mix Dal, Seasonal veg, Rice, Chapati, Lemon, Fried Mocha & Pickle, Gulaab Jamun.
03	Wednesday	Fastina (1.254 wad) Dahi wada (2 wad), Sauce, Coffee.	Dal, Luchi veg, Chhole, Jera Rice, Lemon, Salad & Pickle.	Dal, Luchi, Seasonal veg, Rice, Chapati, Pickle, Kheer.
04	Thursday	Onion Paratha/Puri Aloo tar, Sauce, Pickle, Tea.	Masala Kari (1&3) Purod kar (2&4), Soyabean, Steamed Rice, Chapati, Papad, Pickle & Salad.	Seasonal veg, Rice Pulao, Ahar Dal, Chapati, Green Chutni & Pickle.
05	Friday	Wada Sambar/Dal Wada/Puri, Aloo tar, & Coffee.	Rajma, Seasonal veg, Veg Rice, Chapati, Curd Pickle & Salad.	Dum Aloo, Seasonal veg, Jera Rice, Chapati, Pickle and Ladoo/Banana.
06	Saturday	Samosa (2&4 Saturday) Gethi Paratha (1&3 Saturday) Sauce, Chutney and Tea.	Chana Dal & tuka Veg., Besan Gatta, Chapati, Rice, Curd, Pickle & Salad.	Seasonal veg, Kala chana, veg Biryani, Chapati, Pickle, ice cream butter koochi (1&3), Purod (2&4).
07	Sunday	Poha/Bhat/Puri, Sauce, and Coffee.	Matar Paneer (1&3)/Chili Paneer (2&4), Aloo Fried, Rice Pulao, Hales, Chhole, Pickle, Chhole Bhature.	Seasonal veg, Moong Dal, Jera Rice, Chapati, Tomato Sauce, Pickle.

\* Pickle must be Aam/Green chily not mixed.  
 \* Chapati quality must be good.  
 \* Care must be taken for the cleanliness of the utensils and mess compound.  
 \* Salad must be prepared with cucumber, carrot, Radish, onion.  
 \* Trade veg should not cook.

**MESS COMMITTEE:**

1. Qutub Khan Pathan - D block - IV Year  
 2. Donika Yadav - IT IV Year  
 3. Neha Swami - EE IV Year  
 4. Aman Kumar Rai - C block - II Year  
 5. Ashay Rastogi - B block - II Year  
 6. Naresh Kumar - A block - I Year

Mr. Praveen Sharma (Warden)  
 Hostel Superintendent



**5. RO and Water Supply:**

The Institute has a 24x7 RO water supply, and there are in total 11 ROs outlets located at different sites on the campus. The institute also has its own two water-treatment plants of capacity 500 liters situated at the college site and 1000 liters situated in the hostel site, to provide clean and safe water supply to all the stakeholders.

The estate office maintains a proper record of the water treatment plants. The details of the ROs are as follows:

S.No	Location	Stake Holders	Capacity
1.	Admin. Block	Staff, Students, and Visitors	100 liters
2.	B-Block Building	Staff and Students	-do-
3.	Library	-do-	-do-
4.	In Between BPTRC & D-Block	-do-	-do-
5.	Canteen Side	-do-	-do-
6.	Boys Mess - I	-do-	-do-
7.	Boys Mess - II	-do-	-do-
8.	Outside of Boys Mess & D Block Building	Mess Kitchen & Mess Staff only	-do-
9.	Girls Mess	Staff and Students	-do-
10	In between VIP Guest House & Maintenance Office	Staff, Students, Security Guards, and General Public	-do-
11.	A-Block Building	Staff and Students	-do-







**WATER HEATER NO. 1. VISHVA VIDYA**  
**RUNNING RECORD**

NO	Date	Time	Pressure	Temp	Remarks
1	1.12.19	7:00	0.00	20	Water heater running
2	2.12.19	7:00	0.00	20	Water heater running
3	3.12.19	7:00	0.00	20	Water heater running
4	4.12.19	7:00	0.00	20	Water heater running
5	5.12.19	7:00	0.00	20	Water heater running
6	6.12.19	7:00	0.00	20	Water heater running
7	7.12.19	7:00	0.00	20	Water heater running
8	8.12.19	7:00	0.00	20	Water heater running
9	9.12.19	7:00	0.30	19.50	Water heater running
10	10.12.19	7:00	0.00	20	Water heater running
11	11.12.19	7:00	0.00	20	Water heater running
12	12.12.19	7:00	0.30	19.50	Water heater running
13	13.12.19	7:00	0.30	19.50	Water heater running
14	14.12.19	7:00	0.30	19.50	Water heater running
15	15.12.19	7:00	0.30	19.50	Water heater running
16	16.12.19	7:00	0.30	19.50	Water heater running
17	17.12.19	7:00	0.30	19.50	Water heater running
18	18.12.19	7:00	0.00	20	Water heater running
19	19.12.19	7:00	0.00	20	Water heater running
20	20.12.19	7:00	0.00	20	Water heater running
21	21.12.19	7:00	0.00	20	Water heater running
22	22.12.19	7:00	0.00	20	Water heater running
23	23.12.19	7:00	0.00	20	Water heater running
24	24.12.19	7:00	0.00	20	Water heater running
25	25.12.19	7:00	0.00	20	Water heater running
26	26.12.19	7:00	0.00	20	Water heater running
27	27.12.19	7:00	0.00	20	Water heater running
28	28.12.19	7:00	0.00	20	Water heater running
29	29.12.19	7:00	0.00	20	Water heater running
30	30.12.19	7:00	0.00	20	Water heater running
31	31.12.19	7:00	0.00	20	Water heater running

**7. Maintenance of the Campus:**

This committee works for the maintenance of the complete institution covering staff residences and hostels. The in-charge receives regular feedbacks, complaints, and requirements through the forms available in the maintenance office and maintains the record of the same.

**B. K. Birla Institute of Engineering & Technology**  
**PILANI, Rajasthan - 333031**

**COMPLAINT REQUISITION**  
*For Girls Hostels*

No. **326** Date: **12.11.19**

Hostel No. **D**

Room No. **110**

Nature of Complaint :  
 ① Water leak from inside  
 ② Ventilation glass broken causing opening of door  
leak in window

Material Used with cost :  
 Name & Signature: [Signature]

Work done Satisfactory  
 Sign. Deptt.

**B. K. Birla Institute of Engineering & Technology**  
**PILANI, Rajasthan - 333031**

**COMPLAINT REQUISITION**

No. **206** Date: **24/11/19**

Deptt. : Hostel  
 Quarter No. Warden Bldg. (D. Sharma)  
 College.

Nature of Complaint :  
 ① Putty work on window glasses  
 ② Repairing of walls in balcony and bathroom

Material Used :  
crack glass putty  
Decorative paint & other material

Complaint Attended on: 24.11.19  
24/11/19  
 Name & Signature: [Signature]

Work done Satisfactory  
 Sign. Deptt.

**8. Guest House:**

The Institute owns four fully air-conditioned guest houses, out of which one is a VIP guest house. All the guest houses are equipped with modern facilities like LED TVs, internet, attached toilets and kitchen to welcome its guests and the parents. The in-charge maintains the record of the guests stayed at different guesthouses and keep proper vigilance of the cleanliness and other facilities.



**A. Scope for Self-Learning**

1] **E-Learning Material:** Faculty provides E Books, notes, presentations, video links (NPTEL, SWAYAM, TCSion and other MOOC Courses) for better understanding of practical applications of theoretical concepts.

2] **Expert Talks, Workshop and seminars:** Expert talks, workshop and seminars conducted for students to get exposure to latest technology and trends with respect to the concepts studied in the class.

3] **Industrial Training:** Students undergoes Industrial training to cover gap between industry and institutes. In house training provided to facilitate students to experience the corporate environment with skill development. BKBIET, Pilani Rank 295 in AICTE & Intern Shala Ranking Report (<https://bkbiet.ac.in/wp-content/uploads/2019/07/AICTE-Internshala.jpeg>).

4] **Skill Development Short Term Courses:** Short-term courses for skill development by the department faculties in each semester to introduce new technologies among students and reduce institute industry gap.

5] **International Student exchange Programme:** Under Students Exchange Programme, BKBIET students visit leading international universities for internships and higher studies.

6] **Student chapters Activities:** Institute has 7 Local Chapters (ACM, CSI, IEEE, IETE, IEI, ASME and IFERP) which gives students a platform to showcase their talent in organizing and participating in various tech activities (seminar, workshop and tours) and competition. It develops leadership and management qualities in them.

**Chapter Summary****CSI Pilani Chapter**

Year 2019

S. Nos	Activity Held	Summary	Number of students participated	Students Coordinator	Faculty Coordinator	Sponsor(if any)
1.	Aarambh	AARAMBH'19 consisted of the presentations given by all the exe-com members on their respective fields of technical interest on which they are working, also with live projects.	100	Manoj Tak	Gauttam Jangir	NO
2.	ML Workshop	The workshop was conducted under Google AI and Explore ML Academy, with Jatin Premjani (Google ML facilitator) as main speaker along with subordinate speakers Pulkit goyal and Manoj Kumar Tak.	100	Manoj Tak	Gauttam Jangir	NO
3.	Web Development and Deployment	The motive of the workshop was to make students capable enough that they can easily make and deploy their own website.	50	Manoj Tak	Gauttam Jangir	NO

Year 2018

S. Nos	Activity Held	Summary	Number of students participated	Students Coordinator	Faculty Coordinator	Sponsor(if any)
1.	AARAMBH	This event was a way to introduce CSI BKBIET as a student chapter.	100	Jatin Premjani & Ankur Kedia	Gauttam Jangir	NO
2.	MAXIMUS	This is the event of 8-bit gaming which was conducted on 1 September 2018 in amphitheater.	40	Jatin Premjani & Ankur Kedia	Gauttam Jangir	NO



3.	DRAWING CLASS FOR NIRMAN STUDENTS	Our ExCom introduced Nirman Students with computer. Students use the painting tool in computers and represent their creativity	20	Jatin Premjani & Ankur Kedia	Gauttam Jangir	NO
4.	Adobe Photosop Workshop	Adobe Photosop Workshop was organized to introduce students about operation on photos using adobe photosop, to develop their creativity skills.	25	Jatin Premjani & Ankur Kedia	Gauttam Jangir	NO

**Year 2017**

S. Nos	Activity Held	Summary	Number of students participated	Students Coordinator	Faculty Coordinator	Sponsor(if any)
1.	AARAMBH	This event was a way to introduce CSI BKBIET as a student chapter.	100	Ranjit Chauhan	Gauttam Jangir	NO
2.	ESCLON FIESTA	Esclon Fiesta was a successful effort by CSI BKBIET to maintain a perfect balance between technology and creativity.	40	Vishal Jangir	Gauttam Jangir	NO
3.	JAVA WORKSHOP	CSI BKBIET conduct a two days java workshop for the students.	50	Ranjit Chauhan	Gauttam Jangir	NO
4.	PYTHON WORKSHOP	CSI BKBIET conduct and organize a three days Python workshop for the students.	40	Vishal Jangir	Gauttam Jangir	NO
5.	HACKTHON	The teams which have participated are given problem statement to work on for total 12 hours i.e 9:0 PM to 9:0 AM and presentation of the same what they have worked on the problem statement.	30	Ranjit Chauhan	Gauttam Jangir	NO

**IETE Pilani Centre****Year 2019**

S. Nos	Activity Held	Summary	Number of students participated	Students Coordinator	Faculty Coordinator	Sponsor(if any)
1.	Quiz and Seminar 15sep 2019	Celebrated engineer's day. Conducted technical quiz and seminar on dark web and deep web	50	Manal Swami & Anshita Mittal	Dr.Krishna Meel	ISF

2.	Ceeri Visit 17sep 2019	A group of students were visited to CEERI lab. The aim of the visit was to provide the students a wonderful platform to explore the practical knowledge of research labs and to stimulate.	20	Rohit Rajput Divya Prakash	Dr.Krishna Meel	ISF
3.	Quiz 14 oct 2019	A quiz conducted on codechef .Questions related to codechef were asked.	30	Jaiveer Sheela	Dr.Krishna Meel	ISF
4.	Entrepreneur 15oct2019	A quiz conduted by BTTI students. Questions related to entrepreneur was asked.	30	Yagvendra Singh Divya Prakash	Dr.Krishna Meel	ISF

**Year 2018**

S. Nos	Activity Held	Summary	Number of students participated	Students Coordinator	Faculty Coordinator	Sponsor(if any)
1.	Talk 25oct2019	A <b>Technical Talk</b> by 2018s "Young Scientist Award winning scientist Dr. Niraj Kumar who exposed his theories on "High power and portable THz technologies for strategic and industrial application" on <b>25-october-2018</b> .	30	Sumit Singh	Dr. Krishna Meel	ISF& IETE Pilani centre
2.	Competition 2feb2019	A science model competition was organized in BKBIET by IETE Pilani centre and ISF. Schools of Pilani has participated.	40	Sumit Singh Manal Swami Anshita Mittal Shweta Chabra	Dr. Krishna Meel	IETE-Pilani centre
3.	Workshop 8march2019	A one day workshop entitled " <b>Women Empowerment to Enlighten INDIA</b> " on the occasion of International Women's day i.e. 8 March2019 is organized by IETE Pilani center and IETE Student Forum at CSIR-CEERI Pilani.	30	Anshita Mittal Akshita Pandey	Dr. Krishna Meel	IETE New Delhi

**Year 2017**

S. Nos	Activity Held	Summary	Number of students participated	Students Coordinator	Faculty Coordinator	Sponsor(if any)
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1.	Workshop 15dec2017	Workshop for women was organised on <b>15<sup>th</sup> Dec 2017</b> for educating women about their rights and various other things like cyber security, women empowerment, and women rights. About 50 women attended the event.	50	Muskan Boran	Dr.Krishna Meel	IETE-PILANI CENTRE
2.	Seminar Jan2018	ISF initiated the efforts for empowering the female faculties so that they can face the challenges of new world by conducting a seminar on <b>‘Rights of women’</b> in India’ on 13 Jan, 2018 and <b>20Jan, 2018 ‘Cyber Security and Cyber Laws’</b> at Smt. Jamuna Mishra School, Pilani.	40	Muskan Boran	Dr.Krishna Meel	ISF
3.	Ceeri visit 17 AUG2017	IETE Student Forum, BKBIET has organized a visit to CEERI-Pilani on the occasion of CSIR PLATINUM JUBILEE CELEBRATION. There is a CSIR Capsule Exhibition showcasing of technologies from 38 CSIR Research laboratories like aerospace, energy, engineering, drugs, environment etc.	80	Muskan Boran	Dr.Krishna Meel	ISF
4.	Ceeri visit 1FEB2017	IETE Pilani chapter celebrated the IEIE student’s foundation day on 1 <sup>st</sup> Feb, 2017 at Conference Room of CSIR-CEERI, Pilani. In which BKBIET, Pilani students took participate in the various activities.	30	Muskan Boran	Dr.Krishna Meel	ISF

**IEEE Pilani Centre**

Year 2019

S. Nos	Activity Held	Summary	Number of students participated	Students Coordinator	Faculty Coordinator	Sponsor(if any)
1.	The Vibes 2k19	ComSoc conducted events like Decypher with Code , Debug The Bug and software Hackathon whereas Robex conducted events like Battel of Waterloo(Bots which are convertible in land and water both .) , RoboWar and Lin-o-bot competition which had various rounds.	250	Devansh Bhatnagar  Riju Mittal	Dr. L. Solanki	Friends Café  Coding Blocks

2.	Mock Placement	There was a Mock Placement Conducted by IEEE-BKBIET in support with the Training and Placement Cell of IEEE-BKBIET. The students have to give an aptitude and coding test . After that a HR round was held by the TNP Cell of the college . There was a great participation from 4th , 3rd and 2nd year.	50	Suyash Y. Singh Cherry Vaish	Dr. L. Solanki	
3.	Talk	IEEE BKBIET organized a Talk on Blockchain and Cryptocurrency. Which was a hot and blooming topic and need for the student to get educated.	45	Devansh Bhatnagar	Mr.Santosh Jangid	
4.	Training Classes	There was IEEE BKBIET, IEEE WIE, ComSoc and Robex orientation for all the freshers. Both Robex and ComSoc had started their classes and workshops for freshers.	70	Umesh Jangid Anurag Khaware	Mr.Praveen Sharma	

**Year 2018**

S. Nos	Activity Held	Summary	Number of students participated	Students Coordinator	Faculty Coordinator	Sponsor(if any)
1.	The Vibes 2k18	ComSoc conducted events like Code Karo, Debug The Bug and software Hackathon whereas Robex conducted events like RoboPrix, RoboYudh and Lin-o-bot competition which had various rounds. There were seminars on machine learning from Dr. Nitin Rajvanshi, and on Big Data by Dr. Navneet Goyal (HOD CS Department BITS PILANI) . Then there were many informal events like Chromatics which is a techno-musical night. We had ElectroGaming for 2 consecutive nights which included under arm cricket, under arm bowling and TrapCave. Also we had Bluff-master.	300	Atharva Joshi Shreya Joshi	Dr. L. Solanki	Zebronics R&R Hospital

2.	IEEE Society Giving	There was a personality development workshop under WIE in Shishu Vihar School for girls from class 5th-7th .They had made various props, videos, charts and many more things.	100	Shreya Joshi	Dr. L. Solanki	
3.	Annual Industrial Trip	IEEE BKBIET had its biggest event, The annual industrial trip. We organized an industrial trip to Gujarat & Diu where 60 students participated. Major places in Gujarat were covered. It was a 7 nights and 8 days trip.	60	Atharva Joshi	Dr. L. Solanki	
4.	Debate	IEEE BKBIET WIE had organised debate competition on the topic "CRYPTOCURRENCY".	50	Trapti Singhal	Mr.Santosh Jangid Mr.Praveen Sharma	

**Year 2017**

S. Nos	Activity Held	Summary	Number of students participated	Students Coordinator	Faculty Coordinator	Sponsor(if any)
1.	The Vibes 2k17	ComSoc conducted events like Code Karo, Debug The Bug and software Hackathon whereas Robex conducted events like RoboPrix, RoboYudh and Lin-o-bot competition which had various rounds.	325	Shreya Joshi Jagruthi Biyani	Dr. L. Solanki	Ghoomar Kapson Automotive
2.	Aptitude Test	There was a series of aptitude tests conducted. This was a non-technical event conducted by IEEE BKBIET which had 3 rounds. There was a major participation in those aptitude test as students have their maximum tests	70	Atharva Joshi	Mr.Santosh Jangid	
3.	Techno Quiz	There were around 15 teams and each team had 3 members of different year and branches. They were jumbled up and had to participate in the techno quiz which had 2 rounds.	45	Jagruthi Biyani	Dr. L. Solanki	
4.	Talk	Block Chain	50	Shreya Joshi	Praveen Jangid	

**ACM****Year 2019**

S. Nos	Activity Held	Summary	Number of students participated	Students Coordinator	Faculty Coordinator	Sponsor(if any)
1.	ALL NIGHT CODING	The event contained 3 Round of coding, where Round 1 was Intermediate level having 5 coding problems, Round 2 was Moderate level with 3 coding problems and the Final Round was the Ninja Round with 1 coding problem.	64	Manoj Kumar Tak , Megha Garg	Manoj Kataria	
2.	ORD-EXPO	In this event the students demonstrated their projects. Projects and including the technologies like IOT, Machine Learning, and Cyber Security etc.	32	Manoj Kumar Tak	Manoj Kataria	
3.	VISUALIZE THE STORY	In this event, students had to visualize the stories being played through audio and then explain about it.	43	Pinky, Shreenidhi	Manoj Kataria	
4.	ALEXATHON	In this event give a brief about 'Alexa' – The Amazon Virtual Assistant in there Echo Dot. They show how 'Alexa' works and how we can add new functionalities and skills in 'Alexa'.	23	Souveek Roy	Manoj Kataria	
5.	HACKATHON	It is 12 hours of competition. There were 15-20 teams with 4-5 members each working on the problem statement provided by the event organizers. The problem statements were related to Web/App based, Machine Learning	64	Yash Mor, Pooja Kashiramka	Manoj Kataria	

## Year 2018

S. Nos	Activity Held	Summary	Number of students participated	Students Coordinator	Faculty Coordinator	Sponsor(if any)
1.	CODE HUNT	Code hunt is a technical treasure event which covers both physical as well as technical antiquity, understanding the pressure felt during any competition.	24	Anishq Sharma, Supriya	Manoj Kataria	
2.	GEEK INSIDE	It is a technical quiz event. It is to increase enthusiasm and knowledge for CS & IT students.	50	Aniruddh, Supriya	Manoj Kataria	
3.	VISUALIZE THE STORY	In this event, students had to visualize the stories being played through audio and then explain about it.	20	Pooja, Ankita	Manoj Kataria	

4.	HACKATHON	It is 12 hours of competition. There were 15-20 teams with 4-5 members each working on the problem statement provided by the event organizers. The problem statements were related to Web/App based, Machine Learning	45	Vishal, Jatin	Manoj Kataria	
5.	WORKSHOP ON TOUCH AND AUGMENTED REALITY	The trainer dis some on some projects based on MATLAB. It includes handmade mouse, controlling music set with fingers, facial recognition etc.	40	Amit, Anishq Sharma	Manoj Kataria	

**Year 2017**

S. Nos	Activity Held	Summary	Number of students participated	Students Coordinator	Faculty Coordinator	Sponsor(if any)
1.	BIG DATA WORKSHOP	A BIGDATA is being generated by everything around us at all times. Every digital process and social media exchange produces the details which any company needs.	48	Anishq Sharma, Dheeraj Poonia	Manoj Kataria	
2.	WOKSHOP ON IOT	IOT is the most popular and trending topic in the electronics and computing world. (Touch Lamp to indicate , LCD 16*2 interface , servo motor interfacing, DC motor speed control)	51	Dheeraj Poonia	Manoj Kataria	
3.	HACKATHON	It is 12 hours of competition. There were 15-20 teams with 4-5 members each working on the problem statement provided by the event organizers. Hackathon is a design script –like event in software development , including graphic designers, interface designers.	32		Manoj Kataria	
4.	CODE HUNT	Code hunt is a technical treasure event which covers both physical as well as technical antiquity, understanding the pressure felt during any competition.	20		Manoj Kataria	

**CSI Pilani Centre****Year 2018**

S. Nos	Activity Held	Summary	Number of students participated	Students Coordinator	Faculty Coordinator	Sponsor(if any)
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1.	Bike overhauling	Bike overhauling is an event held on 31th Aug 2018, in this students learn about bike assembly and dismetalling of bike	25	Javed khan Rahul Chandola	Himanshu gupta	
2.	Logo designing competition	In this event student making the logo for ASME in this competition the winner get 50rs paytm cash.	15	Kirti , Javed and vikram ku. jha	Himanshu gupta	
3.	Industrial visit (SECURE METER)	In this visit student learn about working of industry and working environment of an industry how it work and what are the problem they face	53	Kushboo ,kirti Javed and vikram jha, Rahul chandola	Himanshu gupta and Devish rohilla	

## Year 2017

S. Nos	Activity Held	Summary	Number of students participated	Students Coordinator	Faculty Coordinator	Sponsor(if any)
1.	Workshop on I.C engine	In this workshop student learn about the basic of I.C engine, assembly and dismetalling	20	Kushboo and yogesh parmar	Devish rohilla	

IEI Pilani Local Centre

## Year 2015

S. Nos	Activity Held	Summary	Number of students participated	Students Coordinator	Faculty Coordinator	Sponsor(if any)
1.	Engineers Day 15th September 2015	The Pilani local center of Institution Of Engineers (India) celebrated Engineer's day on 15th Sept 2015 in association with B.K. Birla Institute of Engineering and Technology in its college premises at ABTRC Conference Hall	86	Mr.Shubham Jangid Mr. Dharmender Singh	Dr. Smita Pareek	IEI, Pilani Local Centre
2.	Invite Talk on "The Role of Chemical Engineer in the Process Industry" 12th September 2015	The Pilani Local Centre of The Institution of Engineers (India) organized an invited talk on "The Role of a Chemical Engineer in the Process Industry" in the association of Department Of Chemical Engineering, BITS Pilani, Campus on 12th Sept, 2015 at 3:30 P.M in LTC in its college premises.	80	Mr. Bhupesh Mittal	Dr. Smita Pareek	



3.	“Tech Charades” 28th October 2015	The Institution of Engineers (India), Pilani Local Centre BKBIET Student Chapter organized a Technical Event “Tech Charades” on 28th Oct, 2015 at 4:00 PM in BK Birla Institute of Engineering and Technology in its college premises.	74	Mr. Vanshaj Kumar	Prof. S B Dandin	
4.	One Day Workshop Applications of Image Processing using Matlab	This workshop is intended for the broader academic community who seeks to explore the impact of MATLAB in the industry and Academics. Workshop provides students with a personalized experience that is rich with technical knowledge. This workshop covers basic concepts of MATLAB and its Applications in various areas.	50	Mr. Danish Souran & Ms. Kanchan Sharma	Mr. Santosh Jangid Mr. Rakesh Saini	IEI, Pilani Local Centre

**IFERP****Year 2019**

S. Nos	Activity Held	Summary	Number of students participated	Students Coordinator	Faculty Coordinator	Sponsor(if any)
1.	IoT workshop	A two days' workshop for IoT was organized in the BKBIET on 1 <sup>st</sup> and 2 <sup>nd</sup> of Oct with experts from IOTians group, Gurugram, Haryana. Students from 1 <sup>st</sup> yr to 3 <sup>rd</sup> yr of different branches participated in this workshop for two days @four hrs per day.	49	Ashish Sharma, Nishant Gupta, Ayushi Mittal, Anshuman Bisht, Manish Singh Rathore	Dr. H. Rahaman	
2.	Orientation Program	A 30 minutes presentation was given to 1 <sup>st</sup> yr students on 3 <sup>rd</sup> of August to introduce the chapter details and its activities in the BKBIET Campus.	220	Aayush Kumar Vashistha, Dipesh Lohiya	Dr. H. Rahaman	

**Year 2018**

S. Nos	Activity Held	Summary	Number of students participated	Students Coordinator	Faculty Coordinator	Sponsor(if any)
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1.	International Women's Day	Dr. Iti Sharma from Rakesh PG College was invited on this occasion on 8 <sup>th</sup> of March 2019 to give a presentation on opportunities and empowerment of women in R&D areas.	48	Ayushi Mittal, Lavanya Kaushal	Mr. Himanshu Verma, Dr. H. Rahaman	
2.	Orientation Program	A 30 minutes presentation was given to 1 <sup>st</sup> yr students on 20 <sup>th</sup> of August to introduce the chapter details and its activities in the BKBIET Campus.	200	Dhananjay Gupta, Kumud Sultania	Dr. H. Rahaman, Dr. Manoj Pandey	

**Year 2017**

S. Nos	Activity Held	Summary	Number of students participated	Students Coordinator	Faculty Coordinator	Sponsor(if any)
1	Technoarete Technical Fest	Many activities and events took place in this Technical Fest from 29 <sup>th</sup> to 31 <sup>st</sup> of March 2018. ('Workshop on big Data Hadoop and IoT using Rasperry Pi' by Geoduhup Technologies - Jaipur, 'Aptitude Test' by students, 'Career Counselling' seminar by students, 'X-Quiz Me' by Students)	60	Narpesh Singh, Dhananjay Gupta	Dr. H. Rahaman, Dr. Manoj Pandey	IFERP
2	International Women's Day	Ms. Madhu Sharma, Director and Chairperson of Brainstar Education Pvt. Ltd was invited on this occasion on 8 <sup>th</sup> of March to give a presentation on women's rights and sacrifices towards the nation	60	Kumud Sultania, Lavanya Kaushal	Dr. H. Rahaman	
3	IFERP Chapter Inauguration	Mr. Arihant Kumar, Conference Manager, IFERP Chennai visited BKBIET Pilani to officially inaugurate the IFERP students chapter on 28 <sup>th</sup> of Feb 2018.	30	Narpesh Singh, Amit Gaur	Dr. H. Rahaman, Dr. Manoj Pandey	
4.	Orientation Program	A 30 minutes presentation was given to 1 <sup>st</sup> yr students on 7 <sup>th</sup> of August 2017 to introduce the chapter details and its activities in the BKBIET Campus. The IFERP student chapter was introduced first time in the college.	200	Narpesh Singh, Mamta Tanwar, Amit Gaur	Dr. H. Rahaman,	

**7] BKBIET Innovation center (BIC):** Encouraged to be future entrepreneur. BKBIET Innovation center (BIC) serves as an incubator of entrepreneurs. BIC promotes the spirit of research & development, entrepreneurships and startups in the campus. BIC encourage students to undertake innovation challenges at National and International levels to unleash their potentials in entrepreneurial and startup nurturing platforms.

**8] Online MOOC Courses:** Faculty suggest and motivate students to join Online MOOC courses to gain extra knowledge about subjects and credits for their assessments. Many students have appeared in online test conducted by NPTEL. Recently B K Birla Institute of Engineering & Technology has been established as SWAYAM - NPTEL Local Chapter.

Fwd: LC ID 3293 - SWAYAM - NPTEL Local Chapter Established for B K Birla Institute of Engineering & Technology

NPTEL SPOC - bkoliet\_nptel@bkoliet.ac.in 10:13 (36 minutes ago)

----- Forwarded message -----

From: <socialkater@bkoliet.ac.in>  
 Date: Mon, Nov 11, 2018 at 3:10 PM  
 Subject: LC ID 3293 - SWAYAM - NPTEL Local Chapter Established for B K Birla Institute of Engineering & Technology  
 To: <skh@bkoliet.ac.in>  
 Cc: <socialkater@bkoliet.ac.in>, <...@bkoliet.ac.in>, <...@bkoliet.ac.in>

Dear Sirs,  
 Welcome to SWAYAM - NPTEL Local Chapter family!  
 Your college B K Birla Institute of Engineering & Technology has been established as SWAYAM - NPTEL Local Chapter. We would like to inform you that your college details have been uploaded on our Local Chapter website.

Your Local Chapter ID (LC ID) is 3293.  
 Please refer to this in all your future emails.

Refer to the below link to know more details about the functionalities available as a Local Chapter:  
<https://nptel.ac.in/LocalChapters/quickHints.htm>

HELP VIDEOS  
 Please refer to this link for more details available in this link

9] **BPTRC:** BKBIET has its own Research Center, **Birla Professional Training & Research Center** that empowers faculty and students to indulge in research and development. Students get training and research tools through BPTRC.

10] **BIRD: BK Birla International Relation Division** to promote international internship and studies. Students get international internship, higher study and placement facility through BIRD.

11] **TEDX:** Institute conduct TEDX talks in which eminent personalities share their experiences with students and motivate them.

12] **Social Activities:** Students are involved in social activities through NSS (National Service Scheme) and NIRMAAN Organization in which they for upbringing the backward and needy section of society do various activities e.g. Teaching poor children and conduct blood donation camp and celebrate events of national importance e.g. Republic Day, Independence Day, Hindi Divas etc.

13] **FDP/ Conference/ Workshop:** Faculty attend various FDP programs, Conferences and workshops to learn advanced tech from the experts and then share the same with their colleagues and students.

14] **Hackathon participation:** Faculty encourage and motivates students to participate in various Hackathon and competitions. This makes students more open in thinking and problem solving also students evaluate themselves on such open platforms. Following are some of the Hackathon participation data of our students:

Sl. No	Year	Event/ Challenge/ Ventures Name	Qualified Level & Project title	Students data
1.	2017	Smart India Hackathon	3 teams qualified for Grand finale Team 1 @ Nagpur: Police Booth Location Team 2 @ Nagpur: Petrol Pump Location Team 3 @ Bhopal: News on One Portal	60 participants, 10 teams – each team with 6 students.
2.	2018	Smart India Hackathon	2 teams qualified for Grand Finale Team 1 @ Chennai: GST execution Team 2 @ Ahmedabad: Indexing Spatial Temporal Data	42 participants, 10 teams – each team with 6 students.

3.	2019	Smart India Hackathon	No teams qualified	120 Students participated Total Teams: 20
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### B. Facilities & Material Beyond Syllabus Provided by Institute

Apart from it, college also actively promotes Self learning through facilities available on campus :

- Wi-Fi enabled campus
- Internet access to all the computers for the benefit of students.
- Edusat Program from the university.
- Projects, Internship Modeling Webinar, Video conferring Edusat, NPTEL materials Accession of Journals
- Newspaper of major languages
- e-notes for all subjects of all Department Digital Library
- Audio visual materials – Audio & Video cd's
- Science Exhibitions
- Group discussion & Role play / peer discussion
- Field work / Educational tours
- Lecture notes by faculty
- Old question papers

### 9.5 Career Guidance, Training, Placement (10)

Total Marks 10.00

Institute Marks : 10.00

#### Career Guidance, Training, Placement

**A. Availability of Career Guidance:** The word “guidance” originated back in the 1530s, and is defined as the process of directing conduct. Career guidance can be defined as a comprehensive assignment to assist individuals in making and implementing informed educational and occupational choices. In simple words, it is a journey on which people develop to make mature and informed decisions. It is the act of guiding or showing the way; it is the act of seeking advice. Career guidance is the guidance given to individuals to help them acquire the knowledge, information, skills, and experience necessary to identify career options, and narrow them down to make one career decision. This career decision then results in their social, financial and emotional well-being throughout. In this section 9.5 A, mentioned points were followed to impart knowledge and insight to students:-

- The Pilani Local Centre of The Institution of Engineers (India) organized an invited talk on “The Role of a Chemical Engineer in the Process Industry” in the association of Department Of Chemical Engineering, BITS Pilani Campus. The Guest Speaker for the event was Dr. Siddhartha Mukherjee, Director- Technology, Air Liquide Global E & C Solutions India Pvt. Ltd. (formerly known as Lurgi India Company Private Limited). **(Batch 2016)**
- A one day workshop was conducted on Image Processing using MATLAB under the IEI BKBIET Pilani Chapter. This workshop was intended for the broader academic community who seeks to explore the impact of MATLAB in the industry and Academics. Workshop provided students with a personalized experience that is rich with technical knowledge.
- On the foundation day of IETE Pilani Chapter a seminar was conducted by the IETE Pilani Chapter. BKBIET Students of IETE Students Forum attended the same and got the exposure to current science & technology trends enlightened by CSIR CEERI Scientists. The technical discussions during seminar were focused on the VLSI, Microwave, Embedded, MEMS and semiconductor devices. **(Batch 2017)**
- A One Day seminar on “Wireless Communication Technology” was organized under the aegis of IEI Pilani local Centre in BKBIET. The Speaker for the event was Prof. (Dr.) Julien Sarrazin, Associate Professor, University of Pierre and Marie Curie (UPMC), Paris, France.
- One Day Seminar on Renewable Energy Technologies by Dr Dheerendra Singh BITS Pilani, Dr Sachin Devassy, CEERI Pilani was conducted under IEI BKBIET Chapter. **(Batch 2018)**
- One Day Seminar on Waste to Energy Technology by Dr. R C Dubey, IES-IPS Academy, Indore, Dr. V. N. Dhaulakhandi, Director, Birla Museum, Pilani was conducted under IEI BKBIET Chapter
- One Day Seminar on Total Productive Management by Dr. C. B. Gupta, Prof., BITS Pilani and Dr. Vipin Kumar, Associate Prof., BKBIET Pilani was conducted under IEI BKBIET Chapter
- A 12 Hrs Hackathon was conducted by CSI BKBIET Chapter for all the students
- Third Year Students were guided for career in Indian Navy by the Indian Navy officials during their visit for Campus Interviews of final year students.

**B. Counselling for Higher Studies:** Prospective students should be supported in their choice of studies with optimum guidance to enable them to make a deliberate and substantiated decision on their chosen study pathway, in turn reducing programmes dropouts. Under the Counselling for Higher Studies Institute task itself in organizing presentations for pupils in final year about fields of study, to help them choose the right degree programme. BIRD give them further insights into the French higher education landscape, and also to disprove misconceptions about branches of study abroad.

- An Education Adviser from Campus France India - Ms Kanika Bharadwaj was invited to give a short presentation regarding Joint Masters Program, Higher Studies in France under the BKBIET BIRD Chapter. **(Batch 2016)**
- There was an Education Fair at Delhi conducted by n+H to motivate the students for higher studies in France. 7 students from BKBIET and 2 faculty members attended the program in Delhi under the guidance of BKBIET BIRD Chapter. **(Batch 2017)**
- Under BKBIET BIRD Chapter a Seminar was conducted by Deputy Manager from Campus France Ms Urvashi Sindhi to give a short presentation regarding Higher Studies and Joint Masters in France.
- In association with Allen Career Institute, Kota an orientation seminar on GATE was conducted by placement cell for final and third year students.
- An Orientation by Allen GATE, Kota was conducted for final and third year students. The official Mr Avinash Bedi, PRO explained the importance of GATE, Online Test Series by Allen, Facilities, Benefits, Portal, Guidance in terms of best universities who offer scholarships with stipend at national & international level, PG Courses, etc. to all the students. One Day Seminar on Waste to Energy Technology by Dr. R C Dubey, IES-IPS Academy, Indore, Dr. V. N. Dhaulakhandi, Director, Birla Museum, Pilani was conducted under IEI BKBIET Chapter. **(Batch 2018)**
- A one day seminar on Master’s study options in France along with Scholarship opportunities under BKBIET BIRD Chapter. It was presented by Mrs. Golda Malhotra (Education Coordinator – French Embassy, India)12 Hrs Hackathon was conducted by CSI BKBIET Chapter for all the students
- A one day seminar on Master’s study options in France along with Scholarship opportunities under BKBIET BIRD Chapter. It was presented by Mrs. Golda Malhotra (Education Coordinator – French Embassy, India)
- A Career Guidance Session focused on GATE was conducted for all CS & IT Students by Ms Bhagyashree, Kagya GATE Classes, Jaipur

**C. Pre-Placement Training:** Training act as a stepping stone and paves the path for a bright future. Pre-placement training, students are made to realise their positives and focus on areas in which they are best so that it increases their self-esteem. The same can be achieved by placement mentors, by providing and insight about the expected workplace behaviour, decorum, workplace ethics and dressing sense. This eases the situation and may act as an effective methodology in breaking the ice. Self-esteem, Motivational skills, Expected workplace behavior, CV and interview skills are few of the major points covered by placement team:-

- A Power Point Presentation Competition on “Engineering Challenges for Knowledge Era” was conducted under IEI BKBIET Pilani Chapter. The aim of this competition was to develop the art of public speaking, to stimulate thinking process and present them in a systematic manner with the use of information technology. **(Batch 2016)**
- Preparatory Sessions were conducted for InfoObjects, Jaipur Campus Placement Drive. Students were provided classes on Java, DBMS and Aptitude. Mock interviews were conducted for all eligible students.
- Training classes for Asahi India Glass, Gurgaon Campus Recruitment Drive was conducted by Placement Cell. Mock Group Discussion & Personal Interview sessions were conducted in these classes.
- VLSI and Embedded System preparatory sessions focused on Mindlance Technologies, Bangalore Campus Recruitment Drive were conducted for final year students.
- Preparatory sessions on Quantitative Aptitude, Analytical Reasoning, Resume & Interview preparation, Communication Skills, Group Discussion, Current Affairs & GK were conducted for Ecom Express Campus Placement Drive. Mock GD and Interviews were also conducted.
- One Day Seminar on Personality Development & Communication Skills was conducted in association with IEI BKBIET Chapter. **(Batch 2017)**
- A technical quiz i.e ‘qriosity’ was organized under the aegis of IETE Student forum. The aim of this quiz was to develop and test the technical temperament of the students and to stimulate thinking process.
- Online Practice Tests on Quantitative Aptitude, Analytical Reasoning, English Usage, Domain, and Coding were organized for student’s preparation.
- A Training Committee is formed to conduct the training sessions for final year students to guide them in GATE & Placement preparation.
- Technical and Soft Skill Development classes based on the company’s requirements were conducted time to time.
- A 10-Day Placement Preparation Program focused on Aptitude and Communication skills was conducted for all the final year students
- In-house technical preparatory sessions were conducted for Cybage Campus Placement Drive. Students were provided classes on DBMS, C Language, Pointers, Functions, recursions, Strings, Codes, Logics for palindrome no., Swapping, Searching, Sorting, Java, C++, Algorithm, Data Structures, Linked List, Trees etc.
- Pre-Placement Sessions were conducted for InfoObjects, Jaipur Campus Placement drive.
- A Skill Set programme was scheduled for final year students eligible for Secure Meters Campus Placement Drive.
- One Day Seminar on Personality Development & Communication Skills in association with IEI BKBIET Chapter. **(Batch 2018)**
- A 2-Day JAVA Workshop was conducted under CSI BKBIET Chapter for third year & final year Students.
- Under CSI BKBIET Chapter a three days Python workshop was conducted. It was conducted by the top professionals of the multinational company REDINNO”.
- IETE Student Forum at BKBIET conducted the Mock Placement Drive for final & third year students. During this mock drive participants were asked to attend the written technical and aptitude test. Shortlisted students were then asked to perform in Group Discussion and further shortlisted students were interviewed by the interview panel.
- Specific GATE oriented classes were conducted for final year GATE aspirants by faculty members of all the departments.
- Online Tests on English Usage, Written English, Quantitative Aptitude, Analytical Reasoning, Coding, and Domain were conducted for final year students under the guidance of Training & Placement Cell.
- A Training Committee is formed to conduct the training sessions for final year students to guide them in GATE & Placement preparation
- GATE preparatory classes are being conducted by the Training Committee.
- Technical & Soft Skills development classes based on the company’s requirements were conducted
- Preparatory Sessions were conducted for Hexaview Technologies Campus Placement Drive. Students were provided classes on Java, DBMS and Aptitude. Mock interviews were conducted for all eligible students.
- Training classes for final year Indian Navy Applicants was conducted by Placement Cell. Mock Group Discussion & Personal Interview sessions were conducted in these classes.
- Preparatory sessions focused on Secure Meters Campus Recruitment Drive were conducted for final year students.
- Preparatory sessions on Quantitative Aptitude, Analytical Reasoning, Resume & Interview preparation, Communication Skills, Group Discussion, Current Affairs & GK were conducted for Kesoram Industries Campus Placement Drive. Mock GD and Interviews were also conducted.

**D. Placement Process and Support:** Campus recruitment refers to the process where large companies look forward to filling certain of their vacant positions by employing freshers. With the number of millennials and fresher’s increasing at an exponential rate, conducting campus recruitment and hiring fresh talent has become an inexplicable part of most company’s hiring procedure. Recruiting young talents is the next big thing in talent acquisition as they are finally the future of company. Fresher’s are the next level of talent pipeline as it is always a great idea to get fresh, energetic and committed individuals brimming with new ideas and excited for new experiences to fulfil their dreams. They bring the much-needed ambition, hard work, drive on board with a “no strings attached” attitude to the organization:-

#### PLACEMENT PROCESS

- Placement process of students start with the registration for placement through Training & Placement Cell in Third Year of B.Tech course.
- Students are required to fill the requisite details such as personal details, contact details, academic details, technical skills, interest area, summer internship details and project details through an online Google Form.
- All the students who did not register for placement are counseled and encouraged.
- Training & Placement Guidelines are shared with students.
- Training & Placement Cell starts sharing the students’ brief profile with the prospective employers.
- After receiving the Job Description from the company, students are informed about the same and are asked to apply for the particular opportunity.
- Interested students’ applications are shared with company in desired format and based on that On/Off campus placement drives are being conducted.
- Companies visit the campus and conduct Pre-Placement Talk.
- Placement drives run throughout the year based on the recruitment panel’s availability.

#### PLACEMENT SUPPORT

- V. An association was made with CoCubes Technologies Pvt Ltd, An AON Company for the placement assistance and continuous evaluation program.
- V. An association was made with Digerati Webcrafts Pvt. Ltd., Kolkata to assist the institute for digital marketing on social media. Through this tie up Training & Placement Cell got the hits from employers on institute’s website Contact Us page and on institute’s LinkedIn page. These hits led to training & placement cell to various potential employers.
- V. An association was made with Aspiring minds for AMCAT, a worldwide accepted employability test.
- V. An association was done with Incise Infotech Pvt Ltd, Noida for providing the 9-Month training on VLSI, Cyber Security & Ethical Hacking to Final & Third Year Students.
- VI. A MOU was signed with Path Finders, Jaipur for Quantitative Aptitude Preparation of final year students.

V. MoU was signed with Allen Career Institute for GATE 2018 Online Test Series.

#### **Training & Placement Guidelines (For Batch 2016 & Batch 2017) as on 1 June 2015**

The Training and Placement Cell endeavours throughout the year to arrange opportunities for the students concerned so that they can get the scope to be shortlisted for a job offer. To ensure opportunities for all such students, the Training and Placement Cell has formulated the following, which the students are expected adhere to.

#### **Terms & Conditions regarding Job Offer for a student**

- If a student's name appears on the final shortlist declared, after the Company's selection process, through the Placement Cell, then that would be considered as a Job Offer to the student.
- **A student can avail maximum of two Job Offers through On-Campus Placement drives.**
- A student, who has already received **one** job offer, will be allowed to take part in subsequent campus placement process (On-Campus or Off-Campus drives) for second job offer.
- Pre Placement Offer is also considered as Job Offer; hence the same policy is applicable.

#### **Policies & Code of Conduct**

- The students who wish to apply to a particular company/organization are required to submit their willingness to the Training and Placement Cell within the specified deadline through submission of online application. It is mandatory on the part of such students to attend the interviews.
- Students proceeding after the pre-placement talks (PPT) for the next step in the selection process of the company cannot quit in between. **Students should continue to have positive approach towards placement drives.**
- It is mandatory for the students concerned to attend aptitude and other trainings (Resume Writing/Email Writing/GD/PI/Technical) as and when such sessions would be arranged. Strict action may be taken against the absentees.
- Attendance in PPT is mandatory after registration, to be eligible for further placement process.
- For pre-placement talks (PPT) students should be present at least 15 minutes before the scheduled time at the venue and be seated. Delay in reporting would disqualify the student from recruitment process.
- Students must be formally dressed whenever they participate in On-Campus or Off-Campus Recruitment Drive. Formal clothes for men include formal shirt, trousers, and leather shoes. Formal clothes for women include either a pair of Salwar-Kameez or formal shirt and trousers. Ties and other formal accessories are optional.
- Students must carry their Institute Identity cards at all times during the placement process.
- Students must carry Resume in pre-defined format by Placement Cell, at least one photocopy set of Marks sheets, Certificates, Original ID Card and minimum 4 Passport size photographs during Campus Recruitment Drive.
- Direct communication with the company officials by such students, without the knowledge of the Training & Placement Cell, is strictly prohibited. If students face any difficulty or have any query, they should contact the T&P Cell only. Students should not get in touch with the prospective recruiter in any other manner.
- If a student receives Job Offer from any company through Off-Campus recruitment drive, he/she must update the Placement Cell with the information through e-mail along with photocopy of the Job Offer/Appointment letter as soon as possible.
- Decorum should be maintained by the students during the Placements/Recruitment programme. Any behavior bringing disgrace to the Institute will not be tolerated and strict action will be taken against such students. Students should follow professional etiquettes. If found guilty, such students will be disqualified from further placement activities.
- All post job-offer communication between student and company should be channeled through the Placement Cell.
- Keeping the company's convenience in view, selection processes may take place in Institute Campus or any other venue as would be suggested by the Company. The students may be required to travel and attend the same. The institute may help students with travel and other arrangements.
- Those students, who do not wish to participate for any recruitment process, must inform the T&P Cell well in advance.
- A student, who receives multiple Job Offers, must submit letters of regret to the rest of the companies, whose offer he/she is not accepting. A copy of such letters must be marked to the Placement Cell also.
- If market situation and Job scenario necessitates a revision in the Placement Policy, it will be done in a manner so as to ensure maximum benefit to the student community as a whole.

Lastly but importantly, please note the role of the Training and Placement Cell is of a facilitator and counselor for placement related activities. Training and Placement Cell does not guarantee a job.

#### **RULES AND REGULATIONS FOR PLACEMENTS (For Batch 2018) as on 1 June 2017**

##### **A. Placement**

##### **1. ELIGIBILITY & REGISTRATION**

- 1.1. All students who expect to graduate from the Institute by the end of the academic year and are seeking employment may register for campus placements with the office. Placement Registration is for One Academic Year Only.

- 1.2. Registration for students will be done within the month of July. The Registration may be done through shared email for registration process.
- 1.3. Campus placement is a facility provided for the students of BKBIET, Pilani. Registration is not compulsory at all. Students not interested in placements are requested not to register for placements. Only registered students are allowed to appear in campus recruitment process.
- 1.4. Students who have acquired their degrees and were not placed in the earlier year will not be allowed to re-register.
- 1.5. Students are required to express their willingness in writing for appearing in the campus recruitment process for a particular company. If a student does not appear in that company even after expressing willingness in writing, S/he will be disallowed from the placements for the rest of the academic year.
- 1.6. There will be three different tiers of companies visiting BKBIET, Pilani for campus recruitment drive. In TIER-I, companies offering more than Rs. 6 (Six) lakhs package per annum will be placed. In TIER-II, companies offering more than Rs. 4 (four) lakhs and lesser than or equal to Rs. 4 (Four) lakhs package per annum will be placed. In TIER-III, companies offering upto Rs.4 (four) lakhs package per annum will be placed. The students already placed in TIER-III will not be allowed to appear further in any TIER-III company. However, already placed students in TIER-III will be allowed to appear in any TIER-II or TIER-I companies till they are not getting a maximum of two job offers. If any student gets a maximum two job offers from two different companies, then he/she will not be allowed to appear further in any other recruitment drive.
- 1.7 Pre Placement Offer is also considered as Job Offer; hence the same policy is applicable.
- 1.8. Students will be de-registered from the placement cell if they are involved in any in disciplinary activities in any stage of the campus recruitment.

## 2. RESUME

- 2.1. Students are expected to follow the institute resume template shared through email for preparing resume. All the students must get their resumes cross checked by faculty coordinators for mistakes and factual errors.
- 2.2. The details of the resume have to be genuine.

## 3. CAMPUS PLACEMENT DRIVE PROCESS

- 3.1 Notices of the placement drive process will be displayed on the notice board of Training & Placement Cell of the Institute. Students should occupy the venue 15-minutes prior to the commencement of drive.
- 3.2 Students interested in a particular company, must attend its Pre- Placement Talk without fail.
- 3.3 Students must clarify details regarding salary break-up, job profile, place of work, bond details etc with the companies during PPT.
- 3.4 It is the responsibility of the student to check announcements/notices/ updated information/shortlisted names etc. in the notice boards of Training & Placement Cell Office.
- 3.5 Late comers for aptitude test/GD / interview may not be allowed to appear for the selection process.
- 3.6 A student who applies and gets shortlisted is bound to go through the entire selection process unless rejected midway by the company. Any student who withdraws deliberately in the midst of a selection process will be disallowed from placement for the rest of the academic year.
- 3.7 Students should maintain discipline and show ethical behavior in every action they take during the placement process. Any student found violating the discipline rules set by the company or defaming the institute name will be disallowed from the placements for the rest of the academic year.
- 3.8 Students found cheating or misbehaving in the selection process (PPT/Test/GD/Interview) will be disallowed from the placements for the rest of the academic year.

## 5. JOB OFFERS

5.1. The copy of the offer letter is required to submit in the placement office.

5.2. MULTIPLE OFFERS:

- a) A student is allowed (as per eligibility criteria set by the companies) to appear in ongoing placement process for multiple companies until the student bags first job offer.
- b) If a student receives more than one offer owing to delays in the announcements of results by the companies, the student is bound to accept the job offer whose results are declared earlier.
- c) If the results are declared on the same day, the student may choose from the offers in hand and inform the placement office of his choice, within 24 hrs of announcement of results.

## 6. MISCELLANEOUS

6.1 MEDICAL TEST: The Placement office assumes that every selected student will pass the medical test. If there is a rejection at this stage, the student will be allowed to seek placement through this office again.

6.2 JOINING STATUS: In case, students decide not to join the company, they should inform the company in writing in advance. They are also required to submit a copy of that letter to the Placement Office.

6.3 DRESS CODE: Students must be formally dressed.

A. Boys: Black trouser, white shirt, tie, formal black shoes.

B. Girls: Black trouser, white shirt, formal black shoes.

6.4 IDENTITY CARDS: Students must bring their identity cards with them whenever they go through a placement process.

## B. Training Rules and Regulations

### 1. COMMUNICATION SKILLS AND PERSONALITY DEVELOPMENT

1.1. Pre-final year / Final year students are required to participate Workshops / Training Programs organized by Training & Placement Cell compulsorily. It is the responsibility of the student to check announcements/notices/ updated information on the notice boards of Training & Placement Cell. Student may be disallowed for campus placement process for not attending the Workshops / Training Program.

1.2 Student-Clubs are encouraged for conducting the same types of programs under student activity scheme of BKBIET.

**NOTE: For all matters not covered by the above regulations, the Placement Office will use its discretion to take appropriate decisions.**

### Training Committee | Batch 2016

Aptitude & Soft Skills	Department
Mr Amrish Bhatnagar	Placement
Mr Buddhi P Sharma	Electronics & Communication



Mr Harsh Kumar Singh	Placement
Mrs Kritika Sharma	Placement
Dr Manusmriti Gaur	English
Mr Manoj Kumar Saini	Computer Science
<b>Technical</b>	<b>Department</b>
Dr Nimish Kumar	Computer Science
Mr Gopal K Prajapat	Computer Science
Mr Pradeep Singh Shekhawat	Computer Science
Mr Ramakant Soni	Computer Science
Mr Rakesh Saini	Computer Science
Dr Smita Pareek	Electrical
Mr Rajesh S Shekhawat	Electrical
Mr D C Sharma	Mechanical
Mr Divesh Rohilla	Mechanical
Mr Chittaranjan	Mechanical
Mr Santosh Jangid	Electronics & Communication
Mr Ramesh Jangid	Electronics & Communication
Mr Sanjay Saini	Electronics & Communication

**Training Committee | Batch 2017****Training Committee**

<b>Aptitude &amp; Soft Skills</b>	<b>Department</b>
Mr Buddhi P Sharma	Electronics & Communication
Mr Harsh Kumar Singh	Placement
Mrs Kritika Sharma	Placement
Dr Manusmriti Gaur	English
Mr Manoj Kumar Saini	Computer Science
Mr Reetesh Gautam	Placement

<b>Technical</b>	<b>Department</b>
Dr Nimish Kumar	Computer Science

Mr Gopal K Prajapat	Computer Science
Mr Pradeep Singh Shekhawat	Computer Science
Mr Ramakant Soni	Computer Science
Mr Rakesh Saini	Computer Science
Dr Smita Pareek	Electrical
Mr Rajesh S Shekhawat	Electrical
Mr D C Sharma	Mechanical
Mr Divesh Rohilla	Mechanical
Mr Chittaranjan	Mechanical
Mr Santosh Jangid	Electronics & Communication
Mr Ramesh Jangid	Electronics & Communication
Mr Sanjay Saini	Electronics & Communication

**Training Committee | Batch 2018****Training Committee**

<b>Aptitude &amp; Soft Skills</b>	<b>Department</b>
Mr Buddhi P Sharma	Electronics & Communication
Mrs Kritika Sharma	Placement
Dr Manusmriti Gaur	English
Mr Manoj Kumar Saini	Computer Science
Mr Reetesh Gautam	Placement
Mr Robin Raj	Placement

<b>Technical</b>	<b>Department</b>
Dr Nimish Kumar	Computer Science
Mr Gopal K Prajapat	Computer Science
Mr Pradeep Singh Shekhawat	Computer Science
Mr Ramakant Soni	Computer Science
Mr Rakesh Saini	Computer Science
Dr Smita Pareek	Electrical
Mr Rajesh S Shekhawat	Electrical
Mr D C Sharma	Mechanical

Mr Divesh Rohilla	Mechanical
Mr Chittaranjan	Mechanical
Mr Santosh Jangid	Electronics & Communication
Mr Ramesh Jangid	Electronics & Communication
Mr Sanjay Saini	Electronics & Communication

**Schedule | Placement Preparatory & GATE Practice Sessions (Batch 2016)**

Dear Students

To assist you in your Placement & GATE preparation we are conducting the Placement Preparatory & GATE Practice Sessions from 6 July 2015 onwards in following manner. All the registered students are hereby informed to attend these sessions regularly for optimum output.

Batch 2016						
Venue: ABTRC Hall 1 & 2						
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<b>CS &amp; IT</b>	Analytical Reasoning Mr Manoj Kumar Saini	Quantitative Aptitude Mr Buddhi P Sharma	Soft Skill Development Mrs Kritika Sharma	Programming in C Mr Pradeep S Shekhawat	DBMS Mr Gopal K Prajapat	Data Structures Dr Nimish Kumar
<b>EE &amp; EEE ECE</b>	Soft Skill Development Mrs Manusmriti Gaur	Analytical Reasoning Mr Manoj Kumar Saini	Quantitative Aptitude Mr Buddhi P Sharma	Circuit Analysis Mrs Monika Shekhawat	Power Systems Mr Rajesh S Shekhawat Digital Electronics (ECE) Dr Manoj K Pandey	Analog Electronics Mr Ramesh Jangir

**Schedule | Placement Preparatory & GATE Practice Sessions (Batch 2017)**

Final Year T&amp;P Enrolled Students,

Find below the schedule of **10- Day Placement Preparation Program**. You all are required to report as per your respective group accordingly @ BPTRC from **26-Aug-2016 to 4-Sep-2016**

Group 1	Group 2
CS, IT, MCA	ECE, EE, EEE
72+6+6	50+29+25
<b>84</b>	<b>104</b>

Date	Day	Communication	Quantitative
		G1	G2
		G2	G1
		G1	G2

26 <sup>th</sup> Aug16	Fri	2 PM - 4 PM	2 Hrs	4 PM - 6 PM	2 Hrs				
27 <sup>th</sup> Aug16	Sat	2 PM - 4 PM	2 Hrs	4 PM - 6 PM	2 Hrs				
28 <sup>th</sup> Aug16	Sun	9 AM - 1 PM	4 Hrs	2 PM - 6 PM	4 Hrs	2 PM - 6 PM	4 Hrs	9 AM - 1 PM	4 Hrs
29 <sup>th</sup> Aug16	Mon	2 PM - 6 PM	4 Hrs					2 PM - 6 PM	4 Hrs
30 <sup>th</sup> Aug16	Tue	2 PM - 6 PM	4 Hrs					2 PM - 6 PM	4 Hrs
31 <sup>st</sup> Aug16	Wed	2 PM - 6 PM	4 Hrs					2 PM - 6 PM	4 Hrs
1 <sup>st</sup> Sep16	Thu							2 PM - 6 PM	4 Hrs
2 <sup>nd</sup> Sep16	Fri			2 PM - 6 PM	4 Hrs	2 PM - 6 PM	4 Hrs		
3 <sup>rd</sup> Sep16	Sat			2 PM - 6 PM	4 Hrs	2 PM - 6 PM	4 Hrs		
4 <sup>th</sup> Sep16	Sun			9 AM - 1 PM	4 Hrs	9 AM - 1 PM 2 PM - 6 PM	8 Hrs		
Total Hours		20 Hrs		20 Hrs		20 Hrs		20 Hrs	
		40 Hrs				40 Hrs			

- It's MANDATE for all the enrolled students to attend these sessions. Make use of these sessions as much as possible. Whatever assignments given to you by the respective faculties, you all need to do the needful and complete the assignments in time.

#### Schedule | Placement Preparatory & GATE Practice Sessions Batch 2018

DATE	TIME	SESSION	FACULTY	VENUE
Monday	2:00-3:00 pm (60 mins)	QAT (Quantitative Aptitude Test)	Mr. Budhi Prakesh /	
	3:00-4:00 pm (60 mins)	EUT (English Usage Test)	Dr Manusriti	
Tuesday	2:00-3:00 pm (60 mins)	QAT (Quantitative Aptitude Test)	Mr. Budhi Prakesh /	
	3:00-4:00 pm (60 mins)	EUT (English Usage Test)	Dr Manusriti	
Wednesday	2:00-4:00 pm	DBMS	Mr Gopal Krishan Prajapat	
	4:00-6:00 pm	C, Pointers, Function, Recursion, Strings, Multi-dimensional Array Implementation, etc.	Shridhar Sir	
Thursday	2:00-4:00 pm	Data Structures, Linked List, Complexity, Trees, etc.	Mr Nimish Kumar	BPTRC Hall-2
	4:00-6:00 pm	Codes/ Logics for Palindrome No., Fibonacci, Swapping, Factorial, Searching, Sorting, etc.	Mr Sanjeev Sultania	
Friday	2:00-3:30 pm	Algorithm	Mr Ramakant Soni	
	3:30-5:00 pm	Java, C++	Mr Pradeep Singh Shekhawat	
Saturday	5:00-6:00 pm	CODING Test		Computer Labs (1 & 2) and MCA Labs
	11:00-4:00 pm	DOMAIN Test		(60 mins)

#### Strategies, Planning & Policies for Upcoming Session

##### 1. Seminar/Orientation:

- In first week of August, there would be a seminar/orientation for final year and pre final year students.
- All final year and pre final students have to attend it (mandate for all).

**2. Seminar/Orientation Key Points:**

- Activities/events/initiatives with previous Batches
- Analysis/challenges
- Student's participation and performance
- Motivation to present Batches i.e., final and pre final year students

**3. Enrollment Process:**

- For enrollment with Training & Placement Cell, one has to fill up the form which would be made available in Training & Placement Cell wherein the students of final and pre final year have to fill all credentials mentioned and submit relevant documents.
- The enrolled student has to register for CoCubes.com by paying the fees (registration mandate).
- The student could register in AMCAT by paying the fees (registration optional).
- Those enrolled with T&P Cell would be registered by Institute for Expert/Corporate Training and In house training.
- For the Allen Gate, both enrolled and not enrolled students would be registered by the Institute (mandate for all final and pre final year).

**4. Eligibility Criteria for Placement Activities/Events:**

- The enrolled students have to possess 80% attendance in all activities/events of Training & Placement Cell till scheduled Drive/Opportunity.
- The enrolled students have to score 80% in all activities/assessments/assignments of Training & Placement Cell till scheduled Drive/Opportunity.

**5. Campus Recruitment Drive and Other Career Opportunities:**

- If a student is Eligible (as per above and corporate criteria) & Enrolled, it is mandate to sit in On Campus and Off Campus Drives unless secure an Offer.
- In case of opportunities provided by CoCubes.com and AMCAT, if eligible, student has to give response (applying or not interested). If applying, then must appear in the Drive.
- If a student is unable to appear in the above mentioned opportunities, he/she has take prior permission from respective Principal.

**6. Other Points:**

- If the student is placed through On Campus Drive, may not appear in another On Campus Drive, unless the CTC is at least twice higher than the previously offered or the next company is Dream/Core, wherever applicable & feasible.
- All the students are eligible to attend other than On Campus Drives like – Pool Campus, Job Fair, Off Campus, Joint Campus, etc. irrespective of their placement status, company and CTC.
- If any of the CoCubes or AMCAT Drives/Event conducted at BKBIET Campus, then it would be considered as On Campus Drive.
- Above 3 points are not applicable, only if the company permits. Usually companies ask for only non-placed candidates.
- The student would be considered placed, if he/she receives the Confirmation, Offer Letter or Letter of Intent.
- CTC is considered as Post Training Salary Package, wherever applicable.
- Without invitation, all students must keep their records updated with T&P Cell and on CoCubes/AMCAT, as it get changed, else they will be responsible for any incorrect filters in terms of Eligibility Criteria and will not be appended to the list of Eligible Candidates.
- If someone having plan for not doing job after B.Tech (opting Master's/Business, etc.) must not register the name/s voluntarily, so that the rare opportunities are not captured from the needy candidates.

**Sample Invitation Mail to Corporate for Campus Placement (Batch 2018)**



**Entrepreneurship Cell**

Entrepreneurship is a key driver for creative technology and economic growth of our nation. Therefore, BKBIET established Entrepreneurship Cell (E-Cell) on 7<sup>th</sup> of December 2016 through a workshop of entrepreneurs and teaching faculties held at BPTRC Hall, BKBIET Campus with the aim of creating awareness and promote entrepreneurship and startup ecosystem for the students. Engineering colleges are right place to breed innovation which along with exposure of entrepreneurship push the students for employment opportunities with job creation rather than job seekers. Govt. of India has emphasized the career of entrepreneurship for students by means of several schemes, benefits or privileges through programs like Startup India, Make in India, and Digital India etc.

The E-Cell provides infrastructure and technical support to the students having innovative ideas to transform into new products and services for entrepreneurial ventures. The activities in the Cell have enhanced the capabilities of the students during campus recruitment drive also. The E-cell is run by the student council members comprises about 15 members every year. Establishment of E-Cell was recognized by Rajasthan StartUp Policy, Govt. of Rajasthan in March 2017. Recently, on 11<sup>th</sup> of Sept, MHRD's Innovation Cell has bestowed Institution Innovation Council (IIC) for the year 2019-2020.

BKBIET has allocated a dedicated building named '**Birla Professional Training & Research Centre**' for research and development activities. Dedicated faculties train the students of all branches at this place. The students are given exposures to scientific research and make them industry-ready.

**a. Vision**

To stimulate, support and sustain all initiatives and endeavors of students, which will lead to generation of entrepreneurship based on Engineering and Technology.

**b. Ideology**

- To motivate and inspire students to take up the challenge of entrepreneurship.
- To equip them with necessary skills and provide all possible assistance.
- To promote creative thinking and an entrepreneurial mindset among the students.
- To promote innovations and help convert them into market accepted Products

**Entrepreneurship objectives**

1. Motivate and inspire the spirit of entrepreneurship as a career option for BKBIET students.
2. Inculcate students for model or product development with innovativeness and linking it with academic projects.
3. Create awareness of the realities and challenges in venture initiation.
4. Promote various innovation challenge contests.

**A. Entrepreneurship Initiatives**

1. E-Cell organizes several entrepreneurship talks and workshops throughout the year: Alumni entrepreneurs meet, entrepreneurs talk by alumni, industrialists and Startup ventures. It also includes Eureka workshop for B model competition and participation in E- summit.
2. Conducts in-house competition of various events such as intra Hackathon competition, mini workshops like linux, image processing, new ventures lunched by students/ Alumni etc.
3. Organizes seminars and workshops on IoTs/ Drone/ Robotics etc.
4. Organizes IPR (Intellectual Property Rights) camp for patents and copyrights.
5. Promotes innovative challenges competition in the state and national level: Smart India Hackathon (SIH), Indian Innovation Challenge Design Contest (IICDC), DRDO Robotics and Unmanned System Exposition (DRUSE) etc.

**Product Development**

There are several products developed by students for grand challenge competitions and commercial purposes:

1. 'Police booth location' - Apps for Ministry of Road, Transport & Highways. (Qualified for grand final SIH 2017)
2. 'Petrol Pump location' - Apps for Ministry of Road, Transport & Highways. (Qualified for grand final SIH 2017)
3. 'News on One Portal' – for National Commission for Child Rights Protection. (Qualified for grand final SIH 2017)
4. 'GST execution' – for Ministry of Urban Development. (Qualified for grand final SIH 2018)
5. 'Indexing spatial temporal data' – for ISRO. (Qualified for grand final SIH 2018)
6. 'My Invented' 2017– Services on Internet website design, customized software, business and marketing solution.
7. 'Uncle Cabby' 2018 - online cab booking service.
8. 'The Guruji' 2019 - Apps for educational portal to provide online course and exam papers.

**Research Laboratories**

1. BIC Lab- The lab is equipped with internet and basic facilities (Arduino, raspberry pi, microcontroller, solar panels, drone kits, basic boards and all type of sensors etc.) for the students for making their projects with creative ideas.
2. Computer Lab - The lab is equipped with 35 computer with internet facilities for coding & designing, website development, windows and mobile software apps development. 10 of the computers are dedicated for cadence tools to train the students for VLSI and make them ready for placement purpose.
3. Electric Motor and PLC Lab - The lab is equipped various types of Special motors with control panel like Dual Voltage Motor, Brake Motor, Multispeed Motor, Textile motor etc. It also includes ractical models of Programmable Logic Controller (PLC) like Allen Bradly Micrologix 1000, Allen Bradly Mico830 & Genie-NX PLCs etc.
4. Practical & High Voltage Lab – The lab is equipped with different models of industrial induction motors, circuit breakers samples, high voltage transformer oil tester and Schering bridge kit for dissipation loss measurement of insulators.
5. Motivate and inspire the spirit of entrepreneurship as a career option for BKBIET students.

6. Inculcate students for model or product development with innovativeness and linking it with academic projects.
7. Create awareness of the realities and challenges in venture initiation.
8. Promote various innovation challenge contests.

#### B. Data on Students Benefitted

1. IICDC (India Innovation challenge design contest) 2016: One team comprises two students selected for Quarter Final level.
2. SIH- 2017: Three teams were selected for Grand finale with each team comprised of five members. 66 students participated.
3. SIH – 2018: Four teams were selected for Grand finale. 42 students participated.
4. SIH- 2019: No teams were selected, but record number of 120 students participated in this competition that includes both hardware and software edition.
5. DRUSE – 2018: 1 team comprised of 4 students were selected for quarter final. 6 students participated with formation of two teams.
6. 13-14<sup>th</sup> Sept 2017: Two days workshop on Drone: 25 students participated.
7. Two days workshop by in-house trainer on IoTs for 1<sup>st</sup> and 2<sup>nd</sup> year students every year in the month of Sept/ October: 50 students participates.
8. 26<sup>th</sup> Aug to 10<sup>th</sup> Sept 2018: 3 students from BKBIET were selected to visit Silicon Valley by DoIT & C, Govt. Rajasthan.
9. 27<sup>th</sup> Sept 2018: Eureka workshop. 52 students participated in this workshop and further 3 students participated in the E-Summit of IIT Mumbai on 19<sup>th</sup> – 20<sup>th</sup> June 2019.
10. 4–5 students make their final year projects with the support of E-Cell.
11. Chirag Gupta (2017 passout) – won first prize for **Rural Innovation and Design Challenge** contest 2017-18 in Rural Innovation and Start-up Conclave (RISC) meet 2018.
12. Bhupesh Mittal (2017 passout): He has four startup ventures – My invented started on 2017, Speak in India started on 2017, Urban Niwas on 2019, and Career decision AI pvt. Ltd. 2019.
13. Rabi Jalan, & Rupesh Singh Rathore (2018 passout): One venture – UncleCabby started on 2018- provides driver on demand service.

#### 9.7 Co-curricular and Extra-curricular Activities (10)

Total Marks 10.00

Institute Marks : 10.00

##### A. Availability of Sports and Cultural Facilities

###### 1. Music Room:

The Institute has a well-equipped music room having a variety of musical instruments the details of which are as follows:

S.No	Name of Instrument	Specifications	Accessories	Quantity
1	Keyboard	CASIO CTX 8000	Adaptor, Bag, and Stand	01 No
2	Octapad	Roland SPD 30	Adaptor, Stand, Stick Set	01 No
3	Drum Set	PEACE	Crash, Cymbal, Double Paddle, Single Paddle, EVANS skin set, Stick set, High Hat	01 Set
4	Tabla			02 Pairs
5	Dholak			01 No
6	Congo		Three pc set	01 Set
7	CAJON	Wooden		01 No
8	Sitar			01 No
9	Acoustic Guitar	Kadence	Cover, Strap	01 No
10	Electric Guitar	(1) Yamaha	Cover	01 No
		(2) Grason	Cover	01 No
		(3) Givson	Cover	01 No
11	Bass Guitar	(1) Yamaha	Cover	01 No
		(2) Grason	Cover	01 No
12	Tambourine			01 No



13	Kabbas			01 No
14	Ampli-Speaker	(1) Marshall COD		01 No
		(2) Kustom Sound		01 No
		(3) Sinagar		01 No
15	Guitar Processor	(1) Boss DS-2		01 No
		(2) Digital		02 Nos
16	Aux Cables	6.5 mm Jack both side	(3 meters x 3, 6 meters x3)	06 Nos

#### 1. Sports Facilities:

The BKBIET owns indoor and outdoor sports facilities with different playgrounds as per standard sizes, equipped with floodlights and a wide range of sports accessories available for both students and faculty members. There are also two recreation rooms equipped with caroms, chess, etc. in the Indoor sports complex. The details of all the grounds and accessories are as follows:

##### Playgrounds:

S.No	Play Grounds	Indoor / Outdoor	Size (m <sup>2</sup> )
1.	Football Ground with flood lights =1	Outdoor	100x50
2.	Cricket Ground with flood lights =1	Outdoor	20x3.05
3.	Basketball Ground with flood lights = 2	Outdoor	28x15
4.	Volleybal Ground with flood lights = 2	Outdoor	18x9
5.	Badminton Court with flood lights = 2	Indoor	13x6
6.	Tennis Court	Outdoor	23x8

##### Sports Accessories:

S.No	Name of Items	Quantity
1	Basket Ball	18
2	Volleyball	12
3	Volleyball Net with Iron Rope	4
4	Lawn Tennis Ball	60
5	Cricket Ball Leather	36
6	Cricket Bat	4
7	Football Keeping Gloves Set	2
8	Badminton Shuttle Cock	36
9	Batting Gloves	6
10	Tennis Ball for Cricket	30
11	Batting Pad	6
12	Cricket Mat	1
13	Bat Grips	6
14	Cricket Stump Set	4

15	Inner gloves for wicketkeeper	2
16	Chest Guard	3
17	Elbow Guard	3
18	Air Pump	2
19	Cricket Keeping Gloves set	2
20	Cones	24
21	Helmet	5
22	Medicin Ball For Basketball	1
23	Table Tennis Ball	24
24	Lawn Tennis Net	1
25	Football	12
26	Cricket Net	2 Sets
27	Badminton Racquet	3
28	Shot-put	4
29	Chess	3
30	Carom	5
31	Discucus	4
32	Volleyball Entina	8
33	High Jump Stand with Bar	1
34	Clapper	1
35	Baton	9
36	Javelin	5
37	Stop Watch	8
38	Table Tennis Table	5
39	Table Tennis Bat	4
40	knee Cap	6
41	Cricket Kit Bag	2
42	Basket Ball Net	5



#### 1. GYM (Power Zone):

Fitness is one of the essential aspects of a human being, and that's where gym and sports come into the picture. B K Birla Institute of Engineering and Technology has a fully equipped gym, which has given its students a healthy lifestyle over a period of 10 years. BKBIET has always provided a constant focus on the overall development of the students as well as the faculty. Thus the institute sees that there should be a sportsman spirit in everyone so that all can progress. Therefore the institute set up a power zone- the gym for the students and staff. Powerzone has always been excelsior in different events so organized by various universities and different professional bodybuilding, powerlifting, and weight lifting competitions.

Proper maintenance of all work station is done on regular basis and proper record is maintained for it.

Year wise medal tally (2010-2019)

year	Name of competitions	No. of competitions	Powerlifting			Body Building			Weight Lifting			Total
			Gold	Silver	Bronze	Gold	Silver	Bronze	Gold	Silver	Bronze	
2010	BOSM	1	1		1	1						3
2011	BOSM	1	1	4	1	2	1	1				10
2012	BOSM,MST,BHU	3	10	5	2	10	3	1		1		32
2013	BOSM,MST	2	3	8	2	4	4	5	2	1		29
2014	BOSM,MST	2	5	3	1	4	6	2	2	1		24
2015	BOSM,BRCM	2	3	3	1	3	2	3			1	16
2016	MST	1	3	2	2		3	1		2	1	14
2017	BOSM,MST	2	5	6	1	5	2	1	3	1	1	25
2018	MST	1	3	3	1	2	2		1	2	2	16
2019	BOSM	1			3		2	1				6



### National Service Scheme (NSS)

#### 2016-2017

##### Blood Donation Camp (25th Sept 2016)

- Pandit Deendayal Upadhyay's birth anniversary i.e. 25th Sept 2016 is celebrated with a 3 day Blood Donation Registration Camp. In this registration camp 400+ Rakhtdata Sankalp Patra were filled by students & staff. Other than this our NSS- volunteers regularly donate blood at Birla Sarvajanic Hospital, Pilani. Our idea of registration is that a Healthy Human is a Mobile Blood Bank ready to donate anywhere any time required.

##### IQ Workshop (16<sup>th</sup> Jan. 2017)

- Held on 16<sup>th</sup> Jan 2017, by Hare Krishna Mission,
- In this lectures/expert talk were given on how to cope out of stress especially first year students.
- And how to make balance between studies, college life and spiritual life.

##### General Health Awareness Programme (16<sup>th</sup> Jan. 2017)

- In this a general training was given to students on how to check BP, Blood Sugar, and basic First Aid tips by a team of experts and doctor (Dr. R P Pareek).

##### Voters Awareness Camp (25<sup>th</sup> Jan 2017)

The aim of this camp is to motivate students about their voting rights and how to use it for nation building.

#### International Yoga Day (21<sup>st</sup> June 2017)

To celebrate international Yoga Day, we organized 3 day camp from 6: 00 am -7:00 am in our campus, an expert from L N Birla Yoga Kendra was called for the camp.



**Blood Donation Camp**



**IQ Workshop**



**General Health Awareness**



**Voters Awareness Camp**



**International Yoga Day**

#### **2017-2018**

##### **Run for Unity (31<sup>st</sup> Oct 2017)**

- In this event students participate in a marathon to celebrate the Birthday of Sardar Vallabhbhai Patel. And take a pledge for the unity of India.

**Wall Painting (3 -15 March 2018)**

Students participated in wall painting in which outer walls of institute were painted in collaboration with Municipal Board Pilani.



**Run for Unity**



**Wall Painting**

**2018-2019****Literacy Day (8 Sep 2018)**

- Celebrated Literacy Day in Govt. School located in nearby village.
- Conducted various Quizzes.

**Self Defense Workshop (24 Sep 2018)**

- A Two day Self-Defense Workshop was conducted in which a Martial arts expert trainer provided basic training to students.

**Gandhi Jayanti (2 Oct 2018)**

- Celebrated "Gandhi Jayanti" in our campus by starting a "Clean –Campus Drive", in the morning starting from 7 :00 am

**Two Day Special –Camp (10<sup>th</sup> -11<sup>th</sup> March 2019)**

- In this camp Students visited Slums and villages and do some activities regarding health & medical issues and education.

**Candle March (16 Feb 2019)**

- Students participated in candle march to show their love and pay homage to our soldiers who died in Pulwama attack on 14 February, 2019.

**International Yoga Day (21 June 2019)**

Students and staff participated in this one day Camp from 6:00 am to 7: 00 am



**Literacy Day****Self Defense Workshop****Gandhi Jayanti****Two Day Special –Camp****Candle March****International Yoga Day****C. Annual Student Activities****1. BASANT (Annual Cultural Fest)**

The annual cultural fest 'BASANT' is celebrated in the month of March/April every year. The fest is basically structured to provide students, a platform to realize their creative talent in the field of technology, sports and cultural activities. It plays an important role in shaping the personality of the students. The name of college fest is in consonance with the spring that embodies rejuvenation and vibrancy of life. Spring is a time that evokes enthusiasm and creative expression of talent and is so relished by students. We, through BASANT, have had the pleasure of hosting exceptional performers like Deep Money, Gajayendra Verma DJ Smita and many other artists.

Day 1: Begins with an Institute video showcasing achievements of last year, followed by Lamp Lighting, Vandana and traditional dances. The first day is generally considered as the "Traditional Day".

Day 2: Despite having enjoyed late into the night, all students are raring to go with Solo, Group dance and Singing performances. The major attraction "Nakshatra" fashion show comes to its pre-final round. The "Josh" picks up with the high-energy events like Unplugged, War of Bands and Footloose.

Day 3: Once again, the evening brings the students to the open ground where the dance competitions goes to the Final round. The results declaration, Nakshatra final round and Cracker show are some of the eye catching events for the final day. The event closes with a speech from chief guest and a video depicting the events organized in last three days and promising to be back next year with utmost enthusiasm and vigor.

#### Team BASANT:

We had a core committee for BASANT. It includes principal, BASANT faculty chief coordinator, BASANT faculty co-coordinator and student coordinator. For each event there is a staff coordinator and student coordinator. All the heads of department provide support to staff coordinators to organize and conduct the various events.

#### CORE COMMITTEE BASANT

Designation	Staff Name
Chief Coordinator	Dr L Solanki Principal Academics
Faculty Coordinators	Mr Ankit Sharma & Ms Monika Jangir
Student Coordinators	Selected Students
Support Staff	Support and Admin staff



**Group Dance Performance**



**DJ Night**



**Classical Dance Performance**



**Winners**

#### 2. QUASAR (Annual Techno- Sports Festival)

Quasar is an annual Tech/Sports Events hosted at B K Birla Institute of Engineering and Technology. Our premier five-day annual extravaganza offers sportspersons across the country the ideal opportunity to show their mettle. It is celebrated in the month of October/ November every year. Several events, including basketball, football, volleyball, cricket, LAN gaming, kabaddi, tug of war, table tennis, lawn tennis, chess, carom, and marathon race are organized. It also include many technical activities, like paper presentation, radio jockeys, movie making, debate, poster making competition, quiz, followed by the most awaited athletics meet.

In addition to the huge participation, BKBIET has first class facilities like a floodlit Basketball Court, floodlit Tennis Court, Athletics Track, Football Ground and Cricket ground, which shall be playing host to all the Quasar events.

The entire meet are well supported and coordinated by both faculty and students. Discipline, integrity and self-esteem are always at high and is the bench mark for the event. Hygiene and cleanliness is nicely taken care off by administrative and support staff.

To be the best you need to beat the best, QUASAR offers you the chance to face the best, it's a platform for champions in pursuit of glory. Few technical & non-technical events organized are:

#### Non-Technical Events

Basketball	Football	Volleyball	Cricket
LAN Gaming	Kabaddi	Tag of War	Table tennis
Lawn Tennis	Chess	Carrom	

#### Technical Events

Paper presentation	Movie making	Debate
Poster competition	Quiz	

Technical competition between different student chapters (IEEE, ACM, IETE, ASME, and IEI) are also a showcase of the event.

#### Blood Donation Camps

Every Year we organize Blood Donation Camps, Charity Runs, Cleaning Missions and Education Endorsement Events. The strength in number of footfall, keeps encouraging us to conduct the events on regular basis.

#### Marathon Run

At Quasar, we organize a marathon every year for creating awareness about various social issues and problems and this is one of the most celebrated and iconic event of Quasar.

Padma Shri and Arjuna Award recipient **Mrs. Krishna Poonia**, an international Gold-medalist, 3 times Olympics participant current MLA from Sadulpur constituency in Rajasthan, was the chief guest for the Event.

#### Quasar Committee

S.No.	Committee	Faculty Incharge
1	EVENT CONVENER	Dr. L. Solanki
2	SPORTS COORDINATOR	Mr Bool Chand
3	INAUGURATION & CLOSING	Mr. Rakesh Saini Mr. Reetesh Gautam
4	TECHNICAL EVENTS & INFORMAL EVENT'S	Mr. Gopal Krishan Prajapat Mr. Gauttam Jangid Mr. Shahi kant Sharma
5	CULTURAL	Dr. Krishna Meel Ms. Monika Jangir
6	CERTIFICATE	Ms. Manumriti Sharma Ms. Rashmi Sharma
7	SOUND SYSTEM	Mr. R.C. Sonania Mr. Makhhan
8	MEDIA & NEWS	Mr. Keshav Kandelwal
9	PHOTOGRAPHY	Mr. Surender Sharma
10	MEDICAL	Mr Suresh Kumar (Medical Centre)



11	VOLUNTEER'S CONTROLLER	Mr. Himanshu Gupta Mr. Krishan Saini
12	CREATIVITY	Dr. Krishna Meel Mr. Ankit Sharma
13	CONTROLS/PUBLIC RELATION TEAM	Mr. Pradeep Singh Shekhawat Mr. Praveen Kumar Sharma
14	DISCIPLINE	Dr. Nimish Kumar Mr. D.C. sharma Mr. S. M. Kaushik Ms. Anupama Sharma Dr. Sonam Mittal Mr. Rajesh Singh Shekhawat
15	FOOD & ACCOMMODATION	Mr. Bhupendra Jangir Mr. Vikas Kumawat



Marathon Run



Girls Kabaddi Event



Athletics Event



Cricket Match at Institute Ground



Evening Volley Ball Match



Boy's Table Tennis

**Fresher's day**

"Fresher's Party" in any college is an event which every student eagerly awaits from the time of admission. The fresher's day fills students with excitement, joy, music, enthusiasm, laughter and happiness. The students of BKBIET Pilani organise Fresher's day "**FRESCHO**" to make every new student feel connected as an integral part of the BKBIET family and be ready to take on the challenges of the year ahead. The dress code for the fresher's day varies with the Theme of the event for the day. Programmes like: ramp walk, group dance, drama, song and orchestra playing are the main events of the day. The celebration starts at 1730 hour, at Amphitheatre (Auditorium) with the warm welcome of all the dignitaries and the jury present in the function, followed by Saraswati pooja and lamp lightening by the Dignitaries.

Events starts with solo singing by best of the best singers from second year, all the other participants of this great evening came up with their unique ramp walk in pairs. They introduced themselves one by one in the allotted time. Subsequently the Fun team takes the center stage to attract the audience and add cherry to the pie. Event Master of ceremony Anchors go up to the audience for random question & answers. There on participants came up on the stage with their hidden talent and performed one by one. The Mr and Ms Freshers are declared later and the event closes with a welcome note by chief guest. Freshers' party is all about creating everlasting relationships with each other. The event is an indication of union among the students.

**Fresher's Committee**

<b>Chief Coordinator</b>	Dr L Solanki Principal Academics
<b>Faculty Coordinators</b>	Mr Ankit Sharma & Ms Monika Jangir
<b>Student Coordinators</b>	Second Year Students
<b>Support Staff</b>	Support and Admin staff

<b>Sound System</b>	Mr. R.C. Sonania, Mr. Makhhan
<b>Media &amp; News</b>	Mr. Surender Sharma & Mr. Keshav Kandelwal

**Farewell Report**

A farewell ceremony is arranged in honor of the outgoing students of BKBIET Pilani. The students of B Tech of final year along with other junior students organized it. The function begins with the welcome speech by Chief Guest. A video clip for students depicting memories of students is played, students are offered floral wreaths. Many guardians, teachers, students and education enthusiasts attended the party. Some students delivered their speech on behalf of the students of the school. A good number of candidates also addressed the gathering. Their speeches are heart touching.

Event closes with heavy heart, teary eyes. Faculty express their deep love and gratitude to the students and wishes them all the best and bless to serve the nation with utmost pride.

**Farewell Committee**

<b>Chief Coordinator</b>	Dr L Solanki Principal Academics
<b>Faculty Coordinators</b>	Mr Ankit Sharma & Ms Monika Jangir
<b>Student Coordinators</b>	Selected Students
<b>Support Staff</b>	Support and Admin staff
<b>Sound System</b>	Mr. R.C. Sonania, Mr. Makhhan
<b>Media &amp; News</b>	Mr. Surender Sharma & Mr. Keshav Kandelwal



Robo Competition



Fresher's Participants



Music Performance



Winners



Solo Dance Performance



Winners

10 GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120)

Total Marks 120.00

10.1 Organization, Governance and Transparency (40)

Total Marks 40.00

10.1.5 Transparency and availability of correct/unambiguous information in public domain (5)

Institute Marks : 5.00

For stakeholders all the policies, rules, processes and other relevant information are made available on our website: [bkbiet.ac.in](http://bkbiet.ac.in). The different transparent information for the public domain covers in three categories as follows for Students & Parents, existing students and the prospective recruiters:

**Study with us**

You would get here industry-oriented engineering education apart from accessible facilities and personal attention.

[Show more...](#)

- [Admission](#)
- [Admission Helpline](#)
- [Scholarships](#)
- [Pradhan Mantri Vidya Lakshmi Karyakram](#)
- [eBrochure](#)

**Unlock your skills**

From application-driven trainings to internship opportunities, our focus is always on how you can unlock your skills and be empowered to make a positive impact.

- [On-campus Industrial Training](#)
- [Internship](#)
- [Student Projects and R&D](#)
- [Entrepreneurship](#)
- [Career Guidance](#)

**Recruiters' Section**

Besides offering the highest quality of technical inputs to students, various initiatives have also been taken for their global exposure and approach.

- [Note from Placement Cell](#)
- [To visit campus contact here](#)
- [Placement Brochure](#)
- [Placement](#)
- [Glimpses of BKBIET](#)

These sections, specially cover information on:

- list of courses available for the students, fees structure, procedure to apply for the admissions etc.
- contact information to speak directly whenever there are queries
- brochure containing other important information
- on campus industrial trainings, internship availability, career guidance, etc for existing on-campus students
- note from placement cell
- how to reach campus for recruitment?
- brochure of the placement
- number of real on campus placement happening, etc.

Sample pages showing various policies:

[Admission policies:](#)

We offer five undergraduate B.Tech programmes

Electrical Engineering	120 Seats
Mechanical Engineering	120 Seats
Computer Science Engineering	120 Seats
Information Technology	60 Seats
Electronics & Communication Engineering	120 Seats

Some of the Recruiters

TCS LTD	SYNTEL	DIGICOMM SEMICONDUCTOR
ADITYA BIRLA GROUP	SAMSUNG R&D INSTITUTE	POLESTAR SOLUTIONS
JSW STEEL	ROBERT BOSCH	TEKSYSTEMS
AMAZON DEVELOPMENT CENTER	CENTURY ENKA	NIIT LTD
CAPEGEMINI	CENTURY RAYON	HEXAVIEW TECHNOLOGIES
ORACLE FINANCIAL SERVICES	CVIENT	SECURE METERS

**Online Admission to B.Tech 2019-20**

Please keep the following documents ready while applying:

1. Scanned passport size Photograph
2. Scanned Signature
3. 10th Marksheet
4. 12th Marksheet (If Original not available, then Internet Copy)

[International Exchange information:](#)



# B K Birla Institute of Engineering & Technology, Pilani

ABOUT BKBIET

INTERNATIONAL

ACADEMICS

INFRASTRUCTURE

## International Student Exchange Programme

Under Students Exchange Program, our students visit leading international universities for internships and higher studies. We are exploring similar opportunities with more European universities and those from the USA.

We are also associated with **Network n+i** to provide best possible support for internships and higher studies abroad.

Total of 243 students have undergone their internships from such universities. Similarly, 183 students from those universities have benefited by doing their internships at BKBIET.



### Privacy Policies:



# B K Birla Institute of Engineering & Technology, Pilani

ABOUT BKBIET

INTERNATIONAL

ACADEMICS

INFRASTRUCTURE

## Privacy Policy

By accessing any part of this website, you will be deemed to have accepted our privacy policy.

### PRIVACY POLICY

As a general rule, this website does not collect Personal Information about you when you visit the site. You can generally visit the site without disclosing Personal Information, unless you choose to provide such information.

### Site Visit Data:

This website records your visit and logs the following information for statistical purposes your server's address; the name of the top-level domain from which you access the Internet (for example, .gov, .com, .in, etc.); the type of browser you use; the date and time you access the site; the pages you have accessed and the documents downloaded and the previous Internet address from which you linked directly to the site.

We will not identify users or their browsing activities, except when a law enforcement agency may exercise a warrant to inspect the service provider's logs.

### Coookies:

A cookie is a piece of software code that an internet web site sends to your browser when you access information at that site. This site does not use cookies.

### Email Management:

Your email address will only be recorded if you choose to send a message. It will only be used for the purpose for which you have provided it and will not be added to a mailing list. Your email address will not be used for any other purpose, and will not be disclosed, without your consent.

**10.1.1 State the Vision and Mission of the Institute (5)**

Institute Marks : 5.00

<b>Vision :</b>
Excel as an outstanding application-oriented and innovation-driven engineering institute. Inspire future Engineers to apply technology for solving real world challenges.
<b>Mission :</b>
Create a platform for igniting ingenuity and path-breaking engineering applications for the India of future.

**10.1.3 Decentralization in working and grievanceredressal mechanism (10)**

Institute Marks : 10.00

For the decentralization of work of the Institute, various committees are framed and administrative powers are given to take decision at appropriate time for the smooth functioning of activities on and off campus. Various committees like, Anti-Ragging Committee, Anti-Sexual Harassment Committee, etc. are framed time to time.

List off faculty members involved for taking administrative decisions:

B K Birla Institute of Engineering & Technology				
Delegation of Powers to Faculty Members				
S.N.	Name	Designation	Dept	Decision making areas
1	Prasanna Kumar S M	Director	Civil	Heading Four Institutions
2	L.Solanki	Princ.(Acad)	EE/ECE	Academics, Internal affairs, Chief Warden
3	Shridhar B. Dandin	Princ(Admn)	CS/IT	Administration, External affairs incl. International
4	Ramakant Soni	Asst Prof.	CS	RTU Cell, Mentor
5	Pradeep Singh Shekhawat	Asst Prof.	CS	RTU Cell, Mentor
6	Ajender Malik	Assoc. Prof	Maths	Mentor, Faculty Development Programme
7	Vipin Kumar	Assoc. Prof	Maths	Admission Cell, Mentor, Warden
8	Rajesh Singh	Asst Prof.	EE	Admission, Mentor, Discipline Com., Timetable
9	ShashiKant Sharma	Asst Prof.	ECE	Admission Cell, Mentor, Warden
10	Rakesh Saini	Asst Prof.	IT	Admission Cell, Mentor
11	Santosh Jangid	Asst Prof.	ECE	HoD, Mentor, Discipline Committee
12	Praveen Kumar Sharma	Asst Prof.	ECE	Mentor, Warden, IEEE
13	Manusmriti Sharma	Assoc. Prof	Eng	Mentor, Cultural
14	Sanjay Kumar Saini	Asst Prof.	ECE	RTU Cell, Mentor
15	Nimish Kumar	Assoc. Prof	CS	HoD, Mentor, Discipline Committee
16	Manoj Pandey	Assoc. Prof	ECE	Mentor, Discipline Committee, Conference
17	Vikas Kumawat	Asst Prof.	IT	BIC, Mentor
18	Gauttam Jangir	Asst Prof.	CS	Mentor, Warden, CSI
19	Ruchi Sharma	Asst Prof.	CS	Mentor, Consultancy
20	Smita Pareek	Assoc. Prof	ECE	HoD, Mentor, Consultancy, Discipline Com
21	Sonam Mittal	Assoc.Prof	IT	BIRD, Mentor, Warden
22	Monika Jangir	Asst Prof.	IT	Cultural, Mentor
23	Nachiket Sainis	Asst Prof.	CS	Exam Cell, Mentor
24	Y.K.Gupta	Assoc. Prof	Chem	HoD, Mentor, Warden
25	Anupama Sharma	Assoc. Prof	Maths	Mentor, Warden
26	Gaurav Sahu	Asst Prof.	ECE	BIRD, Mentor
27	Bhupendra Kr Jangir	Asst Prof.	IT	BIC, Mentor



28	Rahul Runthala	Asst Prof.	ECE	Mentor, Yoga
29	Gopal Krishan Prajapat	Asst Prof.	CS	Admission Cell, Mentor
30	Satish Kumar Rai	Asst Prof.	ECE	Mentor, Conference
31	Vipin Saraogi	Asst Prof.	CS	Mentor, Consultancy
32	Buddhi Prakash Sharma	Asst Prof.	ECE	Training Cell, Mentor
33	Manoj Kataria	Asst Prof.	CS	Exam Cell, Mentor, ACM
34	Sanjeev Sultania	Asst Prof.	CS	Media Cell, BIC, Mentor, Consultancy
35	Ramesh Jangir	Asst Prof.	ECE	RTU Cell, Mentor
36	Vikas Kumar	Asst Prof.	EE	Mentor
37	R M Jha	Assoc. Prof	Eng	Mentor
38	Krishna Kumar Saini	Asst Prof.	EE	RTU Cell, Mentor
39	D.C.Sharma	Asst Prof.	Mech	HoD, Mentor, Warden, Discipline Com.
40	Reena Saini	Asst Prof.	CS	Mentor, Warden
41	Anuj Sharma	Asst Prof.	EE	BPTRC, Mentor
42	Rashmi Sharma	Asst Prof.	Phy	Mentor
43	Shalini Srivastava	Asst Prof.	Eng	Mentor
44	Hasibur Rahaman	Assoc.Prof	ECE	BIC, Mentor, IFERP
45	Dhanesh Kumar	Asst Prof.	CS	RTU Cell, Mentor
46	Himanshu Verma	Asst Prof.	CS	Mentor
47	Praveen Kumar	Asst Prof.	EE	BPTRC, Mentor
48	Jitender Kumar	Asst Prof.	CS	Mentor
49	R K Thapliyal	Asst Prof.	EE	Mentor
50	Divesh Kumar Rohilla	Asst Prof.	Mech	Mentor
51	Monika Shekhawat	Asst Prof.	ECE	Mentor
52	Himanshu Gupta	Asst Prof.	Mech	Mentor, ASME
53	Vikas Poonia	Asst Prof.	ECE	Exam Cell, Mentor, Discipline Committee
54	Manoj Kumar Saini	Asst Prof.	ECE	NSS, Mentor
55	Ankit Sharma	Asst Prof.	IT	Cultural, Gym, Mentor
56	Chitranjan Kumar	Asst Prof.	ME	Mentor
57	Ravindra Kumar Yadav	Asst Prof.	ME	Mentor
58	Keshav Khandelwal	Asst Prof.	ECE	Press, Mentor
59	Anil Datika	Sys. Admn	CS	System Administrator, Lab, CCTV, Wifi
60	Suresh Kumar	Sys Analy	CS	System Analyst, Lab, CCTV, Wifi

Various Committees with functionalities is listed below:

#### **Grievance Redressal Committee**

The Institute has established grievance redressal committee as per All India Council for Technical Education (Establishment of Mechanism for Grievance Redressal) Regulations, 2012, F. No. 37-3/Lega112012, dated 25.05.2012. The committee aims in order to ensure transparency by the institute in imparting technical education, in admissions and with paramount objective of preventing unfair practices and to provide a mechanism to innocent students for redressal of their grievances. In our established committee, an aggrieved student or person may make an applicant seeking redressal of grievance. The committee is published widely including on the notice board and prospectus and placed on the website of the institution.

Members of the institute seeking redressal can send their grievances to: [grievances@bkbiet.ac.in](mailto:grievances@bkbiet.ac.in) (mailto:grievances@bkbiet.ac.in)

Present members of the redressal committee are:

SN	Name	Designation	Mobile Number
1	Dr. S.M. Prasanna Kumar	Director	9414062510
2	Dr. L. Solanki	Principal (Academics)	9414062513
3	Prof. Shridhar B. Dandin	Principal (Administration)	9414062512
4	Dr. Nimish Kumar	Head, CS Department	9414648683
5	Mr. D.C. Sharma	Head, ME Department	8302855390
6	Mr. Santosh Jangid	Head, EC Department	9414367879



7	Dr. Smita Pareek	Head, EE Department	8949349217
8	Dr. Y.K. Gupta	Head, Science & Humanities	9414345434
9	Mrs. Ruchi Sharma	Assistant Professor	9571552166
10	Sh. Jagdish Sain	Advocate, Legal Advisor	9829328925

### **Anti-Ragging Committee**

Ragging in all its form is totally banned in our college premises (academic buildings, hostel rooms, common rooms, sports places, canteen areas, libraries, reading rooms, etc.) whether located within the campus or outside the campus.

All the students are made aware of the definition of ragging as per the Gazette of India, July 4, 2009 University Grants Commission. The following rules are displayed at various places of the campus to make the awareness and alertness.

- Any conduct by any student or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness a fresher or any other student
- In-disciplined activities by any student or students which causes or is likely to cause annoyance, hardship, physical or psychological harm or to raise fear or apprehension thereof in any fresher or any other student
- Asking any student to do any act which such student will not in the ordinary course do and which has the effect of causing or generating a sense of shame, or torment or embarrassment so as to adversely affect the physique or psyche of such fresher or any other student
- Any act by a senior student that prevents, disrupts or disturb the regular academic activity of any other student or a fresher
- Exploiting the services of a fresher or any other student for completing the academic tasks assigned to an individual or a group of students
- Any act of financial extortion or forceful expenditure burden put on a fresher or any other student by students
- Any act of physical abuse including all variants of it: sexual abuse, homosexual assaults, stripping, forcing obscene and lewd acts, gesture, causing bodily harm or any other danger to health or person
- Any act or abuse by spoken words, emails, post, public insults which would also include deriving perverted pleasure, vicarious or sadistic thrill from actively or passively participating in the discomfiture to fresher or any other student
- Any act that affects the mental health and self-confidence of a fresher or any other student with or without an intent to derive a sadistic pleasure or showing off power, authority or superiority by a student over any fresher or any other student
- With or without an intent to derive a sadistic pleasure or showing off power, authority or superiority by a student over any fresher or any other student
- An offence of Ragging may be charged either on a written complaint by the affected or on independent finding of the Anti-Ragging Squad.

**At the time of admission all the newly admitted students along with the parents give an undertaking of not participating in any sort of ragging activities.**

### **Anti-Ragging Committee Members (Faculty)**

For Hostel		For College Campus	
Name	Mobile No.	Name	Mobile No.
Mr D C Sharma	9413565645	Dr Nimish Kumar	9414648683
Dr Yogesh Kumar Gupta	9414347004	Mr Santosh Jangid	9414367879
Mr Praveen Sharma	9928213255	Dr Smita Pareek	9414790438
Dr Vipin Kumar	9784533320	Mr Satish Kumar Rai	9785551210
Mr Himanshu Verma	7737215156	Mr Sanjay Kumar Saini	9929770220
Dr Manoj Pandey	7737435144	Ms Ruchi Sharma	9571552166
Mr Shashi Kant Sharma	9929694663	Mr Gopal K Prajapat	9828531671
Mr Gauttam Jangir	9887194108	Mr Gaurav Sahu	9636165316
Dr Anupama Sharma	9887341416	Dr Manusmriti Sharma	9887810376
Dr Sonam Mittal	9785792715	Dr A K Malik	9784829785

### **Anti-Sexual Harassment Committee**

Our organization is a safe haven for our employees and the students. Our employees and students are well aware of the tag line 'Say NO to Sexual Harassment!'

All of our employees and students are made aware of the following:

- Basic understanding of the identification and concept of behavior constituting sexual harassment
- To be able to discriminate between various forms of sexual harassment so that further incidences can be prevented
- Identifying questionable behavior that could lead to harassment
- Knowledge about
  - how to report an incidence
  - how the law handles the complaint
  - what to do when harassment occurs

For the establishment of Anti-Sexual Harassment Committee an office order was issued on 27<sup>th</sup> August 2018.

Copy of the office order is:

B K Birla Institute of Engineering & Technology

**Office Order**

1. In exercise of the power contained Section 4 of the Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 for Redressal of complaints of women, the Management hereby constitutes the Internal Complaints Committee (ICC) with the under mentioned members:

a. Mrs Anupma Sharma	BKBIET-Pilani	Presiding Officer
b. Prof Shridhar B Dandin	Principal (Admin)	Member
c. Dr Prof Sangeeta Sharma	BITS-Pilani	Member
d. Dr Mrs Manusmriti Sharma	BKBIET-Pilani	Member
e. Dr Mrs Disha Meel	BKBIHE-Pilani	Member
f. Mrs Pratibha Sharma	BTTI-Pilani	Member

2. The term of the Presiding Officer and Members of ICC will be three years from the date of Constitution of the ICC.

3. Issued on behalf of SKCT-Institutions.

Date: 27<sup>th</sup> August 2018

Chief Executive

Contact Numbers of Principals

1. Principal (Academics)	9414062513
2. Principal (Administration)	9414062512
3. Principal (BKBIHE)	9461508599
4. Principal (BTTI-Diploma)	9414062540
5. Principal (BTTI-ITI)	9414062541

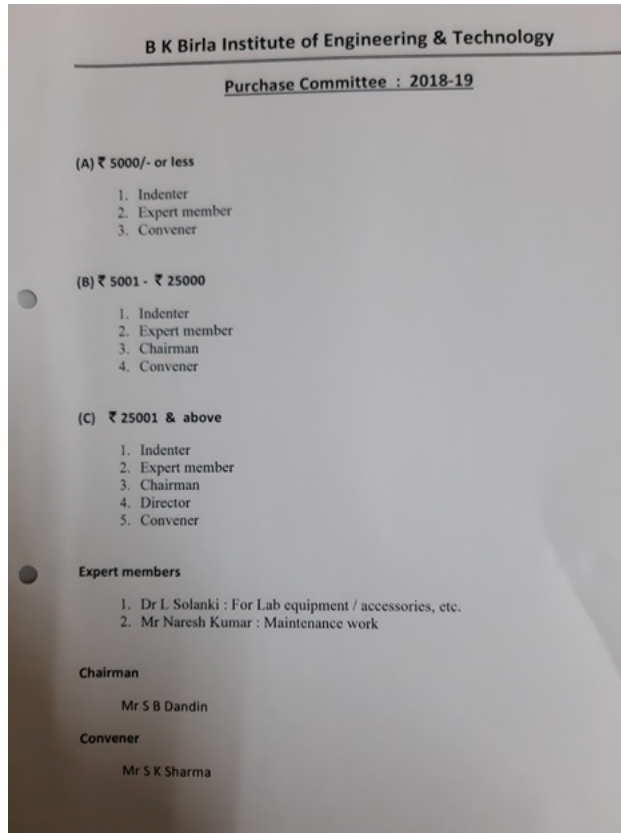
**10.1.4 Delegation of financial powers (10)**

Institute Marks : 10.00

Financial spending power the Institute is under the control of head of the Institute, Director. For transparency of decision making decisions are taken at different levels for spending the funds allocated. Director distributes the powers to Principals and department heads, in turn the decisions are taken by the Principal (Administration), Principal (Academics) and various department heads.

- For spending of allocated funds, the indenter or end user brings requirements to the head of the department, after analysis by HoD the requisition is discussed with Principal and further with Director. Then it is proceeded to purchase committee (purchase office) for further process. This is carried out when the spending amount is more than Rs. 10,000/-. When purchase amount is less than Rs. 10,000/- then in consent with purchase committee the requisitions may be ordered for procurement following the procedure.
- When the purchase amount is more than ten thousand rupees, the purchase office processes the indent for quotation calling, identification vendors, finalizing the vendors based on quality of the product and quoted price. After the procurement of the items of the requisition indent, the end users are issued through issue slips and they are utilized. Utilization record is recorded and maintained by the stores and purchase officer.

The following list and figures depict the structure of members involved in the execution of financial power:



B K BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY  
PILANI - 333031 (Rajasthan)

Indent No. 210 Date 1/10/2019

Name of Department/Lab. CS

Details of item(s) to be purchased:

S.No.	Description	Quantity	Approx. Cost
I.	Wireless Access Point (Tplink Archer A9)	2+1=3	5600 per (Internet price)
			= 16800/-

- To be used in Hostel
- 1. Block C (AP Problem) → Replaced
- 2. Block B & C Signal Strength is poor
- 3. Block D (Signal Strength is poor)

Existing - 31 (B-12; C-9; D-10) <sup>to be</sup> one Replaced  
 2 new required.

To solve internet  
access problem  
at Hostel rooms  
All three block  
B, C & D.  
(12, 9, 10)

Disused

Indenter: Anil Kumar  
 Name: Anil Kumar  
 Principal (Acad.): [Signature]  
 Purchase Officer: [Signature]  
 Principal (Admin.): [Signature]  
 Accounts Officer: [Signature]  
 Director: [Signature]

**B K BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**PILANI – 333031 (Rajasthan)**  
**UTILIZATION REPORT**

Date of Quotation / Order: 01-11-2019  
 Date of Procurement: 06-11-2019 Bill No. 152 Bill Date 06-11-2019

Vendor: M/s. Chaitan, D/Gini Bill Amount 18150/-

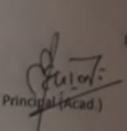
Issued to (Indenter / User): Mr. Anil Kumar Department C5  
 Status of Item(s): Found Good / Returned

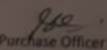
**Utilization by Indenter**

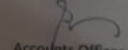
Remarks (Details of Utilization)  
To be used in B.C and D Block Boy Hostel  
for better signal strength.

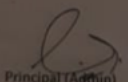
Signature of Indenter  
*Anil*


Verified by Department Head

  
 Principal (Acad.)

  
 Purchase Officer

  
 Accounts Officer

  
 Principal (Admin.)

  
 Director

10.1.2 Governing body, administrative setup, functions of various bodies, service rules, procedures, recruitment and promotional policies (10)

Institute Marks : 10.00

**SHREE KRISHNARPAN CHARITY TRUST**

**SERVICE RULES**

**CLASSIFICATION OF STAFF**

Staff of Shree Krishnarpan Charity Trust shall be classified as per following categories:

**A. ACADEMIC**

Which term shall include Director, Principals, Registrar, Teachers, Workshop Supdt., Instructors, Librarian, Asst. Librarian, Library Asst., Lab. Asst. and other such academic posts in the Institutions and Departments under the Trust.

**B. ADMINISTRATIVE**

Which term shall include Administrative Officer, Public Relations Officer, Medical Officer, Office Supdt., Training & Placement Officer, Placement Coordinator, Sports Officer, PS /PA, Chief Accountant, Accountant, Office Assistants, Cashier, Store Keeper, Clerk, Security Incharge, Mess Manager, Nurses / Sick room Incharge and other such administrative staff in the Institutions and Departments of the Trust.

**C. TECHNICAL**

Which term shall include., Foremen, Technician, Mechanic, Carpenter, Painter, Technical Attendant, Driver and other such technical posts as may be defined by the Trust from time to time.

**D. SUBORDINATE**

Which term shall include Attendants, Sweepers, Security Staff, Garden Staff and all other such staff.

**Note –**

1. All Staff members under Regular / Contractual appointment, Long Term Contract (3 yrs or more) on scale shall be eligible for Medical reimbursement, all kinds of leave, Scholarship to staff children as detailed under this head. They will also be eligible for Dearness allowance increase as announced by the Trust from time to time.
2. All other staff members covered under 1/3/5 yr contract with consolidated pay or Work charge basis will not be eligible for any benefit covered under Medical Reimbursement, Scholarship to staff children and leave, other than Casual leave and specified vacation leave. Any enhancement in their salary and wages will solely depend upon their overall performance and recommendation of the committee.

**SHREE KRISHNARPAN CHARITY TRUST****SERVICE RULES****CONDUCT RULES****A. GENERAL**

1. Every employee shall at all times maintain absolute discipline, integrity and devotion to duty and also be strictly honest and decent in his official dealings.
2. An employee shall devote his whole time to the service of the Institute and shall not engage directly or indirectly in any trade or business or any other work outside his official assignment. No member of staff shall engage in private tuition.
3. Unless otherwise stated specifically in the terms of appointment, every employee is supposed to be a whole time employee of the Institute and may be called upon to perform such duties as may be assigned to him by competent authority, beyond scheduled working hours and on holidays or weekly off days and during the period of leave, except when on medical / maternity leave.
4. An employee shall be required to be regular and punctual and observe the scheduled hours of work, during which He/She must be present at the place of His/Her duty.
5. Except for valid reasons and for unforeseen contingencies, no employee shall be absent from duty without prior permission from competent authority.
6. No employee shall leave station without prior information and permission of Head of the Department or Director, even during Holidays, leave period, vacation etc. Whenever leaving the station, an employee shall inform the address where He/She would be available.
7. Every employee is expected to be courteous and polite in His/Her dealings.
8. Every employee is expected to strictly follow the special procedures, systems and details as defined or prescribed by the Institute in the form of Office Orders / Guidelines & Directives issued from time to time.

**A. UNAUTHORIZED COMMUNICATION OF INFORMATION**

No employee shall, except in accordance with any special order of the competent authority or in the performance of any particular duty assigned to Him/Her communicate, directly or indirectly, any official document or information to any person to whom He/She is not authorized to communicate such information

**B. INSOLVENCY, HABITUAL INDEBTEDNESS AND CRIMINAL PROCEEDINGS**

1. An employee shall so manage His/Her private affairs as to avoid habitual indebtedness or insolvency. When an employee is found liable to arrest or has recourse to insolvency or when it is found that a moiety of His/Her salary is continuously being attached, He/She shall become liable to dismissal without any notice or notice pay.
2. An employee who becomes the subject of legal proceedings for insolvency or gets involved in a criminal proceeding shall immediately inform full facts of the matter to the Institute in writing at the earliest opportunity.
3. Similarly, a person who gets involved in a serious criminal case or proceeding shall be liable to be suspended / dismissed from the service.
4. An employee who is detained in police custody at any time whether on criminal charges or otherwise shall not join His/Her duty unless he has obtained written permission to that effect from the Director.

**C. GIFTS**

No employee, except with the previous sanction of the competent authority, accept or permit His/Her Spouse or any member of his family to accept from any person any gift of more than "Trifling Value". Interpretation of the term "Trifling Value" shall be the same as laid down in Central Govt. employees Conduct Rules.

**D. MISUSE OF RESOURCES**

All employees will ensure correct use of resources put under his disposal by the Institute.

**E. TAKING PART IN POLITICS**

All employees are debarred from taking part in politics or exploit His / Her official position for Political ends or permit the use of Institutes facilities for political purposes.

**ACTS OF MISCONDUCT**

Without prejudice to the general meaning of the term MISCONDUCT, it shall deem to mean and include the following Minor and Major acts of Misconduct.

**a. MINOR MISDEMEANORS**

The under mentioned list is not comprehensive however the following acts or omissions shall be treated as misdemeanors for which staff member may attract punishment. This list is illustrative and not exhaustive.

1. Carelessness or negligence in work.
2. Laziness and inefficiency in work.
3. Sleeping or dozing off while on duty.
4. Smoking, chewing of Beatles or spitting in the premises.
5. Chitchatting, gossiping or wasting time while on duty.
6. Failure of observing Dress code and coming to the Institute shabbily dressed.
7. Not keeping the working place and surroundings clean and tidy.
8. Leaving normal place of duty without permission during working hours.
9. Absence without permission.
10. Obtaining leave of absence by false pretences.
11. Not taking of proper care of items for which He/She is made responsible.
12. Committing nuisance in the Institute premises.
13. Quarreling which may have subversive effect on discipline.
14. Lending or borrowing of money from other employees.

**b. MAJOR MISDEMEANORS**

The following acts or omissions whether alone or in combination with others shall be treated as major misdemeanors. The list is illustrative and not exhaustive:

1. Willful insubordination or insult of superiors or disobedience of any reasonable order of a superior or using derogatory language whether alone or in combination with others.
2. Assault and making an effort to assault superiors, other employees or students, inside or outside the Institute premises.
3. Threatening, intimidating or misbehaving with any officer, staff of the Institute, guests, students and visitors inside or outside the Institute or abatement of these acts.
4. Riotous or disorderly behavior during working hours at the Institute or any act of subversion of discipline.
5. Habitual negligence or gross neglect of work.
6. Possession of any lethal weapon or arms within the Institute premises.
7. Commission of an act, which amounts to a criminal offence involving moral turpitude.
8. Participation, instigating or inducing, compelling or intimidating of others to strike work.
9. Slowing down in performance of work or inciting or inducing, compelling or intimidating others to resort to deliberate Go-Slow policy.
10. Soliciting or collecting contribution for any purpose whatsoever at any time in the premises without express permission of the Management.
11. Organizing or holding meetings within the Institute premises without authorization.
12. Willful non-cooperation with the superiors and fellow staff members for proper discharge of duties.
13. Habitual absence without permission.
14. Frequent repetition of minor misconduct.
15. Refusal to accept Managements communication, letter, notice of suspension, warning, show cause notice issued by the management.
16. Habitual failure of getting work done by staff placed under ones supervisory control.
17. Failure on the part of staff to pass on requisite instructions and orders.
18. Irregular attendance or habitual late coming.
19. Refusing to undergo training for which Management ordered.
20. Removing or attempting to remove or tamper notice from notice board.
21. Refusal to give evidence or offer oneself for interrogation by authorities / officers, or sign any statement recorded during the course of inquiry proceedings when acting as witness or otherwise.
22. Making false complaints or giving false statement anywhere or before any authority, which is likely to bring the Management or the officer of the Institute to disrepute in the eyes of law.
23. Forging the signatures of the superiors or of another staff member.
24. Misbehaving with inquiry officer during inquiry.
25. Writing any anonymous letter or notes anywhere to anybody criticizing the officer or the Institute.
26. Any act, direct or indirect of the nature of sexual harassment, including those covered under POCSO (Protection of Children from Sexual Offences) and Sexual harassment of Women at work place (2013) Act.
27. Loitering in the Institute premises or visiting others work place except in discharge of duties.
28. Involved in theft within the premises, or fraud or dishonesty in connection with the Institutes work or property.
29. Demanding, offering or accepting bribes or any illegal gratification.
30. Engaging in private tuition, trade or any other commercial activity within the Institutes premises or official residential accommodation or outside.
31. Engaging in other employment whilst still in the service of the Institute.
32. Deceptive or corrupt practices in connection with the work of the Institute in the Institute premises or outside.

33. Misuse of Institute name or facilities provided during working hours, after working hours or while on vacation, leave or on holidays.
34. Breach of any rules or instructions, whether verbal or written, in connection with day to day work.
35. Drunkenness, intoxication or indecent behavior in the premises of Institute or official residential accommodation and surroundings.
36. Unauthorized stay in the Institute premises beyond normal working hours with the intention of subversive activity.
37. Disclosing to any unauthorized person any information and secrets of the Institute.
38. Gambling within the Institute premises.
39. Securing the undue benefits by giving false information.
40. Interfering with the records of the Institute.
41. Any offence committed anywhere, which is punishable under the IPC.
42. Attempting to obtain or actually obtain papers or record of the Institute in an unauthorized manner.
43. Giving false information, particularly regarding ones name, age, fathers name, qualifications, previous service experience or any other personal data at the time of employment or thereafter.
44. Unauthorized occupation of Institutes residential accommodation or other premises, or unauthorized sub-letting or permitting use thereof by another person or putting any unauthorized structure on such accommodation, premises without proper permission.
45. Willful damage to any property of the Institute.
46. Failure to accept safety instructions and rules.
47. Contravention of any of the provisions of these regulations.

### **Recruitment Policies**

## **SHREE KRISHNARPAN CHARITY TRUST**

### **SERVICE RULES**

#### **APPOINTMENTS**

(A)

- i. All the posts under the Trust covered in it shall be normally filled by advertisement. A pool will be maintained.
- ii. Selection committee for filling the posts under the Trust (other than the posts on part time and work charge basis) by advertisement or by promotion, shall be constituted by the Director. These following committees will be constituted and Director shall be the Chairman of all these committees:
  - a. Selection Committee for Head of the Institution / Department
  - b. Selection Committee for Teaching Staff
  - c. Selection Committee for Non-Teaching Staff
- iii. Appointment of subordinate staff shall be made by the Head of the Administration by constituting a selection committee after due approval of the Director.
- iv. In the absence of Director, any member of the staff of Trust who is appointed to perform the current duties of Director shall be the Chairman of the selection committee in the place of Director.
- v. In the advertisement of a post, the terms and conditions of the post shall be advertised by the Trust and the selection committee shall consider applications received within the date specified in the advertisement.
- vi. The designated selection committee shall make all the appointments on the basis of test and / or interview. Director will issue the Appointment letter with the information to the Trustees.

(B)

- (a) All appointments w.e.f. 1<sup>st</sup> April 2008 will be on contract basis.
- b. All appointments shall ordinarily be made on Probation for a period of one year.
- c. The employee shall be informed of his confirmation of contract within one month of the completion of Probation period.
- d. During the period of probation, the Director shall have power to terminate the service of an employee without assigning any cause and by giving one months notice or notice pay (incl. all allowances) in lieu of notice period. The trustees will be kept informed.
- e. If an employee desires to be relieved during the period of probation, it will be necessary for him to give one months notice in writing or in absence of this, the individual will have to pay one month salary inclusive of all allowances to the institute.
- f. An employee after being confirmed on contract, may terminate his engagement by giving three months notice in writing or past three months salary (incl. all allowances) in lieu there of.
- g. Every appointment shall be subject to the condition that the appointee is certified as being in sound health and physically fit for the service.
- h. The Director shall have power to terminate the service of a confirmed contract employee normally by three months notice or on payment of three months pay (incl. all allowances) in lieu there of.
  - i. All employees shall be governed by the Service Rules and the regulations of the Trust.
  - j. Every retiring employee shall be duly informed at least three-months in advance by the competent authority so as the employee may make necessary arrangements for his clearance, etc.
- k. All employees shall be deemed to have been appointed on the basis of representation, facts disclosed in their application for appointment. In case any fact or information in the application is found to be false or any material is suppressed, the employment in such cases would be liable to be terminated after giving an opportunity of being heard.
  - An employee on appointment be required to furnish the under mentioned documents or as may be specified in the letter of appointment including the following :
    - i. Birth Certificate



- Matriculation or School leaving certificate, or
  - Certified copy of date of birth from municipality, panchayat etc.
- ii. Medical Certificate from authorized Medical Officer of the Trust stating that he is fit for service
- iii. Permanent address of the employee
- m. The Director may place a member of staff under suspension where a disciplinary proceeding against him is going on or where a case against him in respect of any criminal offence is under investigation or under trial or appeal in any court.
- n. The Director has power to impose the following penalties on contract staff :
- i. Censure
  - ii. Withholding of increment or promotion
  - iii. Dismissal from service
  - iv. Compulsory retirement
  - v. Recovery of loss caused to the Trust by negligence or breach of order

The disciplinary order imposing on any member of the staff at (ii) to (iv) above, shall be passed after an inquiry has been held and the member of the staff has been given a show cause notice.

- All employees shall be governed by Conduct rules, Leave rules, Medical expenses reimbursement rules, TA / DA rules, in force.

(C) Adhoc / Work Charge Appointments

- a. Adhoc Appointments (w.e.f. 1<sup>st</sup> April 2008, no appointment shall be made on Adhoc basis)
- i. The Director shall have power to appoint any person on recommendation of Head of the Institution / Department on adhoc basis for a specific period and on specified salary by constituting a suitable selection committee.
  - ii. Adhoc staff are not eligible for any facilities and shall not claim for any facility generally given to permanent/contractual staff.
  - iii. Adhoc staff shall have no claim or right for contractual appointment in the Trust.
  - iv. Adhoc staff shall sign an agreement of service with the Trust as service agreement.
  - v. The Adhoc staff during service, shall be governed by the Service Rules and regulations of the Trust.
  - vi. Services of Adhoc employees shall be terminated on one months notice or notice pay from either side without assigning any reason.
- b. Work-Charge staff
- i. Work charge staff shall be appointed on day to day basis as and when required for a maximum period of 26 days per month.
  - ii. Service conditions and other details like salary, etc. of work-charge employees shall be decided case by case.

INTERPRETATION :

- i. Notwithstanding anything contained in these regulations, the Trustees of SKC Trust is the sole authority in deciding / interpreting on any clause. Their decision will be final.
- ii. Annual increment: It cannot be claimed as a matter of right. Annual increment will be subject to efficient discharge of his/her duties and proper conduct. The appraisal report will form basis for grant of increment and is subject to the financial status of the Trust.

Various Committees for the distribution of powers

**Anti-Ragging & Discipline Committee Members**

Hostel	College
<b>Name</b>	<b>Name</b>
Mr. D C Sharma	Dr. Nimish Kumar
Dr. Yogesh Kumar Gupta	Mr. Santosh Jangid
Mr. Praveen Sharma	Mr. Satish K Rai
Dr. Vipin Kumar	Dr. Smita Pareek
Mr. Himanshu Verma	Mr Rajesh S Shekhawat
Dr. Manoj Pandey	Ms. Ruchi Sharma

Mr. Shashi Kant Sharma	Mr. Gopal K Prajapat
Mr. Gauttam Jangir	Mr. Rakesh Saini
Ms. Anupama Sharma	Ms Manusmriti Sharma
Dr. Sonam Mittal	Dr A K Malik
Ms. Lata Dandin	Mr Gaurav Sahu
Ms Reena Saini	Dr R M Jha

**SC/ST Cell & Advisory Committee**

As per the guidelines given by the UGC in F.No.6-30/2005/U-5, dated 6.12.2005, the said Advisory Committee and Cell is functioning in this College.

<b>Advisory Committee</b>
Dr Prasanna Kumar (Director)
Dr L Solanki (Principal, Academics)
Mr S B Dandin (Principal, Administration)

<b>SC/ST Cell</b>
Mr Umesh Ratawa, Accounts Officer
Mr Pawan Sharma, Administrative Officer
Mr Sushil Sharma, Purchase Officer
Mr Richpal Saini, Peon
Mr Manoj, Sweeper

The grievances, if any, may be brought to the notice of the said Cell and the Advisory Committee and the grievances will be redressed suitably as per the provisions given by the UGC.

**Women's Grievance Redressal Committee**

As per the AICTE notification F.No.AICTE/PG/2012/20/SRO/06/1143, dated 25-07-2012, the Women's Grievance Redressal Committee has been constituted with the objective of resolving the grievances of students, parents and others. The Committee comprises of following members:

<b>S No.</b>	<b>Name</b>	<b>Designation</b>
1	Dr Prasanna Kumar (Director)	Chairman
2	Dr L Solanki (Principal, Academics)	Member
3	Mr S B Dandin (Principal, Administration)	Member
4	Dr Anupama Sharma	Member
5	Dr Sonam Mittal	Member
7	Dr Smita Pareek	Member
8	Dr Manusmriti Sharma	Member

9	Ms Ruchi Sharma	Member
10	Ms Rashmi J Sharma	Member

**10.2 Budget Allocation, Utilization, and Public Accounting at Institute level (30)**

Total Marks 30.00

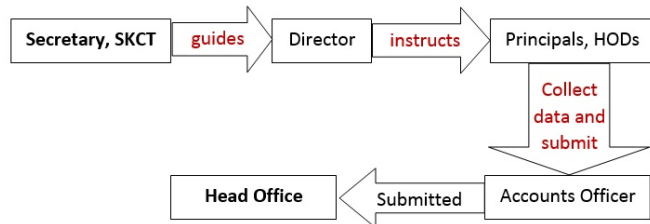
**10.2.1 Adequacy of budget allocation (10)**

Institute Marks : 10.00

**Adequacy of budget allocation:**

- Fees collected from the students is the major source of income for the Institute.
- The fees of all semesters is fixed as per “State Level Fee Committee for Technical Education Institutions for the State of Rajasthan”.
- Institute tries to generate internal revenue through skill development, training and short term courses.
- The institute is established under Shree Krishnarpana Charity Trust (SKCT) to cater Engineering Education to the students.
- SKCT provides relevant funds as and when needed for infrastructure building and development like new buildings, laboratories, etc.
- As per the instructions of Secretary, SKCT the head of the Institution, Director sir, guides the Principals and Heads of the departments to prepare the requisitions like equipment, software, hardware, maintenance, new constructions, faculty development, training, travel, new faculty need etc. for the departments to put in the budget well in advance of every financial year.
- Institute allocates funds from this collected fees to various activities at Institute level:
  - Salaries for teaching and non-teaching staff
  - Equipment of the Laboratories
  - Consumables for the Laboratories
  - Maintenance
  - Departmental activities
  - Laboratories development
  - Software
  - Library
  - Training
  - Travelling
  - Research and Development, etc.
- In general, the budget allocated for each financial year under various heads is adequate for utilization.

The following flow diagram shows the process of adequate budget allocation for the respective financial year under the control of trust head office at Kolkata.



Sample summary page of the budget, 'Estimated Income & Expenditure and Capex':

**B K Birla Institute of Engineering & Technology**

**Estimated Income & Expenditure and Capital Expenditure A/c**

Budget	Actual	Budget
2018-19	2018-19	2019-20

**INCOME** .....(Rs. In lakhs).....

A) Fee etc.	817.19	-	664.56
B) Hostel Income (Net)	158.94	-	172.47
C) Miscellaneous	125.50	-	118.50
	1,101.63	-	955.53

**EXPENDITURE**

A) Salary & other benefits	771.19	-	756.54
B) Miscellaneous	161.35	-	176.50
	932.54	-	933.04
<b>Surplus before interest payable and depreciation</b>	<b>169.09</b>	<b>-</b>	<b>22.49</b>
Interest to Head office	-	-	-
<b>CAPITAL EXPENDITURE</b>	<b>175.00</b>	<b>-</b>	<b>-</b>

Sample page of the budget, 'Recurring Budget Expenditure':

**B K Birla Institute of Engineering & Technology., Pilani**

**Budget Expenditure 2019-20**

..... in lakhs.....

<b><u>Sno.</u></b>	<b><u>Particulars</u></b>	<b><u>Budget</u></b>	<b><u>Budget</u></b>
		<b><u>2018-19</u></b>	<b><u>2019-20</u></b>
<b>A.</b>	<b><u>Salary</u></b>		
	Teaching Staff - 91 Staff	562.37	548.50
	Administrative Staff - 15 Staff	54.51	54.07
	Technical Staff - 22 Staff	51.13	54.44
	Subordinate Staff - 27 Staff	35.03	33.54
	Security Guards - Contract basis	25.40	26.00
	Gratuity Provision	42.75	40.00
		<b>771.19</b>	<b>756.54</b>
<b>B.</b>	<b><u>Miscellaneous Expenses</u></b>		
1	Advertisement	28.00	10.00
2	Digital Media	0.00	15.60

3	Outside Agency(Recruitment/GATE/IES)	0.00	12.00
4	Admission Consultants	0.00	3.00
5	Printing Materials(Flex etc.)	0.00	3.50
6	Help Desk Centers	0.00	4.50
7	Audit Fee	0.40	0.40
8	Affiliation / Inspection	5.00	5.00
9	Electricity & Water	34.00	34.00
10	Games, Cultural & other activities	0.70	1.50
11	Garden	1.10	0.50
12	Building maintenance	19.00	10.00
13	Insurance	2.20	2.20
14	Newspapers and Magazines	0.90	0.80
15	Motor Car	3.85	4.00
16	Scholarship to Staff children	26.00	26.00
17	Staff Medical help	5.00	5.00
18	Training Material	5.50	2.00
19	Travelling expenses	6.00	12.00
20	Stationery & Miscellaneous Exp.	5.50	5.00
21	Comp. AC & Machinery Repair	7.00	5.00
22	Telephone Charges	2.00	2.00
23	International Collaboration	2.20	1.00
24	Rates and Taxes	3.00	3.00
25	Legal expenses	2.00	0.50
26	Festival Gift	0.00	6.00
27	Sarala Birla Memorial Awards	2.00	2.00
		161.35	176.50
	<b>Grand Total</b>	<b>932.54</b>	<b>933.04</b>

**Summary of current financial year's budget and actual expenditure incurred (for the institution exclusively) in the three previous financial years :**

Total Income at Institute level: For CFY, CFYm1, CFYm2 & CFYm3

CFY : (Current Financial Year),

CFYm1 : (Current Financial Year minus 1),

CFYm2 : (Current Financial Year minus 2) and

CFYm3 : (Current Financial Year minus 3)

**Table 1 - CFY 2018-2019**

Total Income 97122032				Actual expenditure(till...): 84221500			Total No. Of Students 1258
Fee	Govt.	Grants	Other sources(specify) Interest, Internal revenue, Registration, Hostel, Misc	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
70765000	0	1600000	24757032	84206213	15287	0	66948.73

**Table 2 - CFYm1 2017-2018**

Total Income 114002000				Actual expenditure(till...): 90078689			Total No. Of Students 1469
Fee	Govt.	Grants	Other sources(specify) Interest, Internal revenue, Registration, Hostel, Misc	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
82618950	0	1600000	29783050	89509450	569239	0	61319.73

**Table 3 - CFYm2 2016-2017**

Total Income 128231658				Actual expenditure(till...): 100724710			Total No. Of Students 1636
Fee	Govt.	Grants	Other sources(specify) Interest, Internal revenue, Registration, Hostel, Misc	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
92373000	0	1000000	34858658	100154814	569896	0	61567.67

**Table 4 - CFYm3 2015-2016**

Total Income 139327993				Actual expenditure(till...): 110212042			Total No. Of Students 1845
Fee	Govt.	Grants	Other sources(specify) Interest, Internal revenue, Registration, Hostel, Misc	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
104925220	0	1350000	33052773	110023309	188733	0	59735.52

Items	Budgeted in 2018-2019	Actual Expenses in 2018-2019 till	Budgeted in 2017-2018	Actual Expenses in 2017-2018 till	Budgeted in 2016-2017	Actual Expenses in 2016-2017 till	Budgeted in 2015-2016	Actual Expenses in 2015-2016 till
Infrastructure Built-Up	10500000	13089000	17000000	17715000	20000000	19750000	28410000	20245000
Library	690000	114000	890000	646000	1090000	657000	290000	260000
Laboratory equipment	1200000	1287000	1500000	2386000	2000000	2155000	3500000	3422000
Laboratory consumables	550000	173000	600000	629000	600000	597000	600000	477000
Teaching and non-teaching staff salary	84129000	82876000	84365000	80672000	77520000	75689000	85723000	70842000

Maintenance and spares	2600000	2552000	1000000	814000	1000000	998000	850000	764000
R&D	320000	318000	320000	181000	320000	258000	320000	219000
Training and Travel	600000	1055000	300000	538000	275000	275000	275000	255000
Advertisement, Audit, Affiliation, Electricity, Garden, Games & Culture, Insurance, Motor, Miscellaneous, Telephone, Rates & Taxes, Legal Expenses	8775000	9390000	5995000	6598000	5740000	5427000	5740000	4962000
Nonrecurring budget	5800000	3872000	860000	772000	9742000	9637000	5000000	4495000
<b>Total</b>	<b>115164000</b>	<b>114726000</b>	<b>112830000</b>	<b>110951000</b>	<b>118287000</b>	<b>115443000</b>	<b>130708000</b>	<b>105941000</b>

### 10.2.3 Availability of the audited statements on the institute's website (5)

Institute Marks : 5.00

#### Availability of the audited statements on the institute's website:

After the completion of auditing, the audited statements received from chartered accountant are made available on our official website, "bkbiet.ac.in" for the view of its stake holders. The sample of the auditor's report placed on the website is follows:

**BRIJKISHORE & CO.**  
CHARTERED ACCOUNTANTS

Phone { Office: 232655  
Resl. : 232355  
Road No.2  
**JHUNJHUNU**  
333031

**B.K. BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**PILANI - 333031 (RAJ.)**

#### **'AUDITOR'S REPORT'**

This is to report that we have checked the Balance Sheet of **B.K. Birla Institute of Engineering & Technology, Pilani (Rajasthan)** as at 31<sup>st</sup> March, 2019 and Income and Expenditure Account for the year ended on that date with Books, Vouchers produced before us and found the same correct to the best of our knowledge and belief and as per information and explanations given to us and as shown by the books of accounts of the said Institute.

#### **I. Accounting Policies:**

##### **1. Basis of Preparation**

The financial statements have been prepared to comply in all material respects with the Accounting standards issued by the Institute of Chartered Accountants of India and the relevant provisions to the extent applicable. The financial statements have been prepared under the historical cost convention on an accrual basis. The accounting policies have been consistently applied by the Trust, are consistent with those used in the previous year.

2. a) Fixed Assets are stated at cost less accumulated depreciation and impairment losses, if any. The cost of acquisition comprises purchase price inclusive of duties, taxes, incidental expenses, up to the date the assets are put to use.

Contd....2

" 2 "

b) The carrying amount of assets is reviewed at each balance sheet date to determine if there is any indication of impairment thereof based on external/internal factors. An impairment loss is recognized wherever the carrying amount of an asset exceeds its recoverable amount, which represents the greater of the net selling price of assets and their 'value in use.' The estimated future cash flows are discounted to their present value at appropriate rate arrived at after considering the prevailing interest rates and weighted average cost of capital.

c) Assets awaiting disposal are valued at the lower of written down value and net realizable value and disclosed separately.

### 3. Depreciation

Depreciation on fixed assets is provided on at the rates specified in Income Tax Act, 1961, or as per the useful lives of the respective assets, whichever is higher. Depreciation on library books has been provided at rate of 40% in the year of purchase.

### 4. Retirement Benefits

Gratuity liabilities are provided on the basis of the valuation carried out by an approved actuary on actuarial basis.



FOR BRIKKISHORE & COMPANY  
CHARTERED ACCOUNTANTS

*(Signature)*  
(Manoosh Agarwal) PARTNER  
Membership No. : 104687  
Firm Registration No. : 04113C

ROAD No. 2  
JHUNJHUNU

DATED: 25-4-2019

## 10.2.2 Utilization of allocated funds (15)

Institute Marks : 15.00

Utilization of allocated funds:

- The allocated funds are being utilized adequately under the respective heads in every financial year.
- For spending of allocated funds, the indenter may be Director, Principals, Heads of the department or the end user submits a 'requisition indent' to department head further to purchase office.
- The purchase office processes the indent for quotation calling, identification vendors, finalizing the vendors based on quality of the product and quoted price. After the procurement of the items, the end users are issued and they are utilized.
- The Accounts officer keeps the track of the spending with respect to budget allocation of funds.
- Almost all the heads are adequate and used to full extent except one or two depending on the nature of account head in respective financial year.
- The budget allocated for infrastructure building for all the four financial years, 2015-16 to 2018-19 was adequate in 3 financial years except for 2018-19.
- Except for the financial year 2017-18, the funds under the head Laboratory consumables allocated was adequate. Overspending is done during 2017-18 due to some exceptional student projects.
- Except for the financial year 2018-19, the funds under the head Library for books purchase, magazines and newspapers was adequate.
- Due to unforeseen travelling expenses the funds allocated to Travel head is inadequate during every financial year. It may be due to additional unavoidable travelling and variation in fuel price.



- Based on the adequate allocation of funds, monthly expenditure is prepared using the budgeted and allocated funds and actual expenditure statement is sent to head office. The accounts are audited by the auditor every month.
- Estimated allocation of funds, monitoring of expenditure is done by the head of the institute, Director through the Principals and department heads.

A sample of the 'Monthly income & expenditure statement':

**B K BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY, PILANI**

**INCOME & EXPENDITURE ACCOUNT FOR THE PERIOD FROM 01-04-18 TO 31.12.18**

(Rs.in Lakhs)

<b><u>INCOME</u></b>	<b><u>Actual</u></b>	<b><u>Actual</u></b>	<b><u>Total</u></b>	<b><u>Budget for</u></b>	<b><u>Surplus</u></b>
	<b><u>Up to Nov.,18</u></b>	<b><u>Dec,18</u></b>	<b><u>Apr18 to Dec,18</u></b>	<b><u>9 months Apr- Dec,18</u></b>	
Admission, Tuition and Development Fees	490.41	61.30	551.71	612.89	-61.18
Hostel Income	83.35	10.42	93.77	119.20	-25.43
Miscellaneous Income	32.77	1.57	34.34	41.63	-7.29
Interest	54.83	4.98	59.81	52.50	7.31
	661.36	78.27	739.63	826.22	-86.59
<b><u>EXPENDITURE</u></b>					
Salary,Gratuity	503.77	60.68	564.45	578.39	13.94
Advertiesment	17.02	6.67	23.69	21.00	-2.69
Audit	0.30	0.00	0.30	0.30	0.00
Affiliation/Inspection	0.07	3.25	3.32	3.75	0.43
Electricity & Water	22.39	1.87	24.26	25.50	1.24
Games,Cultural& other Activies	0.05	0.00	0.05	0.52	0.47
Garden	0.18	0.04	0.22	0.82	0.60
Building Maintenance	8.01	0.00	8.01	14.25	6.24
Insurance	1.91	0.00	1.91	1.65	-0.26
Magazines & news papers	0.36	0.05	0.41	0.68	0.27
Motor car running expenses	2.64	0.00	2.64	2.89	0.25
Scholarship to staff children	22.71	0.77	23.48	19.50	-3.98
Staff Medical help	2.87	0.35	3.22	3.75	0.53
Training Material	1.06	0.04	1.10	4.12	3.02
Travelling Expenses	4.79	0.01	4.80	4.50	-0.30
Stationary & postage	2.92	0.11	3.03	4.12	1.09
Comp.AC & Machinery Repair	3.48	0.58	4.06	5.26	1.20
Telephone	0.59	0.05	0.64	1.50	0.86
International Collaboration	0.03	0.08	0.11	1.65	1.54
Nagar Palika Tax	0.00	0.00	0.00	2.25	2.25



**B K BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY**

Pilani - 333031 (Raj.)

Date of Quotation/Order : \_\_\_\_\_

Date of procurement : \_\_\_\_\_ Bill No. \_\_\_\_\_ Bill Date \_\_\_\_\_

Vendor : \_\_\_\_\_ Bill Amount: \_\_\_\_\_

Issued to (Indenter/User) : \_\_\_\_\_ Department : \_\_\_\_\_

Status of Item : Found good/returned

**Utilization by Indenter**

Remarks : (Details of utilization)

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Signature of Indenter

Verified by Department Head

**10.3 Program Specific Budget Allocation, Utilization (30)**

Total Marks 30.00

**10.3.1 Adequacy of budget allocation (10)**

Institute Marks : 10.00

**Adequacy of budget allocation:**

- Fees collected from the students is the major source of income for the department of the Institute.
- Department tries to contribute in generating internal revenue through short term courses.
- As per the instructions of Director sir and Principals, head of the department prepares requisitions like computer hardware, software, accessories, devices, faculty development, training, travel, new faculty need etc. for the department to put in the budget well in advance of every financial year.
- Institute allocates funds from this collected fees to various activities at Institute level:
  - Computers
  - Consumables and Accessories for the Labs
  - Maintenance of equipment, devices in Labs
  - System Software
  - Application Software
  - Faculty Training and Development, etc.
- In general, the budget allocated for each financial year under various heads particularly for the department is adequate for utilization.

Table showing fund allocation:

**B K BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY, PILANI****DETAILS OF ADDITION TO BLOCK AS ON 31.03.18****(Rs.in Lakhs)**

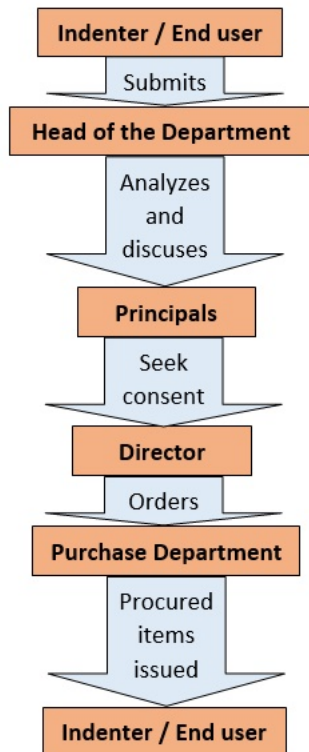
<b>S. NO.</b>	<b>PARTICULARS</b>	<b>BUDGET</b>	<b>AMOUNT SPENT</b>	<b>Remarks</b>
		<b><u>SANCTIONED</u></b>	<b><u>UP TO 31.03.18</u></b>	
1	Amphi Theatre with Gym	150.00	159.97	
2	Indoor Sports Complex	20.00	17.18	
3	Equipment for Mechanical Lab/ Elect.Workshop/ Electronics & Computer Lab	15.00	23.86	
4	Photocopier/Printers	2.50	2.27	
5	Books & software	8.00	5.69	
6	Computers	4.00	3.09	
7	Borewell(New) & Boring of old wells	1.10	1.03	
8	Miscellaneous/Unforeseen	1.00	1.33	
			214.42	
	<b><u>Construction Materials</u></b>			
	Cement,steel,section etc.		7.25	
		<b>201.60</b>	<b>221.67</b>	

**10.3.2 Utilization of allocated funds (20)**

Institute Marks : 20.00

## Utilization of allocated funds (20)

- The allocated funds for the program (department) are being utilized adequately under the respective heads in every financial year.
- For spending of allocated funds, the indenter or end user brings requirements to the head of the department, after analysis by HoD the requisition is discussed with Principal and further with Director. Then it is proceeded to purchase committee (purchase office) for further process. This is carried out when the spending amount is more than Rs. 10,000/-. When purchase amount is less than Rs. 10,000/- then in consent with purchase committee the requisitions may be ordered for procurement following the procedure.
- When the purchase amount is more than ten thousand rupees, the purchase office processes the indent for quotation calling, identification vendors, finalizing the vendors based on quality of the product and quoted price. After the procurement of the items of the requisition indent, the end users are issued through issue slips and they are utilized. Utilization record is recorded and maintained by the stores and purchase officer.
- The Accounts Officer keeps the track of the spending with respect to budget allocation of funds, in terms of vouchers and monthly expenditure statement.
- All the heads are used to its full adequacy depending on the nature of account head in respective financial year, for the particular department.
- Department head helps Principals and Director for monitoring of expenditure of allocated funds.



Institute Marks :

Total Income at Institute level: For CFY,CFYm1,CFYm2 &amp; CFYm3

CFY: (Current Financial Year),

CFYm1 : (Current Financial Year minus 1),

CFYm2 : (Current Financial Year minus 2) and

CFYm3 : (Current Financial Year minus 3)

**Table 1 :: CFY 2018-2019**

28275611		Actual expenditure (till...): 27925394		Total No. Of Students 376
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
11442000	16833611	10787000	17138394	74269.66

**Table 2 :: CFYm1 2017-2018**

21874398		Actual expenditure (till...): 25018598		Total No. Of Students 364
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
7625000	14249398	7933000	17085598	68732.41

**Table 3 :: CFYm2 2016-2017**

20703356		Actual expenditure (till...): 22143374		Total No. Of Students 352
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
7664000	13039356	6939000	15204374	62907.31

**Table 4 :: CFYm3 2015-2016**

21087496		Actual expenditure (till...): 20122674		Total No. Of Students 364
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
7500000	13587496	6621000	13501674	55282.07

Items	Budgeted in 2018-2019	Actual Expenses in 2018-2019 till	Budgeted in 2017-2018	Actual Expenses in 2017-2018 till	Budgeted in 2016-2017	Actual Expenses in 2016-2017 till	Budgeted in 2015-2016	Actual Expenses in 2015-2016 till
Laboratory equipment	1500000	867000	400000	309000	500000	538000	1150000	1140000
Software	600000	15000	800000	569000	1000000	569000	200000	189000
Laboratory consumable	137000	44000	150000	157000	150000	149000	150000	119000
Maintenance and spares	175000	165000	125000	121000	125000	124000	112000	94000
R & D	105000	46000	80000	45000	80000	64000	80000	54000
Training and Travel	150000	260000	75000	134000	69000	68000	68000	63000
Advertisement, Audit, Affiliation, Electricity, Garden, Games & Culture, Insurance,	8775000	9390000	5995000	6598000	5740000	5427000	5740000	4962000
<b>Total</b>	<b>11442000</b>	<b>10787000</b>	<b>7625000</b>	<b>7933000</b>	<b>7664000</b>	<b>6939000</b>	<b>7500000</b>	<b>6621000</b>

Motor, Miscellaneous,  
Telephone, Rates & Taxes,  
Legal Expenses

10.4 Library and Internet (20)

Total Marks 20.00

Yes. We have received zero deficiency report for the library and internet through the Extension of Approval (EoE) of AICTE for all the assessment years.

**Availability of Library Facility :**

We have WiFi enabled air-conditioned library consisting of 1 issue library and 2 reference libraries. The library system is like "Integrated Knowledge Resource Centre" with adequately-stocked books, periodicals, references, educational CDs/DVDs, national and international journals, covering all aspects of academic studies and research materials.

**Availability of Internet Facility :**

The institute is using the internet facility through Fiber Optics medium from Arichwal IT Services Private Limited up to 100Mbps bandwidth and Bharat Sanchar Nigam Limited up to 4 Mbps of bandwidth.

**Name of the Internet Providers**

1. Arichwal IT Services Pvt. Ltd
2. BSNL

**Available Bandwidth**

1. 100Mbps (AITSPL) thorough Fiber Optics
2. Upto 4 Mbps (BSNL) through ADSL

**Wi-Fi Availability:**

The campus of the institute is fully Wifi enabled. Availability of WiFi at different locations:

- Administrative Block with Internet facility (LAN and Wi-Fi),
- Five Department labs with Internet facility (LAN and Wi-Fi),
- Three Academic Blocks (A, B, C) with Internet facility (LAN and Wi-Fi),
- Boy's and Girl's Hostel Block with Wi-Fi Internet facility.
- Staff rooms are equipped with wired internet.

**Internet Access in Labs, Classrooms, Library and Office of all department: Yes through (LAN and Wi-Fi)**

Institute's Administrative Block: Computer Lab 1, Computer Lab 2, Director's PA Office, Meeting Room, Reference Library 1, Reference Library 2, Tower on Administrative Block Rooftop

Institute's Academic Block A and B, Principal Academic office, DSP Lab/ Computer Lab 3, Institute's Academic Block C, Institute's Academic Block D, Computer Lab 4, Institute's Block BPTRC, Computer Lab 5, BIC LAB

Institute's Boy's Hostel Block A - All Floors covered with 12 Access Points, Institute's Boy's Hostel Block B - All Floors covered with 12 Access Points, Institute's Boy's Hostel Block C - All Floors covered with 9 Access Points. Institute's Boy's Hostel Block D - All Floors covered with 10 Access Points. Institute's Girl's Hostel Block A - All Floors covered with 12 Access Ppoints. Institute's Girl's Hostel Block B - All Floors covered with 9 Access Points.

Availability of wired Internet in faculty rooms 1:1

**Sample of purchase records:**

Internet Purchase Bill (3 Months usage)

**itspl** Broadband  
 Arichwal IT Services Private Limited

MANDI ROAD, SURAJGARH DISTT-JHUNJHUNU, RAJ-333029  
 919352520725

INVOICE

Mr/Ms. B.K. Birla Institute of Engineering and Technology	INVOICE DATE	01-07-2019
Building Name - BKBIET Buildings	INVOICE NO.	AAA87543
Flat No -B.K.B.I.E.T.	DUE DATE	Immediate
Address:- CEERI ROAD,PILANI, Distric- Jhunjhunu, Rajasthan INDIA	CUSTOMER ID	bkbiet
Mobile/Contact No:-9784287553 9784287553		

INVOICE SUMMARY

Sr. No	Description	Rate	Amount(INR)
1	AITSP_LLL_100Mbps_BKBIET_90D [01-07-2019 TO 29-09-2019 ]	174050.00	174050.00
	<b>AMOUNT</b>		147500
	<b>SGST @ 9%</b>		13275
	<b>CGST @ 9%</b>		13275
	<b>TOTAL AMOUNT</b>		174050.00
	<b>Previous Balance</b>		0
	<b>NET AMOUNT:</b>		174050.00

*Handwritten:* RS No - 214 / 4/7/19 / 212

Rupees in Words:- One Lakh, Seventy-four Thousand, Fifty only

Remarks:-

1. Cheques should be drawn in the name of "Arichwal IT Services Private Limited."
2. Please clear your dues on time to enjoy uninterrupted services.
3. Current Plan Details"Intert Leased Line 1:1 100Mbps"

*Handwritten:* Checked by [Signature] use report attached

For Arichwal IT Services Private Limited  
  
 Authorised Signatory

BANK ACCOUNT DETAILS:-

Account Name: ARICHWAL IT SERVICES PRIVATE LIMITED.  
 Bank Name: PUNJAB NATIONAL BANK Branch : SURAJGARH.  
 ACCOUNT NO : 6893002100001404  
 IFSC: PUNB0689300  
 For More information Mail us account@aitspl.in or Call us 1800-121-0125



*Handwritten:* 89



AHPC9392C12P Original Copy


**TAX INVOICE**  
**M/s Chotia's (18-19 & 19-20)**  
 Nutan Market,, PILANI (333031)  
 PAN : AAHPC9392C  
 Tel. : 9414081930 Fax : 01596-242930 email : chotias@yahoo.com

Invoice No. : GST-152 Date of Invoice : 06-11-2019 Place of Supply : Rajasthan (08) Reverse Charge : N Order No. :	Order Date : Beneficiary Nam : CHOTIAS Beneficiary Ban : SBI, CEERI PILANI Bank A/C : 0000061252638688 IFSC Code : SBIN0031398
<b>Billed to :</b> BK Birla Instt. of Engg. & Tech CEERI ROAD PILANI	
<b>Shipped to :</b> BK Birla Instt. of Engg. & Tech CEERI ROAD PILANI	
GSTIN / UIN :	

S.N.	Description of Goods	HSN Code	Qty.	Unit	Price	Amount(Rs.)
1.	TPLINK A9 AC1900 W/L MU-MIMO (18%) 2193430000747 2193430000745 2193430000742  <i>for Wi-Fi</i>	8517	3.0	Nos.	5,127.11	15,381.33
						<b>15,381.33</b>
Add : CGST @ 9.00 %						1,384.32
Add : SGST @ 9.00 %						1,384.32
Add : Rounded Off (+)						0.03
<b>Grand Total</b>					<b>3.0 Nos.</b>	<b>18,150.00</b>

HSN/SAC	Tax Rate	Taxable Amt.	CGST	SGST	Total Tax
8517	18%	15,381.33	1,384.32	1,384.32	2,768.64

**Rupees Eighteen Thousand One Hundred Fifty Only**

<b>Terms &amp; Conditions</b> E & O.E. 1. Goods once sold will not be taken back. 2. Interest @ 18% p.a. will be charged if the payment is not made with in the stipulated time. 3. Subject to 'Rajasthan' Jurisdiction only.	<b>Receiver's Signature :</b>   <b>For M/s Chotia's (18-19 &amp; 19-20)</b> Authorised Signatory
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*R.B.No-540*  
*7.11.19*

Printers (Stock Register)

**Shri Krishnarpan**  
B.K. Birla Institute of Engineering & Stock

Page No. 91

Article: Printed HP Laser

S. No	RPT No	Date	Particulars	Qty.	Rate	Amount	Balance	Location
1	208	11/8/19	HP Laser Printer 1020	1	7650/-	7650/-	100%	890-1000 100%
2	628	10/10/19	" P1008	1	7200/-	7200/-	100%	100%
3	543	3/9/19	" "	1	7200/-	7200/-	100%	100%
4	505	18/11/19	" P1007	1	5400/-	5400/-	100%	100%
5	038	10/11/19	" 1020	15	60000/-	60000/-	100%	100%
6	597	8/8/19	" "	3	60000/-	18000/-	100%	100%
		<p>HPD 12-14 HPD 10-12-14</p>						
7	1243	27/3/19	MS Computers, P/B 210726.214 8.2.14 HP Laser HP 1020 CNC 99853	1	89800/-	89800/-	100%	100%

**10.4.1 Quality of learning resources (hard/soft) (10)**

Institute Marks : 10.00

Relevant learning resources are available at the Institute for providing quality learning.

**Library**

We have one Issue Library and two Reference Libraries. Here, the library system is like "Integrated Knowledge Resource Centre" with adequately-stocked books, periodicals, references, educational CDs/DVDs, national and international journals, covering all aspects of academic studies and research materials.

The students and faculty make access to the National Digital Library also. The air-conditioned library is Wi-Fi-enabled.



**BKBIET**  
PILANI

EXPANSIVE LIBRARIES TO KEEP UPDATED

The Institute has three libraries, one is an issue library and two are reference libraries (air-conditioned). Book bank facility is available for first-year students. The librarian maintains proper record of the books issued and requirements. The details of all the three libraries are as follows:

Carpet area of library	Reference Library I: 60 x 45 SqFt Reference Library II: 45 x 45 SqFt Issue Library: 45 x 45 SqFt
Number of seats in reading space	200
Number of users (issue book) per day	150
Number of users (reading space) per day	50-60
Timings: During working day, weekend, and Vacation	Working Days:9.00 am to 9.00 pm Vacation: 10.00 am to 5.00 pm
Number of library staff	6
Number of library staff with a degree in Library	4
Library Management	Using ERP software
Computerization for search, indexing	Yes
Issue/return records barcoding/Software used	Using ERP software
Number of Text Books	14238
Number of Reference Books	5715
Number of Book Bank Books	13513
Number of Journals subscriptions (Engineering and Technology)	12
Number of Magazines subscriptions	28
Digital Library Availability	Yes

**Number of titles:** 3341

**Number of volumes:** 33466

Year	Number of new titles added	Number of new volumes added
2015	13	16798

2016	44	17820
2017	57	19411
2018	34	19953

**Journals**

Details		2015	2016	2017	2018
Engineering & Technology	Soft Copy	2	3	3	3
	Hard Copy	10	10	10	10

**Magazines**

Details	2015	2016	2017	2018
Weekly	5	5	5	4
Fortnightly	3	3	3	2
Quarterly	3	3	3	2
Monthly	9	9	9	18
Yearly	-	-	-	2
<b>TOTAL</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>28</b>

**News Papers**

Details	2015	2016	2017	2018
National	7	7	7	9
Regional	7	7	7	7
Local	2	2	2	2
<b>TOTAL</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>18</b>

**Digital Library**

Details	Data
Number of e-books	250
Availability of an exclusive server	YES
Availability of exclusive space/room	YES
Number of users per day	5

**Accessibility to Students:**

Reference Library is accessible to students from 9.00 am to 9.00 pm on all working days. During vacation when examinations are commencing the library remains open from 10.00 am to 5.00 pm. The operating time for issue section is from 9.00 am to 5.00 pm. One student can get 3 books issued at a time for a duration of 14 days each.

**Online journal IJMOT (International Journal of Microwave and Optical Technology)**

An open journal published in collaboration with our Institute. Students take the advantage of this US journal for enhancing their Engineering and Research knowledge.



# B K Birla Institute of Engineering & Technology, Pilani

- ABOUT BKBIET
- INTERNATIONAL
- ACADEMICS
- INFRASTRUCTURE

## IJMOT

International Journal of Microwave and Optical Technology (IJMOT) is now published in collaboration with B. K. Birla Institute of Engineering & Technology, Pilani.

This online journal provides common platform to disseminate original research work and invited tutorials in Microwave Technology, Microwave Photonics and Optical Technology.

It's useful for Researchers, Scientists and Engineers working in the fields of Electro-magnetic, Microwaves, Microwave Communications, Optical Technology, Microwave Photonics/Band Gap Materials and Photonics Antenna Systems & devices.

[Read more](#)

**IJMOT** International Journal of Microwave and Optical Technology(IJMOT)

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Home

**International Journal Microwave and Optical Technology (IJMOT)**  
(A Publication of the International Academy of Microwave and Optical Technology/Founded in 2006)

**10.4.2 Internet (10)**

Institute Marks : 10.00

Name of the Internet provider	1. Arichwal IT Services Pvt. Ltd, 2. BSNL
Available band width	1. 100Mbps (AITSPL) thorough Fiber Optics, 2. Upto 4 Mbps (BSNL) through ADSL
WiFi availability	Yes. Administrative Block with Internet facility (LAN and Wi-Fi), 5 Department labs with Internet facility (LAN and Wi-Fi), 3 Academic
Internet access in labs, classrooms, library and offices of all Departments	Blocks (A, B, C, D and W) facilities (LAN and Wi-Fi) in Boy's Block, Girl's Hostel Block with 20 Computer Lab 2) Director's room equipped with Router, 3) Administrative Block (A) Faculty's Library (Yes), 4) BKBIET.ac.in Administrative Block B and W with 10 Academic Block, 4) Principal
Security arrangements	Academic Office, Database and Computer Lab 4) Institute's Academic Block C, 4. Institute's Academic Block D 1) Computer Lab 4, 5. Institute's Block BPTRC 1) Computer Lab 5 2) BIC LAB, 6. Institute's Boy's Hostel Block A 1) All Floor cover with 12 AP, 7. Institute's Boy's Hostel Block B 1) All Floor cover with 12 AP, 8. Institute's Boy's Hostel Block C 1) All

Engineering Graduates will be able to: Floor cover with 9 AP, 9. Institute's Boy's Hostel Block D 1) All Floor cover with 10 AP, 10. Institute's Girl's Hostel Block A 2) All Floor cover

1. **Engineering Knowledge** : Apply the knowledge with 12 AP, 12. Institute's Girl's Hostel Block B 3) All Floor cover with 11 AP, 11. Institute's Boy's Hostel Block C 4) All Floor cover with 10 AP, 10. Institute's Girl's Hostel Block A 2) All Floor cover to bring specialization to the solution of complex engineering problems.
2. **Problem Analysis**: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems**: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage**: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability**: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication**: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance**: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

**(B) PROGRAM SPECIFIC OUTCOME (PSOs)**

PSO1	The ability to identify, analyze and design solutions for complex engineering problems in multidisciplinary areas by applying the core principles of computer science engineering and allied fields.
PSO2	The ability to achieve programming competency through the use of algorithms and the implementation of standard practices in software project development to deliver quality software products that accomplish industrial needs.
PSO3	Demonstrate ethical behavior in their chosen professions and daily conduct, while working towards the betterment of society and engineering community.

## Declaration

The head of the institution needs to make a declaration as per the format given -

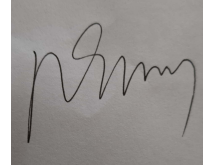
- I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines inforce as on date and the institutes hall fully abide by them.
- It is submitted that information provided in this Self Assessment Report is factually correct.
- I understand and agree that an appropriate disciplinary action against the Institute willbe initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, postvisit and subsequent to grant of accreditation.

### Head of the Institute

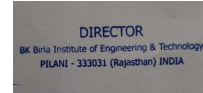
Name : Dr. S. M. Prasanna Kumar

Designation : DIRECTOR

Signature :



Seal of The Institution :



Place : PILANI

Date : 19-11-2019 17:41:09

