

NATIONAL BOARD OF ACCREDITATION

Compliance Report Format(Tier – I/Tier – II)

PART- A: Institutional Information

(To be filled only once for all the programs under consideration)

A1. Name and Address of the College:- B K Birla Institute of Engineering & Technology, Pilani-333031

City: - Pilani

State:- Rajasthan

Pin Code:- 333031

Phone No (including STD Code):- 01596-244262

Fax: --

Website: -https://bkbiet.ac.in/

E-mail:-bkbiet@btu.ac.in

A2. Year of Establishment:- 2007

A3. First Approval Letter No.:06/01/RAJ/ENGG/2007/51 Date:2007

A4. Head of the Institution:-

Name: - Dr S M Prasanna Kumar

Designation:- Director

Nature of Appointment:-

Phone No: -

Mobile:-9414062510

E-mail:-director@bkbiet.ac.in

Fax No:-

A5. Name and Address of the Affiliating University:- Bikaner Technical University

City:-Bikaner

State:- Rajasthan

Website: -https://btu.ac.in

Phone No (Including STD Code):-

Pin Code:-334004

E-mail:- reg@btu.rajasthan.gov.in

Fax:- 0151-2250940

A6. Type of the Institution:

Institute of National Importance

Autonomous

University

*Any other (Please specify)

Deemed University

*Provide Details:

A7. Ownership Status:

Central Government

Trust

State Government

Society

Government Aided

Section 25 Company

Self-financing

*Any Other (Please specify)

*Provide Details:

A8. Students Admissions (Institute level considering all UG programs):

Item	CAY 2023- 24	CAYm1 2022- 23	CAYm2 2021- 22	Total
Sanctioned Intake	480	480	480	1440
Number of Students Admitted (Corresponding to Sanctioned Intake)	411	373	232	1016
% of Students Admitted over last three Assessment Years(Total Admitted / Sanctioned Intake)				70.56

Kindly note that the year mentioned here is exemplary, institute has to consider the academic years as per the definition of CAY given in the document and according to the prevailing year.

Table A8

CAY: Current Academic Year

CAYm1: Current Academic Year minus 1 = Current Assessment Year

CAYm2: Current Academic Year minus 2 = Current Assessment Year minus 1

A9. Details of the Students actually admitted through Lateral Entry/Separate Division

Item	CAY 2023-24	CAYm1 2022-23	CAYm2 2021-22
Number of students admitted through Lateral Entry	16	22	19
Number of students admitted through Separate Division	Nil	Nil	Nil
Total Number of students admitted in the second year	Nil	22	19

Note: Provide student details of the second shift (if applicable)

A10. Provide separate Information for each of the program(s) for which compliance is to be submitted

Name of the Department	Name of the program being offered	Name of the program to be considered	Year of Start	Intake	Increase in intake, if any	Year of increase	AICTE Approval	Accreditation Status*
Computer Science and Engineering	Computer Science and Engineering	Computer Science and Engineering	2007	120	Yes	120	Yes	Yes

* **Write applicable one:**

- Granted provisional accreditation for two /three years for the period (specify period)
- Granted accreditation for 5 / 6 years for the period (specify period)
- Not accredited (specify visit dates, year)
- Withdrawn (specify visit dates, year)
- Not eligible for accreditation
- Eligible but not applied

PART B- Program Information

B1. Name of the Program:- Computer Science and Engineering

B2. Faculty Information and Contributions

Please provide the list of faculty in the department according to the below format as **Appendix I**

S.No.	Name	PAN No.	Qualification	Area of Specialization	Designation	Date of Joining	Date on which Designated as Professor/ Associated	Currently Associated (Y/N)	Nature of Association (Regular/ Contract/ Adjunct)	If contractual mention full	Date of Leaving (In case Currently Associated is "No")
1.	Dr Nimish Kumar	ADBPC8622N	ME/ M.Tech & PhD	Artificial Intelligence & Software Engineering	Associate Professor	01-04-2011	01-07-2017	Yes	Regular		
2.	Mr Manoj Kataria	AJGPK2681N	M.E/ M.Tech	Computer Science	Assistant Professor	01-08-2014		Yes	Regular		
3.	Mr Himanshu Verma	AEUPV7088R	M.E/ M.Tech	Embedded System	Assistant Professor	10-08-2009		Yes	Regular		
4.	Mr Gauttam Jangir	APVPJ6424M	M.E/ M.Tech	Brain-Computer Interface	Assistant Professor	10-08-2009		Yes	Regular		
5.	Mr Pradeep Singh Shekhawat	AJUPS5183R	M.E/ M.Tech	Multimedia And Data Management	Assistant Professor	02-08-2010		Yes	Regular		
6.	Mr Ramakant Soni	BYRPS2042G	M.E/ M.Tech	Multimedia And Data Management	Assistant Professor	02-08-2010		Yes	Regular		
7.	Ms Reena Saini	DAJPS8595C	M.E/ M.Tech	Software Engineering	Assistant Professor	10-08-2009		Yes	Regular		
8.	Mr Gopal Krishan Prajapat	AOUPP4426M	M.E/ M.Tech	Image Processing	Assistant Professor	02-08-2010		Yes	Regular		
9.	Mr Vipin Saraogi	AIDPS4412K	M.E/ M.Tech	Software Systems	Assistant Professor	16-01-2012		Yes	Regular		
10.	Ms Ruchi Sharma	BSRPS4197Q	M.E/ M.Tech	Software Systems	Assistant Professor	01-03-2012		Yes	Regular		

11.	Mr Sanjeev Sultania	BSRPS5216G	M.E/ M.Tech	Software Systems	Assistant Professor	01-07-2013		Yes	Regular		
12.	Mr Dhanesh Kumar Matolia	AHQPM0475J	M.E/ M.Tech	Computer Science	Assistant Professor	01-02-2012		Yes	Regular		
13.	Mr Anil Kumar Datika	DOLPK3349A	M.E/ M.Tech	Computer Science Engineering	Assistant Professor	10-08-2007		Yes	Regular		
14.	Mr Shashikant Sharma	CQQPS6147G	M.E/ M.Tech	Digital Image Processing And Signal Processing	Assistant Professor	10-08-2009		No	Regular		28-09-2022
15.	Mr Manoj Kumar Saini	BAFPS9565Q	M.E/ M.Tech	Software Systems	Assistant Professor	02-07-2012		Yes	Regular		
16.	Dr Abhishek Pandey	BAVPP2114E	ME/ M.Tech & PhD	Artificial Intelligence	Assistant Professor	04-10-2021		Yes	Regular		
17.	Dr Monika Sharma	GIRPS3125R	ME/ M.Tech & PhD	Machine Learning, Image Processing, and Artificial Intelligence	Assistant Professor	03-Oct-2023		Yes	Regular		
18.	Mr. Likma Ram	ANHPB0019Q	ME/ M.Tech	Programming in C and C++	Assistant Professor	06 Feb 2023		Yes	Regular		

B.2.1. Student Faculty Ratio (No of Faculty as per the sanctioned intake):-

(To be calculated at Department Level)

No. of UG Programs in the Department (n): _____

No. of PG Programs in the Department (m): _____

No. of Students in UG 2nd Year= **u1**

No. of Students in UG 3rd Year= **u2**

No. of Students in UG 4th Year= **u3**

No. of Students in PG 1st Year= **p1**

No. of Students in PG 2nd Year= **p2**

No. of Students = Sanctioned Intake + Actual admitted lateral students

(The above data to be provided considering all the UG and PG programs of the department)

S=Number of Students in the Department = UG1 + UG2 +UG3 + PG1 + PG2

F = Total Number of Faculty Members in the Department (excluding first year faculty)

Student Faculty Ratio (SFR) = S / F

UG/PG Year of Study	CAY		CAYm1		CAYm2	
	(2023-24)		(2022-23)		(2021-22)	
	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 (2022-23)	120	16	120	12	120	3
3rd Year (2021-22)	120	12	120	3	120	13
4th Year (2020-21)	120	3	120	13	120	2
PG Ist Year (2023-24)	18					
Sub-Total	378	31	360	28	360	18
Total No. of Students in the Department(S)	409		388		378	
No. of Faculty in the Department(F)	17		15		16	
Student Faculty Ratio(SFR)	24.06		25.87		23.63	
Average SFR	24.52					

B2.2. Faculty Details of the Department (UG+PG):

S.no.	Designation	CAYm2			CAYm1			CAY		
		2021-22			2022-23			2023-24		
		With PhD.		Without PhD	With PhD.		Without PhD	With PhD.		Without PhD
		Regular	Contractual		Regular	Contractual		Regular	Contractual	
a.	Professors	0	0	0	0	0	0	0	0	0
b.	Associate Professors	1	0	0	1	0	0	1	0	0
c.	Assistant Professors	1	0	14	1	0	13	2	0	13
d.	Total number of Faculty in the Department (UG+PG)	2	0	14	2	0	13	3	0	14

B2.3. Faculty Cadre Proportion

The reference Faculty cadre proportion is 1(F1):2(F2):6(F3)

F1: Number of Professors required = $1/9 \times$ Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per B2.1

F2: Number of Associate Professors required = $2/9 \times$ Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per B2.1

F3: Number of Assistant Professors required = $6/9 \times$ Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per B2.1

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2023-24)	2.00	0	4.00	1	13	16
CAYm1(2022-23)	2.00	0	4.00	1	13	14
CAYm2(2021-22)	2.00	0	4.00	1	13	15
Average Numbers	RF1=2.00	AF1=0.00	RF2=4.00	AF2=1.00	RF3=13.00	AF3=15

B2.4. Faculty as participants in Faculty development/training activities/STTPs

Name of the Faculty	Details of the participation		
	(Faculty development/training activities/STTPs)		
	CAY	CAYm1	CAYm2
	(2023-24)	(2022-23)	(2021-22)
Dr Nimish Kumar	5	5	5
Mr Manoj Kataria	-	3	-
Mr Himanshu Verma	5	5	5
Mr Gauttam Jangir	5	5	5
Mr Pradeep Singh Shekhawat	5	5	5
Mr Ramakant Soni	-	5	5
Ms Reena Saini	5	5	5
Mr Gopal Krishan Prajapat	5	5	5
Mr Vipin Saraogi	5	5	5
Ms Ruchi Sharma	5	5	5
Mr Sanjeev Sultania	5	5	5
Mr Dhanesh Kumar Matolia	5	5	5
Mr Anil Kumar Datika	5	5	5

Mr Shashikant Sharma	-	-	5
Mr Manoj Kumar Saini	-	-	3
Dr Abhishek Pandey	3	-	3
Dr Monika Sharma	-	-	-
Sum	58	63	71
RF = Number of Faculty Required to comply with 20:1 Student Faculty ratio as per 5.1	19.55	19.40	18.90
Assessment [3*(Sum / 0.5*RF)]	17.80	19.48	22.54
Average	19.94		

B2.5. Research and Development

Name of the faculty	Academic Research			
	Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc.		Ph.D. guided /Ph.D. awarded during the assessment period while working in the institute	
	As provided in SAR	After evaluation (till the date of compliance report)	As provided in SAR	After evaluation (till the date of compliance report)
Dr Nimish Kumar	1	3	0	0
Mr Manoj Kataria	0	1	0	0
Mr Himanshu Verma	0	2	0	0
Mr Gauttam Jangir	1	0	0	0
Mr Pradeep Singh Shekhawat	0	1	0	0
Mr Ramakant Soni	0	2	0	0
Ms Reena Saini	0	3	0	0
Mr Gopal Krishan Prajapat	0	1	0	0
Mr Vipin Saraogi	0	3	0	0
Ms Ruchi Sharma	0	0	0	0
Mr Sanjeev Sultania	0	0	0	0
Mr Dhanesh Kumar Matolia	0	0	0	0
Mr Anil Kumar Datika	0	0	0	0
Mr Bhupendra Kumar Jangir	0	0	0	0
Mr Shashikant Sharma	0	0	0	0
Mr Manoj Kumar Saini	0	0	0	0
Dr Abhishek Pandey	0	4	0	0

B2.6. Sponsored Research/Consultancy (Session-2022-23)

Project title	Funding Agency	Durati on	Amount
Business Intelligence (BI) Dashboard on Logistics	Vasavadatta Cements	2022-23	50000/-
ERP-Process & Quality Control Model	Vasavadatta Cements	2022-23	40000/-
Drone Assembly for Chimney of Cement Industry	Vasavadatta Cements	2022-23	105000/-
Chemical Analysis of Lime stone	Vasavadatta Cements	2022-23	775000/-
E-Cell, IoT based Project	Department of Information Technology, Rajasthan	2022-23	1000000/-
Science Day Project	Department of Science & Technology, Bikaner	2022-23	100000/-
Online Journal Publication (IJMOT)	University of Nevada, USA	2022-23	84368/-
			Total Amount(X): 21,54368/-

Session-2020-21

Project title	Funding Agency	Durati on	Amount
Business Intelligence (BI) Dashboard on Logistics	Vasavadatta Cements	2020-21	50000/-
ERP-Process & Quality Control Model	Vasavadatta Cements	2020-21	40000/-
Drone Assembly for Chimney of Cement Industry	Vasavadatta Cements	2020-21	105000/-
Chemical Analysis of Lime stone	Vasavadatta Cements	2020-21	775000/-
E-Cell, IoT based Project	Department of Information Technology, Rajasthan	2020-21	1000000/-
Science Day Project	Department of Science & Technology, Bikaner	2020-21	100000/-
Online Journal Publication (IJMOT)	University of Nevada, USA	2020-21	84368/-
			Total Amount(X): 21,54368/-

B.3. Students' Performance

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	CAY 2023- 24	CAYm1 2022- 23	CAYm2 2021- 22	CAYm3 (2020- 2021)
Sanctioned intake of the program (N)	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)	125	124	123	129
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	NA	16	12	3
Separate division students, if applicable (N3)	NIL	NIL	NIL	NIL
Total number of students admitted in the Program (N1 + N2 + N3)	125	140	135	132

Academic Performance Table

Year of entry	N1 + N2 + N3 (As defined above)	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	II	III	IV
CAY (2023-2024)	125				
CAY m1(2022-2023)	140	Awaited			
CAYm2 (2021-2022)	135	62	Awaited		
CAYm3 (2020-2021)	132	74	62	Awaited	
CAYm4 (LYG) (2019-2020)	142	63	60	55	55
CAYm5 (LYGm1)(2018-2019)	116	46	44	42	42
CAYm6(LYGm2)(2017-2018)	126	74	55	53	52
CAYm7(LYGm3) (2016-2017)	125	64	46	45	45

Year of entry	N1 + N2 + N3 (As defined above)	Number of students who have successfully graduated in the stipulated period (Total of With Backlog + Without Backlog)			
		I	II	III	IV
CAY(2023-2024)	125				
CAYm1(2022-2023)	140	123			
CAYm2 (2021-2022)	135	118	132		
CAYm3 (2020-2021)	132	128	129	129	
CAYm4 (LYG) (2019-2020)	142	124	136	135	88
CAYm5 (LYGm1)(2018-2019)	116	111	114	113	100
CAYm6(LYGm2)(2017-2018)	126	122	122	120	89
CAYm7(LYGm3) (2016-2017)	125	119	124	116	87

B3.1. Success rate without backlog in stipulated period

$SI = (\text{Number of students who graduated from the program without backlog in the stipulated period of course duration}) / (\text{Number of students admitted in the first year of that batch and admitted in 2}^{nd} \text{ year via lateral entry and separate division, if applicable})$

Item	Latest Year of Graduation, CAYm4(LYG) (2019-2020)	Latest Year of Graduation, CAYm5(LYGm1) (2018-2019)	Latest Year of Graduation minus 1, CAYm6(LYGm2) (2017-2018)
Number of students admitted in the corresponding First Year + admitted in 2 nd year via lateral entry and separate division, if applicable	135	116	126
Number of students who have graduated without backlogs in the stipulated period	55	42	52
Success Index (SI)	0.41	0.36	0.41
Average Success Index	0.39		

B3.2. Success rate with backlog in stipulated period of study

SI= (Number of students who graduated from the program with backlog in the stipulated period of course duration)/ (Number of students admitted in the first year of that batch and admitted in 2nd year via lateral entry and separate division, if applicable)

Item	Latest Year of Graduation, CAYm4(LYG) (2019-2020)	Latest Year of Graduation, CAYm5(LYGm1) (2018-2019)	Latest Year of Graduation, CAYm6(LYGm2) (2017-2018)
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if applicable	135	116	126
Number of students who have graduated with backlogs in the stipulated period	88	100	89
Success Index (SI)	0.65	0.86	0.71
Average Success Index	0.74		

B3.3. First Year Academic Performance

Academic Performance = ((Mean of 1st Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks in First Year of all successful students/10)) x (number of successful students/number of students appeared in the examination)

Successful students are those who are permitted to proceed to the second year.

Academic Performance	CAYm2 (2021-22)	CAYm3 (2020-21)	CAYm4 (2019-20)
Mean of CGPA or Mean Percentage of all successful students (X)	6.66	8.72	6.64
Total no. of successful students (Y)	118	128	124
Total no. of students appeared in the examination (Z)	118	128	124
API = x* (Y/Z)	6.66	8.72	6.64
Average API = (AP1 + AP2 + AP3)/3	7.34		

B3.4. Academic Performance in Second Year

API = ((Mean of 2nd Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Second Year/10)) x(number of successful students/number of students appeared in the examination)

Successful students are those who are permitted to proceed to the Third year.

Academic Performance	CAYm3 (2020-21)	CAYm4 (2019-20)	CAYm5 (2018-19)
Mean of CGPA or mean percentage of all successful students(X)	7.02	8.35	8.07
Total number of successful students(Y)	129	136	114
Total number of students appeared in the examination(Z)	129	136	114
API [X*(Y/Z)]:	7.02	8.35	8.07
Average API [(AP1 + AP2 + AP3)/4] :	7.81		

B3.5. Academic Performance in Third Year

API = ((Mean of 3rd Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Third Year/10)) x (number of successful students/number of students appeared in the examination)

Successful students are those who are permitted to proceed to the final year.

Academic Performance	CAYm4 (2019-20)	CAYm5 (2018-19)	CAYm6 (2017-18)
Mean of CGPA or mean percentage of all successful students(X)	7.2	8.7	7.04
Total number of successful students(Y)	135	113	120
Total number of students appeared in the examination(Z)	135	113	120
API [X*(Y/Z)]:	7.20	8.70	7.04
Average API [(AP1 + AP2 + AP3)/4] :	7.65		

B3.6.Placement, Higher Studies and Entrepreneurship

Item	CAY (2023-24) Batch-2020	CAYm1 (2022-23) Batch-2019	CAYm2 (2021-22) Batch-2018
Total No. of Final Year Students (N)	129	135	113
No. of students placed in companies or Government Sector (x)	62	93	107
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	-	00	02
No. of students turned entrepreneur in engineering/technology (z)	00	00	04
$x + y + z =$	62*	93	113
Placement Index : $(x + y + z)/N$	0.48	0.69	1.00
Average placement= $(P1 + P2 + P3)/3$	0.72		

PART C. Criterion wise Compliance Status

Criteria 1

1	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
1.1	State the Vision and Mission of the department and Institute	Full Marks Awarded	Continuing the same Vision and Mission.

1.1 State the Vision and Mission of the Department and Institute

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	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	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
1.2	State the Program Educational Objectives (PEOs)	Full Marks Awarded.	Continuing with the same PEOs.

Program Educational Objectives (PEOs)

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	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
1.3	Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders	Awareness among stake holders is found limited.	Awareness among stakeholders regarding the Vision, Mission, and Program Educational Objectives (PEOs) appears to be actively promoted through various channels within the institute. In the first lecture, faculty engage students in discussions about the vision and mission of the institute and department, along with Course Outcomes (COs), Program Outcomes (POs), and PEOs. Furthermore, the institute takes a proactive step by sending emails containing information about the vision and mission to stakeholders. The online webinars conducted by students are an effective means of disseminating this vital information among their peers, ensuring that a wider student audience is informed about the institutional goals and objectives. Additionally, separate workshops conducted for staff members regarding the National Board of Accreditation (NBA) and the mapping of COs and POs further demonstrate the commitment to spreading awareness among all stakeholders. While these efforts are commendable, continuous and consistent communication strategies may be necessary to ensure that stakeholders remain informed and engaged in the long term.

Meet - ndm-qept-qyn

meet.google.com/ndm-qept-qyn

GDSC BKBIET (Presenting)

The Washington Accord is an international accreditation agreement for undergraduate professional engineering academic degrees between the bodies responsible for accreditation in its signatory countries. The full signatories as of 2023 are:
 Australia, Canada, China, Costa Rica, Hong Kong, India, Indonesia, Ireland, Japan, Korea, Malaysia, Mexico, New Zealand, Pakistan, Peru, Russia, Singapore, South Africa, Sri Lanka, Taiwan, Turkey, the United Kingdom and the United States.

GDSC BKBIET

Dr Nimish Kumar

Vishakha

Ajay Shekhawat

Amit

Vimal Jangir

Gauttam Jangir

16 others

Amit

Activate Windows
Go to PC settings to activate Windows.

5:02 PM | ndm-qept-qyn

Inbox (1,377) - kumarnimish08@... Meet - ndm-qept-qyn

meet.google.com/ndm-qept-qyn

GDSC BKBIET (Presenting)

Program Outcomes

POs are statements about the knowledge, skills and attitudes ()g attributes) the graduate of a formal engineering program should have

POs are defined by Accreditation Agencies of the country (NBA in India)

1. Engineering Knowledge
2. Problem Analysis
3. Design/Development of Solutions
4. Conduct Investigations of Complex Problems
5. Modern Tool Usage
6. The Engineer and Society
7. Environment and Sustainability
8. Ethics
9. Individual and Team Work
10. Communication
11. Project Management and Finance
12. Lifelong Learning

GDSC BKBIET

Aayush Sharma

19EBKCS083_PRAD...

Gauttam Jangir

Manoj Kataria

Ajay Shekhawat

Harsh Gahlawat joined

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4:44 PM | ndm-qept-qyn

Webinar taken by GDSC coordinator Mr Aditya Sharma

बीकेबीआईईटी (जीडीएससी) का एनबीए मान्यता पर वर्चुअल सत्र

पिलानी बीकेबीआईईटी(जीडीएससी) ने शैक्षिक गुणवत्ता बढ़ाने के लिए हाल ही में राष्ट्रीय प्रत्यायन बोर्ड (एनबीए) और इसके बहुमुखी लाभों पर ध्यान केंद्रित करते हुए एक आभासी सत्र का आयोजन किया। द्वितीय वर्ष के छात्र आदित्य शर्मा के नेतृत्व में सत्र में एनबीए मान्यता के महत्व पर जानकारी दी। यह कार्यक्रम प्रतिष्ठित संकाय सलाहकार हिमांशु वर्मा और कंप्यूटर विज्ञान इंजीनियरिंग और सूचना प्रौद्योगिकी विभाग के प्रमुख डॉ. निमिष कुमार के अटूट समर्थन से आयोजित किया गया था। उपस्थित छात्रों ने एनबीए मान्यता के लक्ष्यों और लाभों के बारे में जानकारी प्राप्त की, जिससे उन्हें शिक्षा में गुणवत्ता आश्वासन की व्यापक समझ प्राप्त हुई। आभासी सत्र ने ज्ञान के प्रसार, छात्रों और संकाय सदस्यों के बीच सहयोग को बढ़ावा देने के लिए एक मंच के रूप में कार्य किया। संस्था के निदेशक डॉ. प्रसन्न कुमार, जीएम कमर्शियल केके पारिक और प्राचार्य डॉ. अनिल कुमार शर्मा ने सभी प्रतिभागियों को कोर्स की उपयोगिता बताते हुए बधाई दी।

बीकेबीआईईटी में एनबीए प्राप्ति प्रक्रिया पर विशेष कार्यशाला का आयोजन शिक्षा की गुणवत्ता बनाए रखने के लिए एनबीए मान्यता आवश्यक: डॉ. निमिष



पिलानी (बाबूलाल घोषलिया/ मृदुल पत्रिका)। बीके बीके इन्स्टीट्यूट ऑफ इंजीनियरिंग एंड टेक्नोलॉजी के कंप्यूटर इंजीनियरिंग विभाग ने एनबीए प्राप्ति प्रक्रिया पर एक दिवसीय कार्यशाला आयोजित की, जो विशेष रूप से संकाय सदस्यों के लिए तैयार की गई थी। इस कार्यक्रम ने संस्थान के शिक्षकों को एनबीए मान्यता प्रक्रिया में गहरी अंतर्दृष्टि प्राप्त करने का एक अमूल्य अवसर प्रदान किया। कार्यशाला का नेतृत्व कंप्यूटर

इंजीनियरिंग विभाग के प्रमुख डॉ. निमिष कुमार ने किया, जिन्होंने एनबीए मान्यता के महत्व पर जोर देते हुए कहा, एनबीए मान्यता गुणवत्तापूर्ण शिक्षा के प्रति हमारी प्रतिबद्धता की मान्यता है। हमारे संकाय को इसके ज्ञान से लैस करना यह प्रक्रिया हमारे संस्थान की निरंतर सफलता के लिए महत्वपूर्ण है। शिक्षा की गुणवत्ता बनाए रखने के लिए तकनीकी संस्थानों में कार्यक्रमों के लिए एनबीए मान्यता आवश्यक है। कार्यशाला में अतिथि बवता,

सहायक प्रोफेसर गोपाल कृष्ण प्रजापत ने एनबीए मान्यता प्रक्रिया की बारीकियों में बहुमूल्य अंतर्दृष्टि प्रदान करते हुए अपने व्यापक ज्ञान और अनुभव को साझा किया। एनबीए कोर टीम के सदस्य सहायक प्रोफेसर हिमांशु वर्मा, प्रदीप सिंह शेखावत, गीताम जागिड़ और रमाकान्त सोनी सहित संस्थान के कंप्यूटर विज्ञान और इंजीनियरिंग संकाय सदस्यों ने एनबीए प्राप्ति प्रक्रिया की जटिलताओं को समझाने में महत्वपूर्ण भूमिका निभाई।



कार्यशाला में व्यावहारिक गतिविधियाँ, इंटरैक्टिव चर्चाएँ, और सफल एनबीए मान्यता प्राप्त करने के लिए दस्तावेजीकरण आवश्यकताओं, मूल्यांकन मानदंड और सर्वोत्तम प्रथाओं की व्यापक व्याख्याएँ शामिल थीं। संस्था निदेशक डॉ. एसएम प्रसन्न कुमार, जीएम कमर्शियल केके पारिक और प्राचार्य डॉ. अनिल कुमार शर्मा ने कार्यक्रम का आयोजन करने वाली एनबीए कोर टीम और संकाय सदस्यों के प्रति आभार व्यक्त किया, और यह सुनिश्चित करने के

लिए उनके समर्पण पर प्रकाश डाला कि कार्यशाला ने संकाय सदस्यों को एनबीए मान्यता प्रक्रिया में उत्कृष्टता प्राप्त करने के लिए आवश्यक ज्ञान प्रदान किया। इस विशेष कार्यशाला ने न केवल एनबीए प्राप्ति प्रक्रिया के बारे में संकाय की समझ को मजबूत किया बल्कि शिक्षा के उच्चतम मानकों को बनाए रखने के लिए संस्थान की प्रतिबद्धता को भी मजबूत किया। यह अकादमिक मान्यता में निरंतर उत्कृष्टता प्राप्त करने की दिशा में एक महत्वपूर्ण कदम था।

एनबीए प्राप्ति प्रक्रिया पर विशेष कार्यशाला आयोजित

पिलानी (सीमा सन्देश सं)। चौके बिरला इंस्टीट्यूट ऑफ इंजीनियरिंग एंड टेक्नोलॉजी पिलानी के कंप्यूटर इंजीनियरिंग विभाग ने एनबीए प्राप्ति प्रक्रिया पर एक दिवसीय कार्यशाला आयोजित की, जो विशेष रूप से संकाय सदस्यों के लिए तैयार की गई थी।

इस कार्यक्रम ने संस्थान के शिक्षकों को एनबीए मान्यता प्रक्रिया में गहरी अंतर्दृष्टि प्राप्त करने का एक अमूल्य अवसर प्रदान किया। कार्यशाला का नेतृत्व कंप्यूटर इंजीनियरिंग विभाग के प्रमुख डॉ. निमित्त कुमार ने किया, जिन्होंने एनबीए मान्यता के महत्व पर जोर देते हुए कहा, एनबीए मान्यता गुणवत्तापूर्ण शिक्षा के प्रति हमारी प्रतिबद्धता की मान्यता है। हमारे संकाय को



इसके ज्ञान से लैस करना यह प्रक्रिया हमारे संस्थान की निरंतर सफलता के लिए महत्वपूर्ण है। कार्यशाला में मुख्य अतिथि वक्ता, सहायक प्रोफेसर गोपाल कृष्ण प्रजापत ने एनबीए मान्यता प्रक्रिया की चारोंकियों में बहुमूल्य अंतर्दृष्टि प्रदान करते हुए अपने व्यापक ज्ञान और अनुभव को साझा किया।

एनबीए कोर टीम के सदस्य सहायक प्रोफेसर हिमांशु चर्मा, प्रदीप सिंह शेखावत, गौतम जांगिड़ और रमाकांत सोनी

सहित संस्थान के कंप्यूटर विज्ञान और इंजीनियरिंग संकाय सदस्यों ने एनबीए प्राप्ति प्रक्रिया की जटिलताओं को समझने में महत्वपूर्ण भूमिका निभाई। कार्यशाला में व्यावहारिक गतिविधियाँ, इंटरैक्टिव चर्चाएँ, और सफल एनबीए मान्यता प्राप्त करने के लिए दस्तावेजीकरण आवश्यकताओं, मूल्यांकन मानदंड और सर्वोत्तम प्रथाओं की व्यापक व्याख्याएँ शामिल थीं। संस्था निदेशक डॉ. एसएम प्रसन्न कुमार, जीएम कमरुद्दीन

केके शारीक और प्राचार्य डॉ अनिल कुमार शर्मा ने कार्यक्रम का आयोजन करने वाली एनबीए कोर टीम और संकाय सदस्यों के प्रति आभार व्यक्त किया, और यह सुनिश्चित करने के लिए उनके समर्पण पर प्रकाश डाला कि कार्यशाला ने संकाय सदस्यों को एनबीए मान्यता प्रक्रिया में उत्कृष्टता प्राप्त करने के लिए आवश्यक ज्ञान प्रदान किया। इस विशेष कार्यशाला ने न केवल एनबीए प्राप्ति प्रक्रिया के बारे में संकाय की समझ को मजबूत किया बल्कि शिक्षा के उच्चतम मानकों को बनाए रखने के लिए संस्थान की प्रतिबद्धता को भी मजबूत किया। यह अकादमिक मान्यता में निरंतर उत्कृष्टता प्राप्त करने की दिशा में एक महत्वपूर्ण कदम था।

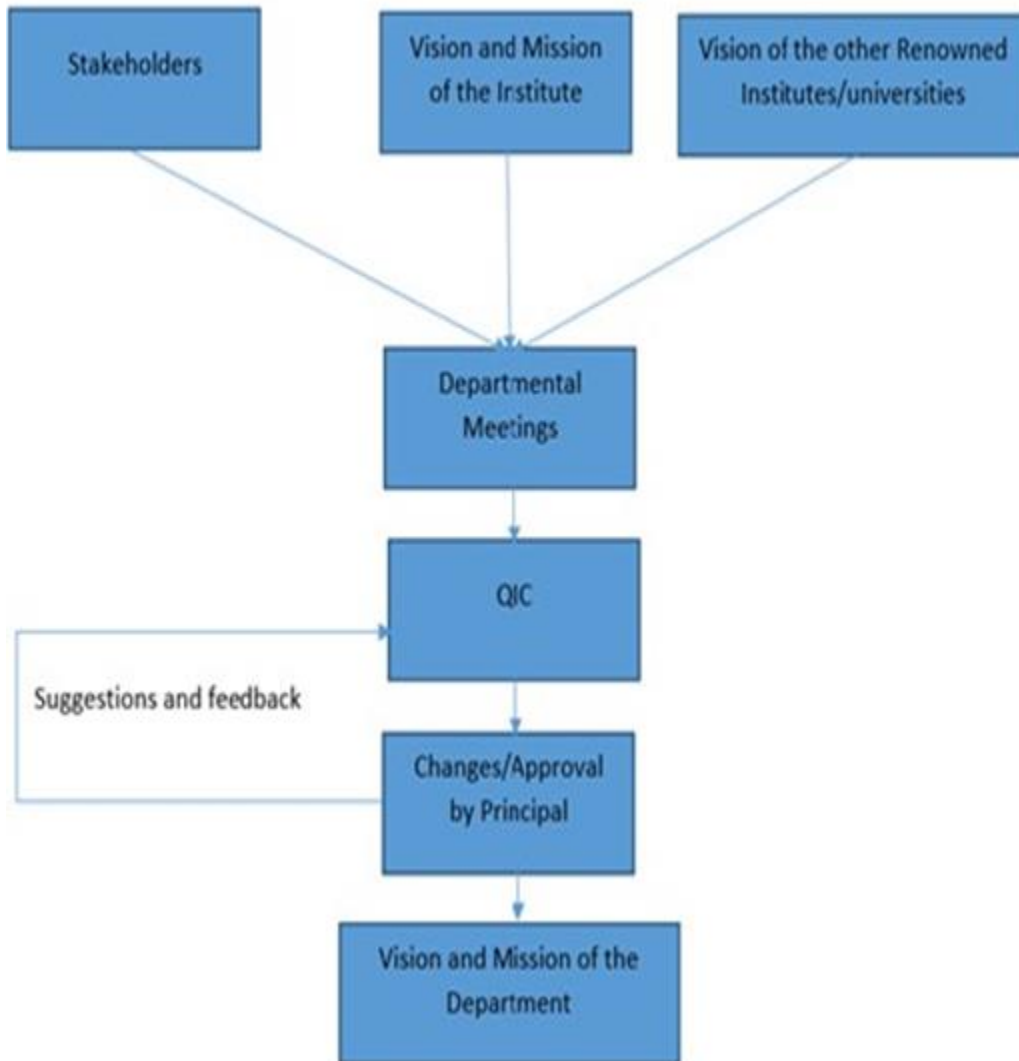
1	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
1.4	State the process for defining the Vision and Mission of the Department, and PEOs of the program stakeholders	No Comments Given.	Continuing with the same process.

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.

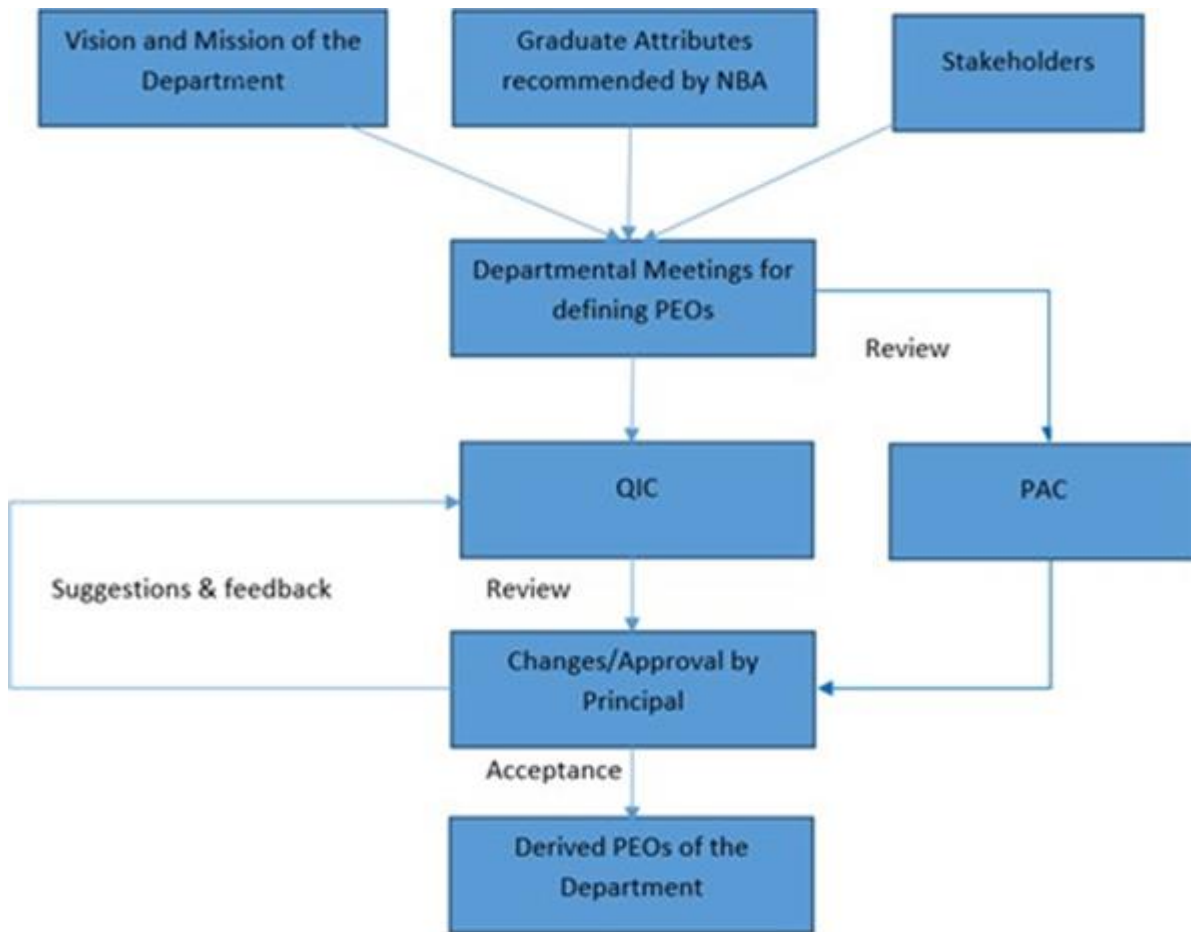
7. Finally, the Vision and Mission were approved by Principal of institution

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



Process for deriving PEOs of the Department

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				

S.No.	Mission	5	4	3	2	1
1.	Create conducive environment for learning and research	5				
2.	Establish industry and academia collaborations	5				
3.	Ensure professional and ethical values in all institutional endeavours	5				

Name and Signature


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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

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1	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
1.5	Establish consistency of PEOs with Mission of the Department	Consistency is not properly Justified.	To establish the consistency of Program Educational Objectives (PEOs) with the mission of a department or educational institution, following consistency table is redefined as follows:

PEOs Statements	M1: Create conducive environment for learning and research	M2: Establish industry and academia collaborations	M3: Ensure professional and ethical values in all institutional endeavours.
PEO1: Able to apply fundamental knowledge of mathematics, science and computer to analyze and accomplishment of engineering challenges.	(3) Justification: Creating a conducive environment for learning and research directly supports the application of fundamental knowledge to analyze engineering challenges.	(2) Justification: Industry-academia collaborations can indirectly support the application of fundamental knowledge but may not be the primary focus of this mission.	(1) Justification: Ensuring professional and ethical values doesn't directly address the application of fundamental knowledge in 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.	(3) Justification: Ethical attitude, professionalism, effective communication skills, entrepreneurship, interdisciplinary and leadership skills are all essential aspects of creating a conducive learning environment.	(3) Justification: Industry-academia collaborations can promote professionalism, interdisciplinary skills, and ethical values, aligning well with this PEO.	(3) Justification: Ensuring professional and ethical values directly relates to the ethical attitude and professionalism mentioned in PEO2.
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) Justification: Creating a conducive environment for research aligns with the goal of applying scientific and engineering knowledge to analyze and design solutions.	(3) Justification: Industry collaborations are crucial for applying concepts to real-life industry problems.	(2) Justification: Ensuring professional and ethical values indirectly supports the application of knowledge but may not be the primary focus when prototyping solutions.
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) Justification: Creating a supportive environment for learning and research directly supports a lifelong learning mindset.	(2) Justification: Industry-academia collaborations can expose students to technological trends and research but may not be the sole factor in inspiring lifelong learning.	(2) Justification: Ensuring professional and ethical values indirectly contributes to a supportive learning environment but may not directly inspire lifelong learning.
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) Justification: Preparing students for work excellence in industry and higher education aligns with creating a conducive learning environment.	(2) Justification: Industry-academia collaborations can help in preparing students for work excellence but may not directly contribute to high moral values.	(3) Justification: Ensuring professional and ethical values directly aligns with educating students with high moral values and knowledge.

Mission and PEOs statement correlation levels 1, 2 or 3 as defined below:

1: Slight (Low)

2: Moderate (Medium)

3: Substantial (High)

Criteria 2

2.1	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
2.1.2	State the delivery details of the content beyond the syllabus for the attainment of POs and PSOs.	<ol style="list-style-type: none"> 1. Delivery content beyond syllabus is limited. 2. Mapping of POs and PSOs are not justified. 	<p>The computer science and engineering department at BKBIET Pilani is providing its students with a comprehensive and enriching learning experience which covers the content beyond the syllabus. The details are given below.</p> <p>Mapping of POs and PSOs is provided in the list of activities and courses provide to students.</p>

Actions taken for following observations:

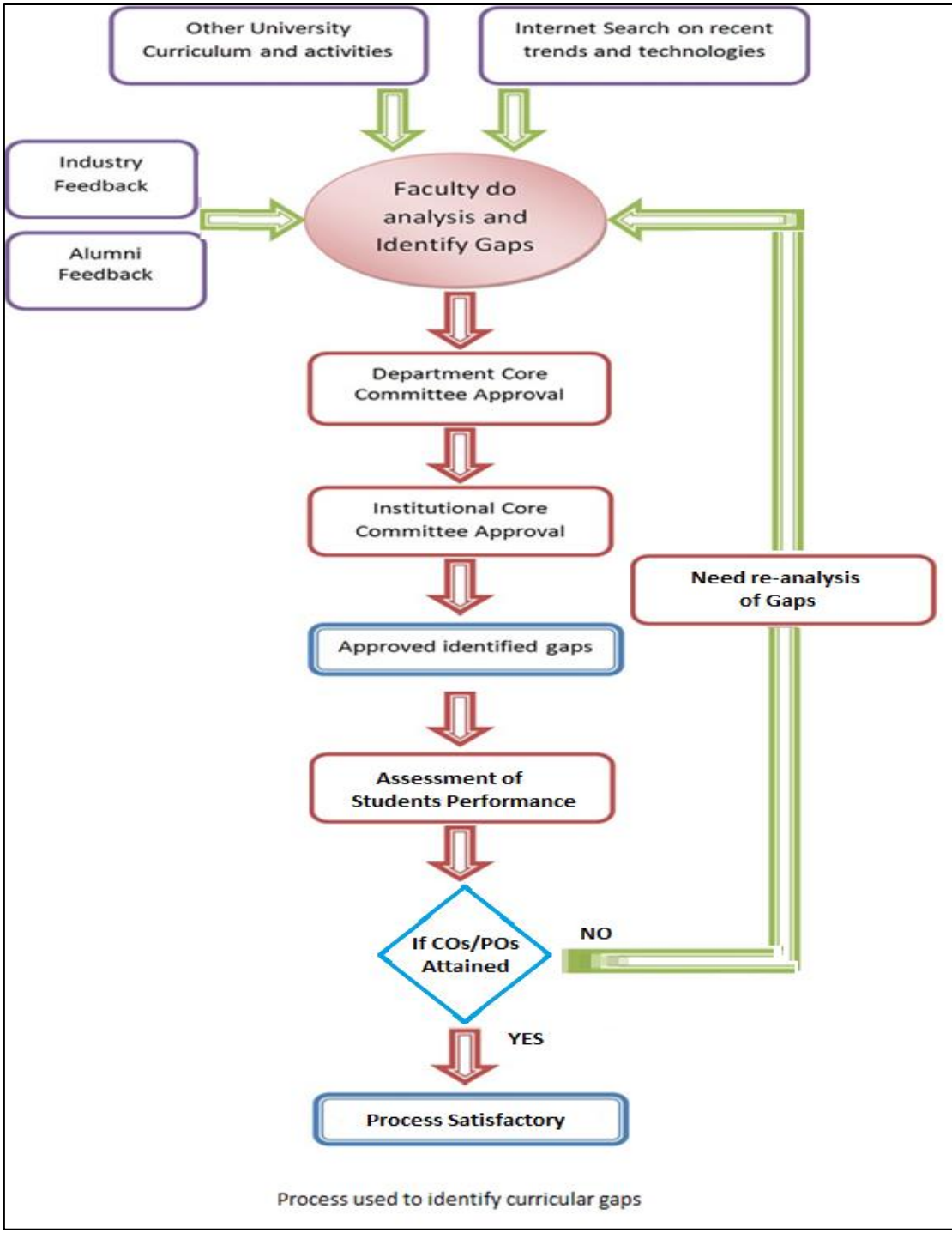
1. Delivery content beyond syllabus limited
2. Mapping of POs and PSOs not justified

Delivery details of the content beyond syllabus:

The computer science and engineering department at BKBIET Pilani is providing its students with a comprehensive and enriching learning experience which covers the content beyond the syllabus.

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.



S. 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	Cyber Crime	Investigating cyber-attacks by criminals. These investigations involve all areas of the Internet and online services
19	Industry Exposure	Where an engineering student is put through real-life work situations.
20	Soft skill developments	Combination of people skills, social skills, communication skills, character or face-to-face are generally more successful

21	Web design Training	Creative and technical skills for planning and building
22	New 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
23	Health Awareness	Awareness of disease and symptoms is essential for screening and early detection.
24	Voting Rights and awareness	Voting is a fundamental right that every individual should exercise

Delivery details of the content beyond the syllabus for the attainment of POs and PSOs (10)

The computer science and engineering department at BKBIET Pilani is providing its students with a comprehensive and enriching learning experience which covers the content beyond the syllabus.

Initiatives taken by the CSE department are listed below:

1. Online NPTEL courses:

BKBIET is associated with NPTEL as Local Chapter since 2019. Students and faculty members are actively participating in NPTEL online courses and workshops.

The screenshot shows the NPTEL Local Chapter website for B K Birla Institute of Engineering & Technology, Pilani. The page features the following information:

- SPOC Name:** DR. L SOLANKI
- Designation:** PRINCIPAL (ACADEMICS), ADMIN
- Partnering since:** Nov-2019
- College Id:** 3293 **Institute Type:** ENGINEERING, TECHNOLOGY AND MANAGEMENT

A congratulatory message states: "NPTEL is very happy to be associated with B K BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY, PILANI institute and its students. We are thankful to DR. L SOLANKI for being a pillar of support in NPTEL initiatives."

Course Run	Present	Gold	Elite	Silver	Successful	Participation	Topper	NPTEL Stars
Jul-Dec 2021	3	0	0	0	3	0	0	-
Jan-Apr 2021	16	0	4	2	4	6	1	-
Jan-Dec 2020	18	0	2	1	6	9	1	-

NPTEL Courses Jul-Dec 2021:

The screenshot shows a web browser window with the URL <https://archive.nptel.ac.in/LocalChapter/statistics/3293/Jul-Dec-2021.html>. The page title is "B K BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY, PILANI". There are three tabs: "Spoc Details", "Course Wise" (selected), and "Toppers Details". Below the tabs, there is a "Course Wise" section with a table showing statistics for two courses.

S.no	Course Name	Present	Gold	Elite	Silver	Success	Participation
1	Data Base Management System	2	0	0	0	2	0
2	Analog communication	1	0	0	0	1	0

NPTEL Courses Jan-Apr 2021:

The screenshot shows a web browser window with the URL <https://archive.nptel.ac.in/LocalChapter/statistics/3293/Jan-Apr-2021.html>. The page title is "B K BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY, PILANI". There are three tabs: "Spoc Details", "Course Wise" (selected), and "Toppers Details". Below the tabs, there is a "Course Wise" section with a table showing statistics for eight courses.

S.no	Course Name	Present	Gold	Elite	Silver	Success	Participation
1	Problem Solving through Programming in C	3	0	0	0	1	2
2	Programming in C++	2	0	1	1	0	0
3	Programming in Java	1	0	1	0	0	0
4	Cloud computing	1	0	1	0	0	0
5	Introduction to Internet of Things	1	0	0	0	1	0
6	Python for Data Science	1	0	0	0	0	1
7	Microprocessors and Microcontrollers	6	0	1	1	2	2
8	Signals and Systems	1	0	0	0	0	1

NPTEL Courses Jan-Dec 2020:

B K BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY, PILANI

Spoc Details **Course Wise** Toppers Details

Course Wise

S.no	Course Name	Present	Gold	Elite	Silver	Success	Participation
1	Digital Circuits	18	0	2	1	6	9

Relevant NPTEL course links associated to subjects per semester is provided online on BKBIET website:

BK Birla Institute of Engineering & Technology, Pilani (Raj.)
Department of Computer Science and Engineering

NPTEL Courses Links

III SEMESTER

Subject Code	Subject Name	NPTEL Link
3CS2-01	Advanced Engineering Mathematics	https://nptel.ac.in/courses/122/101/122101003/
3CS1-03/4CS1-03	Managerial Economics and Financial Accounting	https://nptel.ac.in/courses/110/101/110101131/
3CS3-04	Digital Electronics	https://nptel.ac.in/courses/108/105/108105113/
3CS4-05	Data Structures and Algorithms	https://nptel.ac.in/courses/106/102/106102064/
3CS4-06	Object Oriented Programming	https://nptel.ac.in/courses/106/105/106105151/
3CS4-07	Software Engineering	https://nptel.ac.in/courses/106/105/106105182/

IV SEMESTER

Subject Code	Subject Name	NPTEL Link
4CS2-01	Discrete Mathematics Structure	https://nptel.ac.in/courses/122/103/122103012
3CS1-02/ 4CS1-02	Technical Communication	https://nptel.ac.in/courses/109/106/109106094
4CS3-04	Microprocessor & Interfaces	https://nptel.ac.in/courses/108/105/108105102
4CS4-05	Database Management System	https://nptel.ac.in/courses/106/104/106104135
4CS4-06	Theory Of Computation	https://nptel.ac.in/courses/106/103/106103070
4CS4-07	Data Communication and Computer Networks	https://nptel.ac.in/courses/106/105/106105183

V SEMESTER

Subject Code	Subject Name	NPTEL Link
5CS3-01	Information Theory & Coding	https://nptel.ac.in/courses/117/101/117101053

CS DEPT NPTEL LINKS.pdf

https://bkbiet.ac.in/wp-content/uploads/2021/05/CS_Dept_NPTEL_Links.pdf

NPTEL Courses Links

III SEMESTER

Subject Code	Subject Name	NPTEL Link
3CS2-01	Advanced Engineering Mathematics	https://nptel.ac.in/courses/122/101/122101003/
3CS1-03/4CS1-03	Managerial Economics and Financial Accounting	https://nptel.ac.in/courses/110/101/110101131/
3CS3-04	Digital Electronics	https://nptel.ac.in/courses/108/105/108105113/
3CS4-05	Data Structures and Algorithms	https://nptel.ac.in/courses/106/102/106102064/
3CS4-06	Object Oriented Programming	https://nptel.ac.in/courses/106/105/106105151/
3CS4-07	Software Engineering	https://nptel.ac.in/courses/106/105/106105182/

IV SEMESTER

Subject Code	Subject Name	NPTEL Link
4CS2-01	Discrete Mathematics Structure	https://nptel.ac.in/courses/122/103/122103012/
3CS1-02/ 4CS1-02	Technical Communication	https://nptel.ac.in/courses/109/106/109106094/
4CS3-04	Microprocessor & Interfaces	https://nptel.ac.in/courses/108/105/108105102/
4CS4-05	Database Management System	https://nptel.ac.in/courses/106/104/106104135/
4CS4-06	Theory Of Computation	https://nptel.ac.in/courses/106/103/106103070/
4CS4-07	Data Communication and Computer Networks	https://nptel.ac.in/courses/106/105/106105183/

V SEMESTER

Subject Code	Subject Name	NPTEL Link
5CS3-01	Information Theory & Coding	https://nptel.ac.in/courses/117/101/117101053/
5CS4-02	Compiler Design	https://nptel.ac.in/courses/106/105/106105190/
5CS4-03	Operating System	https://nptel.ac.in/courses/106/106/106106144/
5CS4-04	Computer Graphics & Multimedia	https://nptel.ac.in/courses/105/104/1051041/
5CS4-05	Analysis of Algorithms	https://nptel.ac.in/courses/106/101/106101060/
5CS5-11	Wireless Communication	https://nptel.ac.in/courses/117/102/117102062/

VI SEMESTER

Subject Code	Subject Name	NPTEL Link
6CS3-01	Digital Image Processing	https://nptel.ac.in/courses/117/105/117105079/
6CS4-02	Machine Learning	https://nptel.ac.in/courses/106/106/106106139/
6CS4-03	Information Security System	https://nptel.ac.in/courses/106/106/106106129/
6CS4-04	Computer Architecture and Organization	https://nptel.ac.in/courses/106/105/106105163/
6CS4-05	Artificial Intelligence	https://nptel.ac.in/courses/106/105/106105077/
6CS4-06	Cloud Computing	https://onlinecourses.nptel.ac.in/noc21_cs15/pre
6CS5-11	Distributed System	https://nptel.ac.in/courses/106/106/106106168/

CS DEPT NPTEL LINKS.pdf

https://bkbiet.ac.in/wp-content/uploads/2021/05/CS_Dept_NPTEL_Links.pdf

V SEMESTER

Subject Code	Subject Name	NPTEL Link
5CS3-01	Information Theory & Coding	https://nptel.ac.in/courses/117/101/117101053/
5CS4-02	Compiler Design	https://nptel.ac.in/courses/106/105/106105190/
5CS4-03	Operating System	https://nptel.ac.in/courses/106/106/106106144/
5CS4-04	Computer Graphics & Multimedia	https://nptel.ac.in/courses/105/104/1051041/
5CS4-05	Analysis of Algorithms	https://nptel.ac.in/courses/106/101/106101060/
5CS5-11	Wireless Communication	https://nptel.ac.in/courses/117/102/117102062/

VI SEMESTER

Subject Code	Subject Name	NPTEL Link
6CS3-01	Digital Image Processing	https://nptel.ac.in/courses/117/105/117105079/
6CS4-02	Machine Learning	https://nptel.ac.in/courses/106/106/106106139/
6CS4-03	Information Security System	https://nptel.ac.in/courses/106/106/106106129/
6CS4-04	Computer Architecture and Organization	https://nptel.ac.in/courses/106/105/106105163/
6CS4-05	Artificial Intelligence	https://nptel.ac.in/courses/106/105/106105077/
6CS4-06	Cloud Computing	https://onlinecourses.nptel.ac.in/noc21_cs15/pre
6CS5-11	Distributed System	https://nptel.ac.in/courses/106/106/106106168/

VII SEMESTER

Subject Code	Subject Name	NPTEL Link
7CS4-01	Internet of Things	https://nptel.ac.in/courses/106/105/106105166/
7PE6-60.2	Water Pollution Control Engineering	https://nptel.ac.in/courses/105/107/105107207/

VIII SEMESTER

Subject Code	Subject Name	NPTEL Link
8CS4-01	Big Data Analytics	https://nptel.ac.in/courses/106/104/106104189/
8EE6-60.2	Soft Computing (Elective)	https://nptel.ac.in/courses/127/106/127106019/

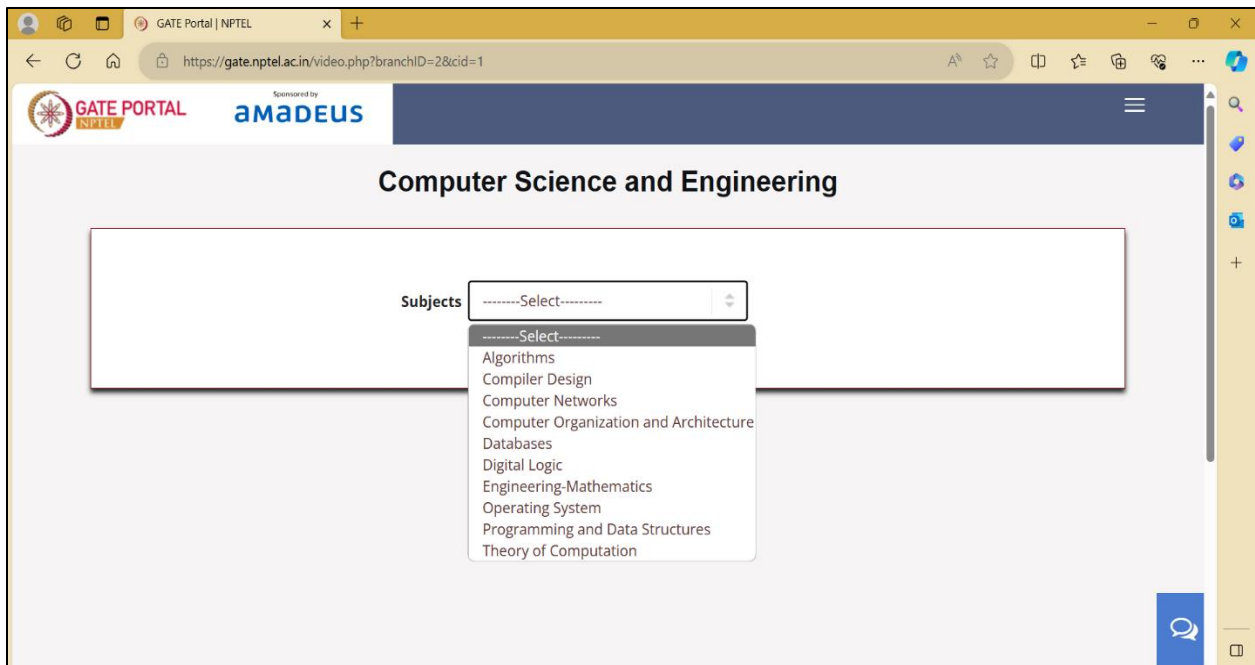
2. GATE Preparation:

Online links for effective GATE preparation is provide online on BKBIET website:
Students can access following resources through BKBIET website:

- NPTEL GATE Portal
- GATE official website
- GATE Old Papers
- Other online resources

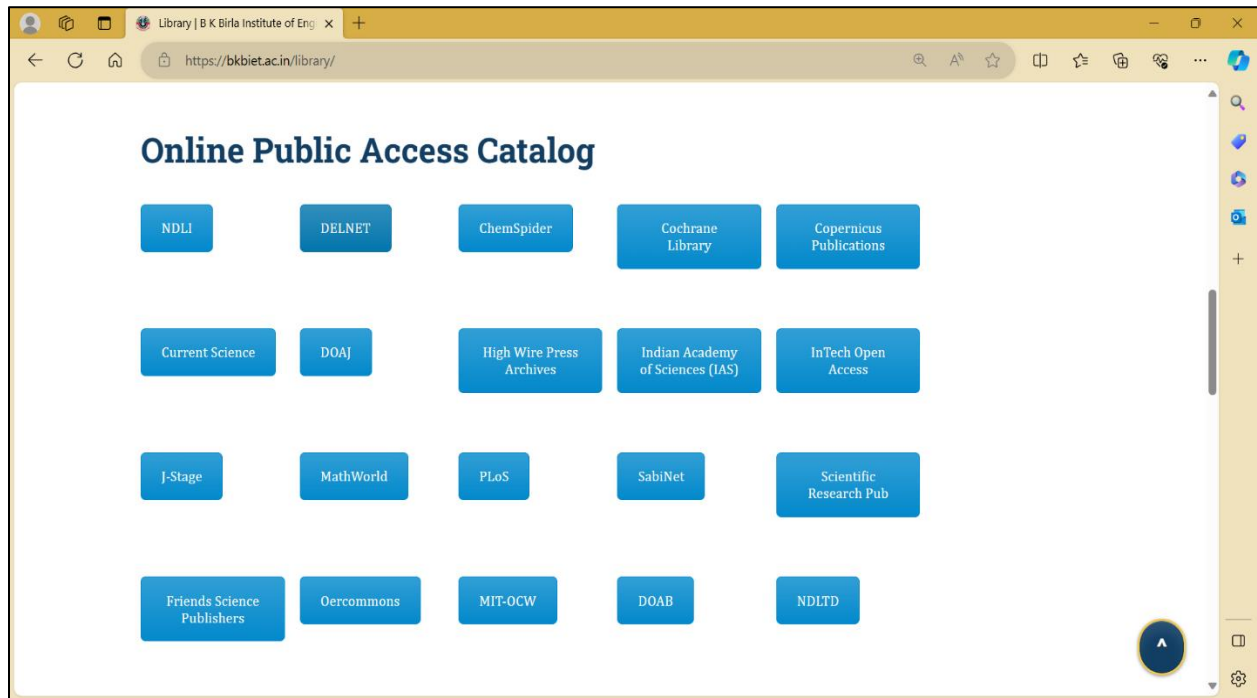


NPTEL GATE Portal link on BKBIET website

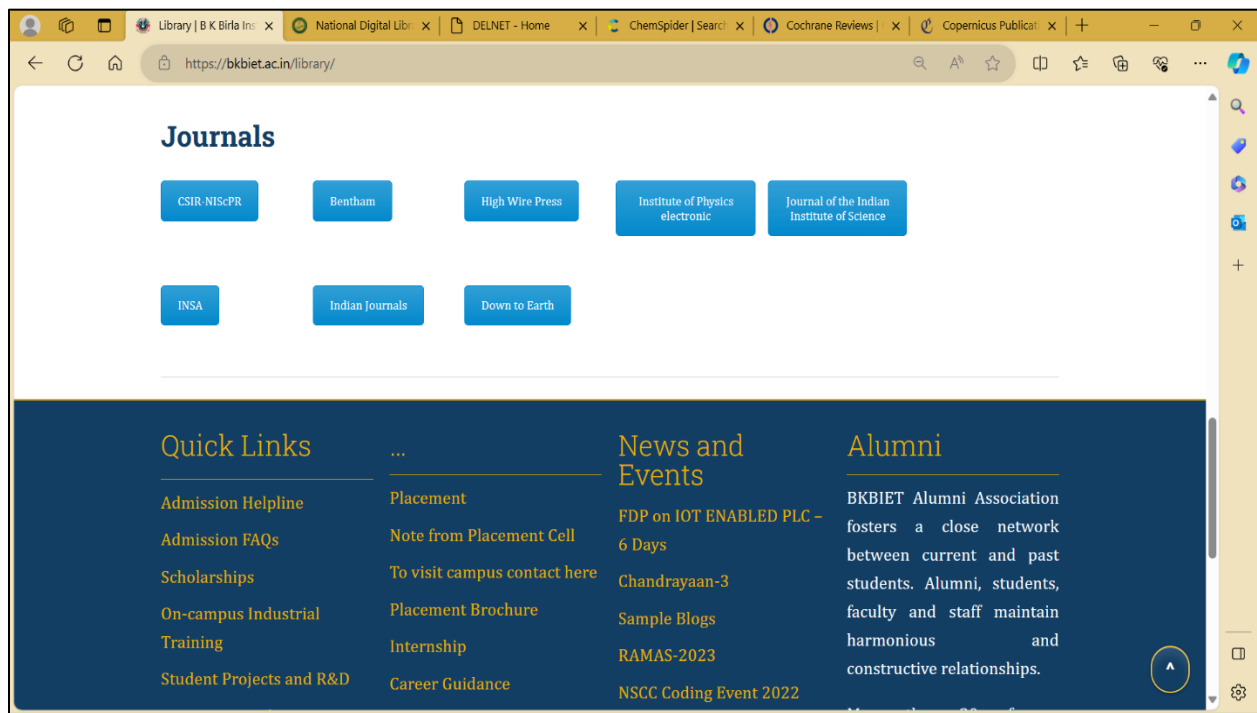


3. Library:

A. Online links on BKBIET Website for Public access Catalogue for Students & Faculty



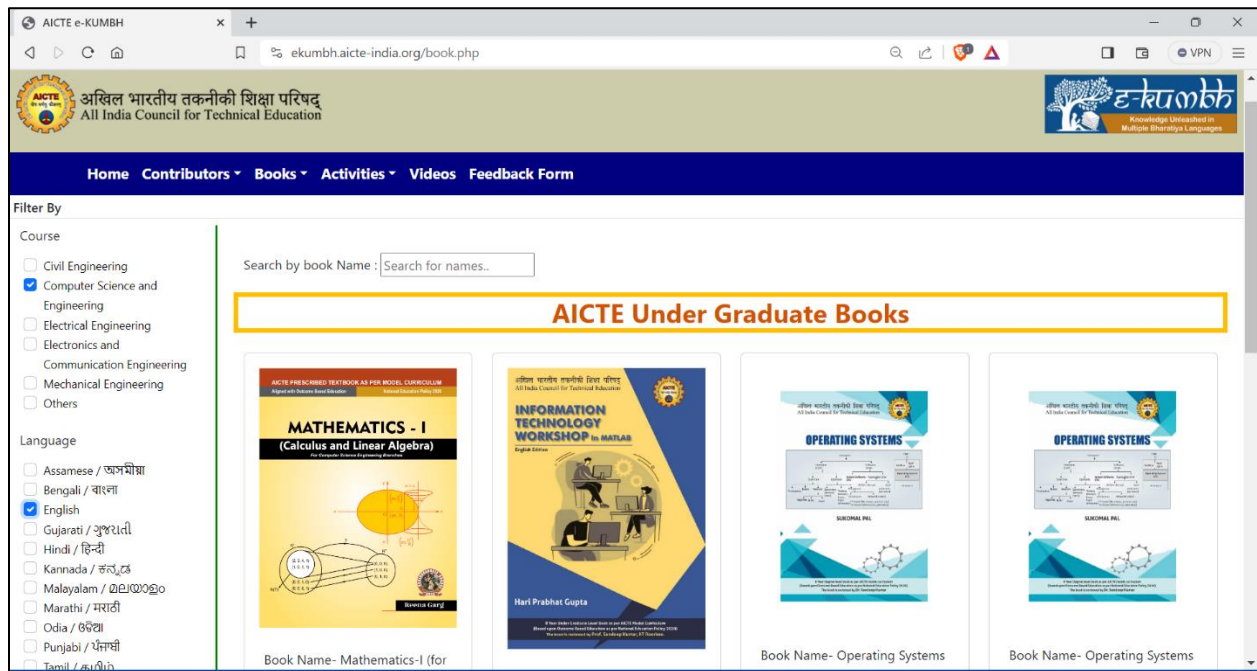
B. Online links on BKBIET Website for Online journals for Students & Faculty



4. AICTE e-KUMBH

All India Council for Technical Education (AICTE) has initiated Technical Book writing scheme initially in 09 languages viz Hindi, Tamil, Gujarati, Kannada, Marathi, Bengali, Telugu, Punjabi, Odia. Subsequently, 03 more languages Assamese, Malayalam & Urdu are added in it. AICTE provides quality text books to the various stakeholders. For the second-year total 88 courses, 42 at the Degree and 46 at Diploma level have been identified across five major disciplines viz Computer Science & Engineering, Electrical Engineering, Mechanical Engineering, Electronics & Communication Engineering & Civil Engineering, for the purpose of original book writing in English and its subsequent translation in the 12 Indian Languages.

From this portal students can download eBooks in multiple languages:



The screenshot shows the AICTE e-KUMBH website interface. At the top, there is a navigation bar with links for Home, Contributors, Books, Activities, Videos, and Feedback Form. Below this is a search bar labeled "Search by book Name" with a placeholder "Search for names..". To the left, there is a "Filter By" section with two categories: "Course" and "Language". Under "Course", several options are listed with checkboxes, including "Computer Science and Engineering" which is selected. Under "Language", "English" is selected. The main content area displays a grid of book covers under the heading "AICTE Under Graduate Books". The first book shown is "MATHEMATICS - I (Calculus and Linear Algebra)" by Ravindra Garg. The second book is "INFORMATION TECHNOLOGY WORKSHOP in MATLAB" by Hari Prabhut Gupta. The third and fourth books are "OPERATING SYSTEMS" by SURJAN PAL. The website also features the AICTE logo and the e-KUMBH logo at the top.

The unique features of the AICTE books based upon model curriculum are:

1. Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
2. In the beginning of each unit learning outcomes are listed to make the student understand what is expected of him/ her after completing that unit.
3. Book provides lots of recent information, interesting facts, QR Code for E-resources. QR Code for use of ICT, projects, group discussion etc.
4. Student and teacher centric subject material included in book in balanced and chronological manner.
5. Figures, tables, and software screen shots are inserted to improve clarity of the topics.

With the above initiatives the major objective of the AICTE is to provide outcome based Technical Education Books in different Indian Languages to the students and faculty members across all technical institutions in India.

5. Workshops, Seminars & Expert Lectures

Delivery details of the content beyond syllabus for the attainment of POs and PSOs

Session 2022-23

S.No.	Gap	Action taken	Date-Month-Year	Resource Person with designation	% of Students	Relevance to POs, PSOs
1	Trends in CS and IT	Workshop on AI and ML	16-1-2023	Dr. Nimish Kumar, HOD	50	PO1, PO2, PO3, PO5, PSO1, PSO2
2	Creative Skills	Coding competition	07-2-2023	Dr. Nimish Kumar, HOD	60	PO1, PO2, PO3, PO4, PO5, PSO1
3	Creative skills	Seminar on Artificial Intelligence	21-2-2023	Dr. Nimish Kumar, HOD	30	PO1, PO2, PO3, PO5
4	Startups	Webinar on Startups and Business Strategies	23-06-2023	E-Cell, BKBIET	70	PO11, PO6, PO8, PO10
5	Industry exposers	Seminar on Creating an Ecosystem in Educational Institutions	16-03-2023	Mr. Reetesh Gautam, Placement Coordinator	20	PO6, PO10
6	Recent trends	International conference on Recent Advancements in Mathematical and Allied Sciences	25-03-2023	Dr. Vipin Kumar, Associate Professor	10	PO1, PO6
7	Technical skills	Workshop on Python programming	01-04-2023	Dr. Nimish Kumar, HOD	50	PO1, PO2, PO3, PO4, PO5, PSO1, PSO3
8	Technical skills	Web development workshop	02-04-2023	Dr. Nimish Kumar, HOD	70	PO1, PO2, PO3, PO4, PO5, PSO1, PSO3
9	Technical skills	Hackathon -2023	04-04-2023	Dr. Nimish Kumar, HOD	50	PO2, PO3, PO4
10	Technical skills	GitHub and open-source workshops	13-04-2023	Dr. Nimish Kumar, HOD	40	PO2, PO3, PO4, PSO1
11	Technical skills	Organized 3 day flutter development	16-04-2023	Dr. Nimish Kumar, HOD	10	PO1, PO2, PO3, PO4
12	Creative skills	Newton School coding club organized 2.5	01-09-2022	Mr. Vipin Saraogi, Assistant Professor	20	PO1, PO2, PO3, PO4

		hours coding competition.				
13	Creative skills	6 Days Workshop on Skill Development Program (SDP)	02-09-2022	Dr. Santosh Jangir, HOD	10	PO1, PO2, PO3, PO4, PO5, PO8, PO10
14	Creative skills	Coding Contest - Newton School coding Club	28-09-2022	Mr. Vipin Saraogi, Assistant Professor	20	PO1, PO2, PO3, PO4
15	Creative skills	2-day workshop Introduced to the interface of Figma.	01-12-2023	Dr. Nimish Kumar, HOD	30	PO1, PO2, PO3, PO4, PO5, PSO1

Session 2021-22

S.No.	Gap	Action Taken	Date-Month-Year	Resource Person with designation	% of students	Relevance to POs, PSOs
1	Higher Studies	GATE Orientation Program	31-07-2021	Dr. Nimish Kumar	70	PO1, PO2, PO4
2	Trends in CS and IT	Technical festival Vibes-21 organized	23-10-2021	CS & IT student coordinators	100	PO1-PO12, PSO1, PSO2, PSO3
3	Technical skill	Technical event "Android Study Jams" organized	04-12-2021	Mr. Shekhar Agarwal	40	PO1, PO2, PO3, PSO1
4	Creative Skills	Coding class and Code-a-thon organized at BKBIET	06-12-2021	Dr. Nimish Kumar, HOD Mr. Himanshu Verma, Assistant Professor	50	PO1, PO2, PO3, PO4, PO5, PSO1
5	Creative skills	Three day workshop on "Internet of Things"	08-12-2021	Ms. Molishka Tanwar	30	PO1, PO2, PO3, PO5, PSO1, PSO2
6 7	Interdisciplinary technology	Talk on 'VLSI'	02-05-2022	Mr. Rahul Agarwal, Senior Design Engineer, Intel Corp.	10	PO1, PO2, PO3, PO5
8	Web based technologies	One Day Workshop on "GitHub and Web"	04-05-2022	Mr. Sameer Saini & Aniket Kumar Sinha, Coordinator GDSC	65	PO1, PO2, PO3, PSO3
9	Industry exposers	International Industry-Academia Meet	07-05-2022	CS/IT dept.	90	PO5, PO6
10	Machine	One Day Workshop	14-05-	Mayank Jaiswal, Ira	60	PO1, PO2,

	learning	on Machine learning	2022	Goyal, Ishan Agarwal, Coordinator GDSC		PO3, PO5, PO8, PSO2
11	Recent trends	Online International Conference on RACME	30-05- 2022	Dr. AK Malik, Associate Professor	10	PO1-PO12
12	Social awareness and ethics	One Day Online Webinar on "Awareness on drug addiction among youth"	17-12- 2021	Mr. Kaushal Kishore, Minister of State Housing & Urban, GOI	20	PO6, PO8
13	Social awareness and ethics	International Mother Language Day	22-02- 2022	NSS	10	PO6
14	Social awareness and ethics	MUN at BKBIET	23-04- 2022	MUN	5	PO6
15	Stress Management	Webinar on Diluting Stress for Quality Life	02-08- 2021	Dr. Disha Meel, IETE	10	PO6, PO12
16	Social Activity	Free Dental Camp at BKBIET	25-11- 2021	BKBIET	10	PO6
17	Social Outreach Activities	Tree Plantation	27-11- 2021	NSS & NCC units	100	PO6
18	Social awareness and ethics	7 day yoga camp	25-05- 2022	NSS	20	PO6

Session 2020-21

S.No.	Gap	Actiontaken	Date- Month- Year	Resource Personwith designation	% of students	Relevance toPOs, PSOs
1	Virtual Laboratories	Virtual lab started in BKBIET	10-07- 2020	Dr. Santosh Jangir, Associate Professor	50	PO1, PO3, PO5
2	Higher studies in abroad	Virtual Talk on Masters Opportunities in France	01-09- 2020	Dr. Sonam Mittal & Mr. Gaurav Sahu, BIRD coordinator	60	PO6, PO7
3	Ethical Hacking and Cyber	Online Webinar on "Cyber Physical Systems	05-09- 2020	Dr. Krishna Meel, IETE coordinator	45	PO1, PO2, PO6, PO8
4	Application development	Five-day online workshop on Machine Learning	12-12- 2020	Dr. Nimish Kumar, HOD, CS/IT	50	PO1, PO2, PO3, PO10, PSO2

		with Python				
5	Soft Skill development	One day talk on communication through advertising	25-12-2020	Dr. Sangeeta Sharma, Professor, BITS-Pilani	70	PO8, PO9, PO10
6	Inspiration for innovation	Three-day webinar on Virtual Talk Series on Inspire to Innovate for Futuristic Engineering	28-12-2020	Dr. AK Kathaniya, Professor, Jamia Islamia Univ.	45	PO12
7	Creative skills	5 days Workshop on IOT	19-01-2021	Dr. Nimish Kumar, HOD-CS/IT and Mr. Himanshu Verma, Assistant Professor	45	PO1, PO2, PO3, PO5, PSO
8	Industrial exposure	Industrial Expert Lecture on Innovative Engineering Application	5-02-2021	Dr. Ajay Agarwal, Senior Scientist, CEERI-Pilani	70	PO1, PO4, PO5, P12
9	Recent trends	Online International Conference(RACME)	19-03-2021	Dr. AK Malik, Associate Professor	20	PO1-PO12
10	Interdisciplinary technology	One day seminar on VLSI	30-03-2021	Mr. Ranveer Singh, HR, Truchip Indian Pvt. Ltd.	10	PO1, PO2, PO3, PO5, PSO1
11	Cyber Security	Webinar organized on "Cyber Security: Ensuring Secure Digital Transactions"	18-06-2021	Dr. Anil Saini, Scientist CEERI-Pilani and Dr. Ajay Agarwal, Senior Scientist, CEERI-Pilani	50	PO1, PO2, PO6, PO8
12	Software Development	4 days Valorant Game Program	9-02-2021	Dr. Nimish Kumar, HOD, CS/IT	30	PO3, PO4, PO5, PO9
13	Social awareness and ethics	Independence Day celebration	15-08-2020	BKBIET	80	PO6
14	Social Outreach Activities	Environmental protection activity program	09-01-2021	Mr. Himanshu Verma, IEI	50	PO6
15	Social awareness program	Youth Week Celebration	13-01-2021	Mr. Anil Datika, NCC coordinator	60	PO6, PO8
16	Social Outreach Activities	Tree Plantation	9-08-2020	NSS & NCC units	100	PO6
17	Social awareness and ethics	On "Eco Literature and Epidemics" Online One Day	13-04-2021	Dr. AK Malik, Associate Professor	40	PO6, PO12

		International Webinar			
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6. Online Certification Courses:

Online Certification courses done by CSE students in **Session 2022-23**

S. No	Univ. Roll No.	Student Name	Course Name	Course Certificate Link
1	18EBKCS006	Abhishek Sharma	MySQL Basics	https://drive.google.com/open?id=1N2fSJ_mDh53WkNYHeMXs_11sXydvvy09o
2	18EBKCS063	Manthan Jitawat	Learning of Phytion	https://drive.google.com/open?id=15vs4B_JXs7-P_uqQIYPxLFJgiu8qZI5t
3	19EBKCS004	Abhinav	Salesforce Developer	https://drive.google.com/open?id=1AOfmEnw4D9-Xx_gfpTe7dfBVVWJp0-1o
4	19EBKCS005	Abhinav Bhankharia	Kaggle Python	https://drive.google.com/open?id=1H697RXNLX1s8aR_NmCQ4O6CtMzKgrB7t
5	19EBKCS006	Abhishek Pandey	HUMAN VALUES SYSTEM	https://drive.google.com/open?id=141XtxVoTvKflthBOSEoto3IWDdUx1m43
6	19EBKCS006	Abhishek Pandey	ANDROID APP DEVELOPMENT	https://drive.google.com/open?id=1gpnWraEjZtbAvVCeHI5a9biTjPgBq6jC
7	19EBKCS010	Adarsh Sharma	Core java and dsa	https://drive.google.com/open?id=1LtDHLhpCB2zfoW1tLRdT4W7R90n2eL4q
8	19EBKCS011	Aditya Pratap Singh	Kaggle Python	https://drive.google.com/open?id=1aoVrR-HUUBihW71eVTJFLPt2UIGqqo1N
9	19EBKCS018	Aniket Kumar Sinha	PL 900 - Microsoft Power Platform Fundamentals	https://drive.google.com/open?id=1cXtmXGEjwi_-arJnucXWh-tbo2sCBSyd
10	19EBKCS022	Anuket Kumar	Android Development Internship	https://drive.google.com/open?id=11OzI3dg6C0i0P-AE1JE1OgPrZfbxfpkz
11	19EBKCS023	Aryan Bhargaw	Java DSA	https://drive.google.com/open?id=1FoVtBi072ieGhanr0a_6b5TBnHvyKWW9
12	19EBKCS029	Bangarwa Priyanka Krishan	Software Developer Engineer Intern	https://drive.google.com/open?id=1rH8x87WPvsFYk0E5ewCjNsGlls_rYk17
13	19EBKCS033	Darshan Pawar	Android Application Development	https://drive.google.com/open?id=1CxU1CXs7pwRvojf5X1u7cQ9w8hlqmf8U
14	19EBKCS037	Divyanshu Kumar Pandey	Internship	https://drive.google.com/open?id=1eMfcBiGE7aYM8mAwtbGMagGWhOpOdu32
15	19EBKCS038	Durga Shekhawat	Face Detection with openCV in python	https://drive.google.com/open?id=1iaLcwpapiigYOI231vEvq8JWGSruMns2
16	19EBKCS039	Fardeen	Bootcamp in c, cpp, DSA and IoT	https://drive.google.com/open?id=12PR2Q6TYW2CpJFb_gaNqOvWSJIdgIk5q
17	19EBKCS043	Govind Saini	Ultimate Ethical Hacking and Penetration Testing	https://drive.google.com/open?id=1Ge8WBVnP0fSSBvaqr_SVZScwtVJEZxhR

18	19EBKCS044	Harsh Choudhary	Internship: Recobee	https://drive.google.com/open?id=1uZdVTGfWU2yiSV_ZLiEHikJpqkZSLO19
19	19EBKCS051	Jayshree Dadheech	Databricks Accredited Platform Administrator	https://drive.google.com/open?id=1iBD3Pqqm5sIkLPAAEIXP-mbVDUivsva6
20	19EBKCS053	Kaddafee Khokar	ISC ² - Certified in Cybersecurity	https://drive.google.com/open?id=13_L9aJDD7AILn2YaYttfEwBBOa2H0Bec
21	19EBKCS054	Kalyan Krishna Reddy M	Java	https://drive.google.com/open?id=1spR2pK0I pRoT74xQJFg6MIPWFUbT4zLx
22	19EBKCS055	Karishma Verma	Artificial Design in Web Design + Live Class	https://drive.google.com/open?id=16qirCQm_8Pe3cAFBa_MZzp9yCnCsJ21J
23	19EBKCS058	Kritika Devli	Apple macOS and iOS system administration	https://drive.google.com/open?id=1PCkRAI7QoooYtOSJRHfj_uFWBGYxqRRK
24	19EBKCS061	Mahipal Singh Rawat	Javascript, Bootstrap and PHP	https://drive.google.com/open?id=1MKotLMcsc-czB0bEAzNJLDBNQUkX_uhR
25	19EBKCS064	Mehak Srivastava	Linux commands line bootcamp	https://drive.google.com/open?id=1TTaEWvslC5WkDALZ-1Igx-NhqH7IzJpN
26	19EBKCS065	Mehant Kumar	Python Programming	https://drive.google.com/open?id=1lMokxnn422TGmRkC6_H9WTnjP_y3vn37
27	19EBKCS076	Palak Gupta	IT System administration at Secure meters	https://drive.google.com/open?id=1lfm5M92xwpquAqefqyIn4ETVCMXvhONR
28	19EBKCS079	Payal Gopalka	The complete Python programming course from Udemy	https://drive.google.com/open?id=1vyFboxYXWOrvS0nZxfI9Ors0kvsTLYO4
29	19EBKCS081	Pinki Kumari	Data Structure in C++	https://drive.google.com/open?id=148ipELXVyDfBdKm6rZbzImnuB78FsZAa
30	19EBKCS082	Piyush Latta	The complete Python programming course from Udemy	https://drive.google.com/open?id=1rquetvP8srB9LC5OY84jpVC6ppS4rPmX9
31	19EBKCS086	Preeti	Data Structures in JAVA	https://drive.google.com/open?id=1HcX6VXgQMo5hLS3sq3NsgjzvBzU1Vfu4
32	19EBKCS091	Rahul Saini	REACT DEVELOPER	https://drive.google.com/open?id=1RKNCTE0wl3kicBenYOrZ7AHU8X0kL8kC
33	19EBKCS092	Rahul Singh Gopalka	MICROSOFT SQL SERVER FOR BEGINNERS	https://drive.google.com/open?id=1GIrO_mWunu7U4wkuBb-050j_s6MqV1E
34	19EBKCS094	Ravi	Core Java Training	https://drive.google.com/open?id=1x1MWcn9OO0FKOIMhjpwmuRZdg3rwbQej
35	19EBKCS104	Shubham Sharma	HTML	https://drive.google.com/open?id=1fodcjSj9av7En5qOlbvQOABrPEzGNa7J
36	19EBKCS105	Shubham Singh	Java certification course	https://drive.google.com/open?id=1GCvZX11QjC1GRpDnmQX0ksl7kxP_c1lK

37	19EBKCS110	Tanmay Molasaria	Core Java and DSA	https://drive.google.com/open?id=1LLzGq00bUITOXm18B8b8ikbXne7kaIrF
38	19EBKCS117	Varun Bhutada	Linux power user	https://drive.google.com/open?id=1pw8XhwmAxU_W30qhLdrPndvJ3ITgzyWF
39	19EBKCS124	Vivek Lohiya	PostgreSQL database and ASP.NET core	https://drive.google.com/open?id=1aZqVbvFRmuG_Ns-MJNjeEEECBbYqHmT1
40	20EBKCS001	Aayush Sharma	C++ Tutorial	https://drive.google.com/open?id=1AfWW5IxjYgAcmiAjL6jc6UctwGQrwCKG
41	20EBKCS004	Aditya Agarwal	React - The Complete Guide (incl Hooks, React Router, Redux)	https://drive.google.com/open?id=19ky4wjhgjYWWFDu7THkmcXXsM_eE8to
42	20EBKCS006	Amit Kumar	The Full Stack Web Development Bootcamp 2023 - MERN STACK	https://drive.google.com/open?id=1NzRkLgpl2LWjOaXvIOM_iX6l3zib-QY
43	20EBKCS007	Amit Singh Mokawat	The Complete Android Ethical Hacking Practical Course	https://drive.google.com/open?id=1xJonZZb6pin_m48nrDAD5NXMvpgTDKW2
44	20EBKCS008	Amitoj Singh	Python for beginners	https://drive.google.com/open?id=1dJB98F2-m5k4nQXohUCI5q8Z35JYWXuf
45	20EBKCS010	Anish Kumar Srivastav	Android App Development	https://drive.google.com/open?id=1wQn3MHV4sDxKzywRvJIDcznd6H1WY0LX
46	20EBKCS012	Anjali Swami	C++:learn the essentials	https://drive.google.com/open?id=1R_pZuktp2_Og-jrLFGzDcCR0Iw2nPbF
47	20EBKCS013	Ankit	web development intern at TwiLearn Edutech Pvt.Ltd	https://drive.google.com/open?id=1cXLTxMGCYVp9NHLIPFdkvP5lxgtpXO_y
48	20EBKCS014	Ankit	Java Data Structures & Algorithms + LEETCODE Exercises	https://drive.google.com/open?id=1AO-c4LanYMX0bxf4q5o6D2Z6J2V7FaiU
49	20EBKCS017	Ankit Singhal	ADVANCE SOFTWARE ENGINEERING	https://drive.google.com/open?id=1uQNU7zDiMBX0ZMJ-UD-6ivmbwNPdVerU
50	20EBKCS019	Ankur Thakur	Iotcon workshop	https://drive.google.com/open?id=1T5Gut4DXkCUYIHjV5Ovg-ySqpl64gPBH
51	20EBKCS021	Anuradha	Learn python programming beginner to master	https://drive.google.com/open?id=1-GQ_7ESLQU8GR9CC8YQrIIUyBEFeDNEG
52	20EBKCS022	Arhaan Khan	Foundations: Data, Data Everywhere	https://drive.google.com/open?id=1OUtPPJinf7tPF8wJoCxFX_vHPZy6ZD2D
53	20EBKCS024	Aryan Tomar	DBMS	https://drive.google.com/open?id=1vTP45jQfAwRKjD3W3CwZXd_R8gEjivWk

54	20EBKCS026	Ayush Sharma	Ethical Hacking Essential	https://drive.google.com/open?id=1qMRhrVTiuUURUyI8Ebl9ChNiYB7kKAwD
55	20EBKCS031	Davesh Kataria	Web development bootcamp	https://drive.google.com/open?id=1u4ILRQ92r7OK0Ci5QMEA4-y_Yu1EgYor
56	20EBKCS032	Deepak Panwar	Excel Essential Training (Microsoft 365)	https://drive.google.com/open?id=1pXZDZhTKaVDjoy1-Vv5uaEiIRABKmj1W
57	20EBKCS033	Deepak Verma	Foundation of User Experience	https://drive.google.com/open?id=1CmM86yt1CluwExQvxGckCEG--fSsWe4t
58	20EBKCS039	Divyam Thapliyal	The Complete Javascript Course	https://drive.google.com/open?id=1Peefhv5yoAA1fVHpeEc8X32tGxh-Y6528
59	20EBKCS041	Gaurav Mandiwal	Data science 101	https://drive.google.com/open?id=12Le3-kMOTJYUQQMnbTYwAn44KvCO6Ft
60	20EBKCS042	Gourav Singh	React - The Complete Guide (incl Hooks, React Router, Redux)	https://drive.google.com/open?id=1_nle_GA6x0RIOK5kmAqVTj2P6Ka-PpAR
61	20EBKCS045	Harsh Sharma	Introduction to Cybersecurity	https://drive.google.com/open?id=1j9p-iCNMQrGKAlcbE7rQi155AWtMVo8i
62	20EBKCS048	Harshita Sharma	Web development training	https://drive.google.com/open?id=1LYAvTJWFPM1XJjNG1iWG-xZt7LakPh6R
63	20EBKCS051	Ishaan Sharma	Machine learning	https://drive.google.com/open?id=1ELOoYW9vypFkv64MsWF8-m8SNO3_tArA
64	20EBKCS053	Jatin Rathore	The MERN Stack	https://drive.google.com/open?id=1kAAv-xdn_6EstVpB41xNdvwa7JA196bc
65	20EBKCS054	Karan Kumar	Mobile Development	https://drive.google.com/open?id=1DspWjSmYEwyc3jy1BastxqrDUAzOsWcv
66	20EBKCS060	Lamba Lakshya Rajpal	iOS & Swift - The Complete iOS App Development Bootcamp	https://drive.google.com/open?id=1hEcM1KIb2U0nnslun5njcbySSHgiZViv
67	20EBKCS063	Manish Kumar Saini	Android Application Development	https://drive.google.com/open?id=1g740S4_Rw6Qu_xyW6nqW4Ldzl-WXYPfe
68	20EBKCS065	Manjeet Agarwal	Python for machine Learning	https://drive.google.com/open?id=1Hx7uj6TZjYJl_A8TKaEYXdo8AOT5CM_1
69	20EBKCS066	Manmohan Singh Shekhawat	Data Structures in C++	https://drive.google.com/open?id=18ogT-AZiN0Kw_IQ-3u7zvCN2HbBv_mP3
70	20EBKCS066	Manmohan Singh Shekhawat	Android app development course	https://drive.google.com/open?id=1GjQMhsgFP6mfmtVp87nSF14NGCzB0TTW
71	20EBKCS067	Manthan Saini	Data Structures in C	https://drive.google.com/open?id=1Hm-psC3Uj_JOUmJpCKaPt0e1SI78Ba4C
72	20EBKCS068	Manvi	Front end developer	https://drive.google.com/open?id=14_OKcachxIJTCv2G_s8Zqi8z4jwIxBuc
73	20EBKCS072	Mohit Maini	3-D Game Development Unity C#	https://drive.google.com/open?id=1wCVtXho2eDgw18LSb9dx2EnStPHP585v
74	20EBKCS074	Naivedhya Singh	Advanced Cyber Security Threats and Governance	https://drive.google.com/open?id=1jB615eP58sgCe14J4Sy3UE7eK9vJS1LP

75	20EBKCS075	Naman Gupta	Complete JAVASCRIPT with HTML5,CSS3 from zero to Expert-2023	https://drive.google.com/open?id=1lzIt7j80vOQCneza-X3QmX2FQqkDbwLf
76	20EBKCS076	Navartna Jangir	Web Development	https://drive.google.com/open?id=1Y9HR7hwORYAJTugqY2wo8OP7EAYXNsDd
77	20EBKCS079	Nisha Jangir	Java Programming	https://drive.google.com/open?id=1sP-NsXY3SbmSjyY-iL3uEgo2QLNENOKa
78	20EBKCS080	Piyush Nirwan	BASICS OF JAVA	https://drive.google.com/open?id=1kk0NvcjoHmfkpwDG3_e71ub5bztSdyr
79	20EBKCS082	Pooja Kumari	Web development	https://drive.google.com/open?id=1414NIUBDuT6Lr_bOzI2CN8YrBmqeQGQ0
80	20EBKCS084	Pooja Soni	Accenture Data Analytics & Visualization Job Simulation	https://drive.google.com/open?id=12IWDu6EXLhR5sTbIcf_KGpgv9gDwzjTV
81	20EBKCS084	Pooja Soni	Web Development Training	https://drive.google.com/open?id=1LjyGrOgbkayNwt4CYo_sImUbXbVdE-Ny
82	20EBKCS087	Prashant	Android App Development	https://drive.google.com/open?id=1uNsVZu_Dk8pgvXh_JowuFY00aYQ-t-gE
83	20EBKCS090	Preeti Saini	Android app development	https://drive.google.com/open?id=19aVWk4BDjFNFIZxfK6jL4JeUEsOyIHJY
84	20EBKCS096	Rajat Purohit	React developer course	https://drive.google.com/open?id=1j_NqMZ8Z88_feXQdo5jOKr2wgJfZE2MK
85	20EBKCS100	Ritika Kumawat	DATA STRUCTURES AND ALGORITHMS	https://drive.google.com/open?id=1ub91xYwsrpuv5RUj2zy6MGGHLBRf6wMv
86	20EBKCS101	Ritu Choudhary	HOW TO CREATE AN ANIMATED PROMO VIDEO IN POWERPOINT	https://drive.google.com/open?id=17tsQoZ2Zw4EP1fS6HTVM7cZYA-uPdKHJ
87	20EBKCS102	Robin Maan	Java Programming	https://drive.google.com/open?id=1P5X7vvGdswYQeED1F0_NzkEKfVcDXobz
88	20EBKCS105	Samarth Goyal	Data Analytics	https://drive.google.com/open?id=1fp-JFzcUXdDa20LO65MtmwXzGWRto-wd
89	20EBKCS106	Sankalp Haritash	Database with python	https://drive.google.com/open?id=1QyKWZD9iJY7K31HmqFjCkMbyTCphxseA
90	20EBKCS107	Sankalp Jain	Software engineering by Goldman Sachs	https://drive.google.com/open?id=1OgN6wEdUQVljd01SGI90Rk5LNqZBy7zW
91	20EBKCS108	Sankalp Rawat	Javascript	https://drive.google.com/open?id=1_b_DxGjoJYhE2PE87oYPqGa4H-QApxOO
92	20EBKCS110	Shalini Rathore	Web development	https://drive.google.com/open?id=1j4GhzteuoFZENbGT_mXLjlzuBpxQ75KZ

93	20EBKCS112	Shristi Agarwal	Portfolio Website using HTML and CSS	https://drive.google.com/open?id=1hkKW_jpmlvXgft1HN_kbl9b6DWCzoNll
94	20EBKCS112	Shristi Agarwal	DATA STRUCTURES AND ALGORITHM	https://drive.google.com/open?id=1LaKQzotMeIWNPV-F13L6CXNmivXTQMo2
95	20EBKCS113	Shruti Agarwal	Cloning Facebook using HTML & CSS	https://drive.google.com/open?id=1iM1iDoQPvbZn6gtQpbMXmlvPxo_fp_u
96	20EBKCS114	Singh Bhupander	Ultimate Adobe Photoshop CC MasterClass	https://drive.google.com/open?id=1YGwY25nwWxAFL8Z5rH3QnaQMIOBi_Mhv
97	20EBKCS118	Sunil Kumar	The Ultimate MySQL Bootcamp: Go from SQL Beginner to Expert	https://drive.google.com/open?id=1YMUwU8447EwnJTY8ip87gq05a6UPPk4O
98	20EBKCS123	Utkarsh	Cyber Security Internship with E-Cell IIT Hyderabad	https://drive.google.com/open?id=1rAfGd8Ek248BEz_nRPVhOeedDczddpmP
99	20EBKCS125	Vikram Kumar	SQL Bootcamp Beginner to Advance	https://drive.google.com/open?id=14nFaecKql3DcW0tVOdRBUryeXcpRLOp5
100	20EBKCS126	Vinay Pratap Singh Rathore	Data science and machine learning	https://drive.google.com/open?id=1tzN9kl-tA2w68il2QqAnVTVdlA7Qw1Y6
101	20EBKCS127	Vishal Jha	Data Visualization	https://drive.google.com/open?id=1HxuyKY99jDXqLrseMYrI12nUYWpRLQCaA
102	20EBKCS130	Yogesh Jangir	Java Programming Masterclass	https://drive.google.com/open?id=1-vsH-4hhTRMYMBbRA8nllRnDwDGUU3o
103	20EBKCS203	Anurag Somani	Core Java	https://drive.google.com/open?id=1PmhSXXmpN4VIQ9NdENjWZlffB-HGkON4
104	20EBKCS204	Ashish Sharma	NodeJs	https://drive.google.com/open?id=18Iy5YatihSPEVw9G8hfg2QO_5aXIDUGo
105	20EBKCS207	Moh Tabir	Web development	https://drive.google.com/open?id=1btb-prmAED0BXQULbunQA6c3HavW5hL4
106	20EBKCS208	Nitin Sharma	Web Development Boot Camp by Udemy	https://drive.google.com/open?id=1i4IDreeLHgbKRh2YLEBFoy7aPeXBEqRA
107	20EBKCS212	Shubham Sharma	Web development	https://drive.google.com/open?id=1W7eqrvRJKiploi4wVmKQwvjpFzskGIWg
108	20EBKCS300	Saurav Gariya	JavaScript	https://drive.google.com/open?id=1gUzWBFS C7Rw0weI8OLgU5xUgp23jvSPw
109	21EBKCS006	Aditya Sharma	Introduction to Programming in C - NPTEL	https://drive.google.com/open?id=1Pd3Rxrh0P17kJXW1T-1vESXnPOM5OdbH
110	21EBKCS015	Ankit Sheoran	DSA IN JAVA	https://drive.google.com/open?id=1pOO4ifD9t5rAquXv0a_0WxhPzQBPV9AG
111	21EBKCS017	Anuj Kumar	Web Development	https://drive.google.com/open?id=1fLMY7VZM8XZnsMeR4nM1egMg5IJFpfXv

112	21EBKCS021	Bhavuk Gaur	Java collection Framework+ Generics, API	https://drive.google.com/open?id=1njjcO9AVj0VY4m8wpl9y1v2Wjpp-BjQ
113	21EBKCS022	Chahana Singh	Introduction to Graphic design with photoshop	https://drive.google.com/open?id=1s5EjcksL3CTgG4_swTjMfX0sIMEIGjPP
114	21EBKCS024	David Kumar	The complete python bootcamp from zero to hero in python	https://drive.google.com/open?id=1HlmTrGkBNPbV-2frxsHneW9KO5bgejmM
115	21EBKCS037	Geetanshu Shukla	Python Programming	https://drive.google.com/open?id=1FpOO_q8Yoq8SzN5n7pMRN9vmQDLnQ1a_
116	21EBKCS062	Mohit Yadav	C++ tutorial	https://drive.google.com/open?id=1BcLtmTa-0hxpSL96mXSN1Gf1NjRt8oAN
117	21EBKCS065	Mukul Sharma	Machine Learning with Python	https://drive.google.com/open?id=1-aFEoruXktR1wQovJJIdu_C_ey7dCmYz
118	21EBKCS066	Naman Agarwal	Web Development	https://drive.google.com/open?id=18vTNurUYAhAvbr2SNTOG-FjvbLsADcGP
119	21EBKCS069	Nidhi Agarwal	Python for beginners	https://drive.google.com/open?id=1OJMi5cAsizUo76PcAUCGebCH4D5LgRwd
120	21EBKCS071	Nikita Saini	Google analytics for beginners	https://drive.google.com/open?id=1nyE7sUEHa_91baw66RUdZGMGY2NmGfM
121	21EBKCS076	Prabhat Sharma	Adobe Premiere Pro CC 2023: Video Editing for Beginners	https://drive.google.com/open?id=1zYsAZDfQxIKwQjSaWMrf120GL2vjvEqo
122	21EBKCS079	Pulkit Poonia	The Complete 2023 Web Development Bootcamp	https://drive.google.com/open?id=1-eaiJ3wDHHRgeM5aK7x1mgorgPUkvjI
123	21EBKCS084	Rekha	International cyber conflict	https://drive.google.com/open?id=1PHSgrZWun0d4JyDMAcOusb1eXG5JZKjc
124	21EBKCS085	Ritika Kirodiwal	UI/UX Design	https://drive.google.com/open?id=199qEFl_sAXGPPGIu5KIURtGaxaAX1ghc
125	21EBKCS086	Riya Jangid	Oasis infobyte internship	https://drive.google.com/open?id=1mM42NZOzxEHM6fJe5M8YPynDe3nIILU
126	21EBKCS088	Rohit Sharma	C Programming in Hindi	https://drive.google.com/open?id=1wCTuaTr1dKkyopW1DdRh79Ttklh3vm8c
127	21EBKCS091	Sanchay Sharma	Oops in java	https://drive.google.com/open?id=1IL_NMqo-lpD5KKUURCXLZjK542SKdeA2
128	21EBKCS092	Sandeep Sharma	Python Programming	https://drive.google.com/open?id=1TgWlmGZaiyf0O7J5Yksjck5qCPI3rWLI
129	21EBKCS093	Satyarth Prakash Rai	Responsive Web Designing	https://drive.google.com/open?id=1VWcZueqmgAhN-iuJ45o8zM81VxIQqdE
130	21EBKCS095	Shivanka Vajpayee	Program in Cyber Security	https://drive.google.com/open?id=1j0PBa-r9rvzoUYpgRiHUCvIHBEQqsE0T
131	21EBKCS100	Sourabh Sharma	Business Analysis A to Z Masterclass	https://drive.google.com/open?id=161K_hpuHKlxtUKNG_kkOS3mMT9ZJ7Jp0
132	21EBKCS102	Tan Singh	Data Structures in C	https://drive.google.com/open?id=1tBzjdMnkmSepRvKGGKZdLiDidXJ24Ltdv

133	21EBKCS106	Tushar Kumar	The Ultimate MySQL Bootcamp	https://drive.google.com/open?id=1gwPVHFz_xcsHDuhiv8yW01q3uCZLuiPVv
134	21EBKCS109	Vansh Sonaniya	Learn to code with python	https://drive.google.com/open?id=1UmPa3HS_VUf0YERWwDJuC_pkO9b7L3EY1
135	21EBKCS112	Vinita Giriya	Basic Of Java	https://drive.google.com/open?id=1deEON2hs_kFgxV_JWViPRg7AlkB-d85mY
136	21EBKCS113	Vishant Jangir	PYTHON FUNDAMENTALS	https://drive.google.com/open?id=1DfWyw-L9CAme68FOPatfFR11SQXXDzBZ
137	21EBKCS115	Vivek	Web Development	https://drive.google.com/open?id=1Rc84Ape835kV85hHNGH-uEp9kn9CwYEu
138	21EBKCS117	Yash	Java programing	https://drive.google.com/open?id=1UKVtHX_HyMbkIyxBblbK0AHTJCvGp_duO
139	22EBKCS203	Manoj Jat	Learn c++ programming Beginner to advance -Deep Dive in c++	https://drive.google.com/open?id=1VMHcI9q_pvbhbqfpIDxq37X9Y9givyGZXv
140	22EBKCS204	Mohit Kumar Mittal	HTML Tutorial	https://drive.google.com/open?id=1L0CWMH_AEYlnASOABhsjeL-svfngT1ilj
141	22EBKCS205	Naresh Kumar	Python	https://drive.google.com/open?id=1oTSk03J2_5B6GUTHvSN6L2Q-7czBprqPs

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S. No	Univ. Roll No.	Student Name	Course Name	Course Certificate Link
1	18EBKCS063	Manthan Jitawat	Business development associate	https://drive.google.com/open?id=1vUeJb69_WyCBnIVfdJ9c93m8UxUVTaTUA
2	19EBKCS001	Aakash Nirwan	MongoDB with NodeJS	https://drive.google.com/open?id=1CTCCbElR2m-tNh916xrAeEFRKZlvB3bg
3	19EBKCS002	Aakash Payal	UI/UX Designing (Internshala)	https://drive.google.com/open?id=1tb7kH6GK_xxeeX8lp3iYTjTmJodtC5ilZ
4	19EBKCS004	Abhinav	Microsoft Azure - 900 Fundamentals	https://drive.google.com/open?id=1pcWCTSp_QorGWdOQ3W0TZhmq0xaq2Ux1J
5	19EBKCS005	Abhinav Bhankharia	C++ Programming - Beginner to Advance- Deep Dive in C++	https://drive.google.com/open?id=1weK29p--snzSRP7UJNsfeU3DWb6rEq_G
6	19EBKCS006	Abhishek Pandey	AICTE HUMAN VALUES SYSTEM	https://drive.google.com/open?id=1mpnKPjCs_DHO1innAtbHBjyFwgYVZIsW-
7	19EBKCS011	Aditya Pratap Singh	Web Development	https://drive.google.com/open?id=1z_fp34Oz_W-0rlYCqAjHoTLUjzjvbeeii
8	19EBKCS014	Aman Soni	Complete Flutter Development Bootcamp	https://drive.google.com/open?id=1sKhAebkr_hQGEiwM-sLu0PWRc4H9KS1ZL
9	19EBKCS016	Aneesha Shekhawat	Complete Data Analyst Bootcamp 2022	https://drive.google.com/open?id=1XCWrcrl7_WFaliL7Tgd8wJ7q0r_vknmpJ

10	19EBKCS020	Ankit Kumari	NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION	https://drive.google.com/open?id=1HWvSWOmf_s1VB52kp0r5Wmk8yn-LBGEv
11	19EBKCS021	Anshika Gupta	Front End Designing Internship Chowgule Mediconsult Pvt. Ltd	https://drive.google.com/open?id=1zPsgOsLMdUUd-tBM-5nv-cTGfs7NEFxp
12	19EBKCS022	Anuket Kumar	Fundamentals of Cryptography	https://drive.google.com/open?id=17PHsh52Z5vpStTucjZaBrTBvn-8yyXLJ
13	19EBKCS027	Avneesh Singh	Full Stack web Development with React	https://drive.google.com/open?id=1OasYiIlmVRnspgDmaMflQ0QSLWaHJhsW
14	19EBKCS028	Ayush Agarwal	Android Application development	https://drive.google.com/open?id=1a6Dc3YnDG2XMuL2vot0diCHfmuaIwHng
15	19EBKCS030	Bhawani Pareek	c++ programming	https://drive.google.com/open?id=1b6TqICDh9wLrCU_xZ0Q0sXMG44xwJlwy
16	19EBKCS033	Darshan Pawar	Full Stack Mobile Application Development	https://drive.google.com/open?id=17zEiBFhOSAPbQER1aPIYVhrJbtYMR4RI
17	19EBKCS036	Dhruv Sharma	Internship in Vimana	https://drive.google.com/open?id=1N8IzNbj9sSrQHDJEvgeRMXgYJxGoLjra
18	19EBKCS037	Divyanshu Kumar Pandey	Power bi (PL-300)	https://drive.google.com/open?id=1znf62wiEW5_GREmwS7-eejJZ2sMYPRak
19	19EBKCS038	Durga Shekhawat	Front End Development CSS	https://drive.google.com/open?id=1MknWc1cg-2q1MleIT8FXcUNxcIiimicr
20	19EBKCS039	Fardeen	Machine learning training	https://drive.google.com/open?id=10DJjfwsgaDDsj-OrU7bN499LA51YN4A5
21	19EBKCS041	Gaurav Kumar Jangir	Advance JavaScript	https://drive.google.com/open?id=1p4XH9tD6QgxUFZf_8kORfBA1DZjbiI3F
22	19EBKCS043	Govind Saini	DSA self paced	https://drive.google.com/open?id=1sR30C7-4hMExI7xHqsIODfMB8EI35Zvh
23	19EBKCS044	Harsh Choudhary	REACTJS the Complete Guide	https://drive.google.com/open?id=1xV6hSgQ6cl_lrBeOgWPqghfaYTWiR_uM
24	19EBKCS045	Harsh Garg	WEB DEVELOPER INTERN AT NEXTLEARNER	https://drive.google.com/open?id=1QiqHs2ZrrE1StYzZVyAPjEtXpk3Fjja0
25	19EBKCS051	Jayshree Dadheech	Python Foundation - Quick Jump Start For Programmers	https://drive.google.com/open?id=1i0g-t6yBZYxZo9hIHUIERUCuOSgV7ORL
26	19EBKCS053	Kaddafee Khokar	Cyber Security (Internship- by Infovirtech pvt.Ltd)	https://drive.google.com/open?id=1d7vDfN2R1JUV8RR-99L1iSLdycoouZL
27	19EBKCS055	Karishma Verma	Responsive Web Design	https://drive.google.com/open?id=1Qy290wtK7fH6HINLa8EVDQI01YvCUmKt

28	19EBKCS056	Khushi Tulsian	Introduction to R programming for Data science	https://drive.google.com/open?id=1Cjpszb7gv_oOQhQ8x_D-e3HQS7Hw0KJ
29	19EBKCS057	Komal Sharma	Complete Frontend Web Development Course	https://drive.google.com/open?id=1-mNi_-BS9aPrYkmNdgPojzRhKdY9ipz
30	19EBKCS058	Kritika Devli	Introduction to Internet of Things and Embedded Systems	https://drive.google.com/open?id=1odnI77-WUZo6iYoyaTckOqGK-Ppt-YYv
31	19EBKCS059	Kuldeep Saini	RadicalX - Product development internship	https://drive.google.com/open?id=1MnAO3RTWk5gJRpSxUT9kQKuYIU3Su6a6
32	19EBKCS061	Mahipal Singh Rawat	Web development Masterclass	https://drive.google.com/open?id=1aYrvKbU0HsEhXQa4ftkVgv7YZXJIIu_u
33	19EBKCS064	Mehak Srivastava	Careerthon	https://drive.google.com/open?id=1MZA8WygB1tfy4HRamvjYIUX5tLPFV2MY
34	19EBKCS065	Mehant Kumar	Power Bi	https://drive.google.com/open?id=1f142_EIH9yw0Ov5mKHob90cfzr4O6eJk
35	19EBKCS069	Mukul Bhomia	Full stack development	https://drive.google.com/open?id=16w2pRgHcAsxYbhutGK6c8xhpaJyBaI-o
36	19EBKCS076	Palak Gupta	Python for data science and machine learning boot camp	https://drive.google.com/open?id=1tTjvtqQrD5zRx0IeUygOUUNSEsffRPfN
37	19EBKCS077	Pankaj Kumar	Python as a python developer	https://drive.google.com/open?id=1FnRQiprHtdJFFY0VFlb_FYqq9G-538MV
38	19EBKCS079	Payal Gopalka	Data Analysis using Excel from Upgrad	https://drive.google.com/open?id=1ktH3TYgSghIIP47bRmyF9rORmu_XtSb4
39	19EBKCS081	Pinki Kumari	Data Structure and Algorithm	https://drive.google.com/open?id=1B4XCQojXPTjkiN7uGFGhe1yud8TDSvf4
40	19EBKCS083	Pradeep Kumar Saini	Data Science & Analytics UpGrad Campus	https://drive.google.com/open?id=16rH78pDWXEUVG2GsA9CPFAW0qNppVdgG
41	19EBKCS085	Praveen Kumar Janu	Full Stack Development (React)	https://drive.google.com/open?id=1AFmWotve615qj3FPc0HPTjKvZrb_V6Vt
42	19EBKCS086	Preeti	Data Structures & Algorithms	https://drive.google.com/open?id=1Dv9_hN99rhq4I1ZWp5JAptah86UFhULs
43	19EBKCS089	Pulkit Saini	Full stack web development	https://drive.google.com/open?id=1SC7IBWe306vCAJgUneiCuTC1sqscelfx
44	19EBKCS091	Rahul Saini	Basics Of C++	https://drive.google.com/open?id=1SSC-fNRUdaNZsq3fFedRIQYvO7cKwDpJ
45	19EBKCS092	Rahul Singh Gopalka	Complete guide in HTML, CSS AND JAVASCRIPT	https://drive.google.com/open?id=11Nuf4-AbuhEw3qPpZKiS8KB4vLoYV_oW
46	19EBKCS098	Sachin Kumawat	Data Structures and Algorithms Specialization	https://drive.google.com/open?id=1WMm8F3YexcTsbt397kJslyQ_83MSf518

47	19EBKCS100	Sahil Sain	Basic of html css and Java script	https://drive.google.com/open?id=1hXQceAGELL2qZUraoWCiYwSLLY2TfHg
48	19EBKCS104	Shubham Sharma	Data Science with Python	https://drive.google.com/open?id=12U-eDFSAAnVm3-8zx1Pa--8CT2acuxhBP
49	19EBKCS105	Shubham Singh	Core java and dsa course form carrerthon	https://drive.google.com/open?id=10RkA9WMSKAcAcK3Ki0IIdQ9D6vngSe_C
50	19EBKCS108	Siddharth Sharma	data structures and algorithm	https://drive.google.com/open?id=11AhP9q-oGANVK_0E8KQd9NcwNI5hiovX
51	19EBKCS109	Sumit Saurabh Jangir	Blockchain Development	https://drive.google.com/open?id=1j4fe04OKzHpiJspd8GODTP_3wIAdeEe2
52	19EBKCS110	Tanmay Molasaria	Core Java and DSA	https://drive.google.com/open?id=1qB0GcqmLeFgavrKKhqjwkKiY2MrZgp
53	19EBKCS116	Vartika Purohit	Web development	https://drive.google.com/open?id=1UOyKD0lflupv10k112VCnwVvmsrNSCI5
54	19EBKCS117	Varun Bhutada	DSA in C++ by Abdul Bari	https://drive.google.com/open?id=1-wGP_oWKzySXqw1FwFBKYdFd-67GBKVa
55	19EBKCS124	Vivek Lohiya	Data analytics using power BI	https://drive.google.com/open?id=1X7CKdmtQcw73iGurg9Px5bFFVgp1nEq
56	19EBKCS303	Ritika Jangir	Web development	https://drive.google.com/open?id=1aaczoNWq_jznj2FE6WsB4hSXJRKWJM4r
57	19EBKCSO48	Hitesh Kumar	Full Stack Mobile Application Development - Master Class	https://drive.google.com/open?id=18hqlclS3DP5ZBS6nA50Sj7v7Y8NcN_x
58	20EBKCS001	Aayush Sharma	Flutter Workshop	https://drive.google.com/open?id=1M_5vdzQylU0m8H0mxT7BuikPGX5u9Ipm
59	20EBKCS002	Aayushi Bhatnagar	Scientific Computing with Python	https://drive.google.com/open?id=1zM8kKzqrVseIDUiEqflmsctjd9NwMVc
60	20EBKCS004	Aditya Agarwal	Front End Web Development	https://drive.google.com/open?id=1k9Qq_toV4H8baHTKJR4hb8ndAEj4BJ_
61	20EBKCS005	Ajay Swami	Complete C Language	https://drive.google.com/open?id=1VkuGzU3UVL0yt1iS_C2WPx2UNXf225oh
62	20EBKCS006	Amit Kumar	Python with Machine Learning	https://drive.google.com/open?id=140VeH5PEAzVByKsdK8fwRza9zQ4E6tY-
63	20EBKCS007	Amit Singh Mokawat	International industry Academia Meet	https://drive.google.com/open?id=1VqxjR727R07ZWDZ77zMIKGycjMI6Lc4M
64	20EBKCS009	Anirudh	C++	https://drive.google.com/open?id=1HBLKOGNHZ8-8XyQUcDmrVHlcPHjpOiR
65	20EBKCS011	Anjali Sharma	Data Analyst in SQL	https://drive.google.com/open?id=1-GepgaHWpSOOyWb-VkZPkzGBOcgG05DG
66	20EBKCS012	Anjali Swami	Programming with Python	https://drive.google.com/open?id=1jKXzF74hmIC94z6J3L85WWPpf6Ub_XqT
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69	20EBKCS015	Ankit Nehra	Python for Data Science, AI & Development	https://drive.google.com/open?id=1O1aSIXL969Q8E2m6HxmUMWV73s3_FWlg
70	20EBKCS016	Ankit Saini	FOR PARTICIPATING IN DSA MASTERCLASS, A 3 DAY CRASH COURSE ON DSA,	https://drive.google.com/open?id=1v6tx-KQDF7hHI3m366cw4NoBHFd7l83h
71	20EBKCS017	Ankit Singhal	Front-End Development - CSS	https://drive.google.com/open?id=18CZzHlq1df2fxrd7GCmpLlDIwETyJ2aE
72	20EBKCS019	Ankur Thakur	Data Science of python	https://drive.google.com/open?id=1Qa5PA5Rk5kRXwsbOBuAybJOcuOVsxJMh
73	20EBKCS020	Anshu Raghav	Web development	https://drive.google.com/open?id=1eOOih78dWRL-O8e9weu2TT0e3J_PtdfI
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79	20EBKCS031	Davesh Kataria	Java programming	https://drive.google.com/open?id=1ShhGV6ucQyRwTogSu_6qFcx3mbr4kdS
80	20EBKCS032	Deepak Panwar	Figma Essential Training: The Basics	https://drive.google.com/open?id=11-R15I3PYUbYn_8wWd3RG1tgwZC7JVB6
81	20EBKCS033	Deepak Verma	HTML & CSS	https://drive.google.com/open?id=1e1nXetHe6HuMbmDRdg8yfcPyKfCCBsg
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83	20EBKCS039	Divyam Thapliyal	Web Development	https://drive.google.com/open?id=1EP2vHpgj70xScRPUBc7tt4vz-3YiIr8q
84	20EBKCS040	Garvit Singh Rathore	Core java basic	https://drive.google.com/open?id=1SI7j6lpcBcyHQ-wLDCwCSy4hXMfu4elH
85	20EBKCS041	Gaurav Mandiwal	Java programming masterclass covering java 11 & java 17	https://drive.google.com/open?id=1TO5bESe0XP4Gm7AT8ReJ4kP2N7qlFZHq
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91	20EBKCS051	Ishaan Sharma	Java core made easy	https://drive.google.com/open?id=1mBCsw_zBOT3GvmvrbvC3X6-7ryuicRYo
92	20EBKCS053	Jatin Rathore	JAVA COURSE	https://drive.google.com/open?id=1u88OrVudSR22XeB66yGJNia--Tj81sjY
93	20EBKCS054	Karan Kumar	Java Course With Practical Examples	https://drive.google.com/open?id=1b3oD2ZmT1-Xjr1I4DfYMkGnxQ3QsumSR
94	20EBKCS057	Kaushiki Malik	Front End Web Development	https://drive.google.com/open?id=1yCnORMy_sXZsubmPfyNhrbPAA1bdOn88u
95	20EBKCS060	Lamba Lakshya Rajpal	Getting Started with Full Stack Java Development	https://drive.google.com/open?id=1VgX_tuQycP_7DYzIKcJw5qZOft3IEqn
96	20EBKCS060	Lamba Lakshya Rajpal	Getting Started with Full Stack Java Development	https://drive.google.com/open?id=1OaD-EAOfEFQfLjWQ4YZjcZaFboFUQ8uz
97	20EBKCS061	Manas	Java Course for Complete Beginners with Practical Examples	https://drive.google.com/open?id=1_DFCJANMmRESFaxf0ylJKMMDTIFm3iak
98	20EBKCS063	Manish Kumar Saini	Data Science with Python	https://drive.google.com/open?id=1R-SsAIVHZOUFw2L8P865sIN8Bvwf6rRR
99	20EBKCS065	Manjeet Agarwal	Getting Started With Python	https://drive.google.com/open?id=1dDcC-8IM0PAChcKE5K4pQQuAysLRTw4W
100	20EBKCS066	Manmohan Singh Shekhawat	Android App Development	https://drive.google.com/open?id=1m7iOKbuczYs8eG8udGeiglf98PZ-HC_n
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111	20EBKCS083	Pooja Saini	C & C++ Programming Languages Quiz	https://drive.google.com/open?id=1mKl2vSpOD_HoKdhJCf6G2Z3WsGBzqSIA
112	20EBKCS084	Pooja Soni	Data Analysis using Excel	https://drive.google.com/open?id=1gTsG0IG-r4tOn4xbCaDZO9uY_DWBCAVn
113	20EBKCS084	Pooja Soni	Data Analysis with Python	https://drive.google.com/open?id=1v70fLJwjY14Ap4CAIV2qTO_Yb6xZtdMB
114	20EBKCS086	Prasang Agrawal	Data Structures & Algorithms	https://drive.google.com/open?id=14x8ukHILFJSIV8neyCDPtCYbfXQBkyLB
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118	20EBKCS094	Punit Jangir	Data structure and algorithm	https://drive.google.com/open?id=11-KOHW9wC6_oXvzQ98pTITHEjv2EIIJP
119	20EBKCS095	Pushpendra Kumar	Web development	https://drive.google.com/open?id=1lwMON6i2f7Pbt79r1Xpp0r_qlFJE8bQc
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121	20EBKCS100	Ritika Kumawat	Web Development	https://drive.google.com/open?id=1cWTGPBdoEOeNKhcth2xZpukBaZLST11Y
122	20EBKCS101	Ritu Choudhary	PROJECT DEVELOPMENT USING JAVA FOR BEGINNERS - 2022	https://drive.google.com/open?id=1yhTDxuvaS7GzDrvzl30-aim_qQn-Rsjd
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148	21EBKCS001	Aanchal Verma	Python fundamentals	https://drive.google.com/open?id=19Yk--JwxAy6dgNoLsnLhz6WhIIUzEUH
149	21EBKCS002	Abhishek	Java	https://drive.google.com/open?id=1McOzeNcJYMeFPvGQvpIdDA901862tAns

150	21EBKCS006	Aditya Sharma	Elements of AI	https://drive.google.com/open?id=11s1GgAmC3Zi8rP3t1AAzODZvlt9mFSnz
151	21EBKCS010	Akash Bhati	The complete 2022 web development bootcamp	https://drive.google.com/open?id=1H37hvbe9upGD4zC2qllvUtJEU7aMROc9
152	21EBKCS011	Akshat Pareek	Introduction to java programming	https://drive.google.com/open?id=1O4i2hmslLaUmgnqmy4pw9_jzCF4QfhB
153	21EBKCS015	Ankit Sheoran	ETHICAL HACKING FROM SCRATCH	https://drive.google.com/open?id=1i30zCT_gqMkDWbEluUiA2xW46qUn5azs
154	21EBKCS022	Chahana Singh	Create E-commerce Website in word press	https://drive.google.com/open?id=1QZVXXkxZ8m-y1IyZnyjb7ynEdT8z3man0
155	21EBKCS025	Deepak Nehra	Java programming	https://drive.google.com/open?id=1kA7XsnzUjK_N4FG2u4fojCnS1qcFOYfc
156	21EBKCS028	Dhananjay Choudhary	Java programming	https://drive.google.com/open?id=1Bjk1wA3UK7PwWJ7opFlabFORyClye6Ue
157	21EBKCS030	Divya	Complete C developer course	https://drive.google.com/open?id=1trd5C8Erhq-vIsrlMZ4edcRuUPyOsKNE
158	21EBKCS044	Jatin Kumar Sharma	The modern python 3 bootcamp	https://drive.google.com/open?id=1o5KxF6aIN6uaUKtrTackfcmOTv0sIdQO
159	21EBKCS048	Jyotsna Bisht	The modern Python 3 bootcamp	https://drive.google.com/open?id=1LbkFAKX17xjv02E2mcxDNKxMs0DP_rG-
160	21EBKCS050	Kanika Parshar	Web development masterclass	https://drive.google.com/open?id=1i3VMFV9Zek0m_N7-1W6BwexiI7OMD6Iy
161	21EBKCS055	Komal	Introduction to cyber security	https://drive.google.com/open?id=1MgYUss14-w0uhhECePSIUgHNXo7CUUU2
162	21EBKCS061	Megha Saini	Front End Development-HTML	https://drive.google.com/open?id=1SJq7Gx8lPqy7EJnhYOrFucedxTP5XGOW
163	21EBKCS063	Mohit Kumar Tiwari	OOPS CONCEPT in C++	https://drive.google.com/open?id=1wMOuUPaQeyUyANER4T6_xZGxR-sVLtuc
164	21EBKCS065	Mukul Sharma	Java Programming	https://drive.google.com/open?id=1bi9ocx2m22ww1Vkrz4flo1VxbWXgnolU
165	21EBKCS066	Naman Agarwal	Python with machine learning	https://drive.google.com/open?id=1xf7QjoCaeX97IBrgq0aNB7SduO8J5v2Y
166	21EBKCS068	Neeraj	INTRODUCTION TO IOT	https://drive.google.com/open?id=1nytjmLO7J9-IsLYF-v-ZdUGTuxCK3sYm
167	21EBKCS069	Nidhi Agarwal	Machine learning program for beginners	https://drive.google.com/open?id=1Udiqri568RbsrBHoaQYe82LJ78o-sX6s
168	21EBKCS070	Nikita Agarwal	Python fundamentals for Beginners	https://drive.google.com/open?id=1Y-ZQj6Xh_gVFw85xA7-eYQWkuXtMQ_e9
169	21EBKCS071	Nikita Saini	Interpersonal and intrapersonal	https://drive.google.com/open?id=1gO_Y2mFMks-UV5ZHXZ4V0t9106DPO2LI

			communication skills	
170	21EBKCS075	Pooja Choudhary	"Become A Certified Web Developer From Scratch"	https://drive.google.com/open?id=1oLdqF2CjTqum4e25YgQu-8c7OrahDGoO
171	21EBKCS076	Prabhat Sharma	Graphic Design Masterclass - Learn GREAT Design	https://drive.google.com/open?id=1_1XsVVfN7PdmQ3rEJiY3AMhC-orrWYE
172	21EBKCS078	Prins	Introduction to cyber security	https://drive.google.com/open?id=1JQUE0ATFw-C9djDfd1V9La9z8_zztcep
173	21EBKCS079	Pulkit Poonia	A Complete Cyber Security Guide For Beginners 2022	https://drive.google.com/open?id=1u5dRjFataTLFgQATidac-ezYuSYlnk6f
174	21EBKCS084	Rekha	Introduction to cyber security	https://drive.google.com/open?id=1hvwEfBmpiKrAJNR7gmtZn_zF5gkDoxAT
175	21EBKCS085	Ritika Kirodiwal	Digital Marketing	https://drive.google.com/open?id=1TOAos2PADrK1dva-olzR74vHKguJFLHh
176	21EBKCS088	Rohit Sharma	Introduction to Ethical Hacking	https://drive.google.com/open?id=1SFBokpmM8yE6-oDj77nWg463X3sHyroy
177	21EBKCS090	Sakshi	Cyber security	https://drive.google.com/open?id=1qtu1-cA3LEk84pwG6O5G3vf983F3OHnS
178	21EBKCS091	Sanchay Sharma	Java programming	https://drive.google.com/open?id=1oZhn186OfGaYOpDUn3ouGIPI7c13In6Q
179	21EBKCS092	Sandeep Sharma	Introduction to DevOps	https://drive.google.com/open?id=13ce60-OaH19b-vvo0il0JTM5WyyU4fDz
180	21EBKCS093	Satyarth Prakash Rai	Web Development	https://drive.google.com/open?id=1Qa2xA8PSGAUTe-li3VBiV311_9w1987_
181	21EBKCS095	Shivanka Vajpayee	International Industry Academia Meet	https://drive.google.com/open?id=1-libEkpOPiCCfCfRfPtJp001diwELYy
182	21EBKCS096	Shrikant Saini	Java programming	https://drive.google.com/open?id=10dVycU79TYku60xIiKGhErIbL3pk3sj
183	21EBKCS098	Sneha Singh	Python for beginners	https://drive.google.com/open?id=1ZilxrMUj31JdsnPbSVmEkUEdy9aSkLw_
184	21EBKCS101	Srishti Singh	Data Structures in C	https://drive.google.com/open?id=10EhpORIW8P3V2r_Bo6nGsQtufEYUaN1V
185	21EBKCS102	Tan Singh	Data structures & algorithms in Java for intermediate level	https://drive.google.com/open?id=13v1CFPDiK8MG84ksZVPbFwjCi7BIG-fw
186	21EBKCS106	Tushar Kumar	Python Programming Course	https://drive.google.com/open?id=15mm4xDVUfOiQ65nYxURJiP_-LBzm0a6q
187	21EBKCS108	Uttam Sharma	Java programing	https://drive.google.com/open?id=1faIyrw8TWen5QeyTh9gA23okrVnMuuo8
188	21EBKCS112	Vinita Giriya	C for Beginners	https://drive.google.com/open?id=1WBKigrAlLn51ARRJpMT4SyVmltq3li-q

189	21EBKCS113	Vishant Jangir	FRONT END DEVELOPMENT	https://drive.google.com/open?id=1OVJ16jwT a8SW6p1T0DX2ONd0fblASx3p
190	21EBKCS115	Vivek	Cyber security	https://drive.google.com/open?id=1NpuLG2oj LeMfhxrs PHmeIgb8vj0wolM
191	21EBKCS117	Yash	DSA in Java programing	https://drive.google.com/open?id=1P6bWEOl 7m40vsP8VP0OZUQoGHdzaZCuM
192	21EBKCS118	Yash Kumar	Android App Development with Kotlin	https://drive.google.com/open?id=1odepljKhc dyaAFIEp1LLyTqJBXRjtt3T

Session 2020-21

S. No	Univ. Roll No.	Student Name	Course Name	Course Certificate Link
1	17EBKCS001	Abhishek	5 Day workshop on Internet of Things and Its Applications	https://drive.google.com/file/d/19AFuW1Oeq TOKb-7I63A9XQR8wmJQxNOB/view?usp=drivesd k
2	18EBKCS001	Abhinandan Singhal	Cloud Computing NPTEL	https://drive.google.com/open?id=1YDzQgfsP IXDvYDM-dwVhzyopdVaAH-Aq
3	18EBKCS006	Abhishek Sharma	Introduction to HTML	https://drive.google.com/open?id=15RtGBHX vwTmZRNqj3QC56P7EalILOtg
4	18EBKCS035	Deepika Sharma	AI Microsoft training	https://drive.google.com/open?id=1CfUsjpcZ PPKujtCofmx7EUiz8_0pvRaQ
5	18EBKCS038	Gourav	Android App Development	https://drive.google.com/open?id=1Mhbtg3o cb0n2zLDGjrtat2duPDycaK
6	18EBKCS057	Manal Swami	Certified Cloud Security Professional (CCSP)	https://drive.google.com/open?id=1Hu1PpafR H8AopAFA5T_675FcL-cltIsQ
7	18EBKCS062	Mansi Gupta	Programming Foundations with JavaScript, HTML and CSS	https://drive.google.com/open?id=1DYCbcCO dQmJHm8xj_SOHWQP8cuB4F_Uh
8	18EBKCS063	Manthan Jitawat	SQL Data analytics	https://drive.google.com/open?id=1QzeEOHj6 2gIz9uRYSenb47nsyqKVvavK
9	18EBKCS070	Niharika Jalan	IOT and It's Application	https://drive.google.com/open?id=1Sjk47m3R weBrY6pnV_k1TNK0t3dwxXbJ
10	18EBKCS073	Nikita	Android application development using kotlin	https://drive.google.com/open?id=1ytr63SSY HWFq726NcP5GIIgogH3FUspO
11	18EBKCS093	Sakshi Bansal	The Complete 2021 Flutter Development Bootcamp with Dart	https://drive.google.com/open?id=1kAtuHWv SQNRJbmoPBc4SMUdv3MMnlxk0
12	18EBKCS111	Utkarsha Upadhyay	Graphic Design	https://drive.google.com/open?id=12tgMm45u DJyPKqKMiAeLspIF_GormFzS
13	19EBKCS002	Aakash Payal	Create Multiplayer Games with C++(Udemy)	https://drive.google.com/open?id=1yL9mJoQ 4Xx6nGkX9v1iCOgkaCnI7Qety

14	19EBKCS004	Abhinav	Machine Learning Bootcamp	https://drive.google.com/open?id=1rNk8-bn7mJRCY4JoWBTCOh_qQzaL9NsK
15	19EBKCS006	Abhishek Pandey	INTERNET OF THINGS	https://drive.google.com/open?id=1eAJtS8kUW9qYX_e1lnM7HbmC8hh7HwBp
16	19EBKCS006	Abhishek Pandey	HUMAN VALUES	https://drive.google.com/open?id=1g5tKkRD16yGgDO2LpXt_C2FxLUQJ46kN
17	19EBKCS014	Aman Soni	Complete Flutter Development Bootcamp 2021	https://drive.google.com/open?id=1a6Xe-VusJySrpqcecTFjLrNCgd7LKJs6
18	19EBKCS017	Aniket Gupta	Front-End Web Development	https://drive.google.com/open?id=1B8ixEDyUaKGB0exsU0_UHR4mlw7g9sQg
19	19EBKCS018	Aniket Kumar Sinha	AZ 900 - Microsoft Azure Fundamentals	https://drive.google.com/open?id=1msmHh8-2yzEyZcm4JGMCkhUCfJ5aNo8U
20	19EBKCS021	Anshika Gupta	Campus Business Manager Intetnship PrepBytes	https://drive.google.com/open?id=1fdJX_flyhAFDPEDq8aQ8lcrVmdK0m1R
21	19EBKCS022	Anuket Kumar	Stock Market Fundamental	https://drive.google.com/open?id=1C5dfaWcfclE2qrrg4VArVQWI7noEB1
22	19EBKCS023	Aryan Bhargaw	Programming with C and C++	https://drive.google.com/open?id=1wfbGmokpzC6VyzgOWklmDG_u1n4q5gg1
23	19EBKCS027	Avneesh Singh	MongoDB certification Training	https://drive.google.com/open?id=1O5JQv_GU-IOazMLV5JVjXewo3RJ-IQUX
24	19EBKCS030	Bhawani Pareek	Research Methodology & Scientific Tools	https://drive.google.com/open?id=1X278d1LpeS0sAwY_pi7DUpNqQfFWEyDj
25	19EBKCS040	Farhan	machine - ai	https://drive.google.com/open?id=1ndaITsWUXJh4n2cKVFK-7rNOONd2dj7Q
26	19EBKCS045	Harsh Garg	PYTHON FOR EVERYBODY - COURSERA	https://drive.google.com/open?id=1FvmtGCncnjo5hem5Vww2-qhjYYKPlx8r
27	19EBKCS052	K A Subramanian	Programing fundamentals (Duke University)	https://drive.google.com/open?id=1DAZluOnRMIJEm6boG4rYeWG8IBEGcbNs
28	19EBKCS053	Kaddafee Khokar	Cyber Security (Internship- by Career Dreams Education)	https://drive.google.com/open?id=1AYpi5KaFHVqX0KS0i-D5HeSoF8Zv-Jzt
29	19EBKCS055	Karishma Verma	Complete Python 3 Course: Beginner to Advanced Course	https://drive.google.com/open?id=1hiN35B61c_nAKyXiWaoySkNj7mOzFt-M
30	19EBKCS056	Khushi Tulsian	Introduction to tensorflow for AI, Machine Learning and Deep Learning	https://drive.google.com/open?id=1iA6yGDPfhIHOTetLNHktAIzP4aznfOmR
31	19EBKCS057	Komal Sharma	The Complete Python3 Beginner To Advance	https://drive.google.com/open?id=12RyGU-jogM6KXEWscZWUbrMLAjZndeSe

32	19EBKCS059	Kuldeep Saini	Freecodecamp - Javascript Data structures and algorithms	https://drive.google.com/open?id=18q-XA8QCORVc_wUVMi4cyPbJP2Xo6W3D
33	19EBKCS064	Mehak Srivastava	Web Development	https://drive.google.com/open?id=15dEACU19lvSDJx0XVjFKBP1Yzm6GM3r0
34	19EBKCS077	Pankaj Kumar	Programming with c and c++	https://drive.google.com/open?id=1WWXWbGwRHp1tA1y7P1TQV8yNlrnlzP9P
35	19EBKCS083	Pradeep Kumar Saini	Java Sololear	https://drive.google.com/open?id=1KOpEfx7YrAKu0Xd6KPILaPqF6RivOyo
36	19EBKCS086	Preeti	Graphic Design	https://drive.google.com/open?id=1Exrr9OPd-S-pNPlcAUJd4nAranagkhf8
37	19EBKCS089	Pulkit Saini	Mastering data structures and algorithms using c and c++	https://drive.google.com/open?id=14PbkgkLrNa1RLWm-jRRnGc6tqfRAkkFS
38	19EBKCS098	Sachin Kumawat	100 Days of Code: The Complete Python Pro Bootcamp for 2021	https://drive.google.com/open?id=1vPyPs001sGELJOpCCfANj3_LCB5NxvQ
39	19EBKCS100	Sahil Sain	ML using python	https://drive.google.com/open?id=1kZHTwTh_KuNyxyT2_gd-FR2yV-0Lqqs
40	19EBKCS104	Shubham Sharma	30 Days of Python- Beginner to Advanced	https://drive.google.com/open?id=11kSRPPZ_Zlrh3ejyTvLbjoKUFOPvvMT0e
41	19EBKCS108	Siddharth Sharma	Web development	https://drive.google.com/open?id=158jR5oh68tMyNEsnFTfStmIW0FvmSNND
42	19EBKCS124	Vivek Lohiya	Power BI	https://drive.google.com/open?id=1eYTpzFi7QypOr40FH4rIgzXZWt25VomnL
43	19EBKCSO48	Hitesh Kumar	Master The C Programming Language	https://drive.google.com/open?id=1zuWK8GAU6j-kQkRycEcsFW6eEJcSSudP
44	20EBKCS001	Aayush Sharma	Digital and Cyber Security Awareness	https://drive.google.com/open?id=1wDL-jmUVxpVTsCe49YzAKd58-sMEb4r5
45	20EBKCS002	Aayushi Bhatnagar	Python Fundamentals	https://drive.google.com/open?id=1bAug-B-9V3JybqpiRNPIKo70fPJwzqxs
46	20EBKCS005	Ajay Swami	FUNDAMENTALS OF DIGITAL MARKETING	https://drive.google.com/open?id=1cqqRO4p48V6BBHEOt2by1bBGqepzcmZB
47	20EBKCS007	Amit Singh Mokawat	Campus ambassador , IIT Bombay	https://drive.google.com/open?id=1p-Qs3KEb2MqS8NjipEtXzyJHziMPpwww
48	20EBKCS009	Anirudh	Deep learning with python	https://drive.google.com/open?id=1r-RV5CeOGvwcMbelIyTfqLI8IMNExsf
49	20EBKCS011	Anjali Sharma	Automate the Boring Stuff with Python Programming	https://drive.google.com/open?id=1ObN_Kjd1QLLBxEaIdXRENS2BAku4a1m9
50	20EBKCS013	Ankit	Artificial intelligence in Python	https://drive.google.com/open?id=1KxecGwaqmnZdy35N2iOdNw_yGEdw0Bfo

51	20EBKCS015	Ankit Nehra	Getting Started with AWS Machine Learning	https://drive.google.com/open?id=1NzpzH3Dw6upWBSqs3XiCiQWjfsGOSxtw
52	20EBKCS019	Ankur Thakur	Python fundamental for beginners	https://drive.google.com/open?id=1ckPDQtI09ylXgsnojv5puJ0SMOIdJSgY
53	20EBKCS020	Anshu Raghav	Digital marketing	https://drive.google.com/open?id=1YDknHoqK5o25MWi9ZNo_Obq5j2ityrwM
54	20EBKCS021	Anuradha	Become a certified web developer from scratch	https://drive.google.com/open?id=11VksNveSjDX62mGJS92dvKLQxkfeJLO7
55	20EBKCS024	Aryan Tomar	Java	https://drive.google.com/open?id=16kXazjvq_HITdXfGP8Qq7QcD8Kycouqb
56	20EBKCS026	Ayush Sharma	Python with absolute Beginners	https://drive.google.com/open?id=1AIXrefasKphVcnRHzeqmJ5Bc0hJteLrx
57	20EBKCS028	Chirag Bhardwaj	Machine Learning Workshop	https://drive.google.com/open?id=1hilebwtW7nyM3U8hlsdCrqsiEJSRveag
58	20EBKCS032	Deepak Panwar	Python programming	https://drive.google.com/open?id=1yxHvRXV5sDVTFu9WA3onHbUIXs86TvZt
59	20EBKCS038	Disha Yadav	Google digital garage	https://drive.google.com/open?id=1lLzPFzIST5xnwnrtHppVxgGMxMvKgsCu
60	20EBKCS039	Divyam Thapliyal	C++ Programming	https://drive.google.com/open?id=1HxNvgktAYNSUauUCX5pCV0HNURWDFKX0
61	20EBKCS042	Gourav Singh	C++	https://drive.google.com/open?id=1ZyujRy2beLoML_Kep9c3ckJ4OaJOQy56
62	20EBKCS046	Harshit Kumar	Machine learning workshop	https://drive.google.com/open?id=1M2AaocFFAcFLgdGP5DFMUOdmG0EAacvNY
63	20EBKCS047	Harshita Parashar	Fundamentals of digital marketing	https://drive.google.com/open?id=1Gipm9_lnr7IduHg90XBKf7ubXkzWgWuF
64	20EBKCS053	Jatin Rathore	THE FUNDAMENTALS OF DIGITAL MARKETING	https://drive.google.com/open?id=1r_CcwrUCWxTRqjmmjNLOxEBte2ceuj-Q
65	20EBKCS057	Kaushiki Malik	Programming with Python	https://drive.google.com/open?id=11ty057X12w6uqkYDZe2uKG4KkjNi-Vu6
66	20EBKCS063	Manish Kumar Saini	Python Fundamentals for Beginners	https://drive.google.com/open?id=1B6_NxTdTONFGvJxiLZMCxhPizsBB0m0M
67	20EBKCS067	Manthan Saini	Front and Development-HTML	https://drive.google.com/open?id=1vBEsyWUGsSq_k-OpoeFJkkotXrKdM7
68	20EBKCS069	Mayank Jaiswal	Python Training Program: Basics and Advanced	https://drive.google.com/open?id=1DWSurIqSN8Kkr5YXYpN6bbMnVoFz8FHb
69	20EBKCS075	Naman Gupta	C++ Programming step by step from beginner to advanced	https://drive.google.com/open?id=1FTTHKbN6BU7g4vIuOsLsbuCNAP46-tw
70	20EBKCS080	Piyush Nirwan	Ethical Hacking	https://drive.google.com/open?id=15w0tUZId8BI_x7zIEPiloncadO3zQW54

71	20EBKCS081	Pooja	FRONT END DEVELOPMENT-HTML	https://drive.google.com/open?id=1Cz1Jb1q5F4XWeSEoGxXcuHtJ_Dsn5AoT
72	20EBKCS083	Pooja Saini	Internship at Ifortis Worldwide as a Campus Ambassador	https://drive.google.com/open?id=1n-uM5i-5AOa_Z4f1VWO3mOySbXVK0xZn
73	20EBKCS086	Prasang Agrawal	Python Demonstrations For Practice Course	https://drive.google.com/open?id=1cZxiWIFd2SwzBfIjCVbmPrEAQJit816
74	20EBKCS090	Preeti Saini	KMITL Virtual workshop program	https://drive.google.com/open?id=1z24AxjGHfC-bGrQF9v_9RRtI4SZS8aeu
75	20EBKCS096	Rajat Purohit	Core Java	https://drive.google.com/open?id=1eT7xve7gTcPg1HZxaexBOF9zWy4CvufA
76	20EBKCS098	Ravikant Verma	Cloud Foundation	https://drive.google.com/open?id=1TUj9saD8bz6ufTiDJLClsobARBBnD9ue
77	20EBKCS100	Ritika Kumawat	Python Programming	https://drive.google.com/open?id=1jppmpwHGnZIMOUl_WszzXPOfYaRLgNQN
78	20EBKCS101	Ritu Choudhary	C++ PROGRAMMING	https://drive.google.com/open?id=1AU-PBewjhyVQplnZiLpjG6gsHHZh-oSD
79	20EBKCS106	Sankalp Haritash	Node JS	https://drive.google.com/open?id=1WG3U0E5WFRh6D1C8xWr6sls05CcBQrl-
80	20EBKCS107	Sankalp Jain	Python Programming	https://drive.google.com/open?id=14WFEadl-ywry0pt1SwDIOYN9y_ldtwKz
81	20EBKCS110	Shalini Rathore	Data structures in c	https://drive.google.com/open?id=1UZ12cCoH53VrSPqq0BNfhr90kTbKeYAO
82	20EBKCS112	Shristi Agarwal	Python Programming	https://drive.google.com/open?id=1fOAb6LZp2s3RT98ODrmoanyIoI8Gr-mx
83	20EBKCS113	Shruti Agarwal	Python Programming	https://drive.google.com/open?id=15B0gkhh5kqHRuVimT1bRPBCua310emHp
84	20EBKCS114	Singh Bhupander	HTML & CSS	https://drive.google.com/open?id=1IqGnzkkpovSz8ACvrRcxM5MyXEB7SL7p
85	20EBKCS118	Sunil Kumar	Machine Learning with python	https://drive.google.com/open?id=1TlcHvb_zJyEfRLoJN20SeV8lVuccMtr1
86	20EBKCS125	Vikram Kumar	Ethical Hacking	https://drive.google.com/open?id=1qhndKtExNXD9KM7w9e_t5dz7er0t6QF6
87	20EBKCS126	Vinay Pratap Singh Rathore	C++ programming	https://drive.google.com/open?id=1OroohYIEb6TLIcnikxKar0k1uynNz7PD
88	20EBKCS127	Vishal Jha	C++ Programming	https://drive.google.com/open?id=18Cs5sF7dGCZh8uhV5Uy7qSmu6TVJFrgy
89	20EBKCS128	Vishal Sharma	Front end development -- HTML	https://drive.google.com/open?id=1COwMDn-QTKMs8OQNVcpw4FKRSOaXNFIT
90	20EBKCS129	Vritika	Biggeners of python	https://drive.google.com/open?id=1zOPWTL3jJPw0SlnjWSSEcGbXswpmTHgr
91	20EBKCS204	Ashish Sharma	PYTHON	https://drive.google.com/open?id=1T4osJECZRwajSaw6v9JkQkEAvKQaRH42
92	20EBKCS300	SAURAV GARIYA	Programming Basics	https://drive.google.com/open?id=1kshJw9YeKKZ4-Z6Up4gf9ktEI80etxDG

93	21EBKCS053	KARTIK SHARMA	C language	https://drive.google.com/open?id=1K9-9xj_pSISXsl0ljyOTDIKcVVopUgxC
94	21EBKCS068	NEERAJ	CYBER SECURITY	https://drive.google.com/open?id=1daZmyQjnbdQL3btGDxUjcBvl0S0LvUyo
95	21EBKCS071	NIKITA SAINI	Interpersonal and interpersonal communication skills	https://drive.google.com/open?id=1bCFockEFW_ehJIqG-B3hcZy1DGhRRqxJ
96	21EBKCS075	POOJA CHOUDHARY	TCS iON Career Edge - Young Professional	https://drive.google.com/open?id=10_Y_hWC_h3WWkYA_c6Y5rmiycvzhkgCO8
97	21EBKCS088	ROHIT SHARMA	Cyber Security	https://drive.google.com/open?id=1uLbBcJbkhqLtzjJEOY4FR8lmeIrYlewU
98	21EBKCS090	SAKSHI	Market management	https://drive.google.com/open?id=10dHQ9K1Ex0CrJ-9psFjxgRdL7d-ha2l5
99	21EBKCS095	SHIVANKA VAJPAYEE	Android Application	https://drive.google.com/open?id=1XKWN-nH3LntZXF5mIaWogrP-vRtPf8KY
100	21EBKCS108	UTTAM SHARMA	Java programming	https://drive.google.com/open?id=1t-coEpLQHul9jr4eQfGKXr3b8Fdxq2US
101	21EBKCS116	VIVEK BUDANIA	Cyber security	https://drive.google.com/open?id=1zH2q98hk-sk99sl4LH1LXljXYwQBzrfy
102	21EBKCS117	YASH	Cyber security	https://drive.google.com/open?id=14B2PWjWw76XDT-bmyrk7OCnKdFybtOM7

2.2	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
2.2.1	Describe processes followed to improve quality of Teaching & Learning	1. OBE awareness is not observed among students.	<p>To increase awareness among students and faculty multiple discussion sessions, seminars and workshop has been conducted by the CSE department to enhance their understanding of OBE principles and methodologies.</p> <p>1. Student Awareness Programs:</p> <ol style="list-style-type: none"> Online Seminar on Outcome Based Education for students. Discussion about concept of OBE and its importance in education in the classes. Online Brochure about OBE concepts to help students understand the learning outcomes and expectations of each course. (On Website: www.bkbiet.ac.in, distributed on WhatsApp groups) Informative display boards about Program Outcomes (POs) and Blooms Taxonomy are put at multiple

		<p>2. OBE centric teaching is not observed in theory as well as lab.</p>	<p>places in the institute which includes Laboratories, Library, Institute Notice Boards, Corridors etc.</p> <p>2. Faculty Training Programs:</p> <ol style="list-style-type: none"> Hands on workshop on NBA Accreditation process and Outcome Based Education for faculty. Discussion about concept of OBE and its importance in departmental meetings. Online Brochure about OBE concepts to help faculty understand the learning outcomes and expectations of each course. (On Website: www.bkbiet.ac.in , distributed on WhatsApp group) Informative display boards about Program Outcomes (POs) and Blooms Taxonomy are put at multiple places in the institute which includes Laboratories, Library, Institute Notice Boards, Corridors etc. <p>OBE centric teaching is being followed in theory and practical labs.</p> <ol style="list-style-type: none"> Course outcomes of each course are framed by the respective faculty in the beginning of semester and mapped with the POs and PSOs defined by the CSE department. All learning materials are prepared in alignment to Cos and reflect OBE principles and encourage active student engagement. Subject notes are provided on Institute website (Link on Institute Website: https://bkbiet.ac.in/studymaterialbkbiet/) Curriculum gaps are identified from the mapping table and feedback from various stakeholders. (Link on Institute Website: https://bkbiet.ac.in/feedback/) Content beyond syllabus is delivered in an effective manner to fill the gaps through Workshops, Seminars and other academic and non-academic events. (Event details can be checked on Institute Website Link: https://bkbiet.ac.in/blogs/) Students are encouraged for self-learning through online certification courses (including MOOC, NPTEL and SWAYAM). To help students with this relevant NPTEL course links are provided on Institute website. (Link on Institute Website: www.bkbiet.ac.in) Students are encouraged for competitive exams like GATE examination (Link on Institute Website: www.bkbiet.ac.in)
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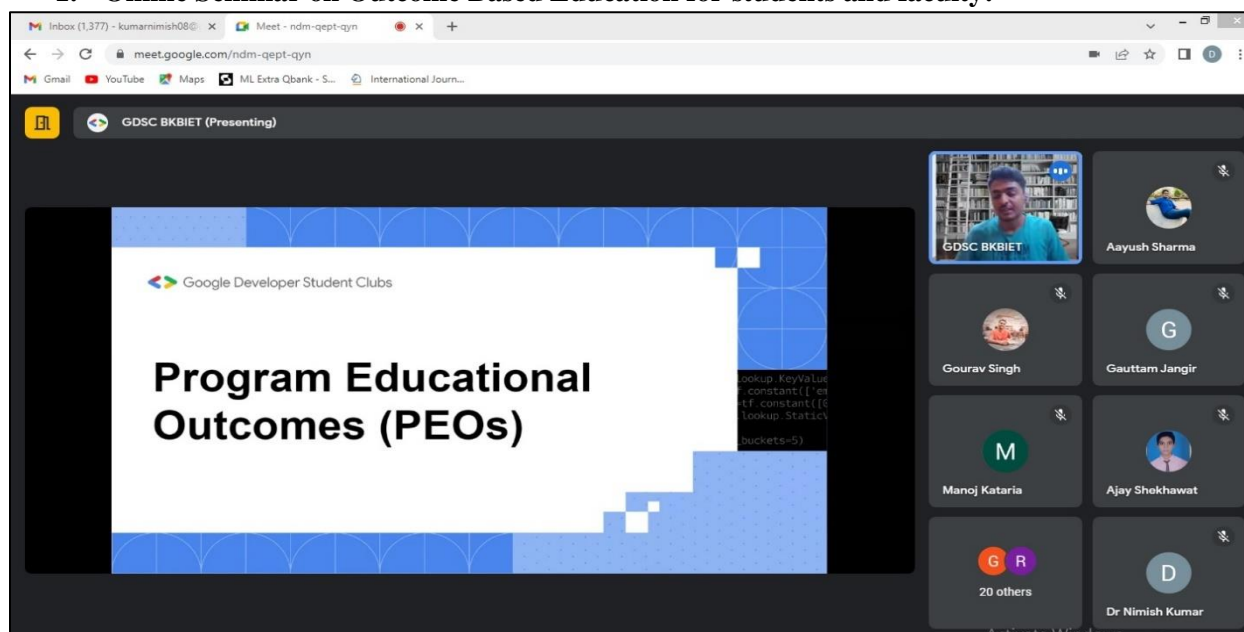
			<p>www.bkbiet.ac.in) and various coding competitions and Hackathons. (Institute Website Link: SIH 2020: https://bkbiet.ac.in/smart-india-hackathon-2020-bic/ SIH 2022: https://bkbiet.ac.in/smart-india-hackathon-winner-2022/)</p> <p>7. Meritorious students are rewarded to foster the spirit of competition and encourage merit.</p> <p>8. OBE centric Assessment and Feedback mechanism is followed.(Link on Institute Website: https://bkbiet.ac.in/feedback/)</p> <p>9. Industry collaborations: To fill curriculum gap and ensure that it aligns with industry need and standards CSE department has conducted Seminars and workshops in which industry experts are invited and they provide real world perspectives and insights to students and the faculty to connect theory with practical applications. (Link on Institute Website: https://bkbiet.ac.in/activities/ https://bkbiet.ac.in/blogs/ https://bkbiet.ac.in/international-industry-academia-meet-2022/)</p>
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Actions taken for following observations:

1. OBE awareness is not observed among students
2. OBE centric teaching is not observed in theory as well as lab

Initiatives to increase awareness about OBE among students and faculty members:

1. Online Seminar on Outcome Based Education for students and faculty:



बीकेबीआईईटी (जीडीएससी) का एनबीए मान्यता पर वर्चुअल सत्र

पिलानी बीकेबीआईईटी(जीडीएससी) ने शैक्षिक गुणवत्ता बढ़ाने के लिए हाल ही में राष्ट्रीय प्रत्यायन बोर्ड (एनबीए) और इसके बहुमुखी लाभों पर ध्यान केंद्रित करते हुए एक आभासी सत्र का आयोजन किया। द्वितीय वर्ष के छात्र आदित्य शर्मा के नेतृत्व में सत्र में एनबीए मान्यता के महत्व पर जानकारी दी। यह कार्यक्रम प्रतिष्ठित संकाय सलाहकार हिमांशु वर्मा और कंप्यूटर विज्ञान इंजीनियरिंग और सूचना प्रौद्योगिकी विभाग के प्रमुख डॉ. निमिष कुमार के अटूट समर्थन से आयोजित किया गया था। उपस्थित छात्रों ने एनबीए मान्यता के लक्ष्यों और लाभों के बारे में जानकारी प्राप्त की, जिसे उन्हें शिक्षा में गुणवत्ता आश्वासन की व्यापक समझ प्राप्त हुई। आभासी सत्र ने ज्ञान के प्रसार, छात्रों और संकाय सदस्यों के बीच सहयोग को बढ़ावा देने के लिए एक मंच के रूप में कार्य किया। संस्था के निदेशक डॉ. प्रसन्न कुमार, जीएम कमर्शियल केके पारिक और प्राचार्य डॉ. अनिल कुमार शर्मा ने सभी प्रतिभागियों को कोर्स की उपयोगिता बताते हुए बधाई दी।

2. Hands on workshop on NBA Accreditation process and Outcome Based Education for faculty:

एनबीए प्राप्ति प्रक्रिया पर विशेष कार्यशाला आयोजित

पिलानी (सीमा सन्देश सं.)। बीके बिरला इंस्टीट्यूट ऑफ इंजीनियरिंग एंड टेक्नोलॉजी पिलानी के कंप्यूटर इंजीनियरिंग विभाग ने एनबीए प्राप्ति प्रक्रिया पर एक दिवसीय कार्यशाला आयोजित की, जो विशेष रूप से संकाय सदस्यों के लिए तैयार की गई थी।

इस कार्यक्रम ने संस्थान के शिक्षकों को एनबीए मान्यता प्रक्रिया में गहरी अंतर्दृष्टि प्राप्त करने का एक अमूल्य अवसर प्रदान किया। कार्यशाला का नेतृत्व कंप्यूटर इंजीनियरिंग विभाग के प्रमुख डॉ. निमिष कुमार ने किया, जिन्होंने एनबीए मान्यता के महत्व पर जोर देते हुए कहा, एनबीए मान्यता गुणवत्तापूर्ण शिक्षा के प्रति हमारी प्रतिबद्धता की मान्यता है। हमारे संकाय को



केके पारिक और प्राचार्य डॉ. अनिल कुमार शर्मा ने कार्यक्रम का आयोजन करने वाली एनबीए कोर टीम और संकाय सदस्यों के प्रति आभार व्यक्त किया, और यह सुनिश्चित करने के लिए उनके समर्थन पर प्रकाश डाला कि कार्यशाला ने संकाय सदस्यों को एनबीए मान्यता प्रक्रिया में उत्कृष्टता प्राप्त करने के लिए आवश्यक ज्ञान प्रदान किया। इस विशेष कार्यशाला ने न केवल एनबीए प्राप्ति प्रक्रिया के बारे में संकाय की समझ को मजबूत किया बल्कि शिक्षक के उच्चतम मानकों को बनाए रखने के लिए संस्थान की प्रतिबद्धता को भी मजबूत किया। यह अक्रमिक मान्यता में निरंतर उत्कृष्टता प्राप्त करने की दिशा में एक महत्वपूर्ण कदम था।

इसके ज्ञान से लैस करना यह प्रक्रिया हमारे संस्थान की निरंतर सफलता के लिए महत्वपूर्ण है। कार्यशाला में मुख्य अतिथि बक्ता, सहायक प्रोफेसर गोपाल कृष्ण प्रजापत ने एनबीए मान्यता प्रक्रिया की बारीकियों में बहुमूल्य अंतर्दृष्टि प्रदान करते हुए अपने व्यापक ज्ञान और अनुभव को साझा किया।

एनबीए कोर टीम के सदस्य सहायक प्रोफेसर हिमांशु वर्मा, प्रदीप सिंह शेखवत, गौतम जागिड़ और रमाकांत सोनी सहित संस्थान के कंप्यूटर विज्ञान और इंजीनियरिंग संकाय सदस्यों ने एनबीए प्राप्ति प्रक्रिया की जटिलताओं को समझने में महत्वपूर्ण भूमिका निभाई। कार्यशाला में व्यावहारिक गतिविधियाँ, इंटरैक्टिव चर्चाएँ, और सफल एनबीए मान्यता प्राप्त करने के लिए दस्तावेजीकरण आवश्यकताओं, मूल्यांकन मानदंड और सर्वोत्तम प्रथाओं की व्यापक व्याख्याएँ शामिल थीं। संस्था निदेशक डॉ. एसएम प्रसन्ना कुमार, जीएम कमर्शियल

Online Brochure about OBE(Outcome Based Education) & Blooms Taxonomy
(On Website: www.bkbiet.ac.in , distributed on WhatsApp group)

B K Birla Institute of Engineering & Technology | NBA CSE OBE Brochure | 3 / 7 | 78%

2. Outcome Based Education (OBE)

- Outcomes based education (OBE) is a process that involves the restructuring of curriculum, assessment and reporting practices in education to reflect the achievement of high order learning and mastery rather than the accumulation of course credits" (Tucker, 2004).
- Outcome-based education is a "design down" process which moves from POs & PSOs to Course Outcomes (COs) and outcomes for individual learning experiences. Outcomes at each successive level need to be aligned with, and contribute to, the POs & PSOs.
- Outcome-based education is a model of education that deviates from the traditional focus on what the institution provides to students, in favor of making students demonstrate that they "know and are able to do" on completion of course or program.
- There is no single specified style of teaching or assessment in OBE. All educational activities carried out in OBE should help the student achieve the set goals. The faculty may adapt the role of instructor, trainer, facilitator, and/or mentor, based on the outcomes targeted.
- The OBE approach is a continuous process of education wherein the curriculum, teaching and learning strategies, and assessment tools are improved continuously.
- The OBE learning process can be stated into four steps:

a) Plan (Syllabus Writing/Review) - The Course Learning Outcomes are aligned with the GA (Graduate Attributes), PEO and Student Outcomes. The syllabi reflect strategies (learning plan) for achieving the outcomes, as well as for measuring the outcomes (assessment).
b) Implement (Course Delivery) - Carry out the learning plan and strategies planned for producing the outcomes.
c) Measure/Assess (Assessment) - Carry out the strategies planned for measuring the learning outcomes and objectives. Collect this data and analyze it to determine the results. (Assessment Phase). This phase is where feedback is obtained.
d) Respond/Improve (Continuous Quality Improvement) - Determine what needs to be changed to make improvements. These changes are the basis of new or revised outcomes and objectives for the next cycle of the process. This process can be looked at on a program or course level.

3. Bloom's Taxonomy

- Bloom's Taxonomy is a classification system used to define and distinguish different levels of human cognition i.e., thinking, learning and understanding
- The taxonomy was proposed in 1956 by Benjamin Bloom, an educational psychologist at the University of Chicago
- The terminology has been recently updated to include the following six levels of learning
- These 6 levels can be used to structure the learning outcomes, lessons, and assessments of your course.

Create: To make connections, identify new relationships, or design something new (new to you)

Evaluate: To make a judgement, determine validity of a claim, or select and defend a position

Analyze: To identify and examine components, compare and/or contrast properties, identify assumptions, or deduce

Apply: To utilize, apply or make use of

Understand: To describe, translate or restate in one's own words

Remember: To memorize, reproduce, or recognize facts

B K Birla Institute of Engineering & Technology | NBA CSE OBE Brochure | 5 / 7 | 78%

BLOOM'S TAXONOMY Question Stems

Bloom's Taxonomy question stems is a tool for educators that will help them create and scaffold questions to meet the needs of their students. Question stems are used to generate questions that respond to each level in the taxonomy.

<p>REMEMBER</p> <ul style="list-style-type: none"> Can you name all the ...? Describe what happens when ...? How is (are) ...? How would you define ...? How would you identify ...? How would you outline ...? How would you recognise ...? List the ... in order. 	<p>UNDERSTAND</p> <ul style="list-style-type: none"> Can you clarify ...? Can you illustrate ...? Condense this paragraph. Contrast ... Elaborate on ... Explain why ...? Give an example How can you describe ...?
<p>APPLY</p> <ul style="list-style-type: none"> Can you group by characteristics such as ...? Do you know of another instance where ...? Draw a story map Explain why a character acted in the way that he did From the information given, develop instructions about ...? 	<p>ANALYSE</p> <ul style="list-style-type: none"> Discuss the pros and cons of ... How can you classify ... according to ...? How can you sort the different parts ...? How is ... connected to ...? How is ... similar to ...? How would you categorise ...? How would you explain ...?
<p>EVALUATE</p> <ul style="list-style-type: none"> How would you feel if ...? How would you grade ...? 	<p>CREATE</p> <ul style="list-style-type: none"> Can you develop a proposal which would ...?

5. Program Outcomes (PO)

Program Outcomes are narrow statements that describe what the students are expected to know and would be able to do upon the graduation. These relate to the skills, knowledge, and behavior that students acquire through the program.

Engineering graduates will be able to:

- Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals and Engineering specialization to the solution of complex Engineering problems.
- Problem analysis:** Identify, formulate, research literature, and analyze complex Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 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.
- Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of Engineering experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 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.
- 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.
- 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.
- Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the Engineering practice
- Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings in Engineering.
- 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.

3. Study materials are prepared in alignment to Cos and reflect OBE principles and encourage active student engagement. Subject notes are provided on Institute website (Link on Institute Website: <https://bkbiet.ac.in/studymaterialbkbiet/>)

Online Study Material BKBIET | B K Birla Institute of Engineering & Technology, Pilani

Admission Enquiry Online Study Material

B K Birla Institute of Engineering & Technology, Pilani

ABOUT BKBIET ACADEMICS ADMISSIONS PLACEMENTS
 INTERNATIONAL INFRASTRUCTURE CAREERS CONTACT US
 UPCOMING EVENTS ACTIVITIES NOTICES COMMITTEES
 STUDENT SECTION BLOGS & REVIEW

Online Study Material BKBIET

Branch wise study material is given below:

2nd SEM 4th SEM 6th SEM 8th SEM

CSE

All Branches - 2FY2-29 - Mr. Jitendra Kc

4CS3-04 Mr. Bhupendra Jaipr

6CS3-01 Mr. Gopal K. Prajapat

BCS1A Mr. Guittam Jaipr

2FY1-04 Dr. Manasmiti Sharma

4CS4-05 Mr. Nachiket Sainis

6CS4-02 Mr. Vikas Kumarawat

BCS2A Mr. Ramakant Soni

2FY2-01 Dr. A.K. Malik

4CS4-06 Ms. Ruchi Sharma

6CS4-03 Mr. Himanshu Verma

BCS3A Mr. Pradyep S. Shukawat

2FY2-02 Mrs. Rashmi Jaipr

4CS4-06 Mr. Himanshu Verma

6CS4-05 Ms. Ruchi Sharma

BCS4.2 Mr. Vikas Kumarawat

4. Online links on BKBIET Website for Public access Catalogue for Students & Faculty

Library | B K Birla Institute of Eng

https://bkbiet.ac.in/library/

Online Public Access Catalog

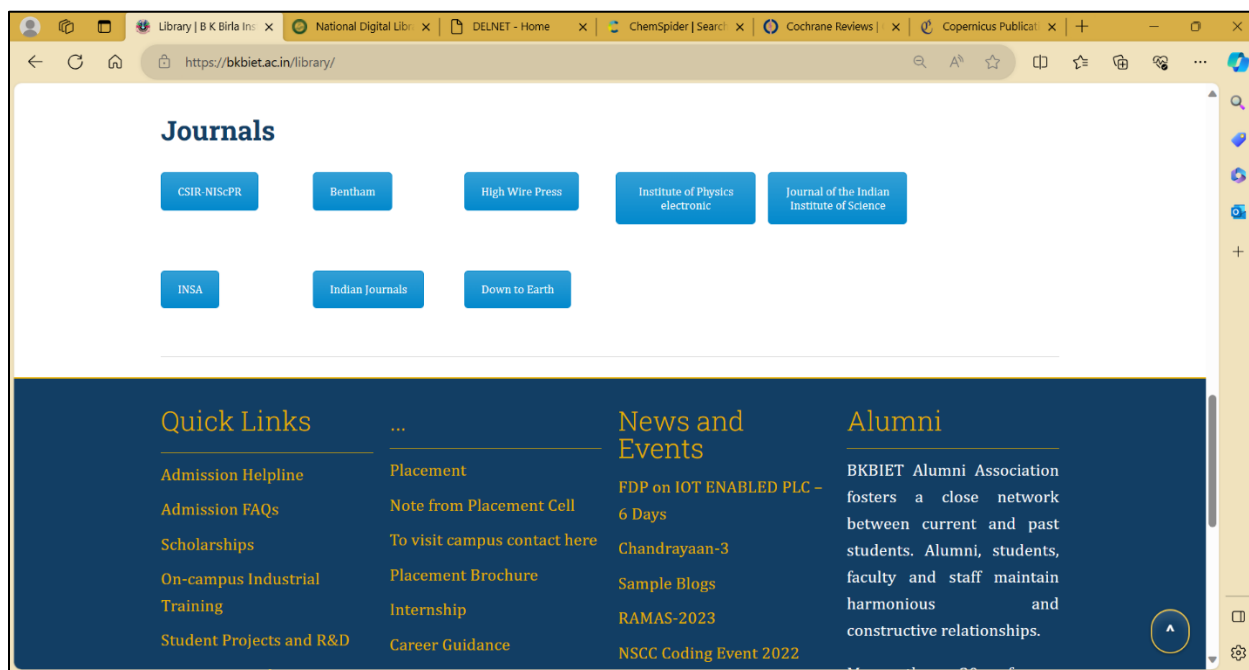
NDLI DELNET ChemSpider Cochrane Library Copernicus Publications

Current Science DOAJ High Wire Press Archives Indian Academy of Sciences (IAS) InTech Open Access

J-Stage MathWorld PLoS SabiNet Scientific Research Pub

Friends Science Publishers Oercommons MIT-OCW DOAB NDUTD

5. Online links on BKBIET Website for Online journals for Students & Faculty



Identified curriculum gaps:

S. 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	The principles of artificial intelligence and their application

	transformation in Engineering	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	Cyber Crime	Investigating cyber-attacks by criminals. These investigations involve all areas of the Internet and online services
19	Industry Exposure	Where an engineering student is put through real-life work situations.
20	Soft skill developments	Combination of people skills, social skills, communication skills, character or face-to-face are generally more successful
21	Web design Training	Creative and technical skills for planning and building
22	New 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
23	Health Awareness	Awareness of disease and symptoms is essential for screening and early detection.
24	Voting Rights and awareness	Voting is a fundamental right that every individual should exercise

Delivery details of the content beyond syllabus for the attainment of POs and PSOs

Session 2022-23

S.No	Gap	Action taken	Date-Month-Year	Resource Person with designation	% of students	Relevance to POs, PSOs
1	Trends in CS and IT	Workshop on AI and ML	16-1-2023	Dr. Nimish Kumar, HOD	50	PO1, PO2, PO3, PO5, PSO1, PSO2
2	Creative Skills	Coding competition	07-2-2023	Dr. Nimish Kumar, HOD	60	PO1, PO2, PO3, PO4,

						PO5, PSO1
3	Creative skills	Seminar on Artificial Intelligence	21-2-2023	Dr. Nimish Kumar, HOD	30	PO1, PO2, PO3, PO5
4	Startups	Webinar on Startups and Business Strategies	23-06-2023	E-Cell, BKBIET	70	PO11, PO6, PO8, PO10
5	Industry exposers	Seminar on Creating an Ecosystem in Educational Institutions	16-03-2023	Mr. Reetesh Gautam, Placement Coordinator	20	PO6, PO10
6	Recent trends	International conference on Recent Advancements in Mathematical and Allied Sciences	25-03-2023	Dr. Vipin Kumar, Associate Professor	10	PO1, PO6
7	Technical skills	Workshop on Python programming	01-04-2023	Dr. Nimish Kumar, HOD	50	PO1, PO2, PO3, PO4, PO5, PSO1, PSO3
8	Technical skills	Web development workshop	02-04-2023	Dr. Nimish Kumar, HOD	70	PO1, PO2, PO3, PO4, PO5, PSO1, PSO3
9	Technical skills	Hackathon -2023	04-04-2023	Dr. Nimish Kumar, HOD	50	PO2, PO3, PO4
10	Technical skills	GitHub and open-source workshops	13-04-2023	Dr. Nimish Kumar, HOD	40	PO2, PO3, PO4, PSO1
11	Technical skills	Organized 3 day flutter development	16-04-2023	Dr. Nimish Kumar, HOD	10	PO1, PO2, PO3, PO4
12	Creative skills	Newton School coding club organized 2.5 hours coding competition.	01-09-2022	Mr. Vipin Saraogi, Assistant Professor	20	PO1, PO2, PO3, PO4
13	Creative skills	6 Days Workshop on Skill Development Program (SDP)	02-09-2022	Dr. Santosh Jangir, HOD	10	PO1, PO2, PO3, PO4, PO5, PO8, PO10
14	Creative skills	Coding Contest - Newton School coding Club	28-09-2022	Mr. Vipin Saraogi, Assistant Professor	20	PO1, PO2, PO3, PO4
15	Creative skills	2-day workshop Introduced to the interface of Figma.	01-12-2023	Dr. Nimish Kumar, HOD	30	PO1, PO2, PO3, PO4, PO5, PSO1

Note: Details of 2021-22 and 2020-21 attached in criteria 2.1.2

Online Certification courses done by CSE students in Session 2022-23

S. No	Univ. Roll No.	Student Name	Course Name	Course Certificate Link
1	18EBKCS006	Abhishek Sharma	MySQL Basics	https://drive.google.com/open?id=1N2fSJ_mDh53WkNYHeMXs_11sXydvvy09o
2	18EBKCS063	Manthan Jitawat	Learning of Phyton	https://drive.google.com/open?id=15vs4B_JXs7-P_uqQ1YPxLFJgiu8qZI5t
3	19EBKCS004	Abhinav	Salesforce Developer	https://drive.google.com/open?id=1AOfmEnw4D9-Xx_gfpTe7dfBVVWJp0-1o
4	19EBKCS005	Abhinav Bhankharia	Kaggle Python	https://drive.google.com/open?id=1H697RXNLX1s8aR_NmCQ4Q6CtMzKgrB7t
5	19EBKCS006	Abhishek Pandey	HUMAN VALUES SYSTEM	https://drive.google.com/open?id=141XtxVoTvKflthBOSEoto31WDdUx1m43
6	19EBKCS006	Abhishek Pandey	ANDROID APP DEVELOPMENT	https://drive.google.com/open?id=1gpnWraEjZtbAvVCEHI5a9biTjPgBq6jC
7	19EBKCS010	Adarsh Sharma	Core java and dsa	https://drive.google.com/open?id=1LtDHLhpCB2zfoW1tLRdT4W7R90n2eL4q
8	19EBKCS011	Aditya Pratap Singh	Kaggle Python	https://drive.google.com/open?id=1aoVrR-HUUBihW71eVTjFLPt2UIGqqo1N
9	19EBKCS018	Aniket Kumar Sinha	PL 900 - Microsoft Power Platform Fundamentals	https://drive.google.com/open?id=1cXtmXGEjwi-arJnucXWh-tbo2sCBSyd
10	19EBKCS022	Anuket Kumar	Android Development Internship	https://drive.google.com/open?id=11OzI3dg6C0i0P-AE1JE1OgPrZfbxfpkz
11	19EBKCS023	Aryan Bhargaw	Java DSA	https://drive.google.com/open?id=1FoVtBi072ieGhanr0a_6b5TBnHvyKWW9
12	19EBKCS029	Bangarwa Priyanka Krishan	Software Developer Engineer Intern	https://drive.google.com/open?id=1rH8x87WPvsFYk0E5ewCjNsGlls_rYk17
13	19EBKCS033	Darshan Pawar	Android Application Development	https://drive.google.com/open?id=1CxU1CXs7pwRvojf5X1u7cQ9w8hlqm8U
14	19EBKCS037	Divyanshu Kumar Pandey	Internship	https://drive.google.com/open?id=1eMfcBiGE7aYM8mAwtbGMagGWhQpOdu32
15	19EBKCS038	Durga Shekhawat	Face Detection with openCV in python	https://drive.google.com/open?id=1iaLcwpaipiigYOI231vEvq8JWGSruMns2
16	19EBKCS039	Fardeen	Bootcamp in c, cpp, DSA and IoT	https://drive.google.com/open?id=12PR2Q6TYW2CpJFb_gaNqOvWSJIdgIk5q
17	19EBKCS043	Govind Saini	Ultimate Ethical Hacking and Penetration Testing	https://drive.google.com/open?id=1Ge8WBVnPOfSSBvaqr_SVZScwtVJEZxhR
18	19EBKCS044	Harsh Choudhary	Internship: Recobee	https://drive.google.com/open?id=1uZdVTGfWU2yiSV_ZLiEHikJpqkZSLQ19
19	19EBKCS051	Jayshree Dadheech	Databricks Accredited	https://drive.google.com/open?id=1iBD3Pqqm5sIkLPAAEIXP-mbVDUivvsya6

			Platform Administrator	
20	19EBKCS053	Kaddafee Khokar	ISC ² - Certified in Cybersecurity	https://drive.google.com/open?id=13_L9aJDd7AILn2YaYtfEwBBQa2H0Bec
21	19EBKCS054	Kalyan Krishna Reddy M	Java	https://drive.google.com/open?id=1spR2pK0IpRoT74xQJFg6MIPWFUbT4zlx
22	19EBKCS055	Karishma Verma	Artificial Design in Web Design + Live Class	https://drive.google.com/open?id=16qirCQm_8Pe3cAFBa_MZzp9yCnCsJ21J
23	19EBKCS058	Kritika Devli	Apple macOS and iOS system administration	https://drive.google.com/open?id=1PCkRAI7Oo ooYtOSJRhfj_uFWBGYxqRRK
24	19EBKCS061	Mahipal Singh Rawat	Javascript, Bootstrap and PHP	https://drive.google.com/open?id=1MKotLMcsc-czB0bEAzNJLDBNQUkX_uhR
25	19EBKCS064	Mehak Srivastava	Linux commands line bootcamp	https://drive.google.com/open?id=1TTaEWvsLC5WkDALZ-1IeX-NhqH7IzJpN
26	19EBKCS065	Mehant Kumar	Python Programming	https://drive.google.com/open?id=1IMokxnn422TGmRkC6_H9WTnjP_y3vn37
27	19EBKCS076	Palak Gupta	IT System administration at Secure meters	https://drive.google.com/open?id=1lfm5M92xw pquAqefqyIn4ETVCMXvhONR
28	19EBKCS079	Payal Gopalka	The complete Python programming course from UdeMy	https://drive.google.com/open?id=1vyFboxYXWORvS0nZxfI9Ors0kvsTLYO4
29	19EBKCS081	Pinki Kumari	Data Structure in C++	https://drive.google.com/open?id=148ipELXVyDfBdKm6rZbzlmnuB78FsZAa
30	19EBKCS082	Piyush Latta	The complete Python programming course from UdeMy	https://drive.google.com/open?id=1rqetvP8srB9LC5OY84jpVC6ppS4rPmX9
31	19EBKCS086	Preeti	Data Structures in JAVA	https://drive.google.com/open?id=1HcX6VXgQMo5hLS3sq3NsgjzvBzU1Vfu4
32	19EBKCS091	Rahul Saini	REACT DEVELOPER	https://drive.google.com/open?id=1RKNCTE0wl3kicBenYOrZ7AHU8X0kL8kC
33	19EBKCS092	Rahul Singh Gopalka	MICROSOFT SOFT SQL SERVER FOR BEGINNERS	https://drive.google.com/open?id=1GIrO_m_Wunu7U4wkuBb-050j_s6MqV1E
34	19EBKCS094	Ravi	Core Java Training	https://drive.google.com/open?id=1x1MWcn9O00FKO1MhjpwmuRZdg3rwbQej
35	19EBKCS104	Shubham Sharma	HTML	https://drive.google.com/open?id=1fodcjSj9av7En5qOlbvQOABrPEzGNn7J
36	19EBKCS105	Shubham Singh	Java certification course	https://drive.google.com/open?id=1GCvZX11QjC1GRpDnmQX0ksl7kxP_c1IK
37	19EBKCS110	Tanmay Molasaria	Core Java and DSA	https://drive.google.com/open?id=1LLzGq00bUITOXml8B8b8ikbXne7kaIrF
38	19EBKCS117	Varun Bhutada	Linux power user	https://drive.google.com/open?id=1pw8XhwmAxU_W30qhLdrPndvJ3ITgzyWF

39	19EBKCS124	Vivek Lohiya	PostgreSQL database and ASP.NET core	https://drive.google.com/open?id=1aZqVbvfRmuG_Ns-MJNjeEEECBbYqHmT1
40	20EBKCS001	Aayush Sharma	C++ Tutorial	https://drive.google.com/open?id=1AfWW5IjYgAcmiAjL6jc6UctwGQrwCKG
41	20EBKCS004	Aditya Agarwal	React - The Complete Guide (incl Hooks, React Router, Redux)	https://drive.google.com/open?id=19ky4wjhgjYWWFDu7THkmcXXsM_eE8to
42	20EBKCS006	Amit Kumar	The Full Stack Web Development Bootcamp 2023 - MERN STACK	https://drive.google.com/open?id=1NzRkLgpIt2LWjOaXvIOM_iX6l3zib-QY
43	20EBKCS007	Amit Singh Mokawat	The Complete Android Ethical Hacking Practical Course	https://drive.google.com/open?id=1xJonZZb6pin_m48nrDAD5NXMvpqTDKW2
44	20EBKCS008	Amitoj Singh	Python for beginners	https://drive.google.com/open?id=1dJB98F2-m5k4nQXohUC15q8Z35JYWXuf
45	20EBKCS010	Anish Kumar Srivastav	Android App Development	https://drive.google.com/open?id=1wQn3MHV4sDxKzywRvJIDcznd6H1WY0LX
46	20EBKCS012	Anjali Swami	C++:learn the essentials	https://drive.google.com/open?id=1R_pZuktp2_Og-jrLFGzDcCR0Iw2nPbF
47	20EBKCS013	Ankit	web development intern at TwiLearn Edutech Pvt.Ltd	https://drive.google.com/open?id=1cXLTxMGCYVp9NHLIPFdkvP5lxgtpXO_y
48	20EBKCS014	Ankit	Java Data Structures & Algorithms + LEETCODE Exercises	https://drive.google.com/open?id=1AO-c4LanYMX0bxf4q5o6D2Z6J2V7FaiU
49	20EBKCS017	Ankit Singhal	ADVANCE SOFTWARE ENGINEERING	https://drive.google.com/open?id=1uQNU7zDiMBX0ZMJ-UD-6ivmbwNPdVerU
50	20EBKCS019	Ankur Thakur	IoTcon workshop	https://drive.google.com/open?id=1T5Gut4DXkCUYIHjV5Ovg-ySqpl64gPBH
51	20EBKCS021	Anuradha	Learn python programming beginner to master	https://drive.google.com/open?id=1-GQ_7ESLQU8GR9CC8YQrllUyBEFeDNEG
52	20EBKCS022	Arhaan Khan	Foundations: Data, Data Everywhere	https://drive.google.com/open?id=1OUtPPJinf7tPF8wJoCxFX_vHPZy6ZD2D
53	20EBKCS024	Aryan Tomar	DBMS	https://drive.google.com/open?id=1vTP45jQfAwRKjD3W3CwZXd_R8gEjjvWk
54	20EBKCS026	Ayush Sharma	Ethical Hacking Essential	https://drive.google.com/open?id=1qMRhrVTiuUURUyI8Eb9ChNIyB7kKAwD
55	20EBKCS031	Davesh Kataria	Web development bootcamp	https://drive.google.com/open?id=1u4ILRO92r7OK0CiSQMEA4-y_Yu1EgYor

56	20EBKCS032	Deepak Panwar	Excel Essential Training (Microsoft 365)	https://drive.google.com/open?id=1pXZDZhTKaVDjoy1-Vv5uaEiIRABKmjIW
57	20EBKCS033	Deepak Verma	Foundation of User Experience	https://drive.google.com/open?id=1CmM86yt1CluwExQvxGckCEG--fSsWe4t
58	20EBKCS039	Divyam Thapliyal	The Complete Javascript Course	https://drive.google.com/open?id=1Peefhv5yoAAlfVHpEc8X32tGxh-Y6528
59	20EBKCS041	Gaurav Mandiwal	Data science 101	https://drive.google.com/open?id=12Le3-kMOTJVYUQQMnbTYwAn44KvCO6Ft
60	20EBKCS042	Gourav Singh	React - The Complete Guide (incl Hooks,React Router,Redux)	https://drive.google.com/open?id=1_nle_GA6x0R10K5kmAqVTj2P6Ka-PpAR
61	20EBKCS045	Harsh Sharma	Introduction to Cybersecurity	https://drive.google.com/open?id=1j9p-iCNMQrGKAcbE7rQi155AWtMVo8i
62	20EBKCS048	Harshita Sharma	Web development training	https://drive.google.com/open?id=1LYAvTJWFPM1XJjNG1iWG-xZt7LakPh6R
63	20EBKCS051	Ishaan Sharma	Machine learning	https://drive.google.com/open?id=1ELOoYW9vypFkv64MsWF8-m8SNQ3_tArA
64	20EBKCS053	Jatin Rathore	The MERN Stack	https://drive.google.com/open?id=1kAAv-xdn_6EstVpB41xNdvwa7JAI96bc
65	20EBKCS054	Karan Kumar	Mobile Development	https://drive.google.com/open?id=1DspWjSmYEwyc3jy1BastxqrDUAzOsWcv
66	20EBKCS060	Lamba Lakshya Rajpal	iOS & Swift - The Complete iOS App Development Bootcamp	https://drive.google.com/open?id=1hEcM1Kib2U0nslun5njcbySSHgiZViv
67	20EBKCS063	Manish Kumar Saini	Android Application Development	https://drive.google.com/open?id=1g740S4_Rw6Qu_xyW6nqW4Ldzl-WXYPfe
68	20EBKCS065	Manjeet Agarwal	Python for machine Learning	https://drive.google.com/open?id=1Hx7uj6TZjYJI_A8TKaEYXdo8AOT5CM_1
69	20EBKCS066	Manmohan Singh Shekhawat	Data Structures in C++	https://drive.google.com/open?id=18ogT-AZiN0Kw_IQ-3u7zvCN2HbBv_mP3
70	20EBKCS066	Manmohan Singh Shekhawat	Android app development course	https://drive.google.com/open?id=1GjQMHsgFP6mfmtVp87nSF14NGCzB0TTW
71	20EBKCS067	Manthan Saini	Data Structures in C	https://drive.google.com/open?id=1Hm-psC3Uj_JOUmJpCKaPt0elSI78Ba4C
72	20EBKCS068	Manvi	Front end developer	https://drive.google.com/open?id=14_OKcacbxIJTCv2G_s8Zqi8z4jwIxBuc
73	20EBKCS072	Mohit Maini	3-D Game Development Unity C#	https://drive.google.com/open?id=1wCVtXho2eDgw18LSb9dx2EnStPHP585v
74	20EBKCS074	Naivedhya Singh	Advanced Cyber Security Threats and Governance	https://drive.google.com/open?id=1jB6I5eP58sgCe14J4Sy3UE7eK9vJStLP
75	20EBKCS075	Naman Gupta	Complete JAVASCRIPT with HTML5,CSS3	https://drive.google.com/open?id=1lZIt7j80vOQCneza-X3QmX2FQqkDbwLf

			from zero to Expert-2023	
76	20EBKCS076	Navartna Jangir	Web Development	https://drive.google.com/open?id=1Y9HR7hwORYAJTugqY2wo8OP7EAYXNsDd
77	20EBKCS079	Nisha Jangir	Java Programming	https://drive.google.com/open?id=1sP-NsXY3SbmSjyY-iL3uEgo2QLNENOKa
78	20EBKCS080	Piyush Nirwan	BASICS OF JAVA	https://drive.google.com/open?id=1kk0NvcjoHmfkqpwDG3_e71ub5bztSdyr
79	20EBKCS082	Pooja Kumari	Web development	https://drive.google.com/open?id=1414NIUBDuT6Lr_bOzl2CN8YrBmqeQGQO
80	20EBKCS084	Pooja Soni	Accenture Data Analytics & Visualization Job Simulation	https://drive.google.com/open?id=12IWDu6EXLhR5sTbICf_KGpgv9gDwzjTV
81	20EBKCS084	Pooja Soni	Web Development Training	https://drive.google.com/open?id=1LjyGrOgbkayNwt4CYo_sImUbXbVdE-Ny
82	20EBKCS087	Prashant	Android App Development	https://drive.google.com/open?id=1uNsVZu_Dk8pgvXh_JowuFY00aYQ-t-gE
83	20EBKCS090	Preeti Saini	Android app development	https://drive.google.com/open?id=19aVWk4BDjFNFIzxfK6jL4JeUEsOytHJY
84	20EBKCS096	Rajat Purohit	React developer course	https://drive.google.com/open?id=1j_NqMZ8Z88_feXQdo5jOKr2wgJtZE2MK
85	20EBKCS100	Ritika Kumawat	Data structures and algorithms	https://drive.google.com/open?id=1ub91xYwsrpuv5RUj2zy6MGGHLBRf6wMv
86	20EBKCS101	Ritu Choudhary	How to create an animated promo video in powerpoint	https://drive.google.com/open?id=17tsQoZ2Zw4EP1fs6HTVM7cZYA-uPdKHJ
87	20EBKCS102	Robin Maan	Java Programming	https://drive.google.com/open?id=1P5X7vvGdsWYQeED1F0_NzkEKfvCDXobz
88	20EBKCS105	Samarth Goyal	Data Analytics	https://drive.google.com/open?id=1fp-JFzcUXdDa20LO65MtmwXzGWRto-wd
89	20EBKCS106	Sankalp Haritash	Database with python	https://drive.google.com/open?id=1QyKWZD9iJY7K31HmqFjCkMbyTCphxseA
90	20EBKCS107	Sankalp Jain	Software engineering by Goldman Sachs	https://drive.google.com/open?id=1OgN6wEdUQVlido1SGI90Rk5LNqZBy7zW
91	20EBKCS108	Sankalp Rawat	Javascript	https://drive.google.com/open?id=1_b_DxGjoJYhE2PE87oYPqGa4H-QApxOO
92	20EBKCS110	Shalini Rathore	Web development	https://drive.google.com/open?id=1j4GhzteuoFZENbGT_mXLjIzuBpxQ75KZ
93	20EBKCS112	Shristi Agarwal	Portfolio Website using HTML and CSS	https://drive.google.com/open?id=1hkKW_jpmlvXgft1HN_kb19b6DWCzoNII
94	20EBKCS112	Shristi Agarwal	Data structures and algorithm	https://drive.google.com/open?id=1LaKQzotMeIWNPV-F13L6CXNmivXTQM02
95	20EBKCS113	Shruti Agarwal	Cloning Facebook using HTML & CSS	https://drive.google.com/open?id=1iM1iDoQPvbZn6gtQpbMXmlvPxo_fp_u

96	20EBKCS114	Singh Bhupander	Ultimate Adobe Photoshop CC MasterClass	https://drive.google.com/open?id=1YGwY25nwWxAFL8Z5rH3QnaQMIOBi_Mhv
97	20EBKCS118	Sunil Kumar	The Ultimate MySQL Bootcamp: Go from SQL Beginner to Expert	https://drive.google.com/open?id=1YMUwU8447EwnJTY8ip87gq05a6UPPk4O
98	20EBKCS123	Utkarsh	Cyber Security Internship with E-Cell IIT Hyderabad	https://drive.google.com/open?id=1rAfGd8Ek248BEz_nRPVhOoedDczddpMP
99	20EBKCS125	Vikram Kumar	SQL Bootcamp Beginner to Advance	https://drive.google.com/open?id=14nFaecKq13DcW0tVODrBUryeXcpRLOp5
100	20EBKCS126	Vinay Pratap Singh Rathore	Data science and machine learning	https://drive.google.com/open?id=1tzN9kl-tA2w68il2QqAnVTVdlA7Qw1Y6
101	20EBKCS127	Vishal Jha	Data Visualization	https://drive.google.com/open?id=1HxuKY99iDXqLrseMYr12nUYWpRLQCaA
102	20EBKCS130	Yogesh Jangir	Java Programming Masterclass	https://drive.google.com/open?id=1-vsH-4hhTRMYMBbRA8nllRnDWdGUU3o
103	20EBKCS203	Anurag Somani	Core Java	https://drive.google.com/open?id=1PmhSXXKmpN4VIQ9NdENjWZlffB-HGkON4
104	20EBKCS204	Ashish Sharma	NodeJs	https://drive.google.com/open?id=18Iy5YatihSP EVw9G8hfg2Q0_5aXIDUGo
105	20EBKCS207	Moh Tabir	Web development	https://drive.google.com/open?id=1btb-prmAED0BXQULbunQA6c3HavW5hL4
106	20EBKCS208	Nitin Sharma	Web Development Boot Camp by Udemy	https://drive.google.com/open?id=1i4IDreeLHgbKRh2YLEBFoy7aPeXBEqRA
107	20EBKCS212	Shubham Sharma	Web development	https://drive.google.com/open?id=1W7eqrvRJKiploi4wVmKQwvjpFzskGIWq
108	20EBKCS300	Saurav Gariya	JavaScript	https://drive.google.com/open?id=1gUzWBfSC7Rw0weI8OLgU5xUgp23jvSPw
109	21EBKCS006	Aditya Sharma	Introduction to Programming in C - NPTEL	https://drive.google.com/open?id=1Pd3Rrxh0P17kJXW1T-1vESXnPOM5OdbH
110	21EBKCS015	Ankit Sheoran	DSA IN JAVA	https://drive.google.com/open?id=1pOO4ifD9t5rAQuXv0a_0WxhPzQBPV9AG
111	21EBKCS017	Anuj Kumar	Web Development	https://drive.google.com/open?id=1fLMY7VZM8XZnsMeR4nM1egMg5IJFpfXv
112	21EBKCS021	Bhavuk Gaur	Java collection Framework+ Generics, API	https://drive.google.com/open?id=1nijnQ9AVjj0VY4m8wpl9ylv2Wjpp-BjQ
113	21EBKCS022	Chahana Singh	Introduction to Graphic design with photoshop	https://drive.google.com/open?id=1s5EjcksL3CTgG4_swTjMfX0sIMEIGjPP
114	21EBKCS024	David Kumar	The complete python bootcamp from zero to hero in python	https://drive.google.com/open?id=1HlmTrGkB NPbV-2frxsHneW9KO5bgejmM

115	21EBKCS037	Geetanshu Shukla	Python Programming	https://drive.google.com/open?id=1FpOQ_q8Y_oq8SzN5n7pMRN9vmQDLnQ1a
116	21EBKCS062	Mohit Yadav	C++ tutorial	https://drive.google.com/open?id=1BcLtmTa-0hxpSL96mXSN1Gf1NjRt8oAN
117	21EBKCS065	Mukul Sharma	Machine Learning with Python	https://drive.google.com/open?id=1-aFEoruXktR1wQovJJIdU_C_ey7dCmYz
118	21EBKCS066	Naman Agarwal	Web Development	https://drive.google.com/open?id=18vTNurUY_AhAvbr2SNTOG-FjvLsADcGP
119	21EBKCS069	Nidhi Agarwal	Python for beginners	https://drive.google.com/open?id=1OJMi5cAsizUo76PcAUCGebCH4D5LgRwd
120	21EBKCS071	Nikita Saini	Google analytics for beginners	https://drive.google.com/open?id=1nyE7sUEHa_91baw66RUdZGMGY2NmQFmM
121	21EBKCS076	Prabhat Sharma	Adobe Premiere Pro CC 2023: Video Editing for Beginners	https://drive.google.com/open?id=1zYsAZDfQxIKwQjSaWMrf120GL2vjyEgo
122	21EBKCS079	Pulkit Poonia	The Complete 2023 Web Development Bootcamp	https://drive.google.com/open?id=1-eaiJ3wDHHRgeM5aK7xImgorgPUkvjI
123	21EBKCS084	Rekha	International cyber conflict	https://drive.google.com/open?id=1PHSgrZWUn0d4JyDMAcOusb1eXG5JZKjc
124	21EBKCS085	Ritika Kirodiwal	UI/UX Design	https://drive.google.com/open?id=199qEFl_sAXGPpGlu5KIURtGaxaAX1ghc
125	21EBKCS086	Riya Jangid	Oasis infobyte internship	https://drive.google.com/open?id=1mM42NZOzxEHM6fJe5M8YPynDe3nIIILU
126	21EBKCS088	Rohit Sharma	C Programming in Hindi	https://drive.google.com/open?id=1wCTuaTr1dKkyopW1DdRh79Tkk1h3vm8c
127	21EBKCS091	Sanchay Sharma	Oops in java	https://drive.google.com/open?id=1IL_NMqo-lpD5KKUURCXLZjK542SKdeA2
128	21EBKCS092	Sandeep Sharma	Python Programming	https://drive.google.com/open?id=1TgWlmgZaiyf0O7J5Yksjck5qCPI3rWLI
129	21EBKCS093	Satyarth Prakash Rai	Responsive Web Designing	https://drive.google.com/open?id=1VWcZueqmgahIN-iuJ45o8zM8IVxIQdE
130	21EBKCS095	Shivanka Vajpayee	Program in Cyber Security	https://drive.google.com/open?id=1j0PBa-r9rvzoUYpgRiHUCvIHEBQqsE0T
131	21EBKCS100	Sourabh Sharma	Business Analysis A to Z Masterclass	https://drive.google.com/open?id=161K_hpuHKlxtUKNG_kkOS3mMT9ZJ7Jp0
132	21EBKCS102	Tan Singh	Data Structures in C	https://drive.google.com/open?id=1tBzjdMNkmSepRvKGKZdLiDidXJ24Ltdv
133	21EBKCS106	Tushar Kumar	The Ultimate MySQL Bootcamp	https://drive.google.com/open?id=1gwPVHFzxcSHDuhiv8yW01q3uCZLuiPVv
134	21EBKCS109	Vansh Sonaniya	Learn to code with python	https://drive.google.com/open?id=1UmPa3HSV_Uf0YERWwDJuC_pkO9b7L3EY1
135	21EBKCS112	Vinita Giriya	Basic Of Java	https://drive.google.com/open?id=1deEON2hskFgxV_JWViPRg7AlkB-d85mY
136	21EBKCS113	Vishant Jangir	PYTHON FUNDAMENTALS	https://drive.google.com/open?id=1DfWyw-L9CAme68FOPatfFR1ISQXXDzBZ

137	21EBKCS115	Vivek	Web Development	https://drive.google.com/open?id=1Rc84Ape835kV85hHNGH-uEp9kn9CwYEu
138	21EBKCS117	Yash	Java programing	https://drive.google.com/open?id=1UKVtHXHyMbkIyxBblbK0AHTJCvGp_duO
139	22EBKCS203	Manoj Jat	Learn c++ programming Beginner to advance -Deep Dive in c++	https://drive.google.com/open?id=1VMHcI9qpvbhbqfplDxq37X9Y9giygZXv
140	22EBKCS204	Mohit Kumar Mittal	HTML Tutorial	https://drive.google.com/open?id=1L0CWMHAEYInASOABhsjeL-svfngT1ilj
141	22EBKCS205	Naresh Kumar	Python	https://drive.google.com/open?id=1oTSk03J25B6GUTHvSN6L2Q-7czBprqPs

Note: Details of 2021-22 and 2020-21 attached in criteria 2.1.2

Meritorious students are rewarded to foster the spirit of competition and encourage merit.



University Gold Medalist and Topper in BKBIEET Alumni Honors Ceremony

The felicitation ceremony was organized on 8 April 2023 at Pilani, BK Birla Institute of Engineering and Technology. The program was inaugurated by the Chief Guest BITS Pilani Director Professor Sudhir Kumar Barai by lighting the lamp. At the beginning of the program, the director of the institution, Dr. SM Prasanna Kumar, GM Commercial KK Pareek and Principal Dr. Anil Kumar Sharma honored the principals and guests of all the schools present.

Institute media in-charge Keshav Khandelwal informed that the function felicitated gold medalists Prema (Information Technology) and Manish Kumar (Mechanical Engineering) and topper students of BKBIEET College for their academic performance and for achieving higher placement package for 2018-22 batch. The students were rewarded for

Under the programme, Chief Guest Prof. Sudhir Kumar while addressing the students said that there is no substitute for hard work, be honest with yourself and take a pledge for yourself today that we have to educate a child on the strength of our education. And congratulations to all the winners.

On this occasion, BKBIHE Principal Bina Narayan, BTTI Principal Manoj Gaur, Municipality Chairman Hiralal Nayak, Jamuna Mishra Academy Chairman Suman Mishra, CA Manish Agarwal, Manager Birla Haveli Pilani Mr. Ashok Tola, Social worker Pilani Mr. Pawan Jakhodia, PPS Pilani Founder Mr. Jagdish Prasad Sharma, social worker Pilani Mr. Rajendra Prasad Dada, Principal of Birla Public School Capt. Alokesh Sen, Principal of RK Birla School Pilani Mr. Aditya Saraogi, Jamuna Mishra Pilani Principal Dr. Buma Natarayan, Principal of Adarsh School Pilani SC Bohra, Mr. Gayatri Principal of Senior Secondary School Chandgothi Mrs. Manisha Saini and Principal of Durga Public School Pilani Mrs. Punita Sharma were present. In the end, program in-charge Dr. Smita Pareek thanked the chief guest, principals of schools, guests and journalists present.



सीकर, झुंझुनु, पूर
 34.9°
 38%
 20.8°

CM K

शेखावाटी सन्देश

3

स्वर्ण पदक विजेता वाले विद्यार्थियों का किया सम्मान

पिलाणी (बीकेबीआईटी) में 2022-23 की स्पर्धात्मक प्रतियोगिता में विजेताओं को सम्मानित किया गया। कार्यक्रम का आयोजन विद्यालय में हुआ।

इस अवसर पर प्राचार्य विद्यालय ने विजेताओं को सम्मानित किया। कार्यक्रम में विजेताओं को स्वर्ण पदक और प्रमाणपत्र प्रदान किया गया।



विद्यार्थियों को उनके विजेताओं को सम्मानित किया गया।

इस अवसर पर प्राचार्य विद्यालय ने विजेताओं को सम्मानित किया। कार्यक्रम में विजेताओं को स्वर्ण पदक और प्रमाणपत्र प्रदान किया गया।

विद्यार्थियों को उनके विजेताओं को सम्मानित किया गया। कार्यक्रम में विजेताओं को स्वर्ण पदक और प्रमाणपत्र प्रदान किया गया।

बीकेबीआईटी में स्वर्ण पदक विजेता और टॉपर छात्रों का सम्मान



पिलाणी (बीकेबीआईटी) में 2022-23 की स्पर्धात्मक प्रतियोगिता में विजेताओं को सम्मानित किया गया। कार्यक्रम का आयोजन विद्यालय में हुआ।

इस अवसर पर प्राचार्य विद्यालय ने विजेताओं को सम्मानित किया। कार्यक्रम में विजेताओं को स्वर्ण पदक और प्रमाणपत्र प्रदान किया गया।

विद्यार्थियों को उनके विजेताओं को सम्मानित किया गया। कार्यक्रम में विजेताओं को स्वर्ण पदक और प्रमाणपत्र प्रदान किया गया।

पत्रिका

विश्वविद्यालय में अब्बल रहने वाले विद्यार्थियों का सम्मान



पिलाणी, बीके बिरला इंस्टिट्यूट ऑफ इंजीनियरिंग एंड टेक्नोलॉजी में प्रतिभावान विद्यार्थियों का सम्मान किया गया। महाविद्यालय में आयोजित कार्यक्रम में बिट्स पिलाणी के निदेशक प्रो. सुधीर कुमार बरई मुख्य अतिथि थे।

SKJ Jewellers
 VAISHALI NAGAR
 0147-4005001
 VIDHYADHAR NAGAR
 0147-2629777

परीक्षा में सर्वाधिक अंक प्राप्त करने वाली प्रेरणा एवं मैकेनिकल इंजीनियरिंग विषय में सर्वाधिक अंक प्राप्त करने वाले मनीष कुमार सहित विभिन्न विषयों में बेहतर अंक प्राप्त करने वाले विद्यार्थियों को पुरस्कृत किया। इस मौके छात्रा छात्राओं ने सांस्कृतिक प्रस्तुति देकर माहौल में रंग भरा। कार्यक्रम में राजेन्द्र प्रसाद डाडा, सीएम मनीष अग्रवाल, पवन जखोड़िया, प्राचार्य मनीष संजय सैनी, आदित्य सरावगी सहित ने भाग लिया।

Date: 10/04/2023, Edition: Jhunjhunu, Page: 13
 Source : <https://epaper.patrika.com/>

Feedback form links on Institute Website(<https://bkbiet.ac.in/feedback/>):

The screenshot shows the main website of B K Birla Institute of Engineering & Technology, Pilani. The header features the institute's logo and name. Below the header is a dark blue navigation menu with the following links: ABOUT BKBIET, ACADEMICS, ADMISSIONS, PLACEMENTS, INTERNATIONAL, INFRASTRUCTURE, CAREERS, CONTACT US, UPCOMING EVENTS, ACTIVITIES, NOTICES, COMMITTEES, STUDENT SECTION, and BLOGS & REVIEW. The main content area is titled "Feedback" and contains four blue buttons: "Feedback about Teaching Learning Process.", "Student Facility Feedback Form", "Student's Hostel Facility Feedback Form", and "Student Extra-Curricular Feedback Form". The footer includes "Quick Links" (Admission Helpline, Placement), "News and Events", and "Alumni" (BKBIET Alumni Association).

The screenshot shows a Google Forms page for the "Feedback about Teaching Learning Process" form. The header includes the B K Birla Institute of Engineering & Technology logo and name, along with the tagline "An Industry-Oriented and Application-Driven Institute". Below the header, it states "Approved by All India Council for Technical Education and Affiliated to Bikaner Technical University Category 'A' Institute as per QIV declared by Bikaner Technical University for Session 2020-21". The form title is "Feedback about Teaching Learning Process". The form content includes the Institute Vision: "Excel as an outstanding application-oriented and innovation-driven engineering institute. Inspire future Engineers to apply technology for solving real world challenges." and the Institute Mission: "Create a platform for igniting ingenuity and path-breaking engineering applications for the India of future." There is a "Switch account" button and a "Not shared" status indicator. A red asterisk indicates a required question: "Session *".

2.2	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
2.2.2	Quality of internal semester Question papers, Assignments and Evaluation	<ol style="list-style-type: none"> 1. Paper setting and its evaluation need improvement. 2. Target set course outcome is not properly justified. 3. Blooms taxonomy is not properly understood by faculty members. 	<p>Paper setting process is reassessed after the departmental meetings and brainstorming sessions with the faculty and the HOD for improvement in paper setting and its evaluation. Internal papers are set considering the CO and Bloom Level coverage for consideration in CO PO and PSO attainment. The detailed process with sample Question papers and evaluation are given in the description below.</p> <p>Target for CO attainment for previous cycle was set to 60% which classifies students above it are considered strong or fast learners and below it considered Weak or Slow Learners as how institute defines these terms. For the next cycle we have set the attainment target of COS as 65 % which defines the same classification with net target.</p> <p>To increase awareness among students and faculty multiple discussion sessions, seminars and workshop has been conducted by the CSE department to enhance their understanding of Blooms Taxonomy and rubrics for paper setting and assessment.</p> <p>1. Faculty Training Programs:</p> <ol style="list-style-type: none"> a. Hands on workshop on NBA Accreditation process and Outcome Based Education for faculty. b. Discussion about concept of Blooms Taxonomy in departmental meetings. c. Online Brochure about Blooms Taxonomy and rubrics to help faculty understand the learning outcomes and expectations of each course. (<i>On Website: www.bkbiet.ac.in, distributed on WhatsApp group</i>) d. Informative display boards about Program Outcomes (POs) and Blooms Taxonomy are put at multiple places in the institute which includes Laboratories, Library, Institute Notice Boards, Corridors etc.

Actions taken for following observations:

- 1. Paper setting and its evaluation need improvement.**
- 2. Target set course outcome is not properly justified.**

Quality of internal semester Question papers, Assignments and Evaluation

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). The tests are conducted for marks as per the university guidelines and duration is 2 Hrs.

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 -Up to First half of syllabus
 - II Mid-term- Remaining Half of syllabus
 - Improvement Test- Complete syllabus
1. 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.
 2. Faculty considers the Bloom Learning Level for setting the examination paper for the types of students to ensure learning for all.
 - One third question considering slow learners are straight forward and require basic course coverage and basic understanding. (Target Bloom Level: L1: Remember, L2: Understand)
 - One third question considering average learners need adequate content coverage and application & analytical level of understanding. (Target Bloom Level: L3: Apply, L4: Analyze)
 - One third question considering fast learners requires student to gain greater understanding, analytical thinking and implementation level. (Target Bloom Level: L5: Evaluate, L6: Create)

ii. Assignments Setting:

1. Assignments are issued to student to ensure the attainment of course objectives and Blooms learning levels.
2. Assignment is issued to all students. Bright students (scoring 65% and above in respective COs) get adequate training and average, weak students (scoring below 65% in respective COs) are encouraged to do hard work and improve attainment level.
3. Faculty set the assignment as per the test syllabus and take in consideration COs mapping. 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 discussed among students after answer sheet evaluation.
4. Marks list and Strong/ Weak student analysis report is generated including CO attainment so that weak student (Below 65% 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.
8. "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 65% 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 discussed among students after assignment evaluation. Assignments assessment is considered for CO attainment using Direct Assessment Tool.

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 and Blooms Learning Level 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. Faculties submit the Examination paper to the Exam cell. Exam cell and PAC (Program Assessment Committee) assess examination paper quality with CO Coverage and Blooms Learning Level and validates the question paper. Examination papers with inadequate quality level are sent back to faculty for revision.

Paper setting done using CO and Bloom Level is evident from the samples attached here:

B K Birla Institute of Engineering & Technology, Pilani

First Sessional Exam, 2022

B. Tech- III Year V Semester

(Branch: Computer Science & Engineering, Information Technology)

Time: 2 Hrs

Sub: Analysis of Algorithms- 5CS4-05 / 5IT4-05

Max. Marks: 30

Course Outcomes

CO1: Learn to prove the correctness, using running time of algorithms in research and able to implement divide and conquer method with its complexity analysis.

CO2: Be able to understand concept of and implement greedy method and dynamic programming and use for problem solving.

CO3: Learn to use backtracking and branch & bound algorithms and various pattern matching algorithms implementation and their complexity analysis.

CO4: Be able to understand assignment problems and randomized algorithms and explore their applications.

CO5: Study and understand about problem classes and understand their concept for proving NP Complete problems and use it in research work.

Blooms Levels: L1: Remember, L2: Understand, L3: Apply, L4: Analyze, L5: Evaluate, L6: Create

Instruction: Section A is compulsory. Attempt any three from Section B and two from Section C

Section-A (4 X 1 Marks) Section A is compulsory

Q. No	Questions	Course Outcome	Blooms Level
Q.1.	a. Compute complexity using Master method for given function: $T(n) = 4T\left(\frac{n}{2}\right) + n^2$	CO1	L3
	b. Compute Complexity for the given pseudo code: for (i=1; i < n; i++) { for (j=1; j < n; j++) { printf ("Best of Luck"); } }	CO1	L3
	c. Define Time Complexity	CO1	L1
	d. Define Space Complexity.	CO1	L1

Section-B (3 X 4 Marks) Attempt any three

Q.2.	Write Merge Sort algorithm. Apply algorithm to sort: 90, 80, 60, 70, 10, 20, 30, 40, 50.	CO1	L3
Q.3.	Write Binary Search algorithm and compute its complexity using Master Method.	CO1	L2
Q.4.	Apply Kruskal's algorithm to find the MST for the given graph step wise:		L3
Q.5.	Apply Prim's algorithm to find the MST for the given graph step wise:		CO2
Q.6.	Write Optimal Merge Pattern Algorithm. Find the Total Minimum steps to merge the given files: 80, 20, 60, 50, 70, 10, 40.	CO2	L3

Section-C (2 X 7 Marks) Attempt any two			
Q.7.	Write the Strassen's matrix multiplication algorithm. Compute its complexity. Apply it to find product of given matrices: $A = \begin{bmatrix} 5 & 4 \\ 3 & 5 \end{bmatrix}$, $B = \begin{bmatrix} 2 & 1 \\ 1 & 1 \end{bmatrix}$	CO2	L3
Q.8.	Using Greedy approach solve the given Fractional Knapsack Problem: Knapsack capacity, W_k = 20 Weight of Objects, O_i = 8, 7, 5, 8 Profit of Objects, P_i = 350, 300, 250, 400	CO2	L3
Q.9.	Explain all asymptotic notations briefly.	CO1	L1

Sample for Internal Examination Paper 1st Sessional examination

B K Birla Institute of Engineering & Technology, Pilani

Second Sessional Exam, 2022

B. Tech- III Year V Semester

(Branch: Computer Science & Engineering, Information Technology)

Time: 2 Hrs

Sub: Analysis of Algorithms- 5CS4-05 / 5IT4-05

Max. Marks: 30

Course Outcomes

CO1: Learn to prove the correctness, using running time of algorithms in research and able to implement divide and conquer method with its complexity analysis.
CO2: Be able to understand concept of and implement greedy method and dynamic programming and use for problem solving.
CO3: Learn to use backtracking and branch & bound algorithms and various pattern matching algorithms implementation and their complexity analysis.
CO4: Be able to understand assignment problems and randomized algorithms and explore their applications.
CO5: Study and understand about problem classes and understand their concept for proving NP Complete problems and use it in research work.

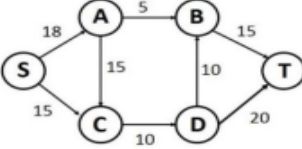
Blooms Levels: L1: Remember, L2: Understand, L3: Apply, L4: Analyze, L5: Evaluate, L6: Create

Instruction: Section A is compulsory. Attempt any three from Section B and two from Section C

Section-A (4Q X 1 Marks) Section A is compulsory

Q. No	Questions	Course Objective	Blooms Level
Q.1.	Briefly explain the following:		
	a. Decision Problems	CO5	L1
	b. Vertex cover	CO5	L1
	c. Backtracking	CO3	L1
	d. NP hard Problems	CO5	L1

Section-B (3Q X 4 Marks) Attempt any three

Q.2.	Write the NP completeness proof for Vertex Cover Problem.	CO1	L1
Q.3.	Using Ford Fulkerson algorithm find the maximum flow in the given network:	CO4	L3
			
Q.4.	What is n-Queen's problem? How to solve this for n=4 using the Backtracking approach.	CO3	L2
Q.5.	Explain the two types of randomized algorithm. Write algorithm for 2-SAT problem.	CO3	L2
Q.6.	Write Rabin Karp Algorithm and match the given pattern and text: $P = 2\ 3\ 4\ 5$, $T = 1\ 2\ 4\ 4\ 2\ 3\ 4\ 5\ 7\ 5$ and modulo $q=7$	CO3	L3

Section-C (2Q X 7 Marks) Attempt any two

Q.7.	Write the Longest Common Subsequence algorithm and find the LCS for given strings: $S_1 = A\ B\ B\ C\ O\ B$ and $S_2 = B\ O\ C\ O\ A\ B$.	CO2	L3																									
Q.8.	Write the formulation of Assignment Problem. Find the assignment and its cost for the given problem:	CO2	L3																									
<table border="1"> <thead> <tr> <th></th> <th>J1</th> <th>J2</th> <th>J3</th> <th>J4</th> </tr> </thead> <tbody> <tr> <th>M1</th> <td>18</td> <td>12</td> <td>8</td> <td>16</td> </tr> <tr> <th>M2</th> <td>14</td> <td>6</td> <td>10</td> <td>12</td> </tr> <tr> <th>M3</th> <td>14</td> <td>8</td> <td>10</td> <td>6</td> </tr> <tr> <th>M4</th> <td>8</td> <td>10</td> <td>6</td> <td>2</td> </tr> </tbody> </table>			J1	J2	J3	J4	M1	18	12	8	16	M2	14	6	10	12	M3	14	8	10	6	M4	8	10	6	2		
	J1	J2	J3	J4																								
M1	18	12	8	16																								
M2	14	6	10	12																								
M3	14	8	10	6																								
M4	8	10	6	2																								
Q.9.	Write the Knuth Morris Pratt pattern matching Algorithm. Find the prefix for the given pattern: $P = A\ B\ A\ B\ C\ A\ B$	CO3	L3																									

Sample of Internal Assessment CO Attainment Analysis:

<p align="center">B.K. Birla Institute of Engineering & Technology, Pilani Sessional Exam, 2021-22 B.Tech- III Year VI Semester (Branch: Computer Science and Engineering) Time: 2 Hrs Sub: Information Security System 6CS4-03 Max. Marks: 20</p>						
S. No.	Enroll. No.	Name	Marks Obtained in CO's	Total Marks of Cos	%Age of CO's	Below 65% in Cos
1	19EBKCS001	AAKASH NIRWAN	14	20	70	NO
2	19EBKCS002	AAKASH PAYAL	17	20	85	NO
3	19EBKCS003	ABHAY SHARMA	16	20	80	NO
4	19EBKCS004	ABHINAV	20	20	100	NO
5	19EBKCS005	ABHINAV KUMAR BHANKHARIA	8	20	40	YES
6	19EBKCS006	ABHISHEK PANDEY	17	20	85	NO
7	19EBKCS007	ABHISHEK RAJGARIA	14	20	70	NO
8	19EBKCS009	ABHISHEK VASHISHT	15	20	75	NO
9	19EBKCS010	ADARSH SHARMA	18	20	90	NO
10	19EBKCS011	ADITYA PRATAP SINGH	16	20	80	NO
11	19EBKCS012	ADITYA SHARMA	14	20	70	NO
12	19EBKCS013	AJAY GODARA	8	20	40	YES
13	19EBKCS014	AMAN SONI	13	20	65	NO
14	19EBKCS015	ANAMIKA SONI	16	20	80	NO
15	19EBKCS016	ANEESHA SHEKHAWAT	18	20	90	NO
16	19EBKCS017	ANIKET GUPTA	17	20	85	NO
17	19EBKCS018	ANIKET KUMAR SINHA	12	20	60	YES
18	19EBKCS019	ANKIT KATARIA	13	20	65	NO
19	19EBKCS020	ANKIT KUMARI	19	20	95	NO

Sample of Final CO PO and PSO attainment analysis:

Direct Attainment						Sub Code	6CS4-03							
						Sub Name	Information SecuritySystem							
CO's	SESSIONAL EXAM	ASSIGN	CO AVG	UNIV CO	CO ATT									
CO	3.0	3	3.00	0.15	2.43									
					2.43	CO AVG.								
Average of CO-PO MAPPING														
Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		
6CS4-03	2.6	2.4	2.4	2	2.2	2.2	2	2	2	2	2	2	2	
Average of CO-PSO MAPPING														
Course Code	PSO1	PSO2	PSO3											
6CS4-03	1.8	0	0											
PO Attainment of the Course														
S.No	Subject Code	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	6CS4-03	Information Security System	2.11	1.94	1.94	1.62	1.78	1.78	1.62	1.62	1.62	1.62	1.62	1.62
PSO Attainment of the Course														
S.No	Subject Code	Subject Name	PSO1	PSO2	PSO3									
	6CS4-03	Information Security System	1.46	0.00	0.00									
Indirect Attainment														
						Course Exit Survey	Faculty Feedback	Attainment						
CO's	High	Medium	low	Avg	No. of Students	CO's	Avg	Final CO Attn						
CO1	2	7	1	2.33	9	CO1	2.166667	2.25						
CO2	2	6	2	2.22		CO2	2.166667	2.19444444						
CO3	3	6	1	2.44		CO3	2	2.22222222						
CO4	3	6	1	2.44		CO4	2	2.22222222						
CO5	2	5	3	2.11		CO5	2	2.05555556						
								2.18888889	CO Avg					
Indirect-PO Attainment of the Course														
S.No	Subject Code	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	6CS4-03	Information Security System	1.90	1.75	1.75	1.46	1.61	1.61	1.46	1.46	1.46	1.46	1.46	1.46
Indirect- PSO Attainment of the Course														
S.No	Subject Code	Subject Name	PSO1	PSO2	PSO3									
	6CS4-03	Information Security System	1.31	0.00	0.00									

Actions taken for following observations:

3. Blooms taxonomy is not properly understood by faculty members.

To increase awareness among students and faculty multiple discussion sessions, seminars and workshop has been conducted by the CSE department to enhance their understanding of Blooms Taxonomy and rubrics for paper setting and assessment.

1. Faculty Training Programs:

- Hands on workshop on NBA Accreditation process and Outcome Based Education for faculty.
- Discussion about concept of Blooms Taxonomy and paper setting using CO and Blooms Level coverage in departmental meetings.
- Online Brochure about Blooms Taxonomy to help faculty understand the learning outcomes and expectations of each course. (On Website: www.bkbiet.ac.in , distributed on WhatsApp group)
- Informative display boards about Program Outcomes (POs) and Blooms Taxonomy are put at multiple places in the institute which includes Laboratories, Library, Institute Notice Boards, Corridors etc.

a. Hands on workshop on NBA Accreditation process and Outcome Based Education for faculty:

एनबीए प्राप्ति प्रक्रिया पर विशेष कार्यशाला आयोजित

पिलानी (सौमा सन्देश सं.)। चौके बिरला इंस्टीट्यूट ऑफ इंजीनियरिंग एंड टेक्नोलॉजी पिलानी के कंप्यूटर इंजीनियरिंग विभाग ने एनबीए प्राप्ति प्रक्रिया पर एक दिवसीय कार्यशाला आयोजित की, जो विशेष रूप से संकाय सदस्यों के लिए तैयार की गई थी।

इस कार्यक्रम ने संस्थान के शिक्षकों को एनबीए मान्यता प्रक्रिया में गहरी अंतर्दृष्टि प्राप्त करने का एक अमूल्य अवसर प्रदान किया। कार्यशाला का नेतृत्व कंप्यूटर इंजीनियरिंग विभाग के प्रमुख डॉ. निमिष कुमार ने किया, जिन्होंने एनबीए मान्यता के महत्व पर जोर देते हुए कहा, एनबीए मान्यता गुणवत्तापूर्ण शिक्षा के प्रति हमारी प्रतिबद्धता की मान्यता है। हमारे संकाय को



इसके ज्ञान से लैस करना यह प्रक्रिया हमारे संस्थान की निरंतर सफलता के लिए महत्वपूर्ण है। कार्यशाला में मुख्य अतिथि वक्ता, सहायक प्रोफेसर गोपाल कृष्ण प्रजापत ने एनबीए मान्यता प्रक्रिया की बारीकियों में बहुमूल्य अंतर्दृष्टि प्रदान करते हुए अपने व्यापक ज्ञान और अनुभव को साझा किया।

एनबीए कोर टीम के सदस्य सहायक प्रोफेसर हिमांशु वर्मा, प्रदीप सिंह शेखावत, गौतम जगिड़ और रमाकांत सोनी

केके पारीक और प्राचार्य डॉ अनिल कुमार शर्मा ने कार्यक्रम का आयोजन करने वाली एनबीए कोर टीम और संकाय सदस्यों के प्रति आभार व्यक्त किए, और यह सुनिश्चित करने के लिए उनके समर्पण पर प्रकाश डालते कि कार्यशाला ने संकाय सदस्यों को एनबीए मान्यता प्रक्रिया में उत्कृष्टता प्राप्त करने के लिए आवश्यक ज्ञान प्रदान किया। इस विशेष कार्यशाला ने न केवल एनबीए प्राप्ति प्रक्रिया के बारे में संकाय की समझ को मजबूत किया बल्कि शिक्षक के उच्चतम मानकों को बनाए रखने के लिए संस्थान की प्रतिबद्धता को भी मजबूत किया। यह अकादमिक मान्यता में निरंतर उत्कृष्टता प्राप्त करने की दिशा में एक महत्वपूर्ण कदम था।

- b. Discussion about concept of Blooms Taxonomy and paper setting using CO and Blooms Level coverage in departmental meetings.



- c. Online Brochure about OBE(Outcome Based Education) & Blooms Taxonomy

(On Website: www.bkbiet.ac.in, distributed on WhatsApp group)

B K Birla Institute of Engineering & Technology | NBA CSE OBE Brochure | 3 / 7 | 78%

https://bkbiet.ac.in/wp-content/uploads/NBA CSE OBE Brochure.pdf

2. Outcome Based Education (OBE)

- Outcomes based education (OBE) is a process that involves the restructuring of curriculum, assessment and reporting practices in education to reflect the achievement of high order learning and mastery rather than the accumulation of course credits" (Tucker, 2004).
- Outcome-based education is a "design down" process which moves from POs & PSOs to Course Outcomes (COs) and outcomes for individual learning experiences. Outcomes at each successive level need to be aligned with, and contribute to, the POs & PSOs.
- Outcome-based education is a model of education that deviates from the traditional focus on what the institution provides to students, in favor of making students demonstrate that they "know and are able to do" on completion of course or program.
- There is no single specified style of teaching or assessment in OBE. All educational activities carried out in OBE should help the student achieve the set goals. The faculty may adapt the role of instructor, trainer, facilitator, and/or mentor, based on the outcomes targeted.
- The OBE approach is a continuous process of education wherein the curriculum, teaching and learning strategies, and assessment tools are improved continuously.
- The OBE learning process can be stated into four steps:

a) Plan (Syllabus Writing/Review) - The Course Learning Outcomes are aligned with the GA (Graduate Attributes), PEO and Student Outcomes. The syllabi reflect strategies (learning plan) for achieving the outcomes, as well as for measuring the outcomes (assessment).
b) Implement (Course Delivery) - Carry out the learning plan and strategies planned for producing the outcomes.
c) Measure/Assess (Assessment) - Carry out the strategies planned for measuring the learning outcomes and objectives. Collect this data and analyze it to determine the results. (Assessment Phase). This phase is where feedback is obtained.
d) Respond/Improve (Continuous Quality Improvement) - Determine what needs to be changed to make improvements. These changes are the basis of new or revised outcomes and objectives for the next cycle of the process. This process can be looked at on a program or course level.

3. Bloom's Taxonomy

- Bloom's Taxonomy is a classification system used to define and distinguish different levels of human cognition i.e., thinking, learning and understanding
- The taxonomy was proposed in 1956 by Benjamin Bloom, an educational psychologist at the University of Chicago
- The terminology has been recently updated to include the following six levels of learning
- These 6 levels can be used to structure the learning outcomes, lessons, and assessments of your course.

Create: To make connections, identify new relationships, or design something new (new to you)

Evaluate: To make a judgement, determine validity of a claim, or select and defend a position

Analyze: To identify and examine components, compare and/or contrast properties, identify assumptions, or deduce

Apply: To utilize, apply or make use of

Understand: To describe, translate or restate in one's own words

Remember: To memorize, reproduce, or recognize facts

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BLOOM'S TAXONOMY Question Stems

Bloom's Taxonomy question stems is a tool for educators that will help them create and scaffold questions to meet the needs of their students. Question stems are used to generate questions that respond to each level in the taxonomy.

<h3>REMEMBER</h3> <ul style="list-style-type: none"> Can you name all the ...? Describe what happens when ...? How is (are) ...? How would you define ...? How would you identify ...? How would you outline ...? How would you recognise...? List the ... in order. 	<h3>UNDERSTAND</h3> <ul style="list-style-type: none"> Can you clarify ...? Can you illustrate ...? Condense this paragraph. Contrast ... Elaborate on ... Explain why ... Give an example How can you describe ...?
<h3>APPLY</h3> <ul style="list-style-type: none"> Can you group by characteristics such as ...? Do you know of another instance where ...? Draw a story map Explain why a character acted in the way that he did From the information given, develop instructions about ...? 	<h3>ANALYSE</h3> <ul style="list-style-type: none"> Discuss the pros and cons of ... How can you classify ... according to ...? How can you sort the different parts ...? How is ... connected to ...? How is ... similar to ...? How would you categorise...? How would you explain ...?
<h3>EVALUATE</h3> <ul style="list-style-type: none"> How would you feel if ...? How would you grade ...? 	<h3>CREATE</h3> <ul style="list-style-type: none"> Can you develop a proposal which would...?

5. Program Outcomes (PO)

Program Outcomes are narrow statements that describe what the students are expected to know and would be able to do upon the graduation. These relate to the skills, knowledge, and behavior that students acquire through the program.

Engineering graduates will be able to:

- Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals and Engineering specialization to the solution of complex Engineering problems.
- Problem analysis:** Identify, formulate, research literature, and analyze complex Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 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.
- Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of Engineering experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 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.
- 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.
- 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.
- Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the Engineering practice.
- Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings in Engineering.
- 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.

- d. Informative display boards about Program Outcomes (POs) and Blooms Taxonomy are put at multiple places in the institute which includes Laboratories, Library, Institute Notice Boards, Corridors etc.





Laboratories with Posters about CO, PO, PSO and Blooms Taxonomy in addition to Computer technology related educational posters.

2.2	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
2.2.3	Quality of student projects	Few projects were found to be running and also of good quality based on IoT etc.	The institute continues to align with prescribed standards and guidelines. The institution has identified areas for improvement and is taking proactive measures to enhance the overall quality of ongoing projects. Our faculty members are actively engaged in refining existing projects and incorporating the latest advancements in IoT and related technologies.

A. Identification of projects and allocation methodology to Faculty Members

The projects are mandatory for VIII semester students. Students make their project under the supervision of their respective Guide Faculties which carries 350 marks in University curriculum.

- 1) Head of the department identifies one of the senior faculty members as Project Coordinator.
- 2) Head of the Department and Project Coordinator constitutes Progress Assessment Committee (The committee is shown in Table 2.2.3a).
- 3) Students apply for projects in prescribed format (sample given) to the Project Coordinator.
- 4) Project Coordinator facilitates guides allotment after brainstorming session with the committee members considering the expertise of faculty and area of interest of students.
- 5) Students work under the supervision of allotted Guides.

The composition of the Progress Assessment 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 : Details of Members Involved in Project Progress Assessment Committee

Sample Performa for Project Application by students

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

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

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

Sample of student projects categorization & mapping with POs and PSOs: (Complete data available and ready to present on requirement)

S. No.	Project Name	Project Category	Student Details		POs/PSOs
1	Income Expense Tracker	Application, Service	19EBKCS001	AAKASH NIRWAN	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11, PO12 / PSO1
2	MetaX - Calorie Counter App	Application, Service	19EBKCS002	AAKASH PAYAL	PO1, PO2, PO3, PO5, PO6, PO8, PO9, PO10, PO11, PO12/ PSO1
3	Stock Price Prediction	Product	19EBKCS004	ABHINAV SHARMA	PO1, PO2, PO3, PO5, PO9, PO10, PO11, PO12 / PSO1
4	A Roguelike-game in C++	Fun Game	19EBKCS009	ABHISHEK VASHISHT	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PO12 / PSO1, PSO2, PSO3
5	FitSquad	Application, Service	19EBKCS010	ADARSH SHARMA	PO1, PO2, PO3, PO5, PO6, PO9, PO10, PO11, PO12 / PSO1
6	Income Expense Tracker	Application	19EBKCS001	AAKASH NIRWAN	PO1, PO2, PO3, PO5, PO9, PO10, PO11, PO12 / PSO1

C. Process for monitoring and evaluation

- Project progress monitoring and evaluation is done at two levels i.e. by Project Coordinator as well as Guide.
- Guide assesses the progress periodically and collects a report from the students and records his/her observations.
- Weekly project progress demonstration to the respective guide by the student.
- 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.

S.No.	Title of Project	Project Guide	Session (210)					External (140)			Total (350)
			Attendance Through out the project (20)	Pre-project Preparatory Presentation *(50)	Report *(60)	Viva (30)	Demonstration (50)	Presentation *(50)	Viva (40)	Demonstration (50)	

Scheme for the evaluation of project

**** Presentation evaluation:** Done by a team of 3 or more expert faculty members and average marks are awarded to the student.

*** Report evaluation:** based on the guidelines mentioned below.

Guidelines for evaluation of project work may include the following:

Project Report Formulation

All the final year IT 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)
- Acknowledgement
- List of Figures and Tables (Figures and Tables should be properly numbered and have captions)
- List of Abbreviation
- 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
- Future Application of the project
- References
- Glossary
- Appendix

Guidelines for Report Format

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. Project Report should be in the 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

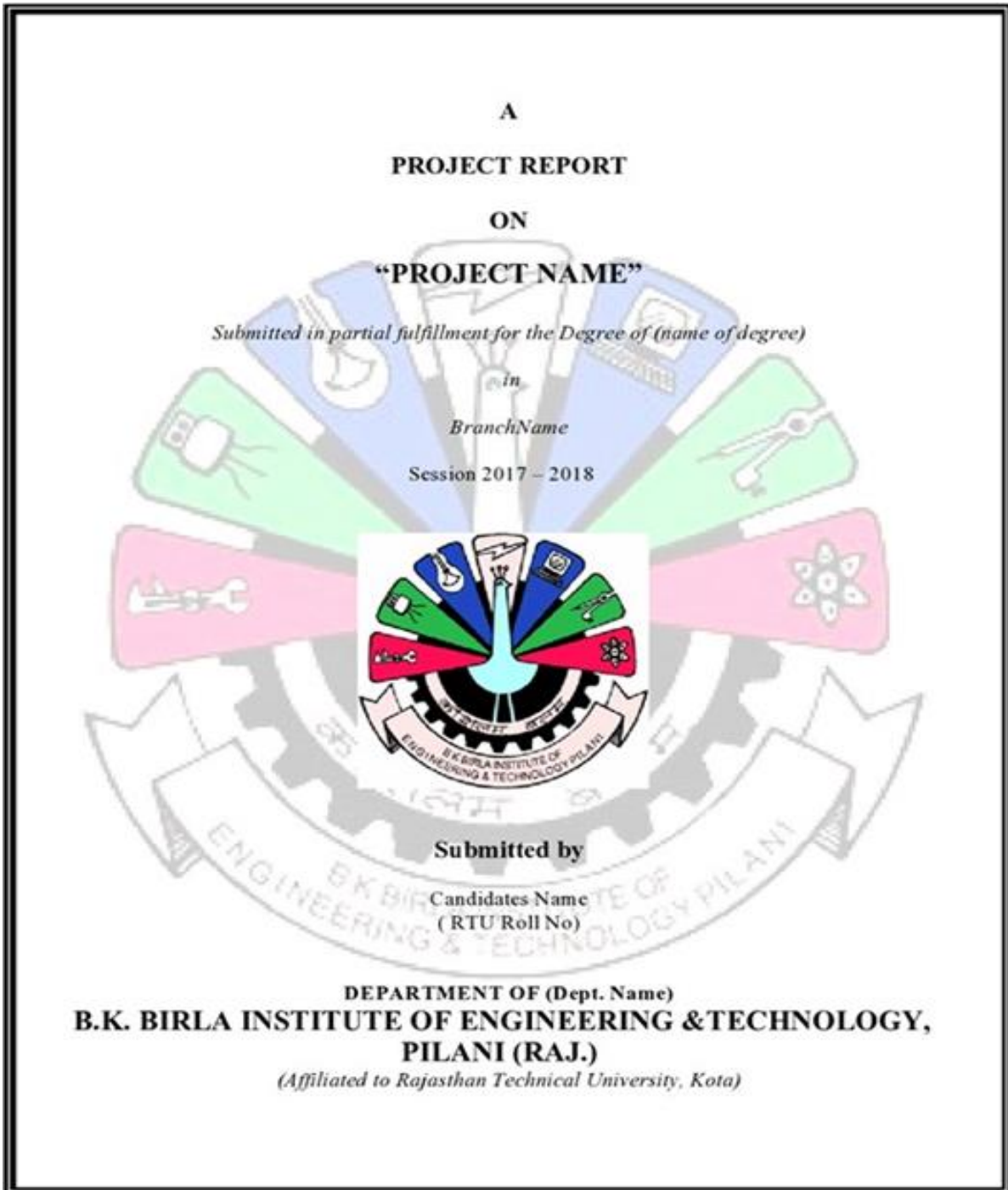
1. Front pages – Small Roman Numbers
(Excluding title page, Certificate page, Acknowledgement page)
2. Body pages 1, 2, 3 ... Annexure 1, 2, 3, ... (separate for each Annexure)

Page 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



D. Process to assess individual and team performance

- **Monthly Project Progress seminars** are conducted by the team of their respective guide, a professor cadre faculty, an Associative professor and an Assistant professor.
 - The project seminar are given by individual project team members.
- **Individual & Collective contribution/understanding:** Assessment is done by a separate team of three or more experts (Senior Faculty members). Students are assessed through presentation and demonstration of their projects.

Experts evaluates on the following criteria (though not constrained to) and the average of the assessment is awarded to the student.

- Verbal communication
- Body language
- Clarity and coherence of the content
- Knowledge of technical aspects of the project
- Open queries

Subject Code & Name	Semester	Nature of work	Assessment
8CS7-50 Project	VIII	Project idea and abstract submission	Problem definition
		Project implementation	Progress presentation
		Project completion, Testing	Project demonstration
		Team work assessment	Project report & demonstration
		University viva	Project report

Individual and team performance assessment process

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 350 and are graded according to the project contribution towards attainment of PO's and PSO's.

Project Course Outcomes

CO1	Present effective communication skills and relate engineering issues to broader societal context
-----	--

CO2	Get capable of self-education and clearly understand the value of achieving perfection in project implementation and completion
CO3	Ability to apply and explain the basic concepts and broader principles of engineering projects and production management
CO4	Able to write effective reports and design documentation
CO5	Demonstrate professionalism with ethics and punctuality throughout the project life cycle

Students Projects details

Session 2022-23

Roll No	Name	Project Name	Report
19EBKCS001	AAKASH NIRWAN	Income Expense Tracker	https://drive.google.com/open?id=11iL8z5e_mnxxMhRbcnghOoDNqpt4nKWp5
19EBKCS002	AAKASH PAYAL	MetaX - Calorie Counter App	https://drive.google.com/open?id=17IHbR45yulQyBs5ih5sj3WNeB1Qddrs6
19EBKCS004	ABHINAV SHARMA	Stock Price Prediction	https://drive.google.com/open?id=1oguFoa50gYJSDHISm4ikagrKb2Nv3Lt3
19EBKCS009	ABHISHEK VASHISHT	A Roguelike-game in C++	https://drive.google.com/open?id=1SD960wy6_PYUS03PEUzsqOadrJ6MoSeM
19EBKCS010	ADARSH SHARMA	FitSquad	https://drive.google.com/open?id=1YCj24MjISNuH1ukOUavzhPlsrX7wZkLD
19EBKCS011	ADITYA PRATAP SINGH	Hostel Management Application	https://drive.google.com/open?id=1zh13M55ym7Qvz3UuLxKRzD3zz1JHEUvj
19EBKCS012	ADITYA SHARMA	INCOME EXPENSE TRACKER	https://drive.google.com/open?id=1bFOSk2kyft-ygT4Bz3mkkBGd9yO9xSf7
19EBKCS014	AMAN SONI	SnapCart	https://drive.google.com/open?id=15esYxthdtghsvJB181qINbM7RYUaqjJ-
19EBKCS017	ANIKET GUPTA	FOOD DELIVERY WEBSITE	https://drive.google.com/open?id=175ooK7Y-OQ1qtF3sJzkdPEu8mwaFqRfH
19EBKCS018	ANIKET KUMAR SINHA	Diabetic Retinopathy (DR) Detection	https://drive.google.com/open?id=1ApHs3LNY0visDS4Pmk6GPCV6V1n3kwzW
19EBKCS020	ANKIT KUMARI	Sentiment Analysis of Airline Tweets	https://drive.google.com/open?id=1RdfdbTjhPluge1tWvMak-1c9dYgQ9DMU
19EBKCS021	ANSHIKA GUPTA	School Management System	https://drive.google.com/open?id=17WZyjNZt4KNkVaWIXQIKHOj3qBt34Ag8
19EBKCS022	ANUKET KUMAR	Attendance system for teachers	https://drive.google.com/open?id=1AmFMqXKVfO50_hDPwTehwNkPfeFrWiQ
19EBKCS023	ARYAN BHARGAW	Instigo	https://drive.google.com/open?id=1JFRya_iTJZGLkHaJikpiZCMT_MQRzBr0
19EBKCS025	ASHISH PANWAR	Real time human detection and counting	https://drive.google.com/open?id=1ECIfuQ8mziYcRzJs26mVDtV07ZfGwdVg
19EBKCS031	BILASH THAKUR	Record-Keeper-Website	https://drive.google.com/open?id=1CTs5btM0hQe4ByJMMlall8SHaQzxAKr-
19EBKCS035	DEEVANSHU	MetaX - Calorie Counter App	https://drive.google.com/open?id=1k2KTKN9wTODAdaFSN6WgzW2vjgeLc5RL
19EBKCS036	DHRUV SHARMA	REAL TIME HUMAN DETECTION AND COUNTING	https://drive.google.com/open?id=1Z8XLbiuAMvw3Ywgg92wGByj0-nq20CND
19EBKCS038	DURGA SHEKHAWAT	Automatic selfie capture by detecting smile	https://drive.google.com/open?id=1WA7CVcHP-cnQsPL2v4hZwRuZC7o7sDur
19EBKCS040	FARHAN	FitFinder	https://drive.google.com/open?id=1kdKyKoMEyKIH0339Ibn67EMb9HsZgmJ9
19EBKCS041	GAURAV KUMAR JANGIR	MUSCLE BEAST	https://drive.google.com/open?id=1S2xNbUK91YFE9BE4EssniqFDmiq_HH_-

19EBKCS043	GOVIND SAINI	AI CHATBOT	https://drive.google.com/open?id=1I03wzsVfXD3P785uYj-83lXIRC3bFqI
19EBKCS045	HARSH GARG	SNAPCART	https://drive.google.com/open?id=1DKacTbq1Iq6QN6UXiClakydKDXu3GMu
19EBKCS047	HIMANSHU SHARMA	AI chat bot	https://drive.google.com/open?id=1iKlwQOWDLsp5lIH9oIJK2atSn5vEg3v
19EBKCS048	HITESH KUMAR	Attendance System, for Teachers	https://drive.google.com/open?id=1q0ZESt6tVxomIP41z8wYmtwRI_Lrr9ZQ
19EBKCS049	IMRAN	Code Editor	https://drive.google.com/open?id=1e2nnXaeLeyG8OFNnwceoW899JtxhMthJ
19EBKCS052	K A SUBRAMANIAN	Weather web App	https://drive.google.com/open?id=107WKR SFp3C44_USOZgazLwIIRL8RZcIC
19EBKCS053	KADDAFEE KHOKAR	Port Scanner	https://drive.google.com/open?id=1OITDTPVJhPC50Myoq2JO62m1Mwe7o4Cc
19EBKCS055	KARISHMA VERMA	Human Emotion Detector	https://drive.google.com/open?id=1Kenax AP3o2znU2Yb_D5L8fx6e-DYPH6
19EBKCS056	KHUSHI TULSIYAN	Human Emotion Detector	https://drive.google.com/open?id=1nYnQNKaFkJ05XZqmqkJJVVGZG7GQ_3jzg
19EBKCS057	KOMAL SHARMA	Diabetic Retinopathy Detection	https://drive.google.com/open?id=19rPp-r8MxB-3c14b3Ihu2FF1DEpaKXy5
19EBKCS058	KRIKA DEVLII	Automatic selfie capture by detecting smile	https://drive.google.com/open?id=1tcw7tu4SNfdiP4VcA_fh9gfuUAKD6ljl
19EBKCS059	KULDEEP SAINI	PLATFORM GAME	https://drive.google.com/open?id=1mmO4odyFL0Hn7s_0LiUp5X29IPg6JGa-
19EBKCS060	KUSHAGRA MISRA	Smart Parking Application	https://drive.google.com/open?id=1O4MjytYVOZSPYPtVgFJFX0XqAFtTZZ-3
19EBKCS061	MAHIPAL SINGH RAWAT	Online Convenience Shop	https://drive.google.com/open?id=147J6Ti6xUKHorXB4jaDWKt1R1Zm_kSU
19EBKCS062	MANIKANT BHATT	SSENSE(Ecommerce Website)	https://drive.google.com/open?id=1W6WzkYRkV6mFTOWLbCGbfEOCR2PoO31V
19EBKCS063	MD AKIF IQUBAL	Online book store	https://drive.google.com/open?id=1pnB96rSi-4UTL7WNR9KJ4YilvxPNcvMH
19EBKCS064	MEHAK SRIVASTAVA	Algorithm Visualizer	https://drive.google.com/open?id=1_Xm2qDCTg9w5yMOtOUE_5CAd8g1r1CRB
19EBKCS065	MEHANT KUMAR	IPL WIN PREDICTION	https://drive.google.com/open?id=1yDqrByzEsVYkfHOIqAHCMIF62AR5Yu1
19EBKCS066	MOHAMMED SAMEER	Car racing game	https://drive.google.com/open?id=15LUss3Y2KP0ZmSxRAOEKU9zZv5yoHl5u
19EBKCS068	MOKSHA SHARMA	Library management system	https://drive.google.com/open?id=1tcVuDngE5ZxuyW-pM0nB2YzR3Gg92hbx
19EBKCS069	MUKUL BHOMIA	Cinemaxx	https://drive.google.com/open?id=1Y6XE7r3Y8UCE4xBq1MmnA5q-sPfdyX6c
19EBKCS073	NIPUN VERMA	Women safety Android app	https://drive.google.com/open?id=1cHM45WwSgoEieePQ5ELEZP3gDOI0OvJ2
19EBKCS076	PALAK GUPTA	Library Management System	https://drive.google.com/open?id=19oY5g0zt-893fotjtXfcxL_YTAycvfr-
19EBKCS077	PANKAJ KUMAR	Women safety application	https://drive.google.com/open?id=174dq8V69BO5CJIS37P1R4gjr3CsQ3mrr
19EBKCS079	PAYAL GOPALKA	Diabetes Prediction	https://drive.google.com/open?id=1Q2lqTf182P6uXb7jYmzRSGb0qSm_T0h
19EBKCS080	PINKAM Y	Instagram	https://drive.google.com/open?id=1xegWSZ0xmIarcvO8_OrRjldKgQLpBpnD
19EBKCS080	PINKAM SAINI	Instagram	https://drive.google.com/open?id=1hkDQUQWQtijQu4WvaXQsaFqCEeYKb5Xz
19EBKCS082	PIYUSH LATTA	Diabetes Prediction	https://drive.google.com/open?id=1IG_0jz9Hfvg6tciftrk6AAKw5kOyeciO
19EBKCS083	PRADEEP KUMAR SAINI	LIBRARY MANAGEMENT SYSTEM	https://drive.google.com/open?id=1awZCpsmOlB5eJ1uNvyripkeBgRr_umSQ
19EBKCS084	PRAVEEN JHA	ECOMMERCE WEBSITE	https://drive.google.com/open?id=1cw9POsNcXHbW54V5zbEN5noaT6BNS0zL

19EBKCS085	PRAVEEN KUMAR JANU	NIRMAAN ORGANIZATION WEBSITE	https://drive.google.com/open?id=1qYBEV-JUEM94sPZ93SgllnG7I_3Wr6wB
19EBKCS086	PINKI KUMARI	Movies-Information-Website	https://drive.google.com/open?id=1E8pNwZ1NRUwemXa2ysOZD8VdNnmNIKGGk
19EBKCS086	PREETI	Movies-Information-Website	https://drive.google.com/open?id=1OZMUUgKwMPSXqg8it_PC8VUIizAZoiyY
19EBKCS088	PRIYANSHU SHARMA	Door detection	https://drive.google.com/open?id=1BsO2038KaoXvGpjEGt1fk5pQ4KPokVF
19EBKCS090	PULKIT SONI	TO DO webapp	https://drive.google.com/open?id=1WYR_PpMnb8x4GRxdDGOovP6vdBSiThww
19EBKCS091	RAHUL SAINI	Personal-Portfolio-Website	https://drive.google.com/open?id=1Ej3d7iqMU9f5b4ai1z7lfoEtz43z7INC
19EBKCS092	RAHUL SINGH GOPALKA	Car racing game	https://drive.google.com/open?id=19RQhSPBs15sIIDgTpelHEu4NlqLTdO4o
19EBKCS094	RAVI	FITSQUAD	https://drive.google.com/open?id=1Qslystp6w-oBNi2mMz5PNPAGM-9uMt8q
19EBKCS095	RITIK VERMA	Brain Workout - Maths Game	https://drive.google.com/open?id=1wO55Q9x74GSQb7xeklwXubfPi2C0QZN
19EBKCS096	ROHIT SAINI	WebStore	https://drive.google.com/open?id=19hrA9RdkCqC_eqtpEG22arrUGc85R-IM
19EBKCS098	SACHIN KUMAWAT	MY NOTES	https://drive.google.com/open?id=1wKkBzn50hZKYUsXhisPz2yAkYrTUFp9X
19EBKCS101	SHEKHAR AGGARWAL	Image steganography	https://drive.google.com/open?id=1AQpXA5GBYqatGVjuaaaJGdEKL_IUfoCp
19EBKCS102	SHIVAM	E-commerce	https://drive.google.com/open?id=1asOK2egaLdA3a-3Kq6M9fVKkizTX8_gF
19EBKCS103	SHUBHAM GUPTA	Employee Management System	https://drive.google.com/open?id=1OasMco mg4XUTITEaVg40pORSKz1T02z2
19EBKCS104	SHUBHAM SHARMA	Ecommerce shop	https://drive.google.com/open?id=1KXIqTWu3Sk2OY2qJ-hT5MarP2Q-Z0SU9
19EBKCS106	SHUBHANSHU KUMAR SINGH	Portfolio Site	https://drive.google.com/open?id=1z1Ctv4o1QG76UUeDaASsOWLWSTchkHeN
19EBKCS107	SIDDHANT PRATAP SINGH	Women Safety Android App	https://drive.google.com/open?id=1JhouRKkocrG119jbE_XPie-Jrc4tffDI
19EBKCS108	SIDDHARTH SHARMA	E tournament android application	https://drive.google.com/open?id=1p1zylmr9HjeLklrBjsBBJpVmQ6-ZNG4w
19EBKCS110	TANMAY MOLASARIA	WebStore	https://drive.google.com/open?id=18hEjLm7lxv-hdz8pb-mdDOTxVUyh24iE
19EBKCS111	TEJPAL SINGH	Face detection	https://drive.google.com/open?id=1hiABrltpHEr1qdAYsq9oTd22uClVfBCp
19EBKCS111	TEJPAL SINGH	Face detection	https://drive.google.com/open?id=1UDJzQEs2lcBI5tmA8Gz18PUBogWuHTLk
19EBKCS112	TILAK SANGWAN	Real Time Human Detection & Counting	https://drive.google.com/open?id=108QfK5XO5qW0INUMU_TJWFRU6_UfSsdC
19EBKCS114	PRANAV KOTESH VEMURI	Classes Management App	https://drive.google.com/open?id=1bWT7R8auv3hFACtrQkGyed9X6FO6917t
19EBKCS117	VARUN GOVIND BHUTADA	Algorithm Visualizer	https://drive.google.com/open?id=1beWdTXTcs4pRwqkifDI5TVnuA0VdupPa
19EBKCS119	VIKAS KUMAR SAIN	Pizza Ordering System	https://drive.google.com/open?id=1lojQ0WYUJXriAvagvs7rHrNyig_mlnwC
19EBKCS120	VIKAS YADAV	Smart Parking Project	https://drive.google.com/open?id=1-13BnLLNEVo6d4nuvILrixH6lB3ePqHU
19EBKCS122	VIRENDRA SINGH SHEKHAWAT	Face detection	https://drive.google.com/open?id=1h4oPkAhtfD-sMf7EC2YqHoLlp7dtjS5
19EBKCS122	VIRENDRA SINGH SHEKHAWAT	Face detection	https://drive.google.com/open?id=1ZNo8_0Mrsy_YyxUZQUdm99_ulM8fSAir

19EBKCS12 3	VISHNU PILLAI	E Tournament Application	https://drive.google.com/open?id=1wWWUIPg19GCKWVx4wLRVOY5tIrrriMVvb
19EBKCS12 4	VIVEK LOHIYA	data analytics using power bi	https://drive.google.com/open?id=1fgnr6QOF11ITgGpvntxbY2ynK8Lu6Z
19EBKCS30 1	KESHAV KUMAR ROHILA	Workout Buddy	https://drive.google.com/open?id=1rYh6VCxCQ0Faf8Cj2mYIMr-luXaXN0Tg
19EBKCS30 2	PRERNA GUPTA	SSENSE(Ecommerce Website)	https://drive.google.com/open?id=1Jj1QmJ8SopzVPQJ7hIL0HbwWniG6LY2w
19EBKCS30 3	RITIKA JANGIR	Postin	https://drive.google.com/open?id=1GQa2236iXvkQOZ65tVFC62KrXjDag-
19EBKCS30 4	SAKSHI AGRAWAL	Vmware	https://drive.google.com/open?id=10PRYWSAKCBEXLkh-uk-xm8OF2DWN_MF
20EBKCS20 0	ABHINAV	Cyber Security in Intelligent Transportation System	https://drive.google.com/open?id=1oBwhJpWWvvhFJBKkGxOpvdpdJXYTAINBd
20EBKCS20 2	AJAY SINGH	"Play or Stay" - A Weather Prediction Using Machine Learning	https://drive.google.com/open?id=1hZISdFrJO3jaFRmjkMC2HreZ0uKy1t6S
20EBKCS20 4	ASHISH SHARMA	convenice website	https://drive.google.com/open?id=1-uUl-KyW5TMvpB16qj8tV_9p5OLawvBz
20EBKCS20 5	ASPAK AHMED	"Play or Stay" - A Weather Prediction Using Machine Learning	https://drive.google.com/open?id=1_VI_60uIiHdP4MXJMu-HQRfRcp88cB-
20EBKCS20 8	NITIN SHARMA	Password and Notes Manager Application	https://drive.google.com/open?id=1oVxXP5VPzVPohLdOxjWFn2xnCcslsmD
20EBKCS20 9	PRATEEK JANGIR	Image Steganography	https://drive.google.com/open?id=1-FThPI5mhSVbgUlovs34Q2UgPlr3jhu
20EBKCS21 0	RIAHBAH DAVE	E-com shop	https://drive.google.com/open?id=1K6ucsUjsiUdqkdqhvdrAKmyq9wKeFVv3q
20EBKCS21 1	SHAMDAR REEDA MOHAMMAD SHAH	spotify clone	
20EBKCS21 2	SHUBHAM SHARMA	Project-notes and password manager	https://drive.google.com/open?id=168WMqX7tGRv2T9dQrVddEocPgHOR-ntL
20EBKCS21 2	SHUBHAM SHARMA	Project-notes and password manager	https://drive.google.com/open?id=1wRWJk-r357vFnbPQNxVFsqQjXOUKEjXy

2.2	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
2.2.4	Initiative related to industry interaction	No industry supported laboratory exists. Industry involvement is not visible except expert talk.	In response to the observation, the institute has taken action to rectify this issue. Understanding the significance of bridging the gap between academia and industry, the institute has applied for the establishment of a Center for Excellence. The Center for Excellence is envisioned to serve as a platform for fostering collaboration between our institute and industry stakeholders. It will house state-of-the-art laboratories supported by industry partners, providing students with hands-on experience and exposure to real-world challenges. This initiative aligns with our commitment to producing graduates who are well-equipped to meet the evolving needs of the industry.

- a. Application for the establishment of a Center for Excellence at BKBIET Pilani for Computer Science and Engineering.



B K Birla Institute of Engineering & Technology
Pilani, Rajasthan, INDIA

To,

Dated: 17 December, 2022

The Vice Chancellor,
Bikaner Technical University,
Bikaner (Raj.)

Through Dean Academics, BTU

Sub: Establishing Center of Excellence in Computer Science and Engineering

Respected Sir,

Greetings of the day.

With due respect, Institute wishes to put up our sincere request for establishing "Centre of Excellence" (CoE) at B K Birla Institute of Engineering & Technology, Pilani premises.

Computer Science and Engineering is one of the premier department of our institute which is NBA accredited since May 2021 for 3 years period, wishes to render application-oriented services to industry, research, academia, public return to society and student fraternity. The department is rendering these services in Artificial Intelligence, Machine Learning, Computer Vision and Internet of Things (IoT) at B K Birla Institute of Engineering & Technology, Pilani which ensures the CoE objectives.

B K Birla Institute of Engineering & Technology is one of the premier industry-oriented and application-driven institutes in India. Shree Krishnarpan Charity Trust, under Chairmanship of renowned industrialist Syt. Basant Kumar Birlaji, set up BKBIET, in 2007.

The Institution has been true to its commitment in providing quality education in Engineering and Technology. Our strong alliances with leading international universities, industries and professional bodies have increased access to latest education, opportunities for engagement and exchange, collaborative research and innovation for our students and faculties. We believe the best way to help BKBIETians meet challenges is to provide a supportive and enriching environment.

We request your kind approval for the same. Please suggest and guide for further process. We will submit our report very soon.

Thanking You.


Director
(BKBIET, Pilani)

b. Application for the establishment of a Center for Excellence at BKBIET Pilani for Electronics and communication Engineering.



B K Birla Institute of Engineering & Technology
Pilani, Rajasthan, INDIA

To,

Dated: 17 December, 2022

The Vice Chancellor,
Bikaner Technical University,
Bikaner (Raj.)

Through Dean Academics, BTU

Sub: Establishing Center of Excellence in Electronics and Communication Engineering

Respected Sir,

Greetings of the day.

With due respect, Institute wishes to put up our sincere request for establishing "Centre of Excellence" (CoE) at B K Birla Institute of Engineering & Technology, Pilani premises.

Electronics and Communication Engineering is one of the premier department of our institute wishes to render application-oriented services to industry, research, academia, public inturn to society and student fraternity. The department is rendering these services in VLSI design, Embedded Systems, Semiconductor Technologies and Microwave Engineering at B K Birla Institute of Engineering & Technology, Pilani which ensures the CoE objectives.

B K Birla Institute of Engineering & Technology is one of the premier industry-oriented and application-driven institutes in India. Shree Krishnarpan Charity Trust, under Chairmanship of renowned industrialist Syt. Basant Kumar Birlaji, set up BKBIET, in 2007.

The Institution has been true to its commitment in providing quality education in Engineering and Technology. Our strong alliances with leading international universities, industries and professional bodies have increased access to latest education, opportunities for engagement and exchange, collaborative research and innovation for our students and faculties. We believe the best way to help BKBIETians meet challenges is to provide a supportive and enriching environment.

We request your kind approval for the same. Please suggest and guide for further process. We will submit our report very soon.

Thanking You.


Director
(BKBIET, Pilani)

c. Application for the establishment of a Center for Excellence at BKBIET Pilani for Electrical Engineering.



B K Birla Institute of Engineering & Technology
Pilani, Rajasthan, INDIA

To,

Dated: 17 Dec, 2022

The Vice Chancellor,
Bikaner Technical University,
Bikaner (Raj.)

22/12/22
19/12/22

Through Dean Academics, BTU

Sub: Establishing Center of Excellence in Electrical Engineering

Respected Sir,

Greetings of the day.

With due respect, Institute wishes to put up our sincere request for establishing "Centre of Excellence" (CoE) at B K Birla Institute of Engineering & Technology, Pilani premises.

Electrical Engineering is one of the premier department of our institute wishes to render application-oriented services to industry, research, academia, public inturn to society and student fraternity. The department is rendering these services in Programmable Logic Controller (PLC), Electric Vehicles (EV), HT Panels and Renewable Energy Technologies at B K Birla Institute of Engineering & Technology, Pilani which ensures the CoE objectives.

B K Birla Institute of Engineering & Technology is one of the premier industry-oriented and application-driven institutes in India. Shree Krishnarpan Charity Trust, under Chairmanship of renowned industrialist Syt. Basant Kumar Birlaji, set up BKBIET, in 2007.

The Institution has been true to its commitment in providing quality education in Engineering and Technology. Our strong alliances with leading international universities, industries and professional bodies have increased access to latest education, opportunities for engagement and exchange, collaborative research and innovation for our students and faculties. We believe the best way to help BKBIETians meet challenges is to provide a supportive and enriching environment.

We request your kind approval for the same. Please suggest and guide for further process. We will submit our report very soon.

Thanking You.


Director
(BKBIET, Pilani)

2.2	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
2.2.5	Initiative related to industry internship/ summer training	Feedback collection is visible effective. Impact analysis is not carried out.	<p>we have taken immediate and decisive actions to address these concerns.</p> <p>Feedback Collection Enhancement: We have revamped our feedback collection mechanisms to ensure not only the visibility but also the effectiveness of the process. This includes implementing regular surveys, establishing open channels for anonymous feedback, and introducing real-time feedback mechanisms during and after various programs.</p> <p>Impact Analysis Implementation: Recognizing the importance of impact analysis, we have instituted a dedicated team responsible for assessing and analyzing the outcomes and effects of various initiatives within the institute. This team is actively working on implementing a robust system to measure and evaluate the impact of our programs, courses, and overall educational processes.</p> <p>Technology Integration: Leveraging technology, we have integrated advanced tools and software to streamline the feedback collection process and facilitate efficient analysis. This technological integration aims to enhance the accuracy and speed of our impact assessments.</p> <p>Periodic Internal Audits: In order to maintain a proactive approach to quality improvement, we have established a system of periodic internal audits. These audits are designed to identify areas for enhancement in real-time, allowing for swift corrective actions.</p>

Surveys and Feedbacks are taken from the students and adequate actions are taken after the Feedback analysis by the Feedback Assessment Committee. Following Surveys are done at Institute:

1. Course Exit Survey
2. Program Exit Survey

Course Exit Survey: Collected by the respective Subject teacher for the Indirect CO attainment Analysis.

Program Exit Survey: Collected by the respective Branch Counselors at the end of VIII Semester for the Indirect PO and PSO attainment analysis.

Following Feedbacks are collected from the students:

- Student Feedback through Form
- Student Feedback through Class Representative Meeting
- Student Curriculam Feedback Form
- Student Extra Curricular Feedback Form
- Student's Facility Feedback Form
- Student's Hostel Facility Feedback Form
- Parent's Feedback
- Corporate Feedback

Feedback analysis and actions:

- Feedback is collected by the Branch Counselors and consolidated reports are forwarded to the HOD and respective departments.
- Feedback analysis is done by HOD and faculty and the reports are put in front of the committee.
- Collected feedback is scrutinized by the Feedback Assessment Committee comprising of Director, Principal (Academics), Principal (Administrative) and HOD of respective department. The feedback is quantified by the committee.

Actions after Feedback Scrutiny:

- Collected feedback is scrutinized by the Feedback Assessment Commikee comprising of Director, Principal (Academics), Principal (Administrative) and HOD of respective department. The feedback is quantified by the committee.
- Based on the feedback received from the students, corrective measures are taken.
- Decisions taken for Feedback Analysis

Minutes of Meeting

Meeting with all Department HOD was held on 12th Feb 2020 to discuss feedback assessment and corrective measures for improvements in academics and facilities for students.

Following decisions have been made in the meeting after the feedback analysis:

- 1) Feedback of student to be conveyed to the faculty
- 2) Conducting Remedial classes for weak students should be continued
- 3) Continue to conduct Skill development classes
- 4) Continue motivating students to do research work and MOOC courses.
- 5) Continue to organize good number of short term courses, workshops, in house trainings
- 6) Keep delivering content beyond syllabus in stipulated time for improved academics.
- 7) Students should be motivated for participation in technical and sports events in and outside College.
- 8) Hostel facilities should be monitored strictly.
- 9) Hostel supervision duties should be monitored by HODs.
- 10) Preparatory class for placement should be continued and monitored effectively.


Principal (Academics)

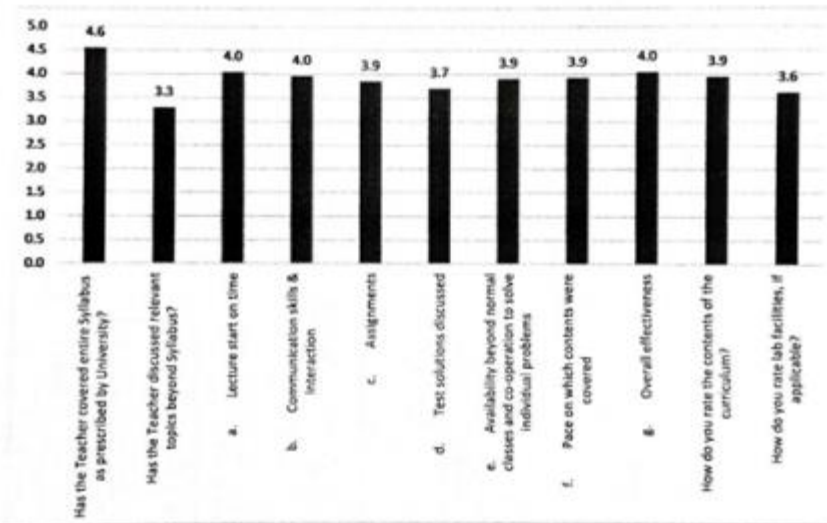
B K Birla Institute of Engineering & Technology, Pilani (Rajasthan)

Academic Feedback Analysis 2019-20

S.No	Parameters	Odd Sem	Final Ratings
1	Has the Teacher covered entire Syllabus as prescribed by University?	91.0	4.6
2	Has the Teacher discussed relevant topics beyond Syllabus?	66.0	3.3
3	Effectiveness of Teacher in terms of		
a.	Lecture start on time	4.1	4.0
b.	Communication skills & Interaction	3.9	4.0
c.	Assignments	3.9	3.9
d.	Test solutions discussed	3.6	3.7
e.	Availability beyond normal classes and co-operation to solve individual problems	3.7	3.9
f.	Pace on which contents were covered	3.8	3.9
g.	Overall effectiveness	4.1	4.0
4	How do you rate the contents of the curriculum?	3.8	3.9
5	How do you rate lab facilities, if applicable?	3.6	3.6

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(Rating: 5-Excellent, 4-Very Good, 3- Good, 2- Average, 1- Below Average)

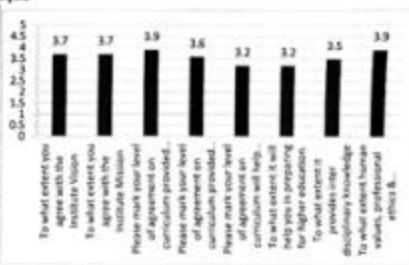


Analysis Report 2019-20
 Ratings: Excellent(5) Very Good(4) Good(3) Satisfactory(2) Needs improvement (1)

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Student's Curriculum Feedback Analysis

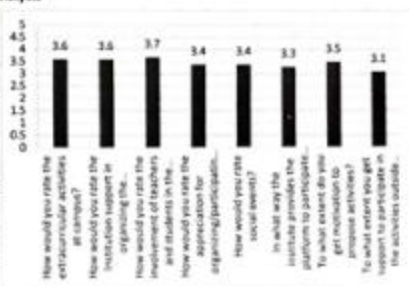
S. No	Parameters	Average Ratings	Rating Category
1	To what extent you agree with the institute Vision	3.7	Good
2	To what extent you agree with the institute Mission	3.7	Good
3	Please mark your level of agreement on curriculum provided by university is satisfactory.	3.9	Good
4	Please mark your level of agreement on curriculum provided by university will help you in getting jobs.	3.6	Good
5	Please mark your level of agreement on curriculum will help you in competing at global level.	3.2	Good
6	To what extent it will help you in preparing for higher education.	3.2	Good
7	To what extent it provides inter disciplinary knowledge	3.5	Good
8	To what extent human values, professional ethics & Environment & Sustainability included.	3.9	Good



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Students Extra-Curricular Feedback Analysis

S. No	Parameters	Average Ratings	Rating Category
1	How would you rate the extracurricular activities at campus?	3.6	Good
2	How would you rate the Institution support in organizing the activities?	3.6	Good
3	How would you rate the involvement of teachers and students in the activities?	3.7	Good
4	How would you rate the appreciation for organizing/participating in the activities?	3.4	Good
5	How would you rate social events?	3.4	Good
6	In what way the institute provides the platform to participate in the conference?	3.3	Good
7	To what extent do you get motivation to propose activities?	3.5	Good
8	To what extent you get support to participate in the activities outside campus?	3.1	Good

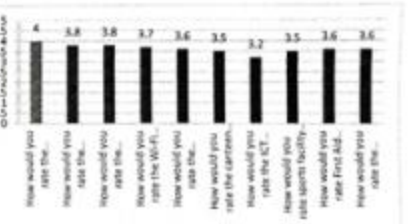


Analysis Report 2019-20
 Ratings: Excellent(5) Very Good(4) Good(3) Satisfactory(2) Needs improvement (1)

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Student's Facility Feedback Analysis

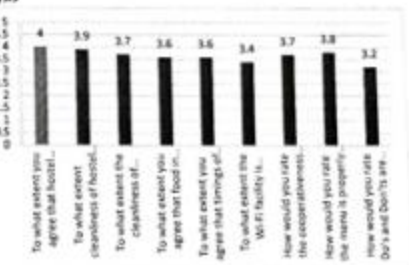
S. No	Parameters	Average Ratings	Rating Category
1	How would you rate the Cleanliness & greenery of college campus?	4	Very Good
2	How would you rate the infrastructure of laboratory in college?	3.8	Good
3	How would you rate the infrastructure of Library in college?	3.8	Good
4	How would you rate the Wi-Fi internet facility in the college?	3.7	Good
5	How would you rate the classroom ambiance in the college?	3.6	Good
6	How would you rate the canteen facility?	3.5	Good
7	How would you rate the ICT facilities?	3.2	Good
8	How would you rate sports facility in the college?	3.5	Good
9	How would you rate First Aid facility in college?	3.6	Good
10	How would you rate the grievances regarding facility?	3.6	Good

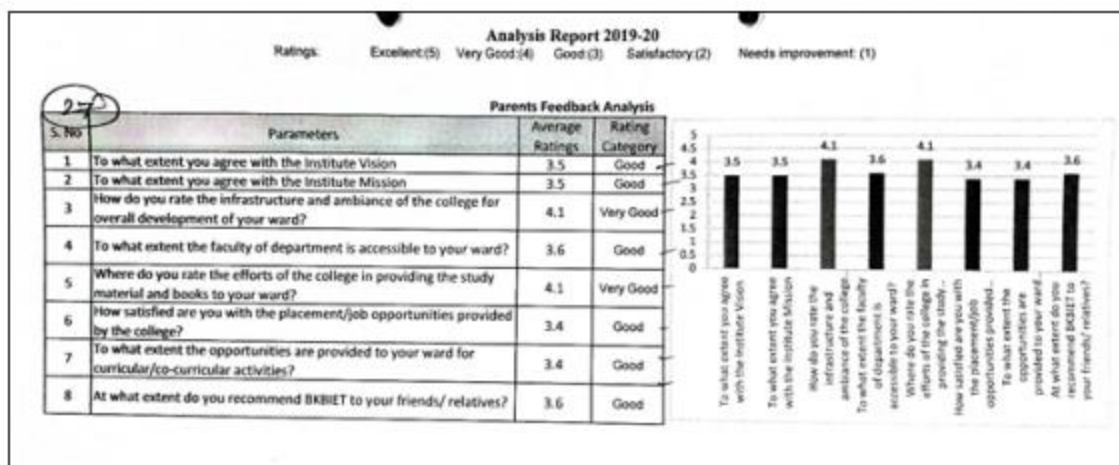


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Student's Hostel Facility Feedback Analysis

S. No	Parameters	Average Ratings	Rating Category
1	To what extent you agree that hostel surroundings are secure.	4	Very Good
2	To what extent cleanliness of hostel is taken care of	3.9	Good
3	To what extent the cleanliness of kitchen and dining space are properly taken care of.	3.7	Good
4	To what extent you agree that food in the mess is served fresh.	3.6	Good
5	To what extent you agree that timings of mess are properly maintained.	3.6	Good
6	To what extent the Wi-Fi facility is available in the hostel campus.	3.4	Good
7	How would you rate the cooperativeness and accessibility of hostel staff?	3.7	Good
8	How would you rate the menu is properly displayed?	3.8	Good
9	How would you rate Do's and Don'ts are displayed?	3.2	Good





Student Feedback Forms (Sample)

1. Student Feedback Form


STUDENTS FEEDBACK FORM

Academic year: 2020-2021 Semester: 1st Semester Branch: Information Technology

S. No.	Description	1FY2-01	1FY2-02	1FY1-04	1FY3-06	1FY3-09	1FY2-20	1FY1-22	1FY3-24	1FY3-27	1FY3-28
		Eng. Mathematics I	Eng. Physics	Comm. Skills	Programming for Problem Solving	Basic Civil Eng.	Eng. Physics Lab	Language Lab	Computer Programming Lab	Basic Civil Eng. Lab	Computer Aided Eng. Graphics
1	Has the Teacher covered entire Syllabus as prescribed by University? (Yes/ No)	No	No	No	No	No	No	No	No	No	No
2	Has the Teacher discussed relevant topics beyond Syllabus? (Yes/ No)	Yes	No	Yes	No	No	No	No	No	No	No
Effectiveness of Teacher in terms of (Rating: 5-Excellent, 4-Very Good, 3- Good, 2- Average, 1- Below Average)											
3	a. Lecture start on time	5	5	5	5	5	5	5	5	3	5
	b. Communication skills & Interaction	5	5	5	5	4	5	5	5	4	5
	c. Assignments	5	5	5	5	4	5	5	5	4	5
	d. Test solutions discussed	5	4.5	5	5	4	5	4	5	3	5
	e. Availability beyond normal classes and co-operation to solve individual problems	5	5	5	5	4	5	5	5	4	5
	f. Pace on which contents were covered	5	5	5	5	4	5	4	5	4	5
	g. Overall effectiveness	5	5	5	5	4	5	4	5	4	5
4	How do you rate the contents of the curriculum?	5	5	5	5	4	4	4	5	4	5
5	How do you rate lab facilities?	N.A	N.A	N.A	N.A	N.A	4	4	4	4	4

(Rating: 5-Excellent, 4-Very Good, 3- Good, 2- Average, 1- Below Average)

2. Student Curriculam feedback Form

		
B K Birla Institute of Engineering & Technology, Pilani (Raj.)		
Analysis Report 2019-20		
Student's Curriculum Feedback Analysis		
Institute Vision	Excel as an outstanding application-oriented and innovation-driven engineering institute. Inspire future Engineers to apply technology for solving real world challenges.	
Institute Mission	Create a platform for igniting ingenuity and path-breaking engineering applications for the India of future.	
Feedback rating range: Excellent:(5) Very Good:(4) Good:(3) Satisfactory:(2) Needs improvement: (1)		
S. No	Parameters	Average Ratings
1	To what extent you agree with the Institute Vision	3.7
2	To what extent you agree with the Institute Mission	3.7
3	Please mark your level of agreement on curriculum provided by university is satisfactory.	3.9
4	Please mark your level of agreement on curriculum provided by university will help you in getting jobs.	3.6
5	Please mark your level of agreement on curriculum will help you in competing at global level.	3.2
6	To what extent it will help you in preparing for higher education.	3.2
7	To what extent it provides inter disciplinary knowledge	3.5
8	To what extent human values, professional ethics & Environment & Sustainability included.	3.9

3. Student Extra Curricular Feedback Form



B K Birla Institute of Engineering & Technology, Pilani (Raj.)

Analysis Report 2019-20

Students Extra-Curricular Feedback Analysis

Feedback rating range:

Excellent:(5) Very Good:(4) Good:(3) Satisfactory:(2) Needs improvement: (1)

S. No	Parameters	Average Ratings
1	How would you rate the extracurricular activities at campus?	3.6
2	How would you rate the Institution support in organizing the activities?	3.6
3	How would you rate the involvement of teachers and students in the activities?	3.7
4	How would you rate the appreciation for organizing/participating in the activities?	3.4
5	How would you rate social events?	3.4
6	In what way the institute provides the platform to participate in the conference?	3.3
7	To what extent do you get motivation to propose activities?	3.5
8	To what extent you get support to participate in the activities outside campus?	3.1

4. Student's Facility Feedback Form



B K Birla Institute of Engineering & Technology, Pilani (Raj.)

Analysis Report 2019-20

Student's Facility Feedback Analysis

Feedback rating range:

Excellent:(5) Very Good:(4) Good:(3) Satisfactory:(2) Needs improvement: (1)

S. No	Parameters	Average Ratings
1	How would you rate the Cleanliness & greenery of college campus?	4.0 ✓
2	How would you rate the infrastructure of laboratory in college?	3.8 ✓
3	How would you rate the infrastructure of Library in college?	3.8 ✓
4	How would you rate the Wi-Fi internet facility in the college?	3.7 ✓
5	How would you rate the classroom ambiance in the college?	3.6 ✓
6	How would you rate the canteen facility?	3.5 ✓
7	How would you rate the ICT facilities?	3.2 ✓
8	How would you rate sports facility in the college?	3.5 ✓
9	How would you rate First Aid facility in college?	3.6 ✓
10	How would you rate the grievances regarding facility?	3.6 ✓

5. Student's Hostel Facility Feedback Form



B K Birla Institute of Engineering & Technology, Pilani (Raj.)

Analysis Report 2019-20

Student's Hostel Facility Feedback Analysis

Feedback rating range:

Excellent:(5) Very Good:(4) Good:(3) Satisfactory:(2) Needs improvement: (1)

S. No	Parameters	Average Ratings
1	To what extent you agree that hostel surroundings are secure.	4.0 ✓
2	To what extent cleanliness of hostel is taken care of	3.9 ✓
3	To what extent the cleanliness of kitchen and dining space are properly taken care of.	3.7 ✓
4	To what extent you agree that food in the mess is served fresh.	3.6 ✓
5	To what extent you agree that timings of mess are properly maintained.	3.6 ✓
6	To what extent the Wi-Fi facility is available in the hostel campus.	3.4 ✓
7	How would you rate the cooperativeness and accessibility of hostel staff?	3.7 ✓
8	How would you rate the menu is properly displayed?	3.8 ✓
9	How would you rate Do's and Don'ts are displayed?	3.2 ✓

6. Parent's Feedback



B K Birla Institute of Engineering & Technology, Pilani (Raj.)

Analysis Report 2019-20

Parent's Feedback Analysis

Institute Vision	Excel as an outstanding application-oriented and innovation-driven engineering institute. Inspire future Engineers to apply technology for solving real world challenges.
Institute Mission	Create a platform for igniting ingenuity and path-breaking engineering applications for the India of future.

Feedback rating range:

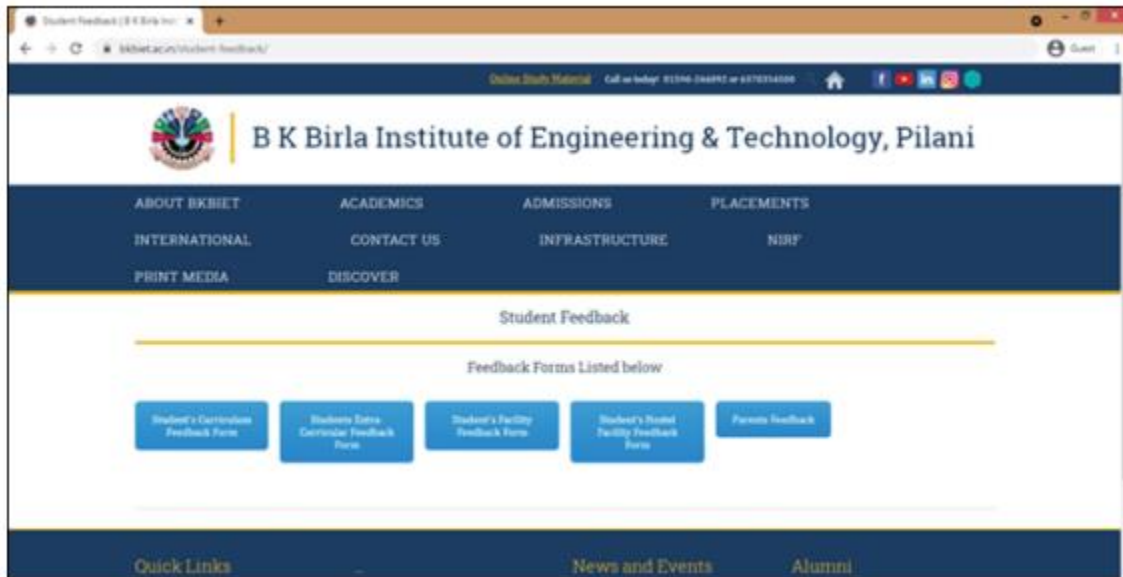
Excellent:(5) Very Good:(4) Good:(3) Satisfactory:(2) Needs improvement: (1)

S. No	Parameters	Average Ratings
1	To what extent you agree with the Institute Vision	3.5
2	To what extent you agree with the Institute Mission	3.5
3	How do you rate the infrastructure and ambiance of the college for overall development of your ward?	4.1
4	To what extent the faculty of department is accessible to your ward?	3.6
5	Where do you rate the efforts of the college in providing the study material and books to your ward?	4.1
6	How satisfied are you with the placement/job opportunities provided by the college?	3.4
7	To what extent the opportunities are provided to your ward for curricular/co-curricular activities?	3.4
8	At what extent do you recommend BKBIET to your friends/ relatives?	3.6

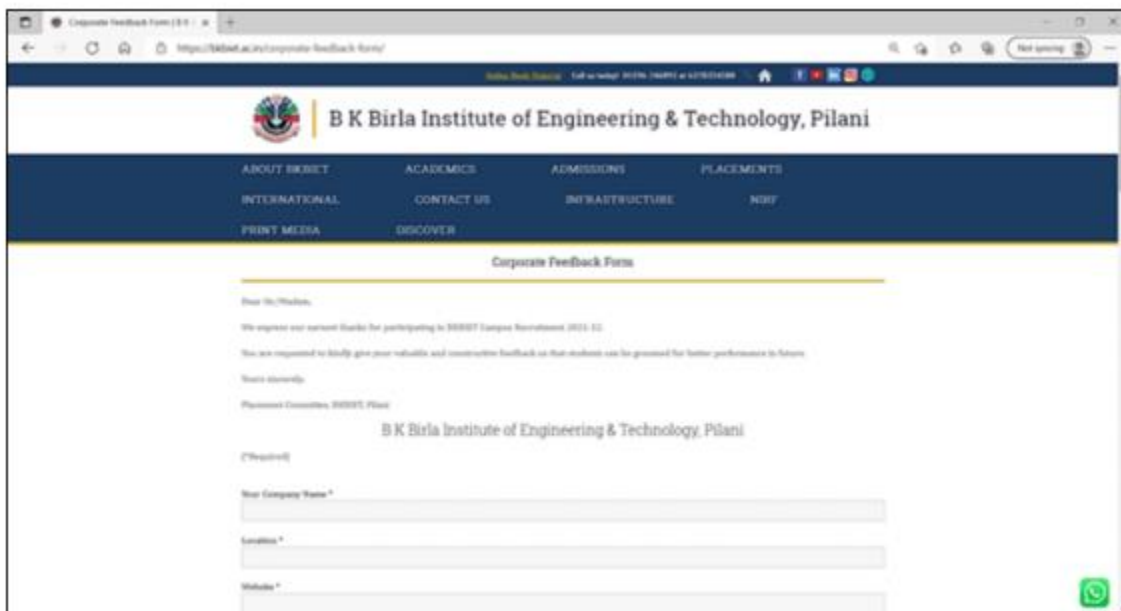
7. Corporate Feedback: Feedback from the industry and employers

B K Birla Institute of Engineering & Technology, Pilani		
Recruiters' Feedback		
Your Company Name	Location	Website
Bharti Soft Tech Pvt Ltd	Vadodara, Gujarat	http://www.bcssari.com
Visitor-I	Details	Visitor-II
Ashwini Chauhan	Name	Rakhi Haldar
HR Executive	Designation	HR Manager
8630508894	Phone No	6351317712
ashwini.chauhan@bcssari.com	Email ID	rakhi.haldar@bcssari.com
Stream	No. of Students Participated	No. of Students Selected
CS:IT	15	7
Rated By Company		
1. Technical Knowledge	Rating	Improvement required, if any, in:
Theoretical	Good	Few were not clear about in which area they want to grow in
Application Knowledge	Good	
Beyond Course	Excellent	
2. Soft Skills	Rating	Improvement required, if any, in:
Communication	Average	Many were unable to speak in English but their confidence and willingness was too good
Confidence Level	Good	
3. Industry Readiness	Very Good	Improvement required, if any, in:
4. Overall Rating	Excellent	
5. Our Arrangement	Excellent	Improvement required, if any, in:
6. Feedback/Suggestion		
No		

Online Feedback Forms are available on Institution Website: <https://bkbiet.ac.in/student-feedback/> (<https://bkbiet.ac.in/student-feedback/>)



Corporate Feedback Form available on Institution Website: <https://bkbiet.ac.in/corporate-feedback-form/> (<https://bkbiet.ac.in/corporate-feedback-form/>)



Criteria 3

3	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
3.1.2	CO-PO/PSOs matrices of courses	Explanation is not adequate	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.
3.1.3	Program level Course-PO/PSOs matrix of ALL courses including first year courses	PSOs are not properly defined and correlated	<p>Program-specific outcomes for the Computer Science and Engineering branch:</p> <p>PSO1: Proficiency in diverse tools and languages, apply computer engineering principles, comprehending algorithms, web design, and networking.</p> <p>PSO2: Capable in designing, developing, and implementing computer programs, leveraging diverse knowledge across multiple domains to identify research gaps and offer innovative solutions to new ideas.</p> <p>PSO3: Graduates will have strong system design and architecture knowledge for optimizing complex computing systems for performance, security, and real-time problem-solving capabilities.</p>
3.2.1	Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based	More tools for indirect assessment are need to be identified	<p>Indirect Assessment Tools:</p> <p>i) Student course outcome feedback (Co wise Questionnaire)</p> <p>ii) Faculty course feedback (Self-assessment)</p>

<p>3.2.2</p>	<p>Record the attainment of Course Outcomes of all courses with respect to set attainment levels</p>	<p>Attainment of course outcomes were not adequately computed/understood</p>	
<p>3.3.1</p>	<p>Describe assessment tools and processes used for assessing the attainment of each of the POs & PSOs</p>	<p>Tools for indirect assessment found limited</p>	<p>Indirect Assessment Tools:</p> <ul style="list-style-type: none"> iii) Student course outcome feedback (Co wise Questionnaire) iv) Faculty course feedback (Self-assessment)
<p>3.3.2</p>	<p>Provide results of evaluation of each PO & PSO</p>	<p>CO/PO/PSO attainments were not properly mapped and also not computed properly</p>	<p>CO/PO/PSO mapping and attainment Policy:-</p> <p>Our College is dedicated to maintaining a high standard of education through the systematic mapping of Program Outcomes (POs) to Course Outcomes (COs). This policy outlines the procedures for ensuring alignment, accountability, and continuous improvement in our academic programs while considering different levels of granularity.</p> <p>1. Alignment: Ensure that Course Outcomes align with Program Outcomes at varying levels of detail: 1 level, 2 levels, or 3 levels.</p>

			<p>2. Assessment: Establish a transparent process for assessing and evaluating the achievement of Course Outcomes and Program Outcomes.</p> <p>3. Resource Allocation: Consider the allocation of hours for each unit and the weightage of questions in sessional examinations to support effective learning.</p> <p>Procedure:</p> <p>Course Outcome Development:</p> <ul style="list-style-type: none"> • For each course within a program, faculty members will develop specific and measurable Course Outcomes. These outcomes may be defined at different levels: • Level 1: Broad alignment with Program Outcomes. • Level 2: Intermediate alignment with specific elements of Program Outcomes. • Level 3: Granular alignment, addressing detailed aspects of Program Outcomes. <p>Mapping Process:</p> <ul style="list-style-type: none"> • Conduct a mapping exercise at the beginning of each academic term to explicitly connect Course Outcomes to Program Outcomes at the chosen level (1, 2, or 3). <p>Resource Allocation:</p> <ul style="list-style-type: none"> • Consider the allocation of hours for each unit based on the level of detail in the mapping. For example: Level 1: Broad mapping may allocate fewer hours. Level 2: Intermediate mapping may allocate moderate hours. Level 3: Granular mapping may allocate more hours. <p>Rubric Development:</p> <ul style="list-style-type: none"> • Develop rubrics for each Course Outcome to provide clear criteria for assessment. Align rubric components with the chosen mapping level. <p>Assessment Implementation:</p> <ul style="list-style-type: none"> • Faculty members will use the established rubrics to assess student performance on assignments, projects, or exams related to the Course Outcomes. Consider the weightage of questions in sessional examinations based on the mapping level. <p>Data Collection:</p> <ul style="list-style-type: none"> • Collect data on student performance based on the rubrics. This data will be used to assess the attainment of Course Outcomes and Program Outcomes.
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Criterion 4

4	Criterion	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
4.1	Enrolment Ratio	Enrolment Ratio is 0.99	Now the Enrolment Ratio is 1.0. Details are depicted below.

Table 4.1				
Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	CAY 2023 -24	CAYm 1 2022-23	CAYm 2 2021-22	CAYm 3 (2020-2021)
Sanctioned intake of the program (N)	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)	125	124	123	129
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	NA	16	12	3
Separate division students, if applicable (N3)	NIL	NIL	NIL	NIL
Total number of students admitted in the Program (N1 + N2 + N3)	125	140	135	132

4.2.	Success Rate in the Stipulated Period of the Program		
4.2.1	Success Rate without Backlogs in any Semester/ Year of Study	Avg SI=0.29	Now the Average SI is 0.39. Details are depicted below.

Year of entry	N1 + N2 + N3 (As defined above)	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	II	III	IV
CAY (2023-2024)	125				
CAY m1(2022-2023)	140				
CAYm2 (2021-2022)	135	62			
CAYm3 (2020-2021)	132	74	62		
CAYm4 (LYG) (2019-2020)	142	63	60	55	55
CAYm5 (LYGm1)(2018-2019)	116	46	44	42	42
CAYm6(LYGm2)(2017-2018)	126	74	55	53	52
CAYm7(LYGm3) (2016-2017)	125	64	46	45	45

Item	Latest Year of Graduation, CAYm4(LYG) (2019-2020)	Latest Year of Graduation, CAYm5(LYGm1) (2018-2019)	Latest Year of Graduation minus 1, CAYm6(LYGm2) (2017-2018)
Number of students admitted in the corresponding First Year + admitted in 2 nd year via lateral entry and separate division, if applicable	135	116	126
Number of students who have graduated without backlogs in the stipulated period	55	42	52
Success Index (SI)	0.41	0.36	0.41
Average Success Index	0.39		

4.2.2	Success Rate in Stipulated Period of Study	Avg SI=0.29	Now the Average SI is 0.74. Details are depicted below:
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Year of entry	N1 + N2 + N3 (As defined above)	Number of students who have successfully graduated in the stipulated period (Total of With Backlog + Without Backlog)			
		I	II	III	IV

CAY(2023-2024)	125				
CAYm1(2022-2023)	140	123			
CAYm2 (2021-2022)	135	118	132		
CAYm3 (2020-2021)	132	128	129	129	
CAYm4 (LYG) (2019-2020)	142	124	136	135	88
CAYm5 (LYGm1)(2018-2019)	116	111	114	113	100
CAYm6(LYGm2)(2017-2018)	126	122	122	120	89
CAYm7(LYGm3) (2016-2017)	125	119	124	116	87

Item	Latest Year of Graduation, CAYm4(LYG) (2019-2020)	Latest Year of Graduation, CAYm5(LYGm1) (2018-2019)	Latest Year of Graduation, CAYm6(LYGm2) (2017-2018)
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if applicable	135	116	126
Number of students who have graduated with backlogs in the stipulated period	88	100	89
Success Index (SI)	0.65	0.86	0.71
Average Success Index	0.74		

4.3	Academic Performance in Third Year	Avg SI=5.97	Now Average API is 7.65. Details are depicted below:
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Academic Performance	CAYm4 (2019-20)	CAYm5 (2018-19)	CAYm6 (2017-18)
Mean of CGPA or mean percentage of all successful students(X)	7.2	8.7	7.04
Total number of successful students(Y)	135	113	120

4.6	Professional Activities		
4.6.1.	Professional Societies / Chapters and Organizing Engineering Events	Very less events organized at International and National Level	List of Events organized at National and International levels are mentioned below:

Total number of students appeared in the examination(Z)	135	113	120
API [X*(Y/Z)]:	7.20	8.70	7.04
Average API [(AP1 + AP2 + AP3)/4] :	7.65		

4.4	Academic Performance in Second Year	Average API=5.79	Now Average API is 7.81. Details are depicted below:
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Academic Performance	CAYm3 (2020-21)	CAYm4 (2019-20)	CAYm5 (2018-19)
Mean of CGPA or mean percentage of all successful students(X)	7.02	8.35	8.07
Total number of successful students(Y)	129	136	114
Total number of students appeared in the examination(Z)	129	136	114
API [X*(Y/Z)]:	7.02	8.35	8.07
Average API [(AP1 + AP2 + AP3)/4] :	7.81		

4.5	Placement, Higher Studies and Entrepreneurship	Avg Placement=51.33	Now the Average Placement is 72. Details are depicted below:
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Item	CAY (2023-24) Batch-2020	CAYm1 (2022-23) Batch-2019	CAYm2 (2021-22) Batch-2018
Total No. of Final Year Students (N)	129	135	113
No. of students placed in companies or	62	93	107

Government Sector (x)			
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	-	00	02
No. of students turned entrepreneur in engineering/technology (z)	00	00	04
$x + y + z =$	62	93	113
Placement Index : $(x + y + z)/N$	0.48	0.69	1.00
Average placement= $(P1 + P2 + P3)/3$	0.72		

4.6.1 Professional societies/ Chapter to organize Engineering Events (5)

S.NO.	Professional Society	Faculty In-charge	Membership Type
1	IEEE	Dr. Santosh Jangid	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. D.C Sharma	Student Chapter
6	NSS	Mr. Rahul Runthala	National Service Scheme
7	IFERP	Dr. H. Rahman	Student Chapter
8	Sports	Mr. Boolchand Kataria	Internal Committee
9	Cultural	Principal	Internal Committee
10	Nirman	Dr. Anupma Sharma	NGO
11	NCC	Mr. Anil Datika	NCC
12	BIRD	Dr. Sonam Mittal & Mr. Gaurav Sahu	International Collaboration Division(with France & Thailand)

New Clubs formed in 2023

S. No.	Department	Name of Events / Activities Club	Name of Faculty Coordinator	Name of Student Coordinators
1	ASH	Literary Club	Dr. Manusmriti Sharma	Mr Aditya Sharma /CS IInd Year
2	ASH	Speech and Debate Club	Dr. Anupama Sharma	Ms Nisha Sangwan / Ist Year
3	ASH	Yoga and Health Club	Dr. Krishna Meel	Mr. Karan / CS Ist Year
4	ASH	Halls of Knowledge & Creativity	Mr. Jitender Kumar	Mr. Ayush Sinha/ CS Ist Year Mr. Kartik Jangir/ IT Ist Year
5	ASH	Victory Terminus Mathematics Club	Dr. Vikas Tailor	Mr. Nitesh Kumar/ ECE Ist Year
6	ASH	Soft Computing Mathematical Association (SCOMA)	Dr. Vipin Kumar,	Mr. Naman/ AI Ist Year
7	ASH	Eco Club	Dr. Rashmi Jangir	Ms. Anushka/ CS Ist Year
8	EE	Literary Club aka "Talkspiration Club"	Dr. Nishant Kumar	Mr. Amit /III yr Ms. Diya Jangir /III yr Mr. Himanshu Lamoria / Ist yr Ms. Khushi / Ist Yr
9	EE	Maths Club	Mr Rajesh Singh Shekhawat	Mr Sachin/II year
10	EE	Science Club	Mrs. Monika Shekhawat	Mr Chinmay Jain / IInd Year Mr. Sachin/ IInd Year Mr. Dheeraj /IIIrd

				Year Ms Komal /IIIrd Year
11	EE	Photography Club	Mr. Anuj Sharma	Ms Saloni Kashyap/ IIIrd Year
12	EE	Sports Club	Mr Vikas Kumar	Mr Sahil Bhardwaj (21EBKAI019) / IInd Year Mr Aman Kumar (21EBKCS012) / IInd Year
13	CSE	Tech Trends Club	Mr Vipin Saraogi/ Mr Jitender	Mr. Utsay Agarwal/ CS IInd Year
14	CSE	Literary Club	Dr. Abhishek Pandey/ Mr Anil Datika	Mr. Prashant Kaushik/ CS IInd Year
15	CSE	EAC (Ethical Awareness Club)	Mr Manoj Kumar Saini	Mr. Akhil Rohil /IT IInd Year
16	CSE	Fusion Hub	Dr. Sonam Mittal/ Ms Reena Saini	Mr. Jatin/ CS IIIrd Year
17	CSE	Seminar Savants	Mr Nachiket Saini	Mr. Jatin Panwar/ DS IInd Year Mr. Mayur Sharma/ AI IInd Year Mr. Akhil Rohil/ IT IInd Year
18	CSE	DCE - Data clumsy Elites	Mr Manoj Kataria/ Ms Ruchi Sharma	Mr. Vinay Pratap Singh Rathor/ CS IIIrd Year Mr. Mayank Jaiswal/

				CS IIIrd Year
19	CSE	Google Developer Student Clubs (GDSC)	Mr. Himanshu Verma	Aditya Sharma (CS-4th Sem)
20	ECE	IETE	Mr. Rahul Runthala	Kamlesh Kumar(CS-4th Sem)
21	CSE	Newton School Coding Clubs	Mr. Vipin Saraogi	Ankit Kulhari (CS-4th Sem)
22	ECE,EE	IEEE	Dr. Santosh Jangid	Chirag Solanki (CS-6th Sem)
23	BKBIET	ECELL	Dr. Santosh Jangid	Utkarsh (CS -6th Sem)
24	BKBIET	IE(I)	Mr. Himanshu Verma	Mr. Sankalp Haritash (CS I6th sem)
25		Placement cell	Mr. Ritesh Gautam	Mayank Jaswal (CS -6th Sem)
26	Roboston	Robotics	Mr Gaurav Sahu	
27	BKBIET	Nirman	No One - Everything manage by students themselves	Komal Jangir (EE 6th Sem)
28	BKBIET	Dance Club	No One - Everything manage by students themselves	Bhauk Gaur and Tanu Lamba (CS -4th Sem)
29	BKBIET	Singing & Music Club	No One - Everything manage by students	Vinshee Kulshretha (AI 4th sem)

			themselves	
30	BKBIET	Fitness Club (Gym)	Mr. Jayendar Singh Parmar	Mr. Kuldeep/ ECE IIIrd Year Mr. Vansh Verma/ CS IIInd Year
31	BKBIET	NCC (National Cadet Corps)	Mr. Anil Datika	Mr. Parshant SUO (BKBIHE) Mr. Mohit UO / Ist Year
32	BKBIET	National Service Scheme (NSS)	Mr. Rahul Runthala	Govind Sain & Gaurav Kumar (EE IVth Year)
33	CSE	Data CLUMSY Elite	Ms. Ruchi Sharma	Vinay Pratap Singh Rathore CS-B VI Sem & Mayank Jaiswal CS-B VI Sem

Events, Programs, Seminars Organized In Institute (2020-21, 2021-22, 2022-23 & 2023-24)

S.NO.	EVENTS	DATE	ORGANISING BODY	FACULTY COODINATOR
(1)	Blood donation camp on BK Birla Jayanti	13-01-2020	NSS and Nirman	Rahul Runthala
(2)	Republic Day celebrated at BKBIET	26-01-2020	NSS	Rahul Runthala
(3)	International Internship	22-01-2020	BIRD	Dr. Sonam Mittal & Mr. Gaurav Sahu
(4)	One day Talk on energy and environment	12-01-2020	IEI	Mr. Himanshu Verma
(5)	IETE Student's Day Celebration	01-02-2020	IETE	Dr. Krishna Meel

(6)	15-day campaign Swachhata Pakhwara-2019	3-2-2020	NSS	Rahul Runthala
(7)	Best paper award – institution of engineer	12-02-2020	EE	Dr. Smita Pareek
(8)	3 days program on Ram Charit Manas Sermon	18-02-2020	BKBIET	
(9)	Expert Lecture on communication through advertisement	20-02-2020	CSE	Dr. Nimish Kumar
(10)	AI branch start in B-Tech in BKBIET	28-06-2020	BKBIET	Dr. Nimish Kumar
(11)	Virtual talk on futuristic engineering	29-06-2020	ECE	Dr. Santosh Jangir
(12)	BKBIET ready to take online classes	02-07-2020	BKBIET	Director
(13)	Automatic Sanitizer Machine	05-07-2020	CSE	Dr. Nimish Kumar
(14)	BTTI and BKBIET The staff of the institute made and gifted a 'sanitizing machine'	08-07-2020	BKBIET	Mr. Narendra Sharma
(15)	BKBIET Pilani and I.I.T. Delhi Coworking in Labs	09-07-2020	ECE	Dr. Santosh Jangir
(16)	Virtual lab starts in BKBIET	10-07-2020	ECE	Dr. Santosh Jangir
(17)	B.K.B.I.E.T. In Rajasthan's 'A Grade Ranking'	11-07-2020	BKBIET	Director
(18)	Birla Charit Manas Book Part	14-07-	MEDIA	Mr. Keshav

	- First Lokparna	2020		Khandelwal
(19)	More than 105 Students got Job in BKBIET	19-07-2020	Placement Cel	Placement cell
(20)	Three day online workshop on 'NBA Accreditation Process' at BKBIET	29-07-2020	CSE	Dr. Nimish Kumar
(21)	Plantation news	09-08-2020	BKBIET	All Staff
(22)	Celebrated 74th Independence Day in BKBIET	15-08-2020	BKBIET	All staff
(23)	5 days FDP Program on Applications of optimization techniques in science and engineering.	29-08-2020	APPLIED SCIENCE	Dr. Y K Gupta
(24)	Virtual Talk on Masters Opportunities in France jointly organized by BKBIET International Relations Division (BIRD) & IEEE BKBIET Student Branch	01-09-2020	BIRD & IEEE	Dr. Sonam Mittal & Mr. Gaurav Sahu
(25)	Online Webinar on "Cyber Physical Systems	05-09-2020	IETE	Dr. Krishna Meel
(26)	Virtual Talk on Masters in France	06-09-2020	BIRD	Dr. Sonam Mittal & Mr. Gaurav Sahu
(27)	Orientation Program	17-10-2020	APPLIED SCIENCE	Dr. Y K Gupta
(28)	Online one day Webinar on "Motivation for Students from our Alumni	30-10-2020	IETE	Dr. Y K Gupta
(31)	BKBIET students bring glory	01-12-	CSE	Dr. Nimish Kumar

		2020		
(29)	Five day online workshop organized on the topic of Machine Learning with Python	12-12-2020	CSE	Dr. Nimish Kumar
(30)	3 days FDP program on Machine learning and deep learning	18-12-2020	ECE	Dr. Santosh Jangid
(31)	One day talk on communication through advertising	25-12-2020	CSE & EE	Dr. Santosh Jangid Dr. Nimish Kumar
(32)	Three-day webinar on Virtual Talk Series on Inspire to Innovate for Futuristic Engineering	28-12-2020	ECE	Dr. Santosh Jangid
(33)	Environmental protection activity program	09-01-2021	IEI	Mr. Himanshu Verma
(34)	BK BIRLA Jayanti(Birthday) per Vishnu shastranaam Paadh.	12-01-2021	BKBIET	Director BKBIET
(35)	Youth Week Celebration at BKBIET	13-01-2021	NCC	Mr. Anil Datika
(36)	5 days Workshop on IOT	19-01-2021	CS	Dr. Nimish Kumar
(37)	Flag Hoisting Program at BKBIET	26-01-2021	NCC	Director
(38)	International Seminar for Higher Studies in France	29-01-	Bird	Dr. Sonam Mittal & Mr. Gaurav Sahu

		2021		
(39)	One Day Industrial Expert Lecture on Innovative Engineering Application	5-02- 2021	ECE	Dr. Santosh Jangid
(40)	Youth week Celebration	9-02- 2021	BKBIET	Director BKBIET
(41)	4 days Velorant Game Program	9-02-2021	CS	Dr. Nimish Kumar
(42)	NPTEL Awareness Workshop	17-02-2021	CS	Dr. Nimish Kumar
(43)	5 days Faculty development Program on MATLAB .	25-02-2021	ECE	Dr. Santosh Jangid
(44)	5 days Faculty Program on Renewable Energy Technology.	04-03-2021	EE	Dr. Smita Pareek
(45)	Student won the prize for searching Bug	13-03-2021	CS	Dr. Nimish Kumar
(46)	Swachta Abhiyaan Under NCC	17-03-2021	NCC	Mr. Anil Datika
(47)	Online International Conference (RACME)	19-03-2021	Applied Science	Dr. Y K Gupta
(48)	I.O. T. The home automation project was completed and demonstrated by Innovation Cell	25/03/2021	BIC	Dr. H. Rahaman
(49)	23 students Got Scholarship under IEEE	25-03-2021	ECE	Dr. Santosh Jangid
(50)	One day seminar on VLSI	30-03-2021	ECE	Dr. Santosh Jangid

(51)	Online One Day International Workshop on "Industrial Management"	09-04-2021	Mechanical	Mr. D C Sharma
(52)	On "Eco Literature and Epidemics" Online One Day International Webinar	13-04-2021	Applied Science	Dr. Y K Gupta
(53)	Various topics mentioned in the Webinar on Career Opportunity.	14-06-2021	EE	Dr. Smita Pareek
(54)	Webinar organized on "Cyber Security: Ensuring Secure Digital Transactions"	18-06-2021	BKBIET	Dr. Nimish Kumar
(55)	Student made mobile washing machine	19-06-2021	ECE	Dr. Santosh Jangid
(56)	Department of Computer Science and Engineering recognized by the National Board of Accreditation	17-07-2021	CS	Dr. Nimish Kumar
(57)	GATE Orientation Program for Engineering Students	31-07-2021	CS	Dr. Nimish Kumar
(58)	Webinar on Diluting Stress for Quality Life	02-08-2021	IETE	Dr. Krishna Meel
(59)	One Day Online Webinar on Artificial Intelligence for Mechatronics	12-08-2021	ECE	Dr. Santosh Jangid
(60)	Amrit Festival of Freedom	13-08-2021	NCC	Mr. Anil Datika
(61)	Online Webinar on NBA	14-08-	CS	Dr. Nimish Kumar

		2021		
(62)	Electronics branch student got a package of 12 lakhs	26-08-2021	Placement cell	Placement Cell
(63)	(Data Science) new course will be started in BKBIET	28-08-2021	CS	Dr. Nimish Kumar
(64)	One Day Online Webinar on “Reducing Stress for a Quality Life” in association with IETE Student Forum Pilani (ISF) and IETE Pilani Center	04-10-2021	IETE	Dr. Krishna Meel
(65)	Brilliant performance by cadets, a flurry of medals	20-10-2021	NCC	Mr. Anil Datika
(66)	Visit by French Embassy	21-10-2021	BIRD	Dr. Sonam Mittal & Mr. Gaurav Sahu
(67)	Technical festival Vibes-21 organized at BKBIET	23-10-2021	BKBIET	Dr. Sntosh Jangid
(68)	Visit of the representatives of the French Embassy to BKBIET	25-10-2021	BIRD	Dr. Sonam Mittal & Mr. Gaurav Sahu
(69)	Organized a motivational invited talk on 'Career Counseling'	24-11-2021	IETE	Dr. Krishna Meel
(70)	Pledge for COVID-19 Prevention	24-11-2021	NCC	Mr. Anil Datika

(71)	NCC cadets cleaned under Swachh Bharat Abhiyan	25-11-2021	NCC	Mr. Anil Datika
(72)	Free Dental Camp at BKBIET	25-11-2021	BKBIET	NSS
(73)	"Organizing Tree Plantation Campaign"	27-11-2021	BKBIET	NSS
(74)	Illuminated the name of BKBIET organization(Rajat Sharma)	03-12-2021	EE	Dr. Smita Pareek
(75)	Technical event "Android Study Jams" organized	04-12-2021	CS	Dr. Nimish Kumar
(76)	A webinar was organized by IETE Pilani centre and ISF BKBIET Pilani on 'Flexible and Printed Devices for Next-Generation Electronics'	04-12-2021	IETE	Dr. Krishna Meel
(77)	Coding class and Code-a-thon organized at BKBIET	06-12-2021	CS	Dr. Nimish Kumar
(78)	Three day workshop on "Internet of Things"	08-12-2021	ECE	Dr. Santosh Jangid
(79)	One Day Online Webinar on "Awareness on drug addiction among youth"	17-12-2021	IETE	Dr. Krishna Meel
(80)	International Mother Language Day	22-02-2022	NSS	Mr. Rahul Runthala

(81)	NCC celebrated 'Dhara Diwas' and 'Punit Sagar Campaign	22-04-2022	NCC	Mr. Anil Datika
(82)	Inauguration ceremony of MUN at BKBIET	23/04/2022	BKBIET	Director BKBIET
(83)	One day talk on 'VLSI'	02-05-2022	ECE	Dr. Santosh Jangid
(84)	One Day Workshop on "GitHub and Web" organized	04-05-2022	CS	Dr. Nimish Kumar
(85)	International Industry-Academia Meet	07-05-2022	CS	Dr. Nimish Kumar
(86)	One Day Workshop on Machine learning	14-05-2022	CS	Dr. Nimish Kumar
(87)	7 day yoga camp	25-05-2022	NSS	Mr. Rahul Runthala
(88)	B.K.B.I.E.T. Synopsis Inc. awarded to three U.S. students 14 lakh package	26-05-2022	Placement Cell	Placement cell
(89)	Group Commander inspected 1 Raj (CTR and Indep)	28/05/2022	NCC	Mr. Anil Datika
(90)	Online International Conference on Recent Advances in Computational Mathematics and Engineering	30-05-2022	Mathematics	Dr. Y K Gupta
(91)	BKBIET Students Ranked first at National level in Smart India Hackathon- 2022.	30-08-2022	CSE	Dr. Nimish Kumar
(92)	Newton School coding club	01-092022	CSE	Dr. Nimish Kumar

	organized 2.5 hours coding competition.			
(93)	6 Days Workshop on Skill Development Program (SDP)	02-09-2022	ECE	Dr. Santosh Jangid
(94)	Gigarobo-BKBIET team participated in Smart India Hackathon (SIH) 2022 Grand Finale at Reva University.	12-09-2022	BKBIET	Dr. H. Rahaman
(95)	Online Workshop on "Intellectual Property Rights (IPR) & Patent & Design Filing"	13-09-2022	ECE	Dr. Santosh Jangid
(96)	Online Faculty Development Program on "Energy Harvesting and Storage Materials and Equipment"	15-09-2022	EE	Dr. Smita Pareek
(97)	Students of BKBIET Ashish Kumar selected in Indian Army Camp.	16-09-2022	NCC	Mr. Anil Datika
(98)	BIC E Cell organizes a one day workshop visit to encourage startups in BKBIET in association with Pilani Innovation and Entrepreneurship Development Society (PIDES) TBI BITS Pilani.	17-09-2022	BIC	Dr. H. Rahaman
(99)	World Tourism Day(1 Raj CTR NCC) Street play on "Cleaning of water bodies" on	25-09-2022	NCC	Mr. Anil Datika

	the occasion of World Tourism Day.			
(100)	An online session Under-Newton School Coding Club (NSCC)"How to Get Internship Opportunities"	26-09-2022	CSE	Dr. Nimish Kumar
(101)	Garba Night -Cultural Program	26-09-2022	CSE	Dr. Nimish Kumar
(102)	Short Term Course On “Nanotechnology Developments and Challenges”	27-09-2022	ECE	Dr. Santosh Jangid
(103)	Secure Meters gave a package of 5.0 lakhs to 23 students.	28-09-2022	Placement	Plcement Cell
(104)	Coding Contest -Newton School coding Club	28-09-2022	CSE	Dr. Nimish Kumar
(105)	One day Seminar Seminar on Foreign Exchange Program and Importance of French Language Learning.	30-09-2022	BIRD	Dr. SonaM Mittal Mr. Gaurav Sahu
(106)	Meeting with VC(BTU) Courtesy call with BTU Vice Chancellor for Center of Excellence	30-09-2022	CSE	Dr. Nimish Kumar
(107)	Coding competition organized by computer science students under Newton School Coding Club(NSCC)	01-10-2022	CSE	Dr. Nimish Kumar

(108)	Gandhi Jayanti and Lal Bahadur Shastri Jayanti were organized on 2nd October at BKBIET.	02-10-2022	BKBIET	Director BKBIET
(109)	Firing competition(NCC) - Sergeant Ashish Kumar made the Institute proud by winning the Gold Medal for "Best Cadet"	02-10-2022	NCC	Mr. Anil Datika
(110)	7 Days - Organizing Online Short Term Course "IoT Enabled PLC" Course	10-10-2022	EE	Dr. Smita Pareek
(111)	Visit by the French Embassy at BKBIET	14 Oct.2022	BIRD	Dr. Sonam Mittal & Mr. Gaurav Sahu
(112)	International meeting with French Institute (CY Tech)	20-10-2022	BIRD	Dr. Sonam Mittal & Mr. Gaurav Sahu
(113)	In BOSM -2022 BKBIET Student Mohammad Asif won silver medal.	21-10-2022	Sports	Mr. Boolchand Kataria
(114)	B.Tech. Orientation program of the students of the new session was held in the campus .	01-11-2022	Applied Science	Dr. Y K Gupta
(115)	7 Days Short term course On OFC design and simulation.	07-11-2022	ECE	Dr. Santosh Jangir
(116)	69 Foundation Day of IETE Pilani Center celebrated at	14-11-2022	IETE	Dr. Krishna Meel

	BKBIET.			
(117)	A seven day Swar Sangam workshop was organized at BKBIET.	15-11-2022	BKBIET	Ms. Ruchi Sharma
(118)	Nova Fiesta-2022-Fresher's Welcome Program was organized for the newly arrived students.	17-11-2022	Applied Science	Dr. Y K Gupta
(119)	Three day national level event , BKBIET students showcased their talent representing the institute at Pusa Delhi.	23-11-2022	BKBIET	Dr. Nimish Kumar & Dr. Smita Pareek
(120)	Online short term courses On Artificial and Optimization Technique	25-11-2022	EE	Dr. Smita Pareek
(121)	2-day workshop Introduced to the interface of Figma.	01-12-2023	CSE	Dr. Nimish Kumar
(122)	Google Developer Students Club (GDSC) organized a 'Treasure Hunt'.	11-12-2022	CSE	Dr. Nimish Kumar
(123)	Workshop organized on National Energy Conservation Day.	15-12-2022	CSE	Dr. Nimish Kumar
(124)	Workshop on AICTE Idea Lab	21-12-2022	BKBIET	Dr. Nimish Kumar
(125)	One Day Panel Discussion on Entrepreneurship by BKBIET e-Cell	15-07-2023	E-Cell	Dr Hasibur Rehman

(126)	Industry interaction and career guidance session organized at BKBIET	17 -07-2023	EE	Dr Smita Pareek
(127)	IETE Pilani Center celebrates World Telecommunication and Information Society Day at BKBIET	24-07-2023	IETE	Dr Krishna Meel
(128)	Virtual session on NBA Recognition organized by BKBIET(GDSC)	27-08-2023	CSE	Dr Nimish Kumar
(129)	One day seminar on National Education Policy-2020 at BKBIET	14-08-2023	E-CELL	Dr Hasibur Rehman
(130)	A virtual session on “How to crack top product-based companies” organized at BKBIET	27-08-2023	CSE	Dr Nimish Kumar
(131)	Induction Program-2023 organized in B.K.B.I.E.T.	01-09-2023	APPLIED SCIENCE	Dr Y. K Gupta
(132)	Chandrayaan Mahotsav organized in BKBIET	04-09-2023	E-CELL	Dr Hasibur Rehman
(133)	Teacher's Day celebrated by BKBIET and BKBIHE	05-09-2023	BKBIET	Director Sir
(134)	Essay writing and speech competition organized in BKBIET on the occasion of Rajasthan Mission 2023.	07-09-2023	NCC	Mr Anil Datika

(135)	BKBIET department organizes special workshop on NBA admission process	09-09-2023	CSE	Dr Nimish Kumar
(136)	Smart India Hackathon-2023 organized at BKBIET	12-09-2023	E CELL	Dr Hasibur Rehman
(137)	Workshop on Circuit Designing and Simulation at BKBIET	03-10-2023	IETE	Dr Krishna Meel
(138)	IEEE Day celebrated at BKBIET	05-10-2023	IEEE	Dr Krishna Meel
(139)	One day webinar organized on IoT in BKBIET	26-10-2023	ECE	Dr Santosh Jangir
(140)	BKBIET organizes workshop on MATLAB	28-10-2023	ECE	Dr Santosh Jangir
(141)	Organization of an expert talk on growth and startup ecosystem	01-11-2023	BKBET	Director Sir
(142)	Seminar organized on "Ecotarium and awareness on climate change"	02-11-2023	BKBIET	Director Sir
(143)	Workshop on Roadmap: Making Your Way in Engineering	20-11-2023	ECE	Dr Santosh Jangir
(144)	Women Entrepreneurship Day organized	21-11-2023	E CELL	Dr Hasibur Rehman
(145)	Workshop on Internet of Things (IoT) organized at BKBIET	22-11-2023	ECE	Dr Santosh Jangir
(146)	Cracking the Code: An Introductory Web	23-11-2023	IEEE	Dr Santosh Jangir

	Development Workshop			
(147)	Seven-day cultural workshop Swar Sangam inaugurated at BKBIET	26-11-2023	BKBIET	Director Sir
(148)	Dialogue on Assistive e-mobility to empower elderly and disabled people at BKBIET	12-12-2023	BKBIET	Director Sir
(149)	Invited talk on fundamental studies on plasma focused devices and their applications organized at BKBIET	14-12-2023	IETE	Dr Y. K Gupta
(150)	Workshop on “Start, Build, Finish” organized at BKBIET	15-12-2023	IEEE	Dr Santosh Jangir
(151)	Online session organized on emerging technologies of Web 3.0 and Block chain development at BKBIET	16-12-2023	CSE	Dr Nimish Kumar
(152)	Technical workshop on Arduino coding organized at BKBIET	19-12-2023	ECE	Dr Santosh Jangir
(153)	A talk on career trends in electrical engineering organized at BKBIET	21-12-2023	EE	Dr Smita Pareek

4.6.2	Publication of Technical Magazines, Newsletters, etc.	Quality /Relevance need further Improvement	Publication of Technical Magazines and Newsletters are depicted below:
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Year-2020-21

S.No.	Year	Student Coordinator	Editor	Publication	Number of students participated
1	2020-21	Manal Swami, CS	Dr. Krishna Meel	IETE Newsletter	345
2	2020-21	Kumar Sachin, ECE	Dr. Santosh Jangid	IEEE Newsletter	150
3	2020-21	IEI Local Centre	Dr. Kuldeep Sangwan & Mr. Himanshu Verma	IEI Newsletter	IEI Local Centre
4	2020-21	Amit Tiwari, IT	Placement cell	Placement cell newsletter	174

Year-2021-22

S. NO	Year	Student Coordinator	Editor	Publication	Number of students participated
1	2020-21	Manas khetan, ECE	Dr. Krishna Meel	IETE Newsletter	569
2	2020-21	Cherry Vaish, CS	Dr. Santosh Jangid	IEEE Newsletter	80
3	2020-21	IEI Local Centre	Dr. Kuldeep Sangwan	IEI Newsletter	IEI Local Centre

			& Mr. Himanshu Verma		
4	2020- 21	Samiksha Bhatnagar,IT	Placement cell	Placement cell newsletter	158

Year- 2022-23

S. NO	Year	Student Coordinator	Editor	Publication	Number of students participated
1	2022- 23	Kamlesh, CS	Dr. Krishna Meel	IETE Newsletter	680
2	2022- 23	Chirag Solanki,CS	Dr. Santosh Jangid	IEEE Newsletter	50
3	2022- 23	IEI Local Centre	Dr. Kuldeep Sangwan & Mr. Himanshu Verma	IEI Newsletter	IEI Local Centre
4	2022- 23	Sachin , ECE	Placement cell	Placement cell newsletter	200

4.6.3	Participation in Inter-institution Events by Students of the Program of Study	Few Students availed exchange program with international Universities.	Participation of students within the state and outside the state is mentioned below:
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S.No.	Year	Event Name	Project Title & Qualified Level	Students data
1	2020- 21	Smart India Hackathon	Developing A Block Chain. Use of digital technology to	66 Students participated in 11 teams. Details of the team members mentioned below : Team 1: THE_CYPHERS_RJ

			<p>calculate water foot prints.</p> <p>Participation Certificate awarded</p>	<p>Ronak Janawa, Manoj Kumar Tak, Shreshth Bansal, Shreenidhi Vyas, Vatsla Garg, Kartik Rana</p> <p>Team 2: Error_Not_Found_SG Shivam Gujran, Suraj Singh Shekhawat, Rohit, Nishant Kashyap, Pinky, Reena Goyal</p> <p>Team 3: Clan_of_Code_NG Nikhil Gupta, Tanuj Kumawat, Harish Kumar Jangir, Deepak Aggarwal, Vishakha Rungta, Harandra Bhardwaj</p> <p>Team 4: Team_OK_SS Sameer Saini, Rekha, Mansi Gupta, Shubham Bhodiwal, Mayank Gaur, Vaibhav Vyas</p> <p>Team5: ALPHA_TEAM_AKS Aniket Kumar Sinha, Karishma Verma, Anshika Gupta, Komal Sharma, Perna Gupta, Ramakrishna Chhipa</p> <p>Team6: LUCIFERS_MS Manal Swami, Ankit Kumari, Harsh Garg, Kaddafee Khokhar, Aman Soni, Abhay Sharma</p> <p>Team 7: MiniHydroTurbine_KS Kumar Sachin, Kanchan Tanwar, Anushka Tiwari, Khushi Tanwar, Abhishek Singh Tanwar, Perna Kamat</p> <p>Team 8: MIND HUNTERS_bs Bharat Singh, Ummed Singh, Ayushi Dokwal, Himanshu Sangwan, Abhinandan Singhal, Anshul Mandrelia</p> <p>Team 9: Ode_To_Program_LSM Lalit Shah Modani, Ashish Kumar, Chinmay Sahal, Dev Bansal, Kamayani Goswami, Harsh Gupta</p> <p>Team 10: Team_Titans_KT Khushi Tulsian, Bhawani Pareek, Molishka, Kushagra Misra, Vikas Yadav, Atul Garg</p> <p>Team 11: Tycoons_VB Varun Bhutada, Siddharth Sharma, Vibuti Shukla, Siddhant Pratap Singh, Manikant Bhatt, Mukesh Tak</p>
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S.No.	Year	Event	Project title&	Students data
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		Name	Qualified Level	
1	2022-23	Smart India Hackathon	<p>1.Apps for controlling screen time of children.(from ministry of electronics and information technology)</p> <p>2. Robot for dedicated tasks like planting, cleaning.(from govt. of Rajasthan)</p> <p>Team 1 @ Bageswari college of engineering Karimnagar(Telangana) Winner</p> <p>Team 2 @ Reva University Bengaluru: Runner</p> <p>2 Teams qualified for Grand Finale</p>	<p>48 Students participated. Details of the team members mentioned below :</p> <p>Team1: MINIONS_BKBIET Ojas Sharma, Naman Gupta, Abhinandan Yadav, Raghav Saxena, Ishan Agrawal, Ira Goyal</p> <p>Team2: GIGAROBO_BKBIET Karanpal, Palak, Megha, Ananya Maheshwari, Sachin, Praveen Saini</p> <p>Team3: VISION_BKBIET Deepanshu, Pooja, Aartee, Arvind Jangir, Kuldeep Saini, Bharat Dayal</p> <p>Team4: Since Codex_BKBIET Utkarsh Payal, Deepak Kumar, Pankaj Meena, Deepak Verma, Pooja Kumari, Sumit Jangir</p> <p>Team5: Tiny Coders_BKBIET Vineet Mishra, Chinmay Jain, Amit Kumar, Lucky, Pankaj, Mukesh Tak</p> <p>Team 6: Split Bots Bhavishya Saini, Ayushi Tamboli, Mahika Pandey, Bhervesh Daiya, Lokesh, Rakesh</p> <p>Team 7: Mayank Jaiswal, Prasang Agarwal, Shristi Agarwal, Shruti Agarwal, Upasna Sharma, Vinay Pratap Singh</p> <p>Team 8: Molishka, Chandan Kumar, Divesh, Khushi, Nishant, Renu</p>

S.No.	Year	Event Name	Project title& Qualified Level	Students data
1	2023-24	Smart India Hackathon	Robot for Patient Care with fully automated	Pankaj, Abhinandan Sharma, Mayur Sharma, Abhay Latta, Devansh Indoriya, Vaishnavi Nair

			Delivery and Check-up in the Health Sector	
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List of Awards Received In The Games & Sports Events Organized By Other Institutes:

Participation list 2019-20					
S.NO.	Name of Student	Name of Event/ Organizer	Participated	Awarded	Remarks
1.	1. Rahul Chandola(Captain) 2. Tushar 3. Hemant Singh Shekhawat 4. Nishant Dahiya 5. Sandeep Swami 6. Arpit Yadav 7. Tilak Sangwan	Power lifting /BOSM(BITS OPEN SPORTS FEST 2019) (13 th September to 17 th September 2019)	07	III Position III Position III Position	59 Kg (S.No. 1.1) 66 Kg (S.No. 1.2) 53 Kg (S.No. 1.7)
2.	1. Rahul Chandola(Captain) 2. Tushar 3. Anil Singh 4. Sandeep Swami 5. Tilak Sangwan	Bodybuilding /BOSM(BITS OPEN SPORTS FEST 2019) (13 th September to 17 th September 2019)	05	 II Position III Position	 60 Kg (S.No. 2.4) 60 Kg (S.No. 2.5)
3.	1. Nishant Dahiya 2. Subhash Chand Rai 3. Arpit Yadav 4. Nikhil Mittal 5. Abhishek Singh Tanwar 6. Shivam Yadav (Captain) 7. Dhanendra Singh Chauhan 8. Hemant Singh Shekhawat	Athletics(Boys) /BOSM(BITS OPEN SPORTS FEST 2019) (13 th September to 17 th September 2019)	08		
4.	1. Supriya	Athletics(Girls) /BOSM(BITS OPEN SPORTS FEST 2019) (13 th September to 17 th September 2019)	01	II Position	400 Mtrs.
5.	1. Ashutosh (Captain) 2. Anuj Sharma 3. Archit Dada 4. Aditya Kumar Gaur 5. Tarun Goyal	Badminton (Boys) /BOSM(BITS OPEN SPORTS FEST 2019) (13 th September to 17 th September 2019)	05	Participant	

6.	1. Vaishali Bhardwaj(Captain) 2. Priyanka Vyas 3. Smiksha Bhatnagar 4. Aradya	Badminton (Girls) /BOSM(BITS OPEN SPORTS FEST 2019) (13 th September to 17 th September 2019)	04	Participant	
7.	1. Karunavtar Verma (Captain) 2. Anuj Kumar 3. Abhinav Gupta 4. Jatin Jangir 5. Chetan Sharma 6. Avan Khangwal 7. Shubham Singh 8. Vikas Sharma 9. Avinash Gupta	Volleyball (Boys) /BOSM(BITS OPEN SPORTS FEST 2019) (13 th September to 17 th September 2019)	09	Participant	
8.	1. Vikas Sharma (Captain) 2. Vinesh Sharma 3. Yagesh Jangir 4. Saurabh 5. Nishant Redu 6. Rahul Gehlot 7. Tejpal Singh 8. Harsh Dixit 9. Vivek 10. Devendra Sharma 11. Subhash Chand Rai 12. Ritvik Bhomia 13. Bhushan Verma 14. Rohit Mittal 15. Shivam Yadav	Cricket (Boys) /BOSM(BITS OPEN SPORTS FEST 2019) (13 th September to 17 th September 2019)	15	Participant	
9.	1. Hemant Yadav (Captain) 2. Nikuj Jindal 3. Satikanta Banerjee 4. Vaibhav Jha 5. Abhishek Singh Tanwar 6. Abhishek Pratap 7. Md. Javed Khan 8. Varun Saini 9. Parth Arya 10. Dhanendra Singh Chauhan 11. Sanjay Singh 12. Devang Vijay 13. Mayank Varama 14. Siddarth Rana	Football (Boys) /BOSM(BITS OPEN SPORTS FEST 2019) (13 th September to 17 th September 2019)	18	Participant	

	15. Sudhanshu Sharma 16. Parveen Ahlawat 17. Shivam Yadav 18. Harsh Dahiya				
10.	1. Nikhil Mittal (Captain) 2. Sahil Maharia 3. Hemant Singh Shekhawat 4. Yashasvi Kulhar 5. Naveen Meel 6. Aditya Dadhich 7. Harshvardhan Singh 8. Sachin 9. Tushar Nishad 10.Sagar Rana	Basketball(Boys) /BOSM(BITS OPEN SPORTS FEST 2019) (13 th September to 17 th September 2019)	10	Participant	
11.	1. Karunavtar Verma 2. Naveen Soni	Carom (Boys) /BOSM(BITS OPEN SPORTS FEST 2019) (13 th September to 17 th September 2019)	02	Participant	
12.	1. Karunavtar Verma 2. Subhash Chand Rai 3. Naveen Soni	Chess (Boys) /BOSM(BITS OPEN SPORTS FEST 2019) (13 th September to 17 th September 2019)	03	Participant	
13.	1. Shivam Yadav 2. Abhishek Vashist 3. Tapish Choursiya	Table Tennis(Boys) /BOSM(BITS OPEN SPORTS FEST 2019) (13 th September to 17 th September 2019)	03	Participant	
14.	1. Harsh Dixit (Captain) 2. Subhash Chand Rai 3. Nishant Redu 4. Ritvik Bhomia 5. Vivek 6. Devendra Sharma 7. Abhishek Sharma 8. Vikash Poonia 9. Rohit Sharma 10. Tarun Sharma 11. Mohit Boyat	Cricket (Boys) / Desportivos'20 (LNM Institute of Information Technology, Jaipur. 2020)	11	Participant	24 th Jan. To 26 Jan 2020
15.	1. Nikhil Mittal 2. Hemant Singh Shekhawat 3. Sahil Maharia	Basketball (Boys) / RANN '20 (KIET Group of Institutions,	11	Participant	21 st Feb to 23 rd Feb 2020

	<ul style="list-style-type: none"> 4. Yashasvi Kulhar 5. Aditya Dadhich 6. Tushar Nishad 7. Ajay Kumar 8. V.Pranav Kotech 9. Naveen Meel 10. Ashish Panwar 11. Tilak Sangwan 	Ghaziabad. 2020)			
16.	<ul style="list-style-type: none"> 1. Varun Saini 2. M. Javed Khan 3. Dhanendra Singh 4. Abhishek Pratap 5. Abhishek Sharma 6. Shudanshu Sharma 7. Satikanta Banerjee 8. Niqunj Jindal 9. Devang Vijay 10. Himanshu Saurabh 11. Sagar Rana 12. Abhishek Singh 13. Devanshu Garg 14. Vishwaraj Singh 15. Hemant Singh 	Football (Boys) / MST (05 th March to 7 th March 2020) an open sports meet of MNIT Jaipur (Rajasthan)	15	I Position	05 th March to 7 th March 2020
17.	<ul style="list-style-type: none"> 1. Ashutosh 2. Anuj Sharma 3. Aditya Gaur 4. Archit 5. Priyanshu 	Badminton (Boys) / MST (05 th March to 7 th March 2020) an open sports meet of MNIT Jaipur (Rajasthan)	05	Participant	05 th March to 7 th March 2020
18.	<ul style="list-style-type: none"> 1. Ashish Panwar 2. Sahil Maharia 3. Yashasvi Kulhar 4. Tushar Nishad 5. Aditya Dadhich 6. Ankit Kataria 7. Mukul 8. Naveen Meel 	Basketball (Boys) / MST (05 th March to 7 th March 2020) an open sports meet of MNIT Jaipur (Rajasthan)	08	Participant	05 th March to 7 th March 2020

19.	1. Tilak Sangwan 2. Tushar Budhiraja 3. Shubham	Powerzone (Boys) / MST (05 th March to 7 th March 2020) an open sports meet of MNIT Jaipur (Rajasthan)	03	Participant	05 th March to 7 th March 2020
20.	1. Manoj Kumar 2. Yogender 3. Vinay Sarolia	Chess (Boys) / MST (05 th March to 7 th March 2020) an open sports meet of MNIT Jaipur (Rajasthan)	03	Participant	05 th March to 7 th March 2020

Games & Sports Events and Participations List (2020-21, 2021-22 & 2022-23)

S.NO.	Name of Student	Name of Event/ Organizer	Participated	Awarded	Remarks
1.	Diyanshu Purohit	TABLE TENNIS DESPORTIVOS“23” The ANNUAL “International Level Sports Meet”, Jaipur (Raj.) (3 rd February to 5 th February 2023)	01		
2.	1. Sagar Rana 2. Aditya Malik 3. Aman Saini 4. Harshit Rai 5. Hardik Kumar 6. Ajay Jakhar 7. Harshit Saini 8. Abhinav Sharma 9. Nishant Kumar 10. Diyvansh Chourasia 11. Karan Jangir 12. Vishvendra Singh	FOOTBALL DESPORTIVOS“23” The ANNUAL “International Level Sports Meet”, Jaipur (Raj.) (3 rd February to 5 th February 2023)	12		
3.	1. Manjeet Choudhary (C) 2. Vivek Budania 3. Aditya Bhardwaj 4. Divyam Kashyap 5. Krishan Singh Shekhawat 6. Ajay 7. Aditya Bhardwaj 8. Mannat Hiranwal 9. Gaurav Saini 10. Ashish Choudhary 11. Kamlesh Kumar	BADMINTON DESPORTIVOS“23” The ANNUAL “International Level Sports Meet”, Jaipur (Raj.) (3 rd February to 5 th February 2023)	11		

4.	<ol style="list-style-type: none"> 1. Anoop Singh 2. Amit Maan 3. Abhay Singh 4. Sandeep Singh 5. Tejpal Singh (Captain) 6. Gourav Dayal 7. Ravi Kumar 8. Rohit Godara 9. Manjeet Singh 	<p>KABADDI DESSPORTIVOS“23” The ANNUAL “International Level Sports Meet”, Jaipur (Raj.) (3rd February to 5th February 2023)</p>	09		
5.	<ol style="list-style-type: none"> 1. Naveen Kumar (Captain) 2. Vansh Sonaniya 3. Punit Jangir 4. Yash 5. Aman Kumar 6. Jai Deep 7. Mohashim Khan 8. Tanmay 9. Bhanu 	<p>VOLLEYBALL DESSPORTIVOS“23” The ANNUAL “International Level Sports Meet”, Jaipur (Raj.) (3rd February to 5th February 2023)</p>	09		
6.	<ol style="list-style-type: none"> 1. Sahil Bhardwaj (Captain) 2. Rajnish (Wk) 3. Piyush Singh Rathore 4. Praveen Sonaniya 5. Shivam Singh Yadav 6. Basant Jangir 7. Gaurav Jangid 8. Arun Sharma 9. Rishu 10. Deevanshu Mahala 11. Jai Saini 12. Akshat 	<p>CRICKET DESSPORTIVOS“23” The ANNUAL “International Level Sports Meet”, Jaipur (Raj.) (3rd February to 5th February 2023)</p>	12		
7.	<ol style="list-style-type: none"> 1. Aditya Sharma 2. Rohit Sharma 3. Aakash Nirwan 4. Rahul Gehlot 	<p>Snooker (Both) BOSM 2022 BITS Pilani</p>	04		
8.	Tilak Sangwan	<p>Bodybuilding (Boys) BOSM 2022 BITS Pilani</p>	01		
9.	<ol style="list-style-type: none"> 1. Tilak Sangwan 2. Tapas Joshi 3. Garvit Singh Rathore 4. Kuldeep Saini 5. Md Akif Iqubal 	<p>PowerLifting (Boys) BOSM 2022 BITS Pilani</p>	05	II	75 KG
10.	<ol style="list-style-type: none"> 1. Vaishnavi (Captain) 2. Tanu 3. Laxmi 	<p>Badminton (Girls) BOSM 2022 BITS Pilani</p>	04		

	4. Kritika				
10.	1. Ashish Soman (Captain) 2. Shubham 3. Manjeet Choudhary 4. Vivek Budania 5. Aditya Bhardwaj	Badminton (Boys) BOSM 2022 BITS Pilani	05		
11.	1. Avan (Captain) 2. Punit Jangir 3. Naveen 4. Vansh Sonaniya 5. Aman Kumar 6. Gaurav Mandiwal 7. Bhupendra 8. David Choudhary 9. Tanishk 10. Mujjmill Bhatti	Volleyball (Boys) BOSM 2022 BITS Pilani	10		
12.	1. Nishant Redu 2. Sagar Rana 3. Uday Singh (Captain) 4. Shivam Singh Yadav 5. Sahil Bhardwaj 6. Rajnish 7. Divyam Kashyap 8. Jai Saini 9. Praveen Sonaniya 10. Tarun Jangid 11. Aman Verma 12. Nitesh Kumar 13. Mohit Sharma 14. Devansh	Cricket (Boys) BOSM 2022 BITS Pilani	14		
13.	1. Nishant Redu 2. Sagar Rana 3. Tarun Sharma 4. Uday Singh 5. Shivam Singh 6. Mukul Sharma 7. Rajnish 8. Sahil Bhardwaj 9. Piyush Singh Rathore 10. Diyam Kashyap 11. Yash Kumar 12. Mohit Sharma	CRICKET VARCHAS- 2022 Indian Institute of Technology, Jodhpur), the PAN India sports fest IIT Jodhpur, scheduled from 8 th to 10 th April 2022.	12	II	
14.	1. Hemant Singh (Captain) 2. Nikuj Jindal 3. Satikanta Banerjee 4. Abhishek Singh Tanwar	Football MST (MNIT Jaipur) 5 th March To 7 th March 2020	15	I	

	<ul style="list-style-type: none"> 5. Abhishek Pratap 6. Md. Javed Khan 7. Varun Saini 8. Dhanendra Singh Chauhan 9. Abhishek Sharma 10. Devang Vijay 11. Himanshu Saurabh 12. Sudhanshu Sharma 13. Devanshu Garg 14. Sagar Rana 15. Vishwaraj Singh 				
15..	<ul style="list-style-type: none"> 1. Ashutosh 2. Anuj Sharma 3. Aditya Gaur 4. Archit 5. Priyanshu 	Badminton MST (MNIT Jaipur) 5 th March To 7 th March 2020	05		
16.	<ul style="list-style-type: none"> 1. Ashish Panwar 2. Sahil Maharia 3. Yashasvi Kulhar 4. Tushar Nisad 5. Aditya Dadhich 6. Ankit Kataria 7. Mukul 8. Naveen Meel 	Basketball MST (MNIT Jaipur) 5 th March To 7 th March 2020	08		
17..	<ul style="list-style-type: none"> 1. Tilak Sangwan 2. Tushar Budhiraja 3. Shubham 	Power Lifting MST (MNIT Jaipur) 5 th March To 7 th March 2020	03		
18..	<ul style="list-style-type: none"> 1. Manoj Kumar 2. Yogender 3. Vinay Sarolia 	Chess MST (MNIT Jaipur) 5 th March To 7 th March 2020	03		
19.	<ul style="list-style-type: none"> 1. Vikash Sharma (Captain) 2. Vivek 3. Nishant Redu 4. Ritivik Bhomia 5. Vikash Kumar 6. Saurabh 7. Harsh Dixit 8. Deepak 9. Devendra Sharma 	T-10 CRICKET LEAGUE (CRICKET PREMIER LEAGUE) BKBIET 9 th Feb To 18 th Feb 2020	40		

	10. Shubham Pandey 11. Subhash Chand Rai 12. Mohit Boyat 13. Tarun Sharma 14. Abhishek 15. Mohit 16. Abhishek Singh 17. Ashutosh 18. Sudhanshu Singh 19. Krishan Singh 20. Saurabh Singh 21. Sagar Rana 22. Surya Prakash 23. Varun Saini 24. Prakash Singh 25. Hritvik Sharma 26. Bhuvan Singh 27. Rahul Sharma 28. Ravi Sheoran 29. Kapil Sharma 30. Anil Bhati 31. Aditya Gaur 32. Jai Rawal 33. Anuj Sharma 34. Anuj Kumar 35. Hemant Singh 36. Kapil Singh 37. Akash Sharma 38. Deepak Soni 39. Dev Bansal 40. Prateek Sharma				
20	1. Vikash Sharma (Captain) 2. Vivek 3. Nishant 4. Ritivik Bhomia 5. Vikash Kumar 6. Saurabh 7. Harsh Dixit 8. Deepak 9. Devendra Sharma 10. Shubham Pandey 11. Subhash Chand Rai 12. Mohit Boyat 13. Tarun Sharma 14. Abhishek 15. Mohit	Cricket DESPORTIVOS“20” LNM (19 th – 26 th January 2020). The ANNUAL “International Level Sports Meet”, Jaipur (Raj.).	15		

Games & Sports Events Intra College List (2020-21)

1	<ol style="list-style-type: none"> 1. Vikash Sharma (Captain) 2. Vivek 3. Nishant Redu 4. Ritivik Bhomia 5. Vikash Kumar 6. Saurabh 7. Harsh Dixit 8. Deepak 9. Devendra Sharma 10. Shubham Pandey 11. Subhash Chand Rai 12. Mohit Boyat 13. Tarun Sharma 14. Abhishek 15. Mohit 16. Abhishek Singh 17. Ashutosh 18. Sudhanshu Singh 19. Krishan Singh 20. Saurabh Singh 21. Sagar Rana 22. Surya Prakash 23. Varun Saini 24. Prakash Singh 25. Hritvik Sharma 26. Bhuvan Singh 27. Rahul Sharma 28. Ravi Sheoran 29. Kapil Sharma 30. Anil Bhati 31. Aditya Gaur 32. Jai Rawal 33. Anuj Sharma 34. Anuj Kumar 35. Hemant Singh 36. Kapil Singh 37. Akash Sharma 38. Deepak Soni 39. Dev Bansal 40. Prateek Sharma 	<p>T-10 CRICKET LEAGUE (CRICKET PRIMIER LEAGUE) BKBIET 9th Feb To 18th Feb 2020</p>	40		
2	<ol style="list-style-type: none"> 1. Vikash Sharma (Captain) 2. Vivek 3. Nishant 4. Ritivik Bhomia 	<p>Cricket DESPORTIVOS“20” LNM (19th – 26th January</p>	15		

	<ul style="list-style-type: none"> 5. Vikash Kumar 6. Saurabh 7. Harsh Dixit 8. Deepak 9. Devendra Sharma 10. Shubham Pandey 11. Subhash Chand Rai 12. Mohit Boyat 13. Tarun Sharma 14. Abhishek 15. Mohit 	2020). The ANNUAL “International Level Sports Meet”, Jaipur (Raj.).			
3	<ul style="list-style-type: none"> 1. Hemant Singh (Captain) 2. Nikuj Jindal 3. Satikanta Banerjee 4. Abhishek Singh Tanwar 5. Abhishek Pratap 6. Md. Javed Khan 7. Varun Saini 8. Dhanendra Singh Chauhan 9. Abhishek Sharma 10. Devang Vijay 11. Himanshu Saurabh 12. Sudhanshu Sharma 13. Devanshu Garg 14. Sagar Rana 15. Vishwaraj Singh 	Football MST (MNIT Jaipur) 5 th March To 7 th March 2020	15	I	
4	<ul style="list-style-type: none"> 1. Ashutosh 2. Anuj Sharma 3. Aditya Gaur 4. Archit 5. Priyanshu 	Badminton MST (MNIT Jaipur) 5 th March To 7 th March 2020	05		
5	<ul style="list-style-type: none"> 1. Ashish Panwar 2. Sahil Maharia 3. Yashasvi Kulhar 4. Tushar Nisad 5. Aditya Dadhich 6. Ankit Kataria 7. Mukul 8. Naveen Meel 	Basketball MST (MNIT Jaipur) 5 th March To 7 th March 2020	08		
6	<ul style="list-style-type: none"> 1. Tilak Sangwan 2. Tushar Budhiraja 3. Shubham 	Power Lifting MST (MNIT Jaipur) 5 th March To 7 th March 2020	03		

7	1. Manoj Kumar 2. Yogender 3. Vinay Sarolia	Chess MST (MNIT Jaipur) 5 th March To 7 th March 2020	03		
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BKBIET CRICKET TOURNAMENT LIST- 2022-23

Date	Team Name	Players Name	Status	Remarks
28.3.2023	BKBIET (B Team)	1 Tejpal Singh 2 Rohit Godara 3 Aman 4 Ankit 5 Aman Verma 6 Inderjeet 7 Vinay 8 Ankit 9 Aarush 10 Dinesh 11 Anurag 12 Naman 13 Sahil Choudhary	Participated	
29.3.2023	BKBIET(C Team)	1 Singh Bhupendra 2 Sunil Kumar 3 Gaurav Mandiwal 4 Mahesh Singh 5 Robin Jangid 6 Priyanshu 7 Punit Jangid 8 Vikram 9 Pushpendra 10 Vinay Partap 11 Uday 12 Yogesh Jangid 13 Yuvraj Singh 14 Alkesh	Participated	
30.3.2023	BKBIET (A Team)	1 Rajnish 2 Sahil 3 Shivam 4 Praveen 5 Sagar Rana 6 Gaurav 7 Basant 8 Rishu 9 Devenshu 10 Yash	Participated	

		11 Manish 12 Jai Saini		
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Criteria 5

5	Criterion	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
5.1	Student-Faculty Ratio (SFR)	Average SFR=23.52	No Comments. Now Average SFR=25.02

UG/PG Year of Study	CAY (2023-24)		CAYm1 (2022-23)		CAYm2 (2021-22)	
	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 (2022-23)	120	16	120	12	120	3

3rd Year (2021-22)	120	12	120	3	120	13
4th Year (2020-21)	120	3	120	13	120	2
PG Ist Year (2023-24)	18					
Sub-Total	378	31	360	28	360	18
Total No. of Students in the Department(S)	409		388		378	
No. of Faculty in the Department(F)	16		15		16	
Student Faculty Ratio(SFR)	25.56		25.87		23.63	
Average SFR	25.02					

5.2	Faculty Cadre Proportion	FCR=8.26	<p>No Comments.</p> $\left(\left(\frac{AF1}{RF1} \right) + \left(\frac{AF2}{RF2} * 0.6 \right) + \left(\frac{AF3}{RF3} * 0.4 \right) \right) * 12.5$ <p>Now FCR=7.52</p>
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Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2023-24)	2.00	0	4.00	1	13	15
CAYm1(2022-23)	2.00	0	4.00	1	13	14
CAYm2(2021-22)	2.00	0	4.00	1	13	15
Average Numbers	RF1=2.00	AF1=0.00	RF2=4.00	AF2=1.00	RF3=13.00	AF3=14.67

5.3	Faculty Qualification	FQ=9.91	<p>No Comments.</p> <p>FQ=9.79</p>
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Years	X	Y	F	$FQ=2.5 \times [(10X + 4Y)/F]$
CAY(2023-24)	3	13	20.45	10.02
CAYm1(2022-23)	2	13	19.40	9.28
CAYm2(2021-22)	2	14	18.9	10.05
Average Assessment				9.79

5.4	Faculty Retention	Faculty Retention =83.33	No Comments. Faculty Retention =93.75
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Description	CAY	CAYm1
	2023-24	2022-23
No of Faculty Retained	15	15
Total No of Faculty	16	16
% of Faculty Retained	93.75	93.75
		93.75

5.5	Innovations by the Faculty in Teaching and Learning	e-notes were provided to students. No evidence for peer review is seen. ICT methods used for Presentation.	Explanation is given below.
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A. The work must be made available on the institute website

- Notice and circular are periodically displayed which comprises of curricular and extracurricular activities.
- Curricular and extracurricular events/activity are updated timely.
- Achievements of faculty /students are updated and awarded.
- The website provides information about the facilities of institutions and departments.
- Easy access of the study materials is enriched.

B. The work must be available for peer review and critique

The opinions and annotations by faculty, students and others are encouraged.

C. The work must be reproducible and developed further by other scholars.

Easy access for amended, which is simultaneously updated.

D. Statement of clear goals, use of appropriate methods, significance of results, effective presentation and reflective critique

1. Statement of clear goals

- To mold the students to acquire excellent skills and establish themselves in their profession
To improve the teacher learning process by applying peer suggested methods
- Mode of teaching is not only limited to the traditional Chalk & Talk methods, But also an amalgamation of the modern technology (e.g. power point presentation, audiovisual teaching etc.)

2. Use appropriate methods

- a) **Batch wise assignments are given**
- b) **Encourage the students towards hands on training.**
- c) **Study material provided in soft copy**
- d) **MCQ, pool and survey are used for interactive teaching**
- e) **Soft Skill enchantment**

Soft Skill Classes are provided for department students, based on availability and requirement, to enhance the students' communication skills, grooming and body language to equip them for the professional world.

f) Collaborative learning

Students gain theoretical knowledge through theory course and practical proficiency through the corresponding laboratory. Along with these students also gain industrial exposure by means of Collaborative learning. In collaborative learning, Industrial experts from various esteemed industries visit our college and give special lectures for the course. Arranging live Webinars by eminent Professors, which effectively communicate the working of actual engineering solutions, current trend and their impact apart from curriculum.

g) ICT supported learning

We must provide our learners with relevant and contemporary experiences that allow them to successfully engage with technology and prepare them for life. It is widely recognized that learners are motivated and purposefully engaged in the learning process when concepts and skills are underpinned with technology and sound pedagogy. The Information Technology department aims to provide resources for practitioners and pupils to engage with these technologies in order to enhance the learning experience. By making use of this ICT supported learning tools like NPTEL videos, MOOCs, Power point presentations through projector to improve the teaching and learning of existing content, to facilitate understanding of new objectives or to promote a new vision of teaching and learning.

3. Significance of results

Department activities and projects help students to encounter their own ideas to promote self-development and growth.

Visual aids help students to obtain an accurate idea of the particular topic/process. Visual learning often rates higher than audio learning for many students. Visual aids also help to present clearly and smoothly, without complications. Charts, graphs, timelines and pictures are some of the visual aids, which can be provided even through chalk and talk method. Thus visual aids play a major role in improving results.

4. Reflective Critique

Well-equipped and enormous facilities are provided for technological efforts.

5.6	Faculty as participants in Faculty development/training activities/STTPs	Average Assessment=16	No Comments. Average Assessment=24.64
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Name of the Faculty	Details of the participation		
	(Faculty development/training activities/STTPs)		
	CAY (2023-24)	CAYm1 (2022-23)	CAYm2 (2021-22)
	Dr Nimish Kumar	5	5
Mr Manoj Kataria	-	3	-
Mr Himanshu Verma	5	5	5
Mr Gauttam Jangir	5	5	5

Mr Pradeep Singh Shekhawat	5	5	5
Mr Ramakant Soni	-	5	5
Ms Reena Saini	5	5	5
Mr Gopal Krishan Prajapat	5	5	5
Mr Vipin Saraogi	5	5	5
Ms Ruchi Sharma	5	5	5
Mr Sanjeev Sultania	5	5	5
Mr Dhanesh Kumar Matolia	5	5	5
Mr Anil Kumar Datika	5	5	5
Mr Shashikant Sharma	-	-	5
Mr Manoj Kumar Saini	-	-	3
Dr Abhishek Pandey	3	-	3
Dr Monika Sharma	-	-	-
Sum	58	63	71
RF = Number of Faculty Required to comply with 20:1 Student Faculty ratio as per 5.1	19.55	19.40	18.90
Assessment [3*(Sum / 0.5*RF)]	17.80	19.48	22.54

5.7	Research and Development		
5.7.1	Academic Research	One book published on AI by local Publisher. Only One Scopus Index Paper.	Details of paper and Book Published are mentioned below:

Name of the faculty	Academic Research			
	Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc.		Ph.D. guided /Ph.D. awarded during the assessment period while working in the institute	
	As provided in SAR	After evaluation (till the date of compliance report)	As provided in SAR	After evaluation (till the date of compliance report)

Dr Nimish Kumar	1	3	0	0
Mr Manoj Kataria	0	1	0	0
Mr Himanshu Verma	0	2	0	0
Mr Gauttam Jangir	1	0	0	0
Mr Pradeep Singh Shekhawat	0	1	0	0
Mr Ramakant Soni	0	2	0	0
Ms Reena Saini	0	3	0	0
Mr Gopal Krishan Prajapat	0	1	0	0
Mr Vipin Saraogi	0	3	0	0
Ms Ruchi Sharma	0	0	0	0
Mr Sanjeev Sultania	0	0	0	0
Mr Dhanesh Kumar Matolia	0	0	0	0
Mr Anil Kumar Datika	0	0	0	0
Mr Bhupendra Kumar Jangir	0	0	0	0
Mr Shashikant Sharma	0	0	0	0
Mr Manoj Kumar Saini	0	0	0	0
Dr Abhishek Pandey	0	4	0	0
Dr Monika Sharma	-	1	0	0

5.7.2	Sponsored Research	No Sponsored Research is visible in CSE department.	Details of Sponsored research are mentioned below
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2023-24

Project title	Funding Agency	Duration	Amount
Business Intelligence (BI) Dashboard on Logistics	Vasavadatta Cements	2023-24	50000/-
ERP-Process & Quality Control Model	Vasavadatta Cements	2023-24	40000/-
Drone Assembly for Chimney of Cement Industry	Vasavadatta Cements	2023-24	105000/-
Chemical Analysis of Lime stone	Vasavadatta Cements	2023-24	775000/-
E-Cell, IoT based Project	Department of Information Technology, Rajasthan	2023-24	1000000/-
Science Day Project	Department of Science & Technology, Bikaner	2023-24	100000/-
Online Journal Publication (IJMOT)	University of Nevada, USA	2023-24	84368/-
			Total Amount(X): 21,54368/-

Session-2020-21**2022-23**

Project title	Funding Agency	Duration	Amount
Business Intelligence (BI) Dashboard on Logistics	Vasavadatta Cements	2022-23	50000/-
ERP-Process & Quality Control Model	Vasavadatta Cements	2022-23	40000/-
Drone Assembly for Chimney of Cement Industry	Vasavadatta Cements	2022-23	105000/-
Chemical Analysis of Lime stone	Vasavadatta Cements	2022-23	775000/-
E-Cell, IoT based Project	Department of Information Technology, Rajasthan	2022-23	1000000/-
Science Day Project	Department of Science & Technology, Bikaner	2022-23	100000/-
Online Journal Publication (IJMOT)	University of Nevada, USA	2022-23	84368/-
			Total Amount(X): 21,54368/-

Project title	Funding Agency	Duration	Amount
Business Intelligence (BI) Dashboard on Logistics	Vasavadatta Cements	2020-21	50000/-
ERP-Process & Quality Control Model	Vasavadatta Cements	2020-21	40000/-

Drone Assembly for Chimney of Cement Industry	Vasavadatta Cements	2020-21	105000/-
Chemical Analysis of Lime stone	Vasavadatta Cements	2020-21	775000/-
E-Cell, IoT based Project	Department of Information Technology, Rajasthan	2020-21	1000000/-
Science Day Project	Department of Science & Technology, Bikaner	2020-21	100000/-
Online Journal Publication (IJMOT)	University of Nevada, USA	2020-21	84368/-
			Total Amount(X): 21,54368/-

5.7.3	Development activities	Lab Manuals were found, developed as a part of instructional Material	
5.7.3.1	Product Development		<i>Details of product development are depicted below:</i>

1. Automatic sanitizer machine "Corona Killer": This machine based on IoT technology, made at a very low cost, in which the sanitizer automatically comes out of the machine and comes on the palm as soon as the hand comes in front of the sensor, so that the same sanitizer can be used by different people. The danger of corona infection caused by repeated touching can be avoided by this machine.



5. *Foot operated hand sanitizer machines: This machine have been made in the workshop of the institute, in which one can protect him/herself from infection by sanitizing hands without touching hand. This machine has paddle operated by foot and thus avoid touching. This type of equipment will be used to sanitize the trainees coming to the institute to avoid infection.*

बी टी टी आइ और बी के बी आइ ई टी संस्थान के स्टाफ ने बनाई और भेट की सैनिटाइजिंग मशीन



विरला तकनीकी प्रशिक्षण संस्थान के प्राचार्य कैप्टन जेपी सिंह ने बताया कि संस्थान के आईटीआई विभाग के सहज अनुसंधानक जोगीराम जागिड़, नरेंद्र शर्मा, देवेंद्र शर्मा, विष्णु तिवारी, जय सिंह, वरिष्ठ विद्यालय इंद्र प्रदीप, मदनलाल, हनुमान, रोहित आदि ने संस्थान के फिटर वर्कशॉप में 4 फुट ऑपरेटेड हैंड सैनिटाइजर मशीन को बनाया है जिसमें चिन कूट पैरों से हाथों को सैनिटाइज करके खुद को संक्रमण से बचा सकते हैं इस प्रकार के उपकरणों से आगामी समय में संस्थान में आने वाले प्रशिक्षार्थियों को सैनिटाइज करने के लिए और संक्रमण से बचने के लिए यह मशीन उपयोगी होगी।

टीकनोलॉजी, बीकेबीआईटी, विरला के प्राचार्य, सीक्रेटरी, डीएलए सोलंकी ने कला विद्यालय के असि फस के सरकारी स्कूलों में हैंड सैनिटाइजर मशीन को भेट किया जिसमें राजकीय माध्यमिक विद्यालय, पुर्मसर कलाय राजकीय उच्च माध्यमिक विद्यालय खुदानिया, राजस्थान, उच्च माध्यमिक विद्यालय टी के शर्मा राजकीय उच्च माध्यमिक विद्यालय झेरली, खुदान और जेएनएसएलएएस खेरला खुदान इन सभी स्कूलों में जा कर मशीन भेट की और वहीं के प्रधानाचार्यों को भेट देकर सम्पन्नित भी किया जिनमें बलवीर सिंह जी, नरेंद्र कुमार लॉया, जयप्रकाश जी, सुभन जागिड़ और मंजु नेहरा थे। इस सम्पूर्ण कार्यक्रम के आभारनिर्भर अधिबान को भी बल मिलेगा।

6. *Android Study Jams: Students build an Android app in "Kotlin" by following an online course.*



7. *IOT. The home automation project: The project demonstrates the controlling all electronic equipment via the Internet from anywhere in the lab as well as in the world. All that is needed for this is an internet connection and you are good to go.*



8. *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.*

9. *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.*

10. *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

11. *Wireless Lamp: It's 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).*

12. *Wireless Robo-cart: It's 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.*

13. *Automatic Welcome: It's 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.*

14. *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.*

15. *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.*

16. *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.*

17. *Fingerprint attendance-based system: A fingerprint-based attendance monitoring system developed using Arduino and sensors to manage attendance of students.*

18. *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.*

19. *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.*

20. *Online Quiz Software: An online Quiz software for assessing students in multiple choice question format. There are several products developed by students for grand challenge competitions and commercial purposes:*

- i. 'Police booth location' - Apps for Ministry of Road, Transport & Highways.
- ii. 'Petrol Pump location' - Apps for Ministry of Road, Transport & Highways.
- iii. 'News on One Portal' – for National Commission for Child Rights Protection.
- iv. 'GST execution' – for Ministry of Urban Development.
- v. 'Indexing spatial temporal data' – for ISRO.
- vi. 'My Invented' – Services on Internet website design, customized software, business and marketing solution.
- vii. 'Uncle Cabby' - online cab booking service.
- viii. 'The Guruji' -Apps for educational portal to provide online course and exam papers.

19. **Mobile Washing Machine:** A mobile-operated washing machine was made. This washing machine works as a fully automatic machine. This washing machine does not require any physical work, occupies less space, equipped with advanced modern technology, washing time and water level that you u wash mobile application choose according to your needs thereby u wash app water wastage And reduces time consumption and washes clothes of better quality than before. U Wash application tells us the status of washing machine in mobile as well and by updating U Wash app you can improve the features of this machine.

बीकेबीआईडीटी के छात्र ने बनाई मोबाइल से चलने वाली वाशिंग मशीन



करके आप वाशिंग मशीन को कहीं से भी नियंत्रित कर सकते हैं। इस वाशिंग मशीन में किसी भी सार्वजनिक स्थान भी आसानी से नहीं है, कम जगह पर कब्जा करता है, जल

आधुनिक तकनीक, अपने धोने का समय और जल स्तर जैसे आप यू वॉश मोबाइल एप्लिकेशन अपनी आवश्यकताओं के अनुसार चुनते हैं जिससे यू वॉश ऐप चाने को कबोटी य समय को खत्म को कम करता है और पहले से बेहतर गुणवत्ता के कपड़े धोते है। यू वॉश एप्लिकेशन इसे वाशिंग मशीन को स्थिति को मोबाइल में भी बेहतर करता है और यू वॉश ऐप को अपडेट करके इस मशीन को सुविधाओं को और अधिक बेहतर कर सकते है। बीकेबीआईडीटी विदेशिक डॉ. एसएन प्रमल कुमार और प्राध्यापक डॉ. एन सीतलको ने इस प्रयोग को सुषमामनवी और अर्थात् है।

विशेषज्ञ: बीके बीके इंस्टीट्यूट ऑफ इंजीनियरिंग एंड टेक्नोलॉजी दिल्ली के इलेक्ट्रॉनिक्स एंड कम्युनिकेशन एंड के अंतिम वर्ष के छात्र, एन चंद्रशेखर के प्रयोग एप्लिकेशन ने बहुत मोबाइल से चलने वाली वाशिंग मशीन। संस्थान के सीडिआ प्रभारी के साथ छात्रों के साथ एन इलेक्ट्रॉनिक्स विभागध्यक्ष सीतल जॉर्ज ने सहारा को यह वाशिंग मशीन पूरी तरह से स्वचालित मशीन के रूप में काम करती है। प्रयोग ने इस वाशिंग मशीन को और बेहतर बनाने के लिए यू वॉश मोबाइल एप्लिकेशन और इसके सॉफ्टवेयर का आविष्कार किया। यू वॉश ऐप और सॉफ्टवेयर का उपयोग

बीकेबीआईडीटी के छात्र ने बनाई मोबाइल से चलने वाली वाशिंग मशीन



विदेशी, बीके इंस्टीट्यूट ऑफ इंजीनियरिंग एंड टेक्नोलॉजी के इलेक्ट्रॉनिक्स एंड कम्युनिकेशन एंड के अंतिम वर्ष के छात्र, एन चंद्रशेखर के प्रयोग एप्लिकेशन ने बहुत मोबाइल से चलने वाली वाशिंग मशीन। संस्थान के सीडिआ प्रभारी के साथ छात्रों के साथ एन इलेक्ट्रॉनिक्स विभागध्यक्ष सीतल जॉर्ज ने सहारा को यह वाशिंग मशीन पूरी तरह से स्वचालित मशीन के रूप में काम करती है। प्रयोग ने इस वाशिंग मशीन को और बेहतर बनाने के लिए यू वॉश मोबाइल एप्लिकेशन और इसके सॉफ्टवेयर का आविष्कार किया। यू वॉश ऐप और सॉफ्टवेयर का उपयोग

5.7.3.2	Research laboratories		<i>Details of product development are depicted below:</i>
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1. *BKBIET established R&D division towards the formation of intellectual capital by facilitating research culture in the institute to mobilize the knowledge resources available for basic and applied research, support innovative projects and startup solutions. The research area covers all major academic disciplines including multidisciplinary research like AI, Robotics, MEMS technology, Plasma Engineering, Pulse Power, Bio engineering, Material Science and Embedded systems etc*
2. *BIC Lab: The lab is equipped with Internet and basic facilities like Arduino, Raspberry Pi, Microcontroller, Solar panels, Drone kits, various basic boards and sensors etc for students. It further promotes the spirit of research & development, entrepreneurs and startups in the Institute and contribute in Startup India Initiative by Indian Government. It is a budding initiative in line with virtual reality of digital and startup India.*
3. *Computer lab 1 and Computer lab 2: Each lab having 70 computers with internet facility for coding and designing, website development, Windows and mobile software apps development. Various computers are dedicated for carried for Cadence tools to train the student for VLSI and make them ready for Industry/ placement purpose.*
4. *AI and DS Lab: Lab having 61 high tech computers with internet facility for coding and designing, website development, Windows and mobile software apps development.*
5. **Virtual labs:** Virtual labs are used to provide remote access to laboratories in various disciplines of science and engineering that students can experiment with and also take advantage of various learning tools, including web sources, large-scale lectures and animated performance included. Institute has tie-ups for virtual labs with IITs.
6. **E- Cell:** E- Cell at BKBIET facilitates the students to be budding entrepreneurs with ready to use office space equipped with all necessary infrastructure, network connectivity and other facilities like meeting room, hi- tech laboratories, extensive computing resources for research and development including high performance computers etc.

7. Birla Professional Training and Research Centre (BPTRC): BPTRC at BKBIET provides the best quality research environment in multidisciplinary engineering and technology fields for various industrial and societal challenges. It facilitates the young students to become job creators with diversified employment opportunities instead of job seekers.



8. Institution's Innovation Council (IIC): The Ministry of Education (MoE) through MoE's Innovation Cell (MIC) launched Institution's Innovation Council (IIC) program in collaboration with AICTE for Higher Educational Institutions (HEIs) to systematically foster the culture of innovation and start-up ecosystem in academic institutions.
9. PLC Automation & Electric Motor Lab: Laboratory is dedicated to understand PLC programming, ladder logic, and inner workings of a standard Human-Machine Interface. It facilitates familiarization with variety of ladder logic instructions to create a complete PLC program from grass-root level on different PLC boards.
10. Gandhi Learning Centre: Dedicated Centre to depict the life and legacy of Shri M K Gandhi.



5.7.3.4	Working models/charts/monograms		<i>Details of Working models/charts/monograms are depicted below:</i>
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\5.7.3.4.1 Working models: Various Exhibit developed at Gandhi Learning Centre. All these exhibits are interactive multimedia exhibits and consist of Computer System, Display Units, different types of sensors and also use Microcontroller based technology to operate. Some of them are shown below:

- RF- ID Dolls: Using R.F. tag sensor



- Stambha: Using Magnetic sensor.



- E-charkha: Using Encoder sensor



- Timeline Browser: Using encoder sensor.



- E-Harmonium: Using Touch sensor



- Gandhi Ashram: Using Touch sensor



- Shadow Charkha: Using Touch sensor



- Gandhi Dandi: Using Touch Sensor



- **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

- **Wireless Robo-cart:** It's 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 Robo-cart

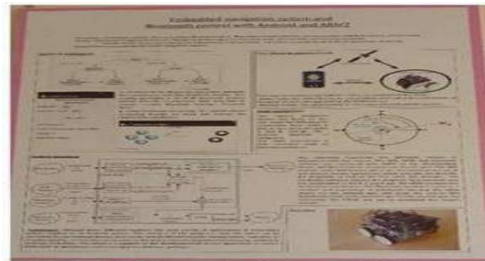
- **Automatic Welcome System:** It's a welcome of guest by displaying greeting message on screen. Here Arduino, Proximity Sensor and Relay module is used. Arduino is used for processing, proximity sensor sense the object presence and relay module turn on the screen.

- **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

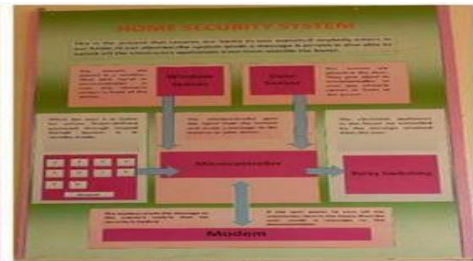
Fan).

- Fingerprint attendance based system: A fingerprint based attendance monitoring system developed using Arduino and sensors to manage attendance of students'.
- 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.
- 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.
- Online Quiz software: An online Quiz software for assessing students in multiple choice question format.

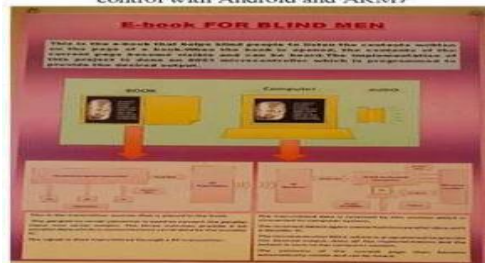
List of Charts and posters available in labs:



Embedded Navigation System and Bluetooth control with Android and ARM7



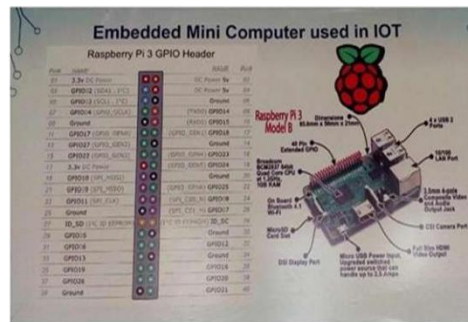
Home security system



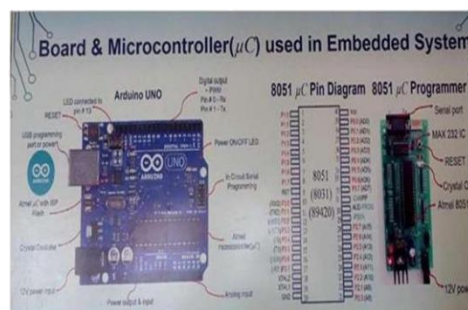
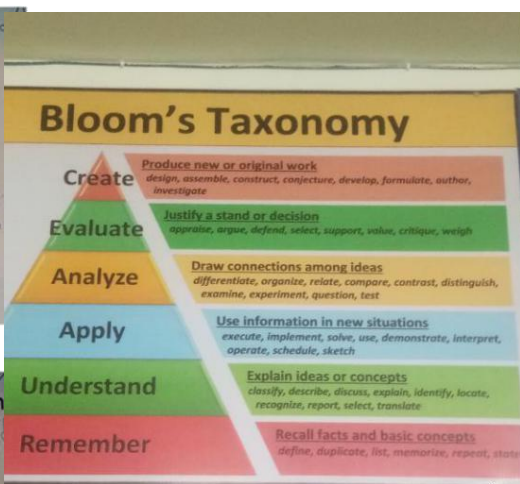
E-book for blind man



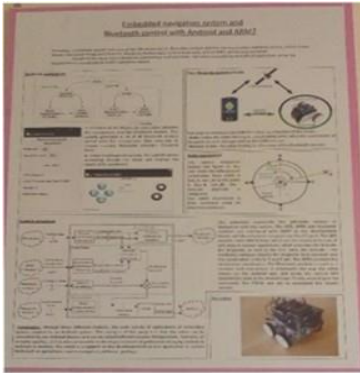
Smart helmet and surveillance system



Embedded minicomputer used in IOT



Board and microcontroller used in embedded system



Asymmetric digital subscriber line

Process state diagram

Internet security



Memory Hierarchy

Memory Type	Access Time	Capacity	Cost	Volatility
Cache	1-10 ns	1-10 MB	High	Non-volatile
Main Memory	10-100 ns	1-10 GB	Medium	Volatile
Secondary Memory	10-100 μs	100 MB-10 TB	Low	Non-volatile
Tertiary Memory	10-100 ms	100 GB-10 PB	Very Low	Non-volatile
Quaternary Memory	10-100 s	100 TB-10 PB	Very Low	Non-volatile



Database components

Memory hierarchy

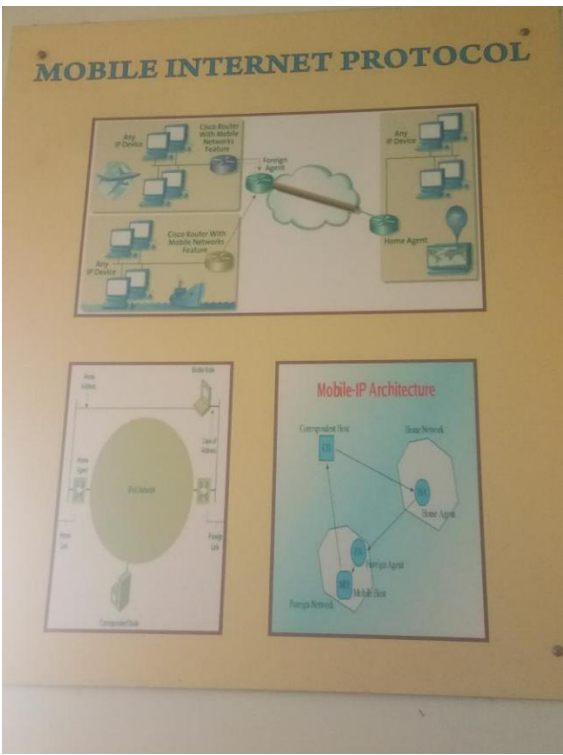
e-commerce



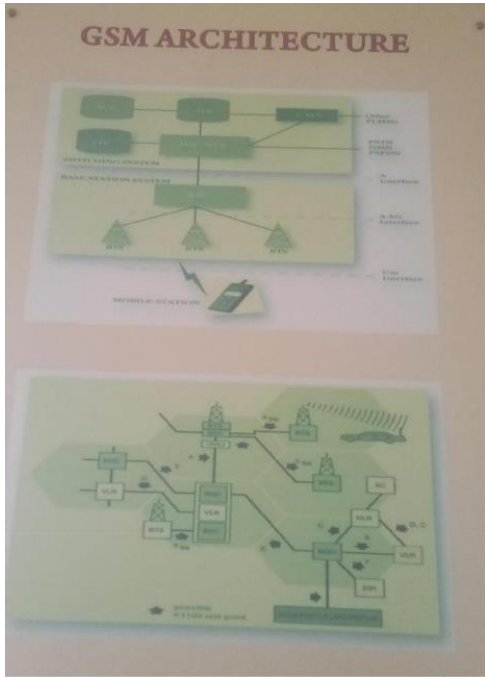
Internet

Input devices

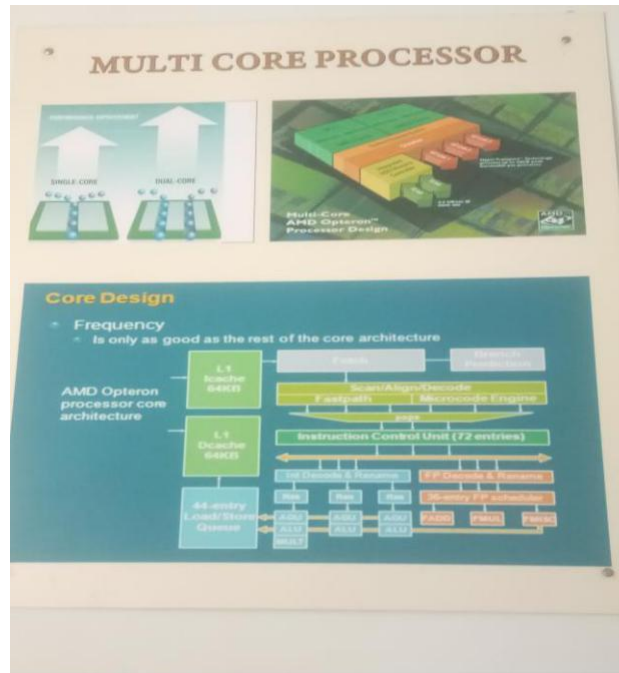
OSI model



Mobile Internet Protocol



GSM Architecture



5.7.3.4.2 Monograms



BKBIET Logo



BKBIET Birla Professional Training and Research Centre

BKBIET Birla Professional Training & Research Centre Logo



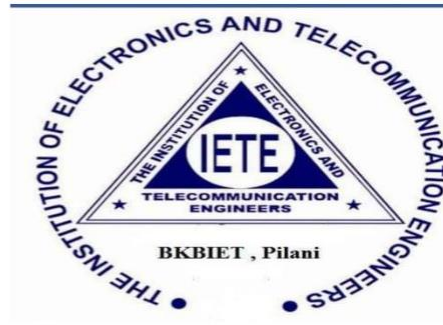
BKBIET Innovation Centre Logo



IEEE BKBIET student chapter Logo



ACM BKBIET student chapter logo



IETE Student Forum Pilani

5.7.4	Consultancy (from Industry)	No Industrial Consultancy is undertaken by the faculty of CSE Department.	<i>Details of Consultancy from industry depicted below:</i>
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2022-23

Project title	Funding Agency	Duration	Amount
Gandhi leaning Centre and BPTRC	Aditya Birla group(Hindalco and UltraTech)		16,00,000/-
1. AMC (Annual Maintenance Contract) Aditya Vikram Birla Memorial- Pilani		2012-25	
2. AMC, EGM (Eternal Gandhi Muesium, Delhi)		2014-25	
3. Gandhi Peace Center Exhibit Up gradation at Birmingham UK		2018-25	
4. Gandhi Peace Centre Multimedia Exhibition at Atlanta City USA		2022-25	
			Total Amount(X): 16,00,000/-

2021-22

Project title2022-23	Funding Agency	Duration	Amount
Gandhi leaning Centre and BPTRC	Aditya Birla Group (Hindalco and UltraTech)		21,00,000/-
1. AMC (Annual Maintenance Contract) Aditya Vikram Birla Memorial- Pilani		2012-25	
2. AMC, EGM (Eternal Gandhi Muesium, Delhi)		2014-25	
3. Gandhi Peace Center Exhibit Up gradation at Birmingham UK		2018-25	
4. Gandhi Peace Centre Multimedia Exhibition at Atlanta City USA		2022-25	
			Total Amount(X): 21,00,000/-

2020-21

Project title	Funding Agency	Duration	Amount
Gandhi leaning Centre and BPTRC			
1. AMC (Annual Maintenance Contract) Aditya Vikram Birla Memorial- Pilani		2012-25	
2. AMC, EGM (Eternal Gandhi Muesium, Delhi)	Aditya Birla group(Hindalco and UltraTech)	2014-25	
			11,00,000/-

5.8	Faculty Performance Appraisal and Development System (FPADS)	Effective performance appraisal system is not visible.	<i>Details of Faculty Performance Appraisal and Development System (FPADS) are depicted below:</i>
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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, 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
- Course File, 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, and 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.

B K Birla Institute of Engineering & Technology, Pilani (Raj.)

FACULTY ASSESSMENT FORM AS PER AICTE 360⁰ FEEDBACK SCORE

The faculty shall submit calculation sheet for the Academic Year 2022-23 (01/7/2022-Till Date) and submit the Enclosure as proof where ever it is required.

The total Maximum Points are 100.

- a. Teaching - Process (Maximum Points 25)
- b. Students' Feedback (Maximum Points 25)
- c. Departmental Activities (Maximum Points 20)
- d. Institute Activity (Maximum Points 10)
- e. ACR (Maximum points 10)
- f. Contribution to Society (Maximum Points 10)

Name of Faculty	
Designation	
Department	
Date of Joining	

A. Teaching Process (Max Points 25)

S. No.	Semester	Course Name	% of Classes Held (Actual /Scheduled)*100	% of Average Class Attendance (Total Present/No. of Students* No. of Lectures Held)* 100	Weather Bloom's Taxonomy Used (Yes-5 Points, No-0 Point)	Solved and Given Last 5 Years University Papers (Yes-5 Points, No-0 Point)	Teaching Notes/ Content Given (5 Marks) (Yes-5 Points, No-0 Point)
			5 Points	5 Points	5 Points	5 Points	5 Points
1							
2							
3							
4							
Average							
Points Earned							
Enclosure No.							
Total Points Earned							

Verification by HoD: (HoD to verify the Enclosures)

Remark :

Signature:

B. Students' Feedback (Max Points 25) : [Through Google form]

S. No.	Semester	Course Name	Average Student Feedback on the scale of 25	Enclosure No.
1				
2				
3				
4				
Points Earned (Average)				----

Signature:

C. Institute Activities (Max Credit 10)

S. No	Semester	Activity	Credit Point	Criteria	Enclosure No.
1		HoD /Dean/Head R&D		4 Points/semester	
2		Coordinator appointed by Head of Institute		2 Points/semester	
3		Organized Conference		2 Points/event	
4		FDP/Seminar/ Workshop/STTP		1 point /event, to be divided between all co-coordinators	
5		Event Organized under technical Societies like IEEE/IEI/CSI etc.		1 point /event, to be divided between all co-coordinators	
6		Co-curricular Student Activity Organized		1 point /event, to be divided between all co-coordinators	
7		Initiative for Industrial MoU/Foreign Collaboration		2 Points per Event	
8		Organizing inhouse summer Training for Students		2 Points per Training	
9		Hostel Warden-ship		2 Points per Training	
10		Training/Placement I/C		2 Points per Training	
Total Points Earned					

Verification by HoD: (HoD to verify the Enclosures)

Remark :

.....

.....

Signature:

D. ACR Maintained at Institute level (Max Credit 10) [Appendix-B]

Sl. No.	Points Earned on the scale of 10
1	

E. Contribution to Society (Max Credit 10)

S. No.	Semester	Activity	Credit Point	Criteria	Enclosure No.
1		Induction Program		1 Point	
2		Unnat Bharat Abhiyan		1 Point	
3		Yoga Classes		1 Point	
4		Blood Donation		1 Point	
5		Swachha Bharat		1 Point	
6		Plantation Drive		1 Point	
7		Jal Shakti Abhiyan		1 Point	
8		Coordinating Students in Smart India Hackathon		1 Point	
9		Initiative/ Developing R & D		1 Point	
10		Initiative in ATAL Ranking		1 Point	
11		Initiative for Clean & Green		1 Point	

		Campus			
12		Coordinating RTU/BTU Activity or Event		1 Point/ Semester	
13		Any Other			
Total Points Earned					

Verification by HoD: (HoD to verify the Enclosures)

Remark :

.....
.....

F. Contribution to Society (Max Credit 10)

S. No.	Semester	Activity	Credit Point	Criteria	Enclosure No.
1		Induction Program		1 Point	
2		Unnat Bharat Abhiyan		1 Point	
3		Yoga Classes		1 Point	
4		Blood Donation		1 Point	
5		Swachha Bharat		1 Point	
6		Plantation Drive		1 Point	
7		Jal Shakti Abhiyan		1 Point	
8		Coordinating Students in Smart India Hackathon		1 Point	
9		Initiative/ Developing R & D		1 Point	
10		Initiative in ATAL RANKING		1 Point	
11		Initiative for Clean & Green Campus		1 Point	
12		Coordinating RTU/BTU Activity or Event		1 Point/ Semester	

13		Any Other			
Total Points Earned					

S. No.	Description	Very Poor	Poor	Good	Very Good	Excellent
		(1)	(2)	(3)	(4)	(5)
1	Has the teacher covered entire Syllabus as prescribed by University					
2	Has the Teacher covered relevant topics beyond syllabus					
3	Effectiveness of Teacher in terms of:					
	(a) Technical content/course content					
	(b) Communication skills					
	(c) Use of teaching aids					
4	Pace on which contents were covered					
5	Motivation and inspiration for students to learn					
6	Support for the development of Students' skill					
	(i) Practical demonstration					
	(ii) Hands on training					
7	Clarity of expectations of students					
8	Feedback provided on Students' progress					
9	Willingness to offer help and advice to students.					
10	Skill of linking subject to life experience & creating interest					
	Total					
Grand Total						
Student Feedback on the Scale of 25						

Summary

Criteria	Max. Points	Points Earned
A. Teaching Process	25	
B. Students' feedback	25	
C. Departmental Activities	20	
D. Institute Activities	10	
E. ACR	10	
F. Contribution to Society	10	
Grand Total	100	

Format of Annual Confidential report mentioned below:

B K Birla Institute of Engineering & Technology

PILANI 333 031 (Rajasthan)

Annual Confidential Report – Teaching Faculty

Assessment for the year: 2022-23 (As on date)

Name:	Designation:	Contract
Period:	to	

Particulars				
University Theory Exam Results	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Good	Average	Poor	
	Results of Even Semester 2021-22 (II, IV, VI Sem) (% of Passing)			
	Name of Subject	Total Students	No. of Students Passed	%Pass
Subject1:				

	Subject2:					
Feedback from students	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Good	Average	Poor
Class Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Good	Average	Poor
Timely checking of Assignments/Tutorials/Sessional copies/Lab files/Project report etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Good	Average	Poor
Book Publication (Current year: July to June only)	No. <input type="text"/>	No. <input type="text"/>	No. <input type="text"/>	I Author	II Author	III Author
Number of paper in Scopus indexed Journal	No. <input type="text"/>	No. <input type="text"/>	No. <input type="text"/>	I Author	II Author	III Author

Number of paper in Non Scopus indexed Journal	<table border="1"> <tr> <td>No.</td> <td><input type="text"/></td> </tr> </table>	No.	<input type="text"/>	<table border="1"> <tr> <td>No.</td> <td><input type="text"/></td> </tr> </table>	No.	<input type="text"/>	<table border="1"> <tr> <td>No.</td> <td><input type="text"/></td> </tr> </table>	No.	<input type="text"/>
No.	<input type="text"/>								
No.	<input type="text"/>								
No.	<input type="text"/>								
	I Author	II Author	III Author						
Online Test (NPTEL/MOOC Exams (Current year: July to June only)	Total Nos.	<input type="text"/>							
Organizing various programmes at institute: FDP/workshop/seminar/ time table/industry visit/Exam Cell/ Student Chapter etc.	Nos. Conducted	<input type="text"/>							
Seminar/Conference/Workshop attended (outside BKBIET)	Nos. Attended	<input type="text"/>							
Paper Presentation in Conference/Expert Lecture	Nos. Presented	<input type="text"/>							
Contribution in getting admission in institute	<input type="text"/>	<input type="text"/>	<input type="text"/>						
	Good	Average	Poor						

<p align="center">Social Networking</p>	<p align="center"><input type="checkbox"/></p> <p align="center">Good</p>	<p align="center"><input type="checkbox"/></p> <p align="center">Average</p>	<p align="center"><input type="checkbox"/></p> <p align="center">Poor</p>
<p align="center">Personality Development</p>	<p align="center"><input type="checkbox"/></p> <p align="center">Good</p>	<p align="center"><input type="checkbox"/></p> <p align="center">Average</p>	<p align="center"><input type="checkbox"/></p> <p align="center">Poor</p>

Extra note by Principal: (on Extra classes, Invigilation duty, attendance etc.)

Principal

Review Committee Remarks:

G M Commercial

Director

The appraisal format is an exact replica of the recommended method of performance appraisal recommended by AICTE and the same is followed in the year. Sample of student feedback is conducted in 2022-2023 is given below:-

Branch		Name of the Faculty:				
Semester		Subject Name:				
I.T 3 rd Sem		Ruchi Sharma D.S				
S. No.	Description	Very Poor	Poor	Good	Very Good	Excellent
		(1)	(2)	(3)	(4)	(5)
1	Has the teacher covered entire Syllabus as prescribed by University				✓	
2	Has the Teacher covered relevant topics beyond syllabus				✓	
3	Effectiveness of Teacher in terms of:					
	(a) Technical content/course content				✓	
	(b) Communication skills				✓	
	(c) Use of teaching aids				✓	
4	Pace on which contents were covered				✓	
5	Motivation and inspiration for students to learn				✓	
6	Support for the development of Students'skill					
	(i) Practical demonstration				✓	
	(ii) Hands on training				✓	
7	Clarity of expectations of students				✓	
8	Feedback provided on Students' progress				✓	
9	Willingness to offer help and advice to students.				✓	
10	Skill of linking subject to life experience & creating interest				✓	
Total		0	0	0	40	0
					Grand Total	40
					Student Feedback on the Scale of 25	20/20

STUDENT'S FEEDBACK FORM (AY: 2022-23) [Appendix-A] Date: 9.12.23

Branch		Name of the Faculty:				
Semester		Subject Name:				
I.T 3 rd Sem		Somjay Saini Digital electronic				
S. No.	Description	Very Poor	Poor	Good	Very Good	Excellent
		(1)	(2)	(3)	(4)	(5)
1	Has the teacher covered entire Syllabus as prescribed by University					✓
2	Has the Teacher covered relevant topics beyond syllabus					✓
3	Effectiveness of Teacher in terms of:					
	(a) Technical content/course content					
	(b) Communication skills					✓
	(c) Use of teaching aids					✓
4	Pace on which contents were covered					✓
5	Motivation and inspiration for students to learn					✓
6	Support for the development of Students'skill					
	(i) Practical demonstration					✓
	(ii) Hands on training					✓
7	Clarity of expectations of students					✓
8	Feedback provided on Students' progress					✓
9	Willingness to offer help and advice to students.					✓
10	Skill of linking subject to life experience & creating interest					✓
Total						25
					Grand Total	25/25
					Student Feedback on the Scale of 25	25/25

Criteria 6

6	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
6.1	Adequate and well-equipped laboratories, and technical manpower	IoT lab was developed. Labs are shared with another program.	<p>Following the NBA team recommendations, institute have successfully separated the labs and established a new lab dedicated to Artificial Intelligence (AI) and Machine Learning. This new lab is now situated in Block A, on the first floor of the BK Birla Institute of Engineering and Technology premises in Pilani.</p> <p>By creating a dedicated AI and Machine Learning lab, institute have provided students with a specialized space that aligns with the unique requirements of these emerging fields. The new lab is equipped with cutting-edge technologies, software, and hardware to facilitate experiential learning, research, and innovation in AI and Machine Learning.</p> <p>The separation of the IoT lab from the shared space ensures that both the IoT and AI/ML labs can function independently, providing students with focused environments to explore their respective disciplines. This separation optimizes resource allocation, allowing students to have seamless access to the necessary tools, equipment, and infrastructure specific to their chosen area of study.</p> <p>At BK Birla Institute of Engineering and Technology, we are committed to providing our students with the best possible learning experiences and preparing them for the ever-evolving technological landscape. The establishment of a dedicated AI and Machine Learning lab is a testament to our commitment to staying at the forefront of technological advancements and offering students the opportunity to excel in emerging fields.</p>



IoT Lab

Details of Software and Hardware (AI and ML Lab)

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	Artificial Intelligence and Machine Learning Lab	30	Color Monitor-14"/ 22" Key board & Mouse (Logitech/ Dell), Processer-intel i3/ i5 (12 th Generation), Window 8.1/ Window 11, Hard Disk-180GB/ 512GB, RAM-12 GB(28 PC With 4GB Graphic Card), 4GB(7 PC), 8GB(3 PC), 10GB(1 PC), 2 GB(1 PC), 16GB (25), TP Link 24 Port Switch (03), D-Link Switch (01), LCD Projector (01), Rack 4U, 8085 Simulator, Turbo/dev c++ Compiler, Code blocks, Netbeans, Mysql, Scilab, Argouml, Flex, Java JDK/JRE, ModelSim, IDLE Python, Clisp 2.48, R studio, MatLab.	30 Hrs	Mr. Likhma Ram	Lab Assistant	M.Tech.



AI/ML Lab

Shri Krishnarpan

B.K. Birla Institute of Engineering & Stock

Charity Trust

Technology, PILANI 333031 (Raj.)
Ledger

Article... Dell Computers

S. No.	RPT No	Date	Particulars	B/F	Qty	Rate	Amount	Balance	Location	Checked On	Remarks
1	899	12/1/13	1541ED no fan for lab Specification		20	32000/-	640000/-		New one at Lab		
2	942	1/2/13	"		35	11000/-	385000/-		"		
3	64	17/4/13	"		50	10000/-	500000/-		26 " + new at Lab		
4	M-231	5/6/13	" 4mm 4GB 100 mm fan Intel i3-2nd gen Key Board → 70 @ 79000 + 15 per business of/c.		65	20000/-	1300000/-		Comp. Lab Lab		
					Total:	595	1300000/-				
5	88	24/10/17	Computer Desk 6th Gen. RAM - 4 GB HDD - 1 TB 15.6" Screen, Area		9	25750/-	231750/-		Boitel (Mr. Paruchhi)		
6	930	27/12/22	'Dell' C- Optiplex 5000 Tower-1512500 Intel Core i5-12500 (6 core/12 threads) 3.06GHz x4 65W (65W/64W) (max) DDR4 Non-ECC Memory 16GB 2220 512GB PCIe NVMe Class 35 Solid State Drive (EM) UBUNTU Supports Win11/Win10/Dalinux Dell Optiplex 1 Dell USB Optical Mouse Mouse (FPEM) Black Dell wired Keyboard KB216 Black Basic Mouse MS116-SE wireless 3Y Basic Annual Exchange Service		25 Nos.	104660/-	2616525.00		New CS Lab (Mr. Sivaiah Kumar)		

Ledger Copy of Computer Purchase

B.K. Birla Institute of Engineering and Technology, Pilani (Raj.)
AI- Lab Time-Table

DAY	10:00 AM – 12:00 PM	2:30 PM – 4:30 PM
MON	4IT4-24/4AI4-24/4DS4-24 Java Programming Lab (Mr. Manoj Kataria)	6AI4-23 Analysis of Algorithms Lab (Ms. Ruchi Sharma)
TUES	4IT4-21/ 4AI4-21/ 4DS4-21 Database Management System Lab (Mr. Nachiket Sainis)	Reserve for Lab Maintenance
WED	4IT4-23/ 4AI4-23/ 4DS4-23 Python Programming Lab (Mr. Vipin Saraogi)	6AI4-22 Natural Language Processing Lab (Mr. Sanjeev Sultania)
THUR	4IT4-24/ 4AI4-24/ 4DS4-24 Java Programming Lab (Mr. Manoj Kataria)	6CS4-24 Mobile Application Development Lab (Mr. Manoj Kumar Saini)
FRI	4IT4-22/ 4AI4-22/ 4DS4-22 Microprocessor and Interfaces Lab (Dr. Rahul Purohit)	6AI4-24 Soft Computing Lab (Mr. Sanjeev Sultania)
SAT	4IT4-23/ 4AI4-23/ 4DS4-23 Python Programming Lab (Mr. Vipin Saraogi)	6AI4-21 Digital Image Processing Lab (Mr. Rahul Runthala)

Lab Incharge- Mr Likhma Ram

B.K. Birla Institute of Engineering and Technology, Pilani (Raj.)
IOT - Lab Time-Table

DAY	10:00 AM – 12:00 PM
MON	Reserved for Student Practice
TUES	Reserved for Student Practice
WED	Reserved for Student Practice
THUR	Reserved for Student Practice
FRI	7CS4-21 Internet of Things Lab (Mr. Himanshu Verma)
SAT	7CS4-21 Internet of Things Lab (Mr. Ramakant Soni)

Lab Incharge- Mr Himanshu Verma
 - Mr Ramakant Soni

6	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
6.2	Additional facilities created for improving the quality of learning experience in laboratories	IoT lab was available PSOs are not properly defined.	<p>Program Specific Outcomes (PSOs) are defined for IoT labs, ensuring that the students acquire the necessary knowledge and skills in this field. The PSOs serve as a guideline for curriculum design, teaching methodologies, and assessment strategies within IoT labs. These outcomes are aligned with industry requirements and reflect the competencies our students should possess upon completing the IoT program. Table 6.2.1 shows the mapping of Cos with corresponding POs and PSOs.</p> <p>B K Birla Institute of Engineering and Technology has made significant advancements in its educational infrastructure by establishing new labs in the fields of Communication and AI/ML. These labs provide cutting-edge equipment and software to enhance language proficiency and foster practical skills in artificial intelligence and machine learning. Additionally, the institution has applied for the prestigious Center of Excellence designation in AI/ML, solidifying its expertise and leadership in this field. Furthermore, strategic partnerships through MOUs with Google Developer Student Clubs (GDSC), Hack Club, and Newton School Coding Club (NSCC) demonstrate the institute's commitment to fostering industry collaborations and providing students with enriching opportunities for learning and growth.</p>

Course Outcomes

CO 1: Grasp the fundamental concepts and application areas of the Internet of Things (IoT).

CO 2: Illustrate and implement the transformative impact of the Internet on mobile devices, cloud services, and sensor networks.

CO 3: Analyze the architecture, functionality, and business advantages of IoT solutions.

CO 4: Investigate potential business prospects unlocked by IoT technologies.

CO 5: Investigate the interplay between IoT, cloud computing, and big data, highlighting distinctions from traditional data collection methods.

Mapping of COs and POs

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------

CO1	2	3	2	2	3	-	2	3	-	-	-	3	3	2	-
CO2	2	3	3	2	3	-	2	2	-	-	-	3	3	2	-
CO3	2	-	3	-	3	-	-	3	-	3	-	-	2	2	-
CO4	2	-	1	1	3	-	-	2	-	3	-	-	-	-	-
CO5	2	3	3	2	3	-	2	2	-	-	-	3	3	2	-
Avg	2	3	2.4	1.8	3	-	2	2.4	-	3	-	3	2.8	2	-

Table 6.2: Additional facilities created for improving the quality of learning experience in laboratories

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	Throughout the academic session	More knowledge apart from curriculum, 24×7 access to learning resources	PO5, PO6, PO8, PSO1

			process			
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	Virtual Lab	01 dedicated PC with Windows OS and a dedicated LCD Projector	Virtual labs complement traditional laboratory experiences and can significantly enhance the learning process, especially in situations where physical labs may not be easily accessible or feasible.	Odd Semester Only	In a virtual lab, students can conduct experiments without the risk of physical harm or damage to equipment. This safety aspect allows them to explore and learn from mistakes without fear of negative consequences.	PO1-PO5, PO11, PO12, PSO1, PSO2
7	Center of Excellence (COE)	Applied	Fostering innovation, expertise, and collaboration in a specific field, leading to academic excellence and research advancements.	Submitted proposal to university for three branches	Students are expected to have enhanced learning through Center of Excellence (COE) for college in areas of specialized academic programs, cutting-edge research opportunities, and advanced skill development.	
8	Language Lab	Fully equipped Computer Lab sitting capacity,	For the students to improve the	Throughout the	Help students to develop good listening skills and aids the	PO5, PO6, P8, PO10,

	<p>White Board, chair, LED TV55", Instructor Computer, Monitor-15" Key board & ; Mouse(HP) Processor-Core i5, 2.7 GHz (6Generation) Hard Disk-256GB SDD RAM-8GB Window 11, Ms-Office, Adobe Reader, Language Lab Software(Orel Talk Pro Version)</p>	<p>way they pronounce the words and be corrected by the teacher whenever necessary</p>	<p>semester</p>	<p>process of communication</p>	<p>PO12, PSO3</p>
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COE (Computer Science and Engineering) Acknowledgement Letter



B K Birla Institute of Engineering & Technology
Pilani, Rajasthan, INDIA

Approved by AICTE, New Delhi
(06/01/RAI/ENGG/2007/51)

Affiliated to Bikaner Technical University (BTU), Bikaner
(BTU/F(17)/Acad./Affiliation/Engg. 55/2018. 19.10.2018 dated: 15.09.2018)

To,

Dated: 17 December, 2022

The Vice Chancellor,
Bikaner Technical University,
Bikaner (Raj.)

Through Dean Academics, BTU

Sub: Establishing Center of Excellence in Computer Science and Engineering

Respected Sir,

Greetings of the day.

With due respect, Institute wishes to put up our sincere request for establishing "Centre of Excellence" (CoE) at B K Birla Institute of Engineering & Technology, Pilani premises.

Computer Science and Engineering is one of the premier department of our institute which is NBA accredited since May 2021 for 3 years period, wishes to render application-oriented services to industry, research, academia, public inturn to society and student fraternity. The department is rendering these services in Artificial Intelligence, Machine Learning, Computer Vision and Internet of Things (IoT) at B K Birla Institute of Engineering & Technology, Pilani which ensures the CoE objectives.

B K Birla Institute of Engineering & Technology is one of the premier industry-oriented and application-driven institutes in India. Shree Krishnarpan Charity Trust, under Chairmanship of renowned industrialist Syt. Basant Kumar Birlaji, set up BKBIET, in 2007.

The Institution has been true to its commitment in providing quality education in Engineering and Technology. Our strong alliances with leading international universities, industries and professional bodies have increased access to latest education, opportunities for engagement and exchange, collaborative research and innovation for our students and faculties. We believe the best way to help BKBIETians meet challenges is to provide a supportive and enriching environment.

We request your kind approval for the same. Please suggest and guide for further process. We will submit our report very soon.

Thanking You.


Director
(BKBIET, Pilani)

DIRECTOR
B K Birla Institute of Engineering & Technology
Pilani, Rajasthan, India

Computer Lab Time-Table

DAY	9:00 – 11:00	10:00 – 12:00	2:30 – 4:30
MON	2FY2-24 Computer Programming Lab Mr. Jitender Kumar LAB-A	4CS4-23 Python Programming Lab Mr. Gauttam Jangir LAB-A 4CS4-22 Microprocessor & Interfaces Lab Mr. Sanjay Kumar Saini LAB-B 4IT4-24/ 4AI4-24/ 4DS4-24 Java Programming Lab Mr. Manoj Kataria LAB-AI	6CS4-23 Python Lab Mr. Vipin Saraogi LAB-A 6AI4-23 Analysis of Algorithms Lab Ms. Ruchi Sharma LAB-AI
TUES	2FY2-24 Computer Programming Lab Mr. Jitender Kumar LAB-A	4CS4-23 Python Programming Lab Mr. Gauttam Jangir LAB-A 4CS4-24 Java Programming Lab Mr. Pradeep Singh Shekhawat LAB-B 4IT4-21/ 4AI4-21/ 4DS4-21 Database Management System Lab Mr. Nachiket Sainis LAB-AI	6CS4-22 Machine Learning Lab Mr. Ramakant Soni LAB-A
WED	Reserve for Lab Maintenance	4CS4-24 Java Programming Lab Mr. Manoj Kataria LAB-B 4CS4-23 Python Programming Lab Mr. Ramakant Soni LAB-A 4IT4-23/ 4AI4-23/ 4DS4-23 Python Programming Lab Mr. Vipin Saraogi LAB-AI	6CS4-23/ 6IT4-23 Python Lab Mr. Ramakant Soni LAB-A 6CS4-21 Digital Image Processing Lab Dr. Abhishek Pandey DSP Lab 6AI4-22 Natural Language Processing Lab Mr. Sanjeev Sultania LAB-AI 2FY2-24 Computer Programming Lab Mr. Anil Kumar LAB-B
THUR	4CS4-21 Database Management System Lab Mr. Gopal Krishan Prajapat LAB-A	4CS4-21 Database Management System Lab Mr. Gauttam Jangir LAB-A 4IT4-24/ 4AI4-24/ 4DS4-24 Java Programming Lab Mr. Manoj Kataria LAB-AI	6CS4-24/ 6IT4-24 Mobile Application Development Lab Mr. Vipin Saraogi LAB-A 6CS4-24 Mobile Application Development Lab Mr. Manoj Kumar Saini LAB-AI 2FY2-24 Computer Programming Lab Mr. Anil Kumar LAB-B
FRI	4CS4-24 Java Programming Lab Mr. Manoj Kataria LAB-B	4CS4-24 Java Programming Lab Mr. Pradeep Singh Shekhawat LAB-B 4IT4-22/ 4AI4-22/ 4DS4-22 Microprocessor and Interfaces Lab Dr. Rahul Purohit LAB-AI	6CS4-22/ 6IT4-22 Machine Learning Lab Dr. Abhishek Pandey LAB-B 6AI4-21 Digital Image Processing Lab Mr. Rahul Runthala LAB-AI 2FY2-24 Computer Programming Lab Mr. Gopal Krishan Prajapat LAB-A
SAT	4CS4-22 Microprocessor & Interfaces Lab Mr. Sanjay Kumar Saini LAB-B	4CS4-23 Python Programming Lab Mr. Ramakant Soni LAB-B 4IT4-23/ 4AI4-23/ 4DS4-23 Python Programming Lab Mr. Vipin Saraogi LAB-AI	6CS4-21/ 6IT4-21 Digital Image Processing Lab Dr. Gaurav Verma LAB-B 6AI4-24 Soft Computing Lab Mr. Sanjeev Sultania LAB-AI 2FY2-24 Computer Programming Lab Mr. Gopal Krishan Prajapat LAB-A

6	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
6.3	Laboratories: Maintenance and overall ambiance	Well maintained laboratories exist.	Continuing the same process
6.4	Project Laboratory	No remarks	Maintaining the same decorum
6.4	Laboratories: Maintenance and overall ambiance	Safety measures in laboratories.	Continuing the same process

Criteria 7

7	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
7.1	Actions taken based on the results of evaluation of each of the POs & PSOs	Proper analysis on the basis of attainment of Pos/ PSOs were not carried out.	Suggested method of analysis is followed and analysis for POs and PSOs attainment is carried out. Gaps have been identified and the appropriate actions have been taken.

Actions taken for following observations:

3. Suggested method of analysis is followed and analysis for PO and PSO attainment is carried out.
4. Gaps have been identified
5. Appropriate actions have been taken in terms of Workshops/ Seminars/ Expert lectures etc.

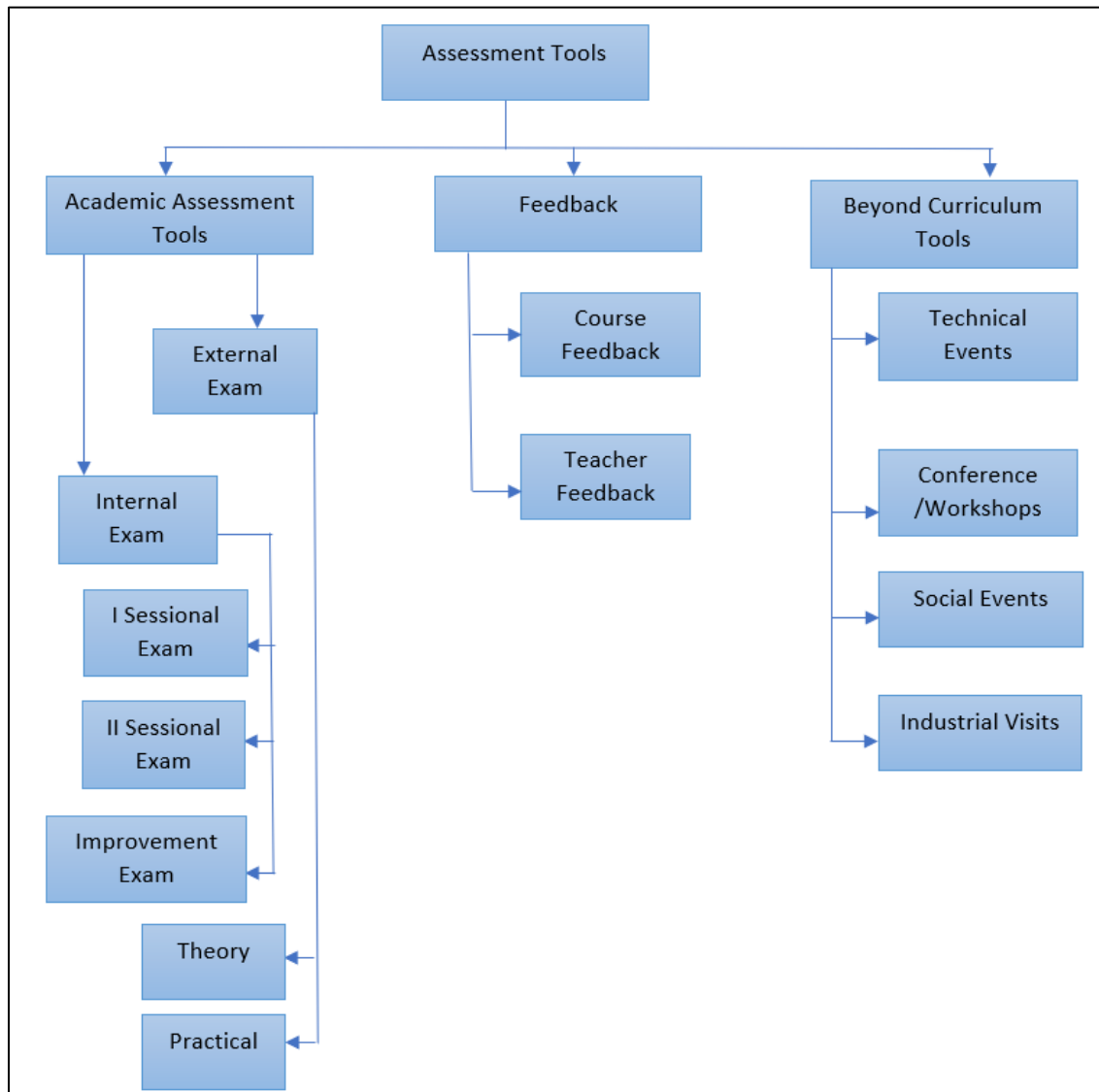
1. Method for analysis for PO and PSO attainment

A. List of Assessment tools and processes:

- **Direct Assessment Tools:** includes final university exam, sessional exam, practical exam and assignment.
- **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 PO's and PSO's

2. Gaps identified from the PO PSO attainment analysis:

S. 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	Cyber Crime	Investigating cyber-attacks by criminals. These investigations involve all areas of the Internet and online services
19	Industry Exposure	Where an engineering student is put through real-life work situations.
20	Soft skill developments	Combination of people skills, social skills, communication skills, character or face-to-face are generally more successful
21	Web design Training	Creative and technical skills for planning and building

22	New 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
23	Health Awareness	Awareness of disease and symptoms is essential for screening and early detection.
24	Voting Rights and awareness	Voting is a fundamental right that every individual should exercise

3. Actions Taken for the gaps identified from the PO PSO attainment analysis:

Session 2022-23

S.No	Gap	Action taken	Date-Month-Year	Resource Person with designation	% of students	Relevance to POs, PSOs
1	Trends in CS and IT	Workshop on AI and ML	16-1-2023	Dr. Nimish Kumar, HOD	50	PO1, PO2, PO3, PO5, PSO1, PSO2
2	Creative Skills	Coding competition	07-2-2023	Dr. Nimish Kumar, HOD	60	PO1, PO2, PO3, PO4, PO5, PSO1
3	Creative skills	Seminar on Artificial Intelligence	21-2-2023	Dr. Nimish Kumar, HOD	30	PO1, PO2, PO3, PO5
4	Startups	Webinar on Startups and Business Strategies	23-06-2023	E-Cell, BKBIET	70	PO11, PO6, PO8, PO10
5	Industry exposers	Seminar on Creating an Ecosystem in Educational Institutions	16-03-2023	Mr. Reetesh Gautam, Placement Coordinator	20	PO6, PO10
6	Recent trends	International conference on Recent Advancements in Mathematical and Allied Sciences	25-03-2023	Dr. Vipin Kumar, Associate Professor	10	PO1, PO6
7	Technical skills	Workshop on Python programming	01-04-2023	Dr. Nimish Kumar, HOD	50	PO1, PO2, PO3, PO4, PO5, PSO1, PSO3
8	Technical skills	Web development workshop	02-04-2023	Dr. Nimish Kumar, HOD	70	PO1, PO2, PO3, PO4, PO5, PSO1, PSO3
9	Technical skills	Hackathon -2023	04-04-2023	Dr. Nimish Kumar, HOD	50	PO2, PO3, PO4
10	Technical skills	GitHub and open-source	13-04-2023	Dr. Nimish Kumar,	40	PO2, PO3,

		workshops		HOD		PO4, PSO1
11	Technical skills	Organized 3 day flutter development	16-04-2023	Dr. Nimish Kumar, HOD	10	PO1, PO2, PO3, PO4
12	Creative skills	Newton School coding club organized 2.5 hours coding competition.	01-09-2022	Mr. Vipin Saraogi, Assistant Professor	20	PO1, PO2, PO3, PO4
13	Creative skills	6 Days Workshop on Skill Development Program (SDP)	02-09-2022	Dr. Santosh Jangir, HOD	10	PO1, PO2, PO3, PO4, PO5, PO8, PO10
14	Creative skills	Coding Contest -Newton School coding Club	28-09-2022	Mr. Vipin Saraogi, Assistant Professor	20	PO1, PO2, PO3, PO4
15	Creative skills	2-day workshop Introduced to the interface of Figma.	01-12-2023	Dr. Nimish Kumar, HOD	30	PO1, PO2, PO3, PO4, PO5, PSO1

Session 2021-22

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with designation	% of students	Relevance to POs, PSOs
1	Higher Studies	GATE Orientation Program	31-07-2021	Dr. Nimish Kumar	70	PO1, PO2, PO4
2	Trends in CS and IT	Technical festival Vibes-21 organized	23-10-2021	CS & IT student coordinators	100	PO1-PO12, PSO1, PSO2, PSO3
3	Technical skill	Technical event "Android Study Jams" organized	04-12-2021	Mr. Shekhar Agarwal	40	PO1, PO2, PO3, PSO1
4	Creative Skills	Coding class and Code-a-thon organized at BKBIET	06-12-2021	Dr. Nimish Kumar, HOD Mr. Himanshu Verma, Assistant Professor	50	PO1, PO2, PO3, PO4, PO5, PSO1
5	Creative skills	Three day workshop on "Internet of Things"	08-12-2021	Ms. Molishka Tanwar	30	PO1, PO2, PO3, PO5, PSO1, PSO2
6 7	Interdisciplinary technology	Talk on 'VLSI'	02-05-2022	Mr. Rahul Agarwal, Senior Design Engineer, Intel Corp.	10	PO1, PO2, PO3, PO5
8	Web based technologies	One Day Workshop on "GitHub and Web"	04-05-2022	Mr. Sameer Saini & Aniket Kumar Sinha, Coordinator GDSC	65	PO1, PO2, PO3, PSO3
9	Industry exposers	International Industry-Academia Meet	07-05-2022	CS/IT dept.	90	PO5, PO6
10	Machine	One Day Workshop on	14-05-2022	Mayank Jaiswal, Ira	60	PO1, PO2,

	learning	Machine learning		Goyal, Ishan Agarwal, Coordinator GDSC		PO3, PO5, PO8, PSO2
11	Recent trends	Online International Conference on RACME	30-05-2022	Dr. AK Malik, Associate Professor	10	PO1-PO12
12	Social awareness and ethics	One Day Online Webinar on "Awareness on drug addiction among youth"	17-12-2021	Mr. Kaushal Kishore, Minister of State Housing & Urban, GOI	20	PO6, PO8
13	Social awareness and ethics	International Mother Language Day	22-02-2022	NSS	10	PO6
14	Social awareness and ethics	MUN at BKBIET	23-04-2022	MUN	5	PO6
15	Stress Management	Webinar on Diluting Stress for Quality Life	02-08-2021	Dr. Disha Meel, IETE	10	PO6, PO12
16	Social Activity	Free Dental Camp at BKBIET	25-11-2021	BKBIET	10	PO6
17	Social Outreach Activities	Tree Plantation	27-11-2021	NSS & NCC units	100	PO6
18	Social awareness and ethics	7 day yoga camp	25-05-2022	NSS	20	PO6

Session 2020-21

S.No.	Gap	Actiontaken	Date- Month- Year	Resource Person with designation	% of stude nts	Releva nce to POs, PSOs
1	Virtual Laboratories	Virtual lab started in BKBIET	10-07-2020	Dr. Santosh Jangir, Associate Professor	50	PO1, PO3, PO5
2	Higher studies in abroad	Virtual Talk on Masters Opportunities in France	01-09-2020	Dr. Sonam Mittal & Mr. Gaurav Sahu, BIRD coordinator	60	PO6, PO7
3	Ethical Hacking and Cyber	Online Webinar on "Cyber Physical Systems	05-09-2020	Dr. Krishna Meel, IETE coordinator	45	PO1, PO2, PO6, PO8
4	Application development	Five-day online workshop on Machine Learning with Python	12-12-2020	Dr. Nimish Kumar, HOD, CS/IT	50	PO1, PO2, PO3, PO10, PSO2
5	Soft Skill development	One day talk on communication through advertising	25-12-2020	Dr. Sangeeta Sharma, Professor, BITS- Pilani	70	PO8, PO9, PO10

6	Inspiration for innovation	Three-day webinar on Virtual Talk Series on Inspire to Innovate for Futuristic Engineering	28-12-2020	Dr. AK Kathaniya, Professor, Jamia Islamia Univ.	45	PO12
7	Creative skills	5 days Workshop on IOT	19-01-2021	Dr. Nimish Kumar, HOD- CS/IT and Mr. Himanshu Verma, Assistant Professor	45	PO1, PO2, PO3, PO5, PSO
8	Industrial exposure	Industrial Expert Lecture on Innovative Engineering Application	5-02- 2021	Dr. Ajay Agarwal, Senior Scientist, CEERI-Pilani	70	PO1, PO4, PO5, P12
9	Recent trends	Online International Conference(RACME)	19-03-2021	Dr. AK Malik, Associate Professor	20	PO1-PO12
10	Interdisciplinary technology	One day seminar on VLSI	30-03-2021	Mr. Ranveer Singh, HR, Truchip Indian Pvt. Ltd.	10	PO1, PO2, PO3, PO5, PSO1
11	Cyber Security	Webinar organized on "Cyber Security: Ensuring Secure Digital Transactions"	18-06-2021	Dr. Anil Saini, Scientist CEERI-Pilani and Dr. Ajay Agarwal, Senior Scientist, CEERI-Pilani	50	PO1, PO2, PO6, PO8
12	Software Development	4 days Valorant Game Program	9-02-2021	Dr. Nimish Kumar, HOD, CS/IT	30	PO3, PO4, PO5, PO9
13	Social awareness and ethics	Independence Day celebration	15-08-2020	BKBIET	80	PO6
14	Social Outreach Activities	Environmental protection activity program	09-01-2021	Mr. Himanshu Verma, IEI	50	PO6
15	Social awareness program	Youth Week Celebration	13-01-2021	Mr. Anil Datika, NCC coordinator	60	PO6, PO8
16	Social Outreach Activities	Tree Plantation	9-08-2020	NSS & NCC units	100	PO6
17	Social awareness and ethics	On "Eco Literature and Epidemics" Online One Day International Webinar	13-04-2021	Dr. AK Malik, Associate Professor	40	PO6, PO12

7	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
7.2	Academic Audit and actions taken thereof during the period of Assessment	Involvement of external expert is not visible.	Academic audits are like check-ups to see how well teachers are teaching and students are learning. We look at things like how classes are taught, how labs are kept, and what departments are doing. It involves talking with teachers and

			<p>working together to make teaching and learning better, so students can succeed.</p> <p>The Head of the Institution forms a committee that does these check-ups twice a year. The committee looks at different records like student attendance, test scores, assignments, what topics are taught, how classes are planned, timetables, lesson plans, academic calendars, grading methods, lecture notes, and final results. This helps make sure that everything is running well and we can improve the way we teach and learn. The details of this process are explained in the table below.</p>
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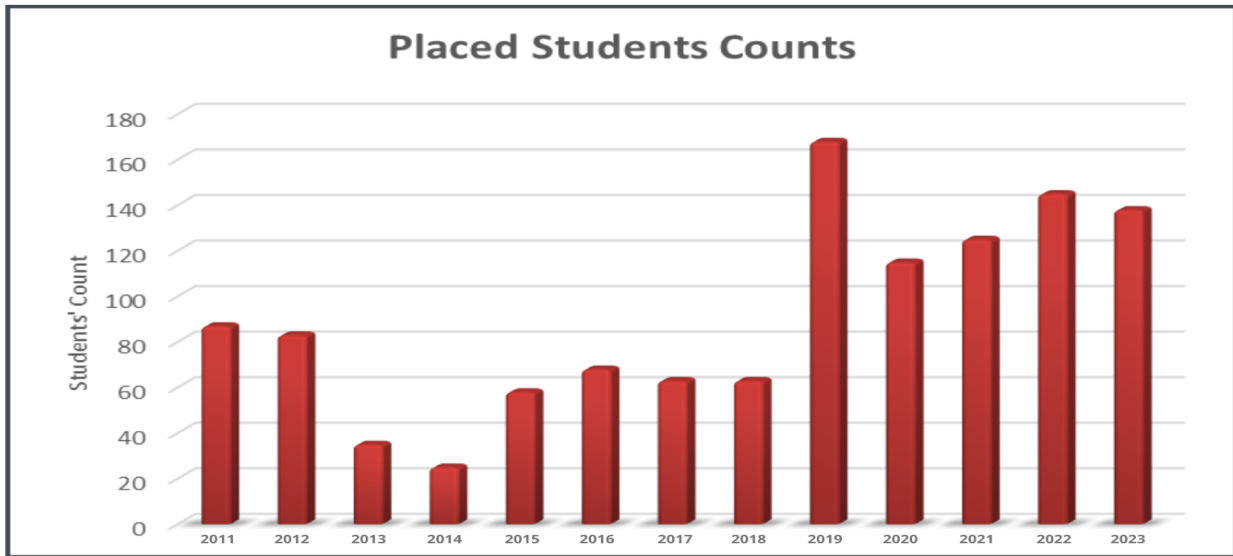
I. No.	Criteria	Action Plan(s)	Academic Audit Committee/Persons	Proof of Resources	Frequency
1	Student's Attendance	Subject Faculty has to post the student attendance in register as well as e-governance	Subject Faculty & Class teacher	Attendance register / monthly attendance sheet copy and ECAP	End of the semester
2	Mid Marks	Subject Faculty has to post the assessment marks in register.	Subject Faculty / Department level exam Coordinator	Attendance register / Course file	End of the semester
3	Assignment Marks	Subject Faculty has to post the assignment marks in register.	Subject Faculty & Class teacher	Record of attendance and assessment	End of the semester
4	Topic Covered	Syllabus Coverage by the subject faculty should be entered in the register	Subject Faculty & Class teacher	Record of attendance and assessment	End of the semester
5	Session Strategy	As per the periodic plan, subject faculty will execute.	Subject Faculty & Class teacher	Subject faculty / Department level Coordinator	End of the semester
6	Time Table	The class timetable should be provided in the course file as well as register	Subject Faculty & Time table Coordinator	Course File	End of the semester
7	Lesson Plan (Theory & Lab)	Subject faculty will prepare lesson plan unit-wise as per curriculum/module coverage	Subject Faculty & Class teacher	Subject faculty / Department level Coordinator	End of the semester
8	Academic Calendar	Academic Calendar is prepared by College	Department level coordinator/ HOD	College website / JNTUK website	End of the semester

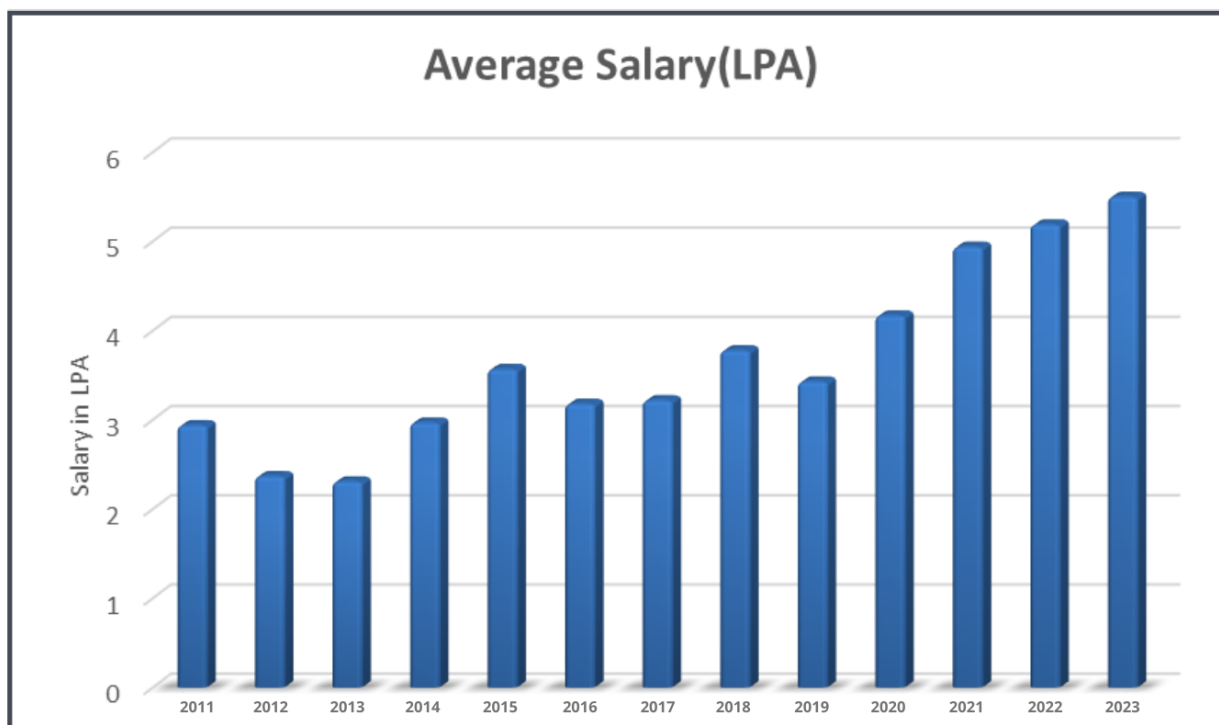
I. No.	Criteria	Action Plan(s)	Academic Audit Committee/Persons	Proof of Resources	Frequency
		academic council (CAC)			
9	Scheme of Evaluation	Scheme of valuation prepared by the subject faculty and marks will be awarded	Subject Faculty	Course File	End of the semester
10	Lecture Notes	Lecture Notes prepared by the subject faculty	Subject Faculty	Subject Faculty / Course File	End of the semester
11	Final Result Analysis	Subject faculty / Department level exam coordinator will analyze the final exam result & report submitted to the HOD	Subject Faculty / Class teacher / Department level exam Coordinator	Subject Faculty / Course File / Department exams marks file	End of the semester

7	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
7.3	Improvement in Placement, Higher Studies and Entrepreneurship	Quality of placement need improvement. No improvement is seen in higher studies/ Entrepreneurship.	Most of the students are absorbed by the companies. Very less students go for Higher studies. Following are the significant progress made in the placement activities:

1. **Enhanced Industry Collaborations:** We have successfully expanded our network of industry collaborations. This has not only broadened the spectrum of opportunities for our students but has also strengthened our institute's reputation within the industry.
2. **Placement Workshops and Training Programs:** Our commitment to preparing our students for the professional world has been reflected in the numerous placement workshops and training programs conducted throughout the year. These initiatives focus on developing essential skills such as communication, problem-solving, and teamwork, ensuring our graduates are well-rounded professionals.
3. **Increased Placement Percentage:** The concerted efforts of our placement cell, faculty, and students have resulted in a notable increase in our placement percentage. We are delighted to witness a growing number of students securing job offers even before the completion of their academic programs.

4. **Alumni Engagement:** Our alumni have played a pivotal role in supporting our placement endeavors. Their success stories and experiences have been shared with current students through interactive sessions, providing valuable insights into industry expectations and career paths.
5. **Career Guidance and Counseling:** Recognizing the importance of personalized career guidance, we have strengthened our counseling services to assist students in making informed decisions about their career paths. This has resulted in better alignment between student aspirations and available opportunities.





7	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
7.4	Improvement in the quality of students admitted to the program	Opening and closing ranks were not found to be improved on the basis of entrance test.	Following are opening and closing ranks. Ranks shows improvement.

Item			2020-21	2021-22	2022-23
National Level Entrance Examination	REAP (Rajasthan Engineering Admission Process) JEE (Joint Entrance Examination)	No of students admitted		31	50
		Opening Score/Rank		70579	48666
		Closing Score/Rank		831128	902241
State/ University/ Level Entrance Examination/ Others	REAP (Rajasthan Engineering Admission Process) Based on XII PCM	No of students admitted	130	95	76
		Opening Score/Rank	95	96.8	96.33

	percentage	Closing Score/Rank	50.7	52.33	50.33
Name of the Entrance Examination for Lateral Entry or lateral entry details	LEEP (Lateral Entry in Engineering Program) Based on diploma result	No of students admitted	11	04	12
		Opening Score/Rank	82.66	81.5	82.35
		Closing Score/Rank	53.40	55.14	62.81
Average CBSE/ Any other board result of admitted students (Physics, chemistry & Maths)			69.90	75.58	76.86

Criteria 8

8	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
8.1	First Year Student-Faculty Ratio (FYSFR)	540/15+540/16+540/14 Average 1:36	<p>Increased the number of faculty members and adjusted the Faculty Workload.</p> <p>= 480/19+480/21+420/19 Average FYSFR = 1:23</p> <p>Following is the detail of faculty and their load adjustment year wise.</p>

Year	Number of students (approved intake strength)	Number of faculty members (considering fractional load)	FYSFR	*Assessment = (5 ×20)/ FYSFR (Limited to Max. 5)
2023-24(CAY)	480	23	23	4.34
2022-23(CAYm1)	480	19	25	3.74
2021-22 (CAYm2)	480	21	23	4.16
Average	480	21	24	4.08

First Year Academic Year (2023-24)						
First Year Student-Faculty Ratio (FYSFR)						
S.No.	Name of the faculty member	Qualification	Designation	Avg/Load 2023-24		
				I Year	Non I Year	% Load
1	Dr. S.M Prasanna	PhD	Director	18	0	100.00
2	Dr Yogesh Kumar	M.Sc.and PhD	Associate Professor	21	0	100.00
3	Dr Anupama Sharma	M.Sc.and PhD	Associate Professor	26	6	81.25
4	Mr Vipin Kumar	M.Sc.and PhD	Associate Professor	24	7	77.42
5	Dr Manusmriti Sharma	M.A and Ph.D	Associate Professor	24	0	100.00
6	Ms Rashmi Sharma	M.Phil, Ph.D	Assistant Professor	24	0	100.00
7	Dr. Krishna Meel	M.Sc.and Ph.D	Associate Professor	12	0	100.00
8	Dr. Disha Meel	M.Sc. and PhD	Associate Professor	7	0	100.00

9	Dr. Vikas Tailor	Ph.D	Assistant Professor	24	8	75.00
10	Dr. Hasibur Rahman	Ph.D	Assistant Professor	9	19	32.14
11	Dr. Nishant Kumar	Ph.D	Assistant Professor	20	0	100.00
12	Mr Jitender Kumar	M.Tech	Assistant Professor	31	5	86.11
13	Mr Manoj Kataria	M.Tech	Assistant Professor	7	6	53.85
14	Mr. Rajesh Singh Shekhawat	M.Tech	Assistant Professor	14	12	53.85
15	Mr. Gaurav Sahu	M.Tech	Assistant Professor	9	12	42.86
17	Mr. Chitranjan Kumar	M.Tech	Assistant Professor	7	14	33.33
18	Mr. S.M Kaushik	Diploma	Technical Officer	6	0	100.00
19	Mr. Reetesh Gautam	M.Tech	Placement officer	18	0	100.00
20	Mr. Naresh	ITI/CTI	Estate Officer	12	0	100.00
21	Mr. Anil Kumar	M.Tech	System Analyst	10	0	100.00
22	Mr. Ramesh Kumar	M.Tech	Assistant Professor	21	8	72.41
23	Mr. Gopal Krishan Prajapat	M.Tech	Assistant Professor	10	12	45.45
24	Mr. Vikram Kumar	M.Tech	Lab Assistant	12	0	100.00
25	Mr Amit Kumar	MA	Assistant Professor	12	0	100.00
26	Mr Kesri	M.Tech	Assistant Professor	12	0	100.00
27	Ms Vaishali Sharma	M.Sc	Assistant Professor	12	0	100.00
28	Ms Priyanka	M.Sc	Lab Assistant	12	0	100.00
						2253.67

First Year Academic Year (2022-23)						
First Year Student-Faculty Ratio (FYSFR)						
S.No.	Name of the faculty member	Qualification	Designation	Avg/Load 2022-23		

				I Year	Non I Year	% Load
1	Dr. S.M Prasanna	PhD	Director	18	0	100.00
2	Dr Yogesh Kumar	M.Sc.and PhD	Associate Professor	21	0	100.00
3	Dr Anupama Sharma	M.Sc.and PhD	Associate Professor	26	6	81.25
4	Mr Vipin Kumar	M.Sc.and PhD	Associate Professor	24	7	77.42
5	Dr Manusmriti Sharma	M.A and Ph.D	Associate Professor	24	0	100.00
6	Ms Rashmi Sharma	M.Phil, Ph.D	Assistant Professor	24	0	100.00
7	Dr. Krishna Meel	M.Sc.and Ph.D	Associate Professor	12	0	100.00
8	Dr. Disha Meel	M.Sc. and Ph.D	Associate Professor	7	0	100.00
9	Dr. Vikas Tailor	Ph.D	Assistant Professor	24	8	75.00
10	Dr. Hasibur Rahman	Ph.D	Assistant Professor	9	19	32.14
11	Dr. Nishant Kumar	Ph.D	Assistant Professor	20	0	100.00
12	Mr Jitender Kumar	M.Tech	Assistant Professor	31	5	86.11
13	Mr Manoj Kataria	M.Tech	Assistant Professor	7	6	53.85
14	Mr. Rajesh Singh Shekhawat	M.Tech	Assistant Professor	14	12	53.85
15	Mr. Gaurav Sahu	M.Tech	Assistant Professor	9	12	42.86
17	Mr. Chitranjan Kumar	M.Tech	Assistant Professor	7	14	33.33
18	Mr. S.M Kaushik	Diploma	Technical Officer	6	0	100.00
19	Mr. Reetesh Gautam	M.Tech	Placement officer	18	0	100.00
20	Mr. Naresh	ITI/CTI	Estate Officer	12	0	100.00
21	Mr. Anil Kumar	M.Tech	System Analyst	10	0	100.00
22	Mr. Ramesh Kumar	M.Tech	Assistant Professor	21	8	72.41
23	Mr. Gopal Krishan Prajapat	M.Tech	Assistant Professor	10	12	45.45
24	Mr. Vikram Kumar	M.Tech	Lab Assistant	12	0	100.00
						1853.67

First Year Academic Year (2021-22)						
First Year Student-Faculty Ratio (FYSFR)						
S.No.	Name of the faculty member	Qualification	Designation	Avg/Load 2021-22		
				I Year	Non I Year	% Load
1	Dr. S.M Prasanna	Ph.D	Director	12	0	100.00
2	Dr Yogesh Kumar	M.Sc. and PhD	Associate Professor	22	0	100.00
3	Dr Anupama Sharma	M.Sc. and PhD	Associate Professor	23	3	88.46
4	Dr. Vipin Kumar	M.Sc. and PhD	Associate Professor	23	3	88.46
5	Dr Manusmriti Sharma	M.A and Ph.D	Associate Professor	29	10	74.36
6	Dr. Rashmi Sharma	M.Phil, Ph.D	Assistant Professor	22	0	100.00
7	Dr. Krishna Meel	M.Sc. and Ph.D	Associate Professor	22	0	100.00
8	Dr. Disha Meel	M.Sc. and Ph.D	Associate Professor	22	0	100.00
9	Dr. Shilpesh Rajpurohit	Ph.D	Assistant Professor	10	3	76.92
10	Dr. Hasibur Rahman	Ph.D	Assistant Professor	16	6	72.73
11	Ms Shalini Srivastava	MA/ MPhil	Assistant Professor	15	3	83.33
12	Mr Ravindra Kumar	B.E/B.Tech	Assistant Professor	6	6	50.00
13	Mr Manoj Kataria	M.E/ M.Tech	Assistant Professor	15	6	71.43
14	Mr. Sanjeev Sultania	M.Tech	Assistant Professor	11	6	64.71
15	Mr. Gaurav Sahu	M.Tech	Assistant Professor	12	12	50.00
16	Mr. Rajesh Singh Shekhawat	M.Tech	Assistant Professor	28	8	77.78
17	Mr. Dhanesh Matolia	M.Tech	Assistant Professor	8	3	72.73
18	Mr. Chitranjan Kumar	M.E/ M.Tech	Assistant Professor	20	3	86.96
19	Mr. S.M Kaushik	Diploma		8	0	100.00
20	Mr. Reetesh Gautam	M.E/ M.Tech	Placement Officer	12	0	100.00

21	Mr. Naresh	CTI		12	0	100.00
22	Mr. D.C Sharma	M.Tech	Assistant Professor	6	6	50.00
23	Mr. Himanshu Gupta	M.Tech	Assistant Professor	12	3	80.00
24	Anil Kumar	M.Tech	System Analyst	8	0	100.00
25	Mr. Vikram Kumar	M.Tech	Lab Assistant	12	0	100.00
						2087.86

8	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
8.2	Qualification of Faculty Teaching First Year Common Courses	$(2.88+2.96+2.96) \times 1/3 = 2.93 = 3$	$(3.78+3.92+3.95) \times 1/3 = 3.88$

Qualification of Faculty Teaching First Year Common Courses

Assessment of qualification = $(5x + 3y)/RF$,

x = Number of Faculty with Ph.D

y = Number of Faculty with Post-graduate qualification

RF = Number of faculty members required as per SFR of 20:1.

Year	x	y	RF	Assessment of faculty qualification $(5x + 3y)/RF$
CAY (2023-24)	11	17	28	3.78
CAY _{m1} (2022-23)	11	13	24	3.92
CAY _{m2} (2021-22)	10	15	24	3.95
Average Assessment				3.88

First Year Academic Year (2023-24)		
S. No.	Name of the faculty member	Qualification
1	Dr. S.M Prasanna	PhD
2	Dr Yogesh Kumar	M.Sc. and PhD
3	Dr Anupama Sharma	M.Sc. and PhD
4	Dr Vipin Kumar	M.Sc. and PhD
5	Dr Manusmriti Sharma	M.A and Ph.D
6	Dr Rashmi Sharma	M.Phil, Ph.D

7	Dr. Krishna Meel	M.Sc. and Ph.D
8	Dr. Disha Meel	M.Sc. and PhD
9	Dr. Vikas Tailor	Ph.D
10	Dr. Hasibur Rahman	Ph.D
11	Dr. Nishant Kumar	Ph.D
12	Mr Jitender Kumar	M.Tech
13	Mr Manoj Kataria	M.Tech
14	Mr. Rajesh Singh Shekhawat	M.Tech
15	Mr. Gaurav Sahu	M.Tech
16	Mr. Rajesh Singh Shekhawat	M.Tech
17	Mr. Chitranjan Kumar	M.Tech
18	Mr. S.M Kaushik	Diploma
19	Mr. Reetesh Gautam	M.Tech
20	Mr. Naresh	ITI/CTI
21	Mr. Anil Kumar	M.Tech
22	Mr. Ramesh Kumar	M.Tech
23	Mr. Gopal Krishan Prajapat	M.Tech
24	Mr. Vikram Kumar	M.Tech
25	Mr Amit Kumar	MA
26	Mr Kesri	M.Tech
27	Ms Vaishali Sharma	M.Sc
28	Ms Priyanka	M.Sc

Number of faculty with Ph.D (X)	11
Number of faculty with Post Graduation (Y)	17
Required Faculty (RF)	28

First Year Academic Year (2022-23)		
S. No.	Name of the faculty member	Qualification
1	Dr. S.M Prasanna	PhD
2	Dr Yogesh Kumar	M.Sc. and PhD
3	Dr Anupama Sharma	M.Sc. and PhD
4	Dr Vipin Kumar	M.Sc. and PhD
5	Dr Manusmriti Sharma	M.A and Ph.D
6	Dr Rashmi Sharma	M.Phil, Ph.D
7	Dr. Krishna Meel	M.Sc. and Ph.D

8	Dr. Disha Meel	M.Sc. and PhD
9	Dr. Vikas Tailor	Ph.D
10	Dr. Hasibur Rahman	Ph.D
11	Dr. Nishant Kumar	Ph.D
12	Mr Jitender Kumar	M.Tech
13	Mr Manoj Kataria	M.Tech
14	Mr. Rajesh Singh Shekhawat	M.Tech
15	Mr. Gaurav Sahu	M.Tech
16	Mr. Rajesh Singh Shekhawat	M.Tech
17	Mr. Chitranjan Kumar	M.Tech
18	Mr. S.M Kaushik	Diploma
19	Mr. Reetesh Gautam	M.Tech
20	Mr. Naresh	ITI/CTI
21	Mr. Anil Kumar	M.Tech
22	Mr. Ramesh Kumar	M.Tech
23	Mr. Gopal Krishan Prajapat	M.Tech
24	Mr. Vikram Kumar	M.Tech

Number of faculty with Ph.D (X)	11
Number of faculty with Post Graduation (Y)	13
Required Faculty (RF)	24

First Year Academic Year (2021-22)		
S. No.	Name of the faculty member	Qualification
1	Dr. S.M Prasanna	Ph.D
2	Dr Yogesh Kumar	M.Sc. and PhD
3	Dr Anupama Sharma	M.Sc. and PhD
4	Dr. Vipin Kumar	M.Sc. and PhD
5	Dr Manusmriti Sharma	M.A and Ph.D
6	Dr. Rashmi Sharma	M.Phil, Ph.D
7	Dr. Krishna Meel	M.Sc. and Ph.D
8	Dr. Disha Meel	M.Sc. and Ph.D
9	Dr. Shilpesh Rajpurohit	Ph.D
10	Dr. Hasibur Rahman	Ph.D
11	Ms Shalini Srivastava	MA/ MPhil
12	Mr Ravindra Kumar	B.E/B.Tech

13	Mr Manoj Kataria	M.E/ M.Tech
14	Mr. Sanjeev Sultania	M.Tech
15	Mr. Gaurav Sahu	M.Tech
16	Mr. Rajesh Singh Shekhawat	M.Tech
17	Mr. Dhanesh Matolia	M.Tech
18	Mr. Chitranjan Kumar	M.E/ M.Tech
19	Mr. S.M Kaushik	Diploma
20	Mr. Reetesh Gautam	M.E/ M.Tech
21	Mr. Naresh	ITI/CTI
22	Mr. D.C Sharma	M.Tech
23	Mr. Himanshu Gupta	M.Tech
24	Anil Kumar	M.Tech
25	Mr. Vikram Kumar	M.Tech

Number of faculty with Ph.D (X)	10
Number of faculty with Post Graduation (Y)	15
Required Faculty (RF)	24

First Year Academic Year (2020-2021)		
S. No.	Name of the faculty member	Qualification
1	Dr Yogesh Kumar	M.Sc. and PhD
2	Dr Anupama Sharma	M.Sc. and PhD
3	Dr Vipin Kumar	M.Sc. and PhD
4	Dr Manusmriti Sharma	M.A and Ph.D
5	Dr. Rashmi Sharma	M.Phil, Ph.D
6	Dr. Hasibur Rahman	Ph.D
7	Dr. Krishna Meel	M.Sc. and PhD
8	Dr. Disha Meel	M.Sc. and PhD
9	Dr. Ajender K Malik	Ph.D
10	Mr R K Thapliyal	M.E/ M.Tech
11	Mr Jitender Kumar	M.E/ M.Tech
12	Ms Shalini Srivastava	MA/ MPhil
13	Mr Manoj Kataria	M.E/ M.Tech

14	Mr. Sanjeev Sultania	M.Tech
15	Mr. Vikas Poonia	Ph.D
16	Mr. Praveen Kumar Sharma	M.Tech
17	Mr. Gaurav Sahu	M.Tech
18	Mr. Rajesh Singh Shekhawat	M.Tech
19	Mr. Dhanesh Matolia	M.Tech
20	Mr. Chitranjan Kumar	M.E/ M.Tech
21	Mr. S.M Kaushik	Diploma
22	Mr. Himanshu Gupta	M.E/ M.Tech
23	Mr. Satish Kumar Rai	M.E/ M.Tech
24	Mr. Naresh	ITI/CTI
25	Mr. D.C Sharma	M.Tech
26	Anil Kumar	M.Tech
27	Mr. Vikram Kumar	M.Tech

Number of faculty with Ph.D (X)	9
Number of faculty with Post Graduation (Y)	18
Required Faculty (RF)	21

8	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
8.3	First Year Academic Performance	Academic Performance rather low	

Academic Performance in First Year

Academic Performance	2022-23	2021-22	2020-21	2019-20
Mean of 1 st year Grade Point Average of all successful students on a 10-point scale of Mean of percentage of marks of all successful students of 1 st year/10	* Session Running	6.45	7.50	7.79
Total No. of successful students (Y)	Result Awaited	213	204	233
Total No. of students appeared in the examination (Z)	Result Awaited	213	204	233
API=X*(Y/Z)	Result Awaited	6.45	7.50	7.79
Average=(API+AP2+AP3/3)		7.24		

Assessment= (1.5*Average API) = (1.5*7.24) = 10.86

SESSION- 2021-22 First Year

S.No	Roll No	Name	I Sem Total	II Sem Total	Average
1	21EBKCS001	AANCHAL VERMA	8.48	8.5	8.49
2	21EBKCS002	ABHISHEK	3.6	2.5	3.05
3	21EBKCS003	ADITI SINGH	7	8.2	7.60
4	21EBKCS004	ADITYA BHARDWAJ	7.27	6.6	6.94
5	21EBKCS005	ADITYA MALIK	5.74	6.77	6.26
6	21EBKCS006	ADITYA SHARMA	8.58	8.91	8.75
7	21EBKCS007	AJAY SAINI	6.35	7.17	6.76
8	21EBKCS008	AJAY SINGH	6.03	7.25	6.64
9	21EBKCS009	AJAY VERMA	5.1	5.56	5.33
10	21EBKCS010	AKASH BHATI	7.2	8.74	7.97
11	21EBKCS011	AKSHAT PAREEK	6.42	7.85	7.14
12	21EBKCS012	AMAN KUMAR BHALADAR	7.6	7.86	7.73
13	21EBKCS013	ANKIT AGARWAL	7.53	8.24	7.89
14	21EBKCS014	ANKIT SHARMA	7.98	8.81	8.40
15	21EBKCS015	ANKIT SHEORAN	8.08	8.96	8.52
16	21EBKCS016	ANUJ KUMAR	5.21	4.8	5.01
17	21EBKCS017	ANUJ KUMAR	7.02	8.17	7.60
18	21EBKCS018	ANUJ SAINI	4.27	0.8	2.54
19	21EBKCS019	ANUSHKA	8.24	8.41	8.33
20	21EBKCS020	ASHWANI KUMAR	7.24	7.18	7.21
21	21EBKCS021	BHAVUK GAUR	7.99	8.67	8.33
22	21EBKCS022	CHAHANA SINGH	8.22	8.98	8.60
23	21EBKCS023	CHAKRAVARTHY KIRAN KUMAR	5.09	4.3	4.70
24	21EBKCS024	DAVID KUMAR	7.6	7.14	7.37
25	21EBKCS025	DEEPAK NEHRA	8.29	8.48	8.39
26	21EBKCS026	DEEPESH BHORIWAL	8.89	9.12	9.01
27	21EBKCS027	DEVANSH INDORIYA	7.96	7.15	7.56
28	21EBKCS028	DHANANJAY CHOUDHARY	8.15	8.12	8.14
29	21EBKCS029	DHARMESH KUMAR	8.6	8.22	8.41
30	21EBKCS030	DIVYA	8.17	8.43	8.30
31	21EBKCS031	DIVYAM KASHYAP	7	4.07	5.54
32	21EBKCS032	DIVYANSH SHARMA	6.68	5.7	6.19
33	21EBKCS033	DIVYANSHU PUROHIT	8.1	8.62	8.36
34	21EBKCS034	GARIMA	3.29	4.2	3.75
35	21EBKCS035	GAURAV RAWAT	5.03	2	3.52

36	21EBKCS036	GAURAV SHARMA	5.69	3.8	4.75
37	21EBKCS037	GEETANSHU SHUKLA	5.61	5.3	5.46
38	21EBKCS038	GUDDAN SAINI	5.71	4.9	5.31
39	21EBKCS039	GURUVEND BHARGAV	7.23	8.05	7.64
40	21EBKCS040	HARSH GAHLAWAT	7.12	7.5	7.31
41	21EBKCS041	HARSHDEEP	8.12	8.81	8.47
42	21EBKCS042	HITESH KUMAR SHARMA	4.73	3.9	4.32
43	21EBKCS043	ISHA MAHLA	5.57	6.4	5.99
44	21EBKCS044	JATIN KUMAR SHARMA	7.5	6.9	7.20
45	21EBKCS045	JENISH POONIA	7.46	7.65	7.56
46	21EBKCS046	JITENDER SINGH	3.8	5.3	4.55
47	21EBKCS047	JITESH VERMA	5.64	5.3	5.47
48	21EBKCS048	JYOTSNA BISHT	8.53	8.91	8.72
49	21EBKCS049	KAMLESH KUMAR	7.15	5.9	6.53
50	21EBKCS050	KANIKA PARASHAR	8.17	7.81	7.99
51	21EBKCS051	KAPIL JANGRA	8.77	8.36	8.57
52	21EBKCS052	KARTIK JANGID	4.88	4.07	4.48
53	21EBKCS053	KARTIK SHARMA	4.3	6.05	5.18
54	21EBKCS054	KIRTI SHARMA	8.24	8.7	8.47
55	21EBKCS055	KOMAL	5.45	7.34	6.40
56	21EBKCS056	KRISHNA SINGH SHEKHAWAT	3.59	3.7	3.65
57	21EBKCS057	KRITIKA RAO	7.23	8.31	7.77
58	21EBKCS058	LAXMI	7.36	7.86	7.61
59	21EBKCS060	MANJEET CHOUDHARY	7.72	7	7.36
60	21EBKCS061	MEGHA SAINI	8.05	8.79	8.42
61	21EBKCS062	MOHIT YADAV	7.64	8.55	8.10
62	21EBKCS063	MOHIT KUMAR TIWARI	5.83	6.95	6.39
63	21EBKCS064	MONU KUMARI PUNIA	8.27	0	4.14
64	21EBKCS065	MUKUL SHARMA	7.53	8.34	7.94
65	21EBKCS066	NAMAN AGARWAL	8.27	7.77	8.02
66	21EBKCS067	NAVEEN KUMAR	4.57	4.97	4.77
67	21EBKCS068	NEERAJ	6.61	7.81	7.21
68	21EBKCS069	NIDHI AGARWAL	7.7	8.08	7.89
69	21EBKCS070	NIKITA AGARWAL	6.07	6.38	6.23
70	21EBKCS071	NIKITA SAINI	7.15	5.95	6.55
71	21EBKCS072	PANKAJ KUMAR	2.38	0.38	1.38

72	21EBKCS073	PANKAJ MEENA	4.29	3.26	3.78
73	21EBKCS074	PARUL	7.89	8.74	8.32
74	21EBKCS075	POOJA CHOUDHARY	8.93	10	9.47
75	21EBKCS076	PRABHAT SHARMA	8.1	8.43	8.27
76	21EBKCS077	PRATHAM MITTAL	2.33	2.73	2.53
77	21EBKCS078	PRINS	8.27	8.96	8.62
78	21EBKCS079	PULKIT POONIA	4.26	4.8	4.53
79	21EBKCS080	RAJ SHARMA	7.16	5.2	6.18
80	21EBKCS081	RAJNISH	3.04	3.95	3.50
81	21EBKCS082	RAKSHA SHARMA	7.73	8.05	7.89
82	21EBKCS084	REKHA	7.43	7.65	7.54
83	21EBKCS085	RITIKA KIRODIWAL	7.79	8.12	7.96
84	21EBKCS086	RIYA JANGID	7.2	7.72	7.46
85	21EBKCS087	ROHIT SAINI	5.48	5.77	5.63
86	21EBKCS088	ROHIT SHARMA	8.24	8.8	8.52
87	21EBKCS089	SAGAR TANWAR	4.96	6.21	5.59
88	21EBKCS090	SAKSHI	8.74	9.1	8.92
89	21EBKCS091	SANCHAY SHARMA	8.58	9.5	9.04
90	21EBKCS092	SANDEEP SHARMA	7.39	8.93	8.16
91	21EBKCS093	SATYARTH PRAKASH RAI	5.36	6.71	6.04
92	21EBKCS094	SHIVAM SINGH YADAV	8.03	8.17	8.10
93	21EBKCS095	SHIVANKA VAJPAYEE	3.98	4.6	4.29
94	21EBKCS096	SHRIKANT SAINI	7.77	8.93	8.35
95	21EBKCS097	SHUBHAM	2.73	2.09	2.41
96	21EBKCS098	SNEHA SINGH	8.77	9.77	9.27
97	21EBKCS099	SNEHA VYAS	4.11	1.78	2.95
98	21EBKCS100	SOURABH SHARMA	7.06	7.41	7.24
99	21EBKCS101	SRISHTI SINGH	7.89	9.34	8.62
100	21EBKCS102	TAN SINGH	7.98	9.43	8.71
101	21EBKCS103	TANISHK	3.39	2	2.70
102	21EBKCS104	TANMAY SHARMA	7.27	8.16	7.72
103	21EBKCS105	TANU LAMBA	6.79	8.36	7.58
104	21EBKCS106	TUSHAR KUMAR	6.93	7.81	7.37
105	21EBKCS107	UTSAV AGARWAL	5.15	3.95	4.55
106	21EBKCS108	UTTAM SHARMA	4.71	4.46	4.59
107	21EBKCS109	VANSH SONANIYA	6.26	6.89	6.58
108	21EBKCS110	VANSH VERMA	6.06	6.52	6.29

109	21EBKCS111	VIJESH VERMA	2.57	2.69	2.63
110	21EBKCS112	VINITA GIRIYA	8.2	9.27	8.74
111	21EBKCS113	VISHANT JANGIR	6.84	7.74	7.29
112	21EBKCS114	VISHVENDRA SINGH	4.67	5.67	5.17
113	21EBKCS115	VIVEK	6.66	5.6	6.13
114	21EBKCS116	VIVEK BUDANIA	6.38	6.33	6.36
115	21EBKCS117	YASH	7.92	8.2	8.06
116	21EBKCS118	YASH KUMAR	7.5	6.97	7.24
117	21EBKCS119	YOGESH KUMAR	0	0	0.00
118	21EBKCS120	YUVRAJ SINGH	7.04	5.75	6.40
119	21EBKAI001	ABHAY ROHILLA	4.64	5.5	5.07
120	21EBKAI002	ADITYA KUMAR	2.19	0	1.10
121	21EBKAI003	AMAN PRAJAPAT	4.86	5.69	5.28
122	21EBKAI004	AMAN SAINI	6.11	6.25	6.18
123	21EBKAI005	AVI AGARWAL	7.22	6.47	6.85
124	21EBKAI006	AYUSHI TAMBOLI	7.91	7.56	7.74
125	21EBKAI007	DEEPANSH SHARMA	3.5	3.8	3.65
126	21EBKAI008	GAURAV SHARMA	4.14	4.83	4.49
127	21EBKAI010	MAHIKA PANDEY	4.61	4.59	4.60
128	21EBKAI011	MAYUR SHARMA	5.9	6.44	6.17
129	21EBKAI012	PALAK	7.6	8.58	8.09
130	21EBKAI013	PANKAJ KUMAR	6.4	7.93	7.17
131	21EBKAI014	PIYUSH PATHAK	6.42	7.5	6.96
132	21EBKAI015	PIYUSH SINGH RATHORE	6.09	6.33	6.21
133	21EBKAI016	PRASHANT KAUSHIK	4.64	3.89	4.27
134	21EBKAI017	RAHUL NATWARIYA	4.23	3.9	4.07
135	21EBKAI018	RUSTAM	7.22	7.5	7.36
136	21EBKAI019	SAHIL	5.8	4.58	5.19
137	21EBKAI020	SAMARTH CHAUDHARY	4.09	3.88	3.99
138	21EBKAI021	SHYAM PRATAP SINGH RAJAWAT	7.86	8.34	8.10
139	21EBKAI022	VAISHNAVI NAIR	5.16	5.83	5.50
140	21EBKAI023	VINSHEE VINEET KULSHRESHTHA	6.52	6.4	6.46
141	21EBKAI024	VISHAL KUMAR SAHANI	5.83	6.42	6.13
142	21EBKDS003	ABHISHEK SINGH RAUTELA	7.84	6.6	7.22
143	21EBKDS004	AKSHITA SHANDILYA	3.99	4.64	4.32
144	21EBKDS006	ASHISH CHOUDHARY	7.81	8.72	8.27

145	21EBKDS007	CHESTA SAINI	7.81	7.53	7.67
146	21EBKDS008	DEVESH K BAIRWA	6.04	6	6.02
147	21EBKDS009	HARSH JOSHI	6.01	4.73	5.37
148	21EBKDS010	HARSHIT KANDOI	6.11	6.93	6.52
149	21EBKDS011	JATIN KUMAR PANWAR	8.03	8.43	8.23
150	21EBKDS012	MUJJAMIL BHATTI	7.58	8.43	8.01
151	21EBKDS013	NEERAJ KUMAR SAINI	7.48	7.96	7.72
152	21EBKDS014	PALAK SAINI	7.45	7.54	7.50
153	21EBKDS015	PANKAJ	7.91	8.27	8.09
154	21EBKDS016	PRASHANT GUPTA	8.1	9.47	8.79
155	21EBKDS017	PRASHANT SONI	3.26	3.69	3.48
156	21EBKDS018	PRAVEEN SAINI	4.33	4.9	4.62
157	21EBKDS019	SANGEETA	6.31	6.98	6.65
158	21EBKDS020	SHUBHAM SAINI	6.33	7.08	6.71
159	21EBKDS021	SHUBHAM SHARMA	2.9	3.89	3.40
160	21EBKDS022	SURYANSHU RAI	7.34	7.89	7.62
161	21EBKDS023	TAIYAB KHAN	5.07	5.16	5.12
162	21EBKEC001	ABHAY LATTA	4.76	4.95	4.86
163	21EBKEC002	ADITYA	3.58	2.8	3.19
164	21EBKEC003	AISHWARYA GHUGTYAL	4.26	2.91	3.59
165	21EBKEC004	AMAN SAINI	7.71	7.93	7.82
166	21EBKEC005	ANKIT DHANKA	3.97	2.54	3.26
167	21EBKEC006	ASHOK	8.2	9.11	8.66
168	21EBKEC007	BHAVISHYA SAINI	4.9	6.15	5.53
169	21EBKEC009	DEEPANSHU SAHARAN	7.6	5.73	6.67
170	21EBKEC010	DIGVIJAY SINGH	4.73	6.14	5.44
171	21EBKEC011	DUSHYANT DEVATWAL	4.26	5.42	4.84
172	21EBKEC012	HIMANSHU SHARMA	4.9	4.8	4.85
173	21EBKEC013	KAPIL SHARMA	5.97	6.07	6.02
174	21EBKEC014	KARANPAL	8.86	9.1	8.98
175	21EBKEC016	LUCKY	6.91	8.23	7.57
176	21EBKEC017	MANSI	7.81	9.09	8.45
177	21EBKEC018	MEGHA MISHRA	5.85	5.52	5.69
178	21EBKEC019	NIKHIL SHEKHAWAT	3.02	0.76	1.89
179	21EBKEC020	PAYAL SHARMA	7.49	8.33	7.91
180	21EBKEC022	PRAVEEN	5.69	7.14	6.42
181	21EBKEC023	RAKESH	7.77	8.61	8.19

182	21EBKEC024	ROSHAN	3.86	4.09	3.98
183	21EBKEC025	SACHIN	4.73	3.35	4.04
184	21EBKEC026	SACHIN KUMAR SHARMA	5.48	6.17	5.83
185	21EBKEC027	SANITAL	8.58	9.72	9.15
186	21EBKEC028	SHIVKANT JANGBIR SHARMA	6.39	7.8	7.10
187	21EBKEC029	TARACHAND SHARMA	4.35	4.5	4.43
188	21EBKEC030	TEJAS SHARMA	6.83	6.3	6.57
189	21EBKEC031	VINEET MISHRA	7.6	7.3	7.45
190	21EBKEC032	YOGESH KANTIWAL	6.16	6.29	6.23
191	21EBKKEE001	AKHILESH	8.39	8.99	8.69
192	21EBKKEE002	ANISH	8.5	8.62	8.56
193	21EBKKEE003	ASHISH JANGIR	8.22	8.58	8.40
194	21EBKKEE004	CHINMAY JAIN	9.03	9.31	9.17
195	21EBKKEE005	DHEERAJ ISHERWAL	3.84	4.28	4.06
196	21EBKKEE006	HEMANT SHARMA	2.14	2.21	2.18
197	21EBKKEE007	HIMANSHU JANGIR	7.04	7.48	7.26
198	21EBKKEE008	NITIN SINGH	5.04	4.35	4.70
199	21EBKKEE009	PRADEEP KUMAR	7.36	5.94	6.65
200	21EBKKEE010	RAHUL	8.6	9.34	8.97
201	21EBKKEE011	SACHIN	8.98	9.05	9.02
202	21EBKKEE012	SAHIL KUMAR	7.98	7.8	7.89
203	21EBKME001	AMIT KUMAR	7.58	7.08	7.33
204	21EBKME002	BHERVESH DAIYA	8.55	7.89	8.22
205	21EBKME003	NAVEEN SONI	9.29	8.6	8.95
206	21EBKME004	NISHANT	6.41	6.41	6.41
207	21EBKME005	VISHAL SWAMI	7.43	7.43	7.43
208	21EBKIT001	AKHIL ROHIL	4	5.11	4.56
209	21EBKIT002	DANISH SHARMA	5.53	7.2	6.37
210	21EBKIT003	MADHAV NEGI	7.08	7.81	7.45
211	21EBKIT004	NITIN MARWAL	5.52	5.11	5.32
212	21EBKIT005	PRAKASH SAINI	5.28	5.69	5.49
213	21EBKIT006	TARUN JANGID	5.16	3.42	4.29
			6.391	6.5183	6.45

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S.No	Roll No	Name	I Sem Total	I Sem %	II Sem Total	II Sem %	Average
1	20EBKCS001	AAYUSH SHARMA	810	73.64	881	80.09	76.86
2	20EBKCS002	AAYUSHI BHATNAGAR	820	74.55	916	83.27	78.91
3	20EBKCS004	ADITYA AGARWAL	793	72.09	894	81.27	76.68
4	20EBKCS005	AJAY SWAMI	829	75.36	906	82.36	78.86
5	20EBKCS006	AMIT KUMAR	782	71.09	793	72.09	71.59
6	20EBKCS007	AMIT SINGH MOKAWAT	800	72.73	800	72.73	72.73
7	20EBKCS008	AMITTOJ SINGH	762	69.27	817	74.27	71.77
8	20EBKCS009	ANIRUDH	818	74.36	948	86.18	80.27
9	20EBKCS010	ANISH KUMAR SRIVASTAV	848	77.09	907	82.45	79.77
10	20EBKCS011	ANJALI SHARMA	796	72.36	923	83.91	78.14
11	20EBKCS012	ANJALI SWAMI	743	67.55	901	81.91	74.73
12	20EBKCS013	ANKIT	772	70.18	934	84.91	77.55
13	20EBKCS014	ANKIT	763	69.36	916	83.27	76.32
14	20EBKCS015	ANKIT NEHRA	862	78.36	951	86.45	82.41
15	20EBKCS016	ANKIT SAINI	826	75.09	803	73.00	74.05
16	20EBKCS017	ANKIT SINGHAL	741	67.36	910	82.73	75.05
17	20EBKCS018	ANKIT KUMAR CHOUDHARY	789	71.73	931	84.64	78.18
18	20EBKCS019	ANKUR THAKUR	839	76.27	858	78.00	77.14
19	20EBKCS020	ANSHU RAGHAV	817	74.27	865	78.64	76.45
20	20EBKCS021	ANURADHA	822	74.73	945	85.91	80.32
21	20EBKCS022	ARHAAN KHAN	786	71.45	942	85.64	78.55
22	20EBKCS023	ARJUN SHARMA	781	71.00	793	72.09	71.55
23	20EBKCS024	ARYAN TOMAR	829	75.36	902	82.00	78.68
24	20EBKCS025	ASHISH POONIA	697	63.36	923	83.91	73.64
25	20EBKCS026	AYUSH SHARMA	737	67.00	900	81.82	74.41
26	20EBKCS027	AYUSHI KAUSHIK	782	71.09	943	85.73	78.41
27	20EBKCS028	CHIRAG BHARDWAJ	855	77.73	935	85.00	81.36
28	20EBKCS029	CHIRAG SOLANKI	766	69.64	937	85.18	77.41
29	20EBKCS030	DAKSH SINHA	813	73.91	959	87.18	80.55
30	20EBKCS031	DAVESH KATARIA	827	75.18	794	72.18	73.68
31	20EBKCS032	DEEPAK PANWAR	856	77.82	964	87.64	82.73
32	20EBKCS033	DEEPAK VERMA	806	73.27	821	74.64	73.95
33	20EBKCS035	DHAVAL PRABHA	946	86.00	1004	91.27	88.64

34	20EBKCS036	DHEERAJ RUNTHALA	834	75.82	964	87.64	81.73
35	20EBKCS037	DINO SHARMA	784	71.27	931	84.64	77.95
36	20EBKCS038	DISHA YADAV	788	71.64	939	85.36	78.50
37	20EBKCS039	DIVYAM THAPLIYAL	848	77.09	952	86.55	81.82
38	20EBKCS040	GARVIT SINGH RATHORE	795	72.27	846	76.91	74.59
39	20EBKCS041	GAURAV MANDIWAL	759	69.00	909	82.64	75.82
40	20EBKCS042	GOURAV SINGH	777	70.64	900	81.82	76.23
41	20EBKCS043	GOVIND SHARMA	805	73.18	942	85.64	79.41
42	20EBKCS044	HARDIK KUMAR	806	73.27	837	76.09	74.68
43	20EBKCS045	HARSH SHARMA	787	71.55	860	78.18	74.86
44	20EBKCS046	HARSHIT KUMAR	752	68.36	913	83.00	75.68
45	20EBKCS047	HARSHITA PARASHAR	808	73.45	906	82.36	77.91
46	20EBKCS048	HARSHITA SHARMA	776	70.55	945	85.91	78.23
47	20EBKCS049	HITESH KUMAR	858	78.00	950	86.36	82.18
48	20EBKCS050	IRA GOYAL	839	76.27	931	84.64	80.45
49	20EBKCS051	ISHAAN SHARMA	869	79.00	905	82.27	80.64
50	20EBKCS052	JATIN	902	82.00	976	88.73	85.36
51	20EBKCS053	JATIN RATHORE	779	70.82	928	84.36	77.59
52	20EBKCS054	KARAN KUMAR	692	62.91	890	80.91	71.91
53	20EBKCS055	KARAN PAREEK	721	65.55	850	77.27	71.41
54	20EBKCS056	KAUSHAL JANGIR	758	68.91	834	75.82	72.36
55	20EBKCS057	KAUSHIKI MALIK	794	72.18	944	85.82	79.00
56	20EBKCS058	KRISHAN SAINI	814	74.00	794	72.18	73.09
57	20EBKCS059	LAKSHYA CHOUDHARY	727	66.09	889	80.82	73.45
58	20EBKCS060	LAMBA LAKSHYA RAJPAL	691	62.82	892	81.09	71.95
59	20EBKCS061	MANAS	841	76.45	832	75.64	76.05
60	20EBKCS062	MANAV JANGIR	817	74.27	806	73.27	73.77
61	20EBKCS063	MANISH KUMAR SAINI	759	69.00	913	83.00	76.00
62	20EBKCS064	MANISHA	804	73.09	911	82.82	77.95
63	20EBKCS065	MANJEET AGARWAL	789	71.73	945	85.91	78.82
64	20EBKCS066	MANMOHAN SINGH SHEKHAWAT	955	86.82	999	90.82	88.82
65	20EBKCS067	MANTHAN	706	64.18	886	80.55	72.36
66	20EBKCS068	MANVI	776	70.55	868	78.91	74.73
67	20EBKCS069	MAYANK JAISWAL	874	79.45	978	88.91	84.18

68	20EBKCS070	MAYANK SHARMA	792	72.00	834	75.82	73.91
69	20EBKCS071	MOHIT	717	65.18	863	78.45	71.82
70	20EBKCS072	MOHIT MAINI	744	67.64	893	81.18	74.41
71	20EBKCS073	MOHIT VERMA	784	71.27	753	68.45	69.86
72	20EBKCS074	NAIVEDHYA SINGH	801	72.82	837	76.09	74.45
73	20EBKCS075	NAMAN GUPTA	790	71.82	880	80.00	75.91
74	20EBKCS076	NAVARTNA JANGIR	735	66.82	823	74.82	70.82
75	20EBKCS077	NAVEEN	802	72.91	844	76.73	74.82
76	20EBKCS079	NISHA JANGIR	803	73.00	829	75.36	74.18
77	20EBKCS080	PIYUSH NIRWAN	715	65.00	900	81.82	73.41
78	20EBKCS081	POOJA	770	70.00	925	84.09	77.05
79	20EBKCS082	POOJA KUMARI	863	78.45	968	88.00	83.23
80	20EBKCS083	POOJA SAINI	774	70.36	928	84.36	77.36
81	20EBKCS084	POOJA SONI	750	68.18	874	79.45	73.82
82	20EBKCS085	POOJA KUMARI SHARMA	771	70.09	860	78.18	74.14
83	20EBKCS086	PRASANG AGRAWAL	781	71.00	922	83.82	77.41
84	20EBKCS087	PRASHANT	824	74.91	964	87.64	81.27
85	20EBKCS088	PRASHANT KAUSHIK	681	61.91	889	80.82	71.36
86	20EBKCS089	PRATHAM DIXIT	808	73.45	843	76.64	75.05
87	20EBKCS090	PREETI SAINI	786	71.45	913	83.00	77.23
88	20EBKCS091	PRIYANSHU PATHAK	829	75.36	866	78.73	77.05
89	20EBKCS092	PRIYANSHU SHARMA	832	75.64	822	74.73	75.18
90	20EBKCS093	PULKIT BUDANIA	872	79.27	834	75.82	77.55
91	20EBKCS094	PUNIT JANGIR	744	67.64	860	78.18	72.91
92	20EBKCS095	PUSHPENDRA KUMAR	774	70.36	886	80.55	75.45
93	20EBKCS096	RAJAT PUROHIT	793	72.09	863	78.45	75.27
94	20EBKCS097	RAJAT VAID	803	73.00	837	76.09	74.55
95	20EBKCS098	RAVIKANT VERMA	754	68.55	882	80.18	74.36
96	20EBKCS099	RISHABH TOMAR	840	76.36	919	83.55	79.95
97	20EBKCS100	RITIKA KUMAWAT	904	82.18	1001	91.00	86.59
98	20EBKCS101	RITU CHOUDHARY	786	71.45	928	84.36	77.91
99	20EBKCS102	ROBIN MAAN	813	73.91	831	75.55	74.73
100	20EBKCS103	ROHIT SHARMA	687	62.45	890	80.91	71.68
101	20EBKCS104	SAKSHAM RAWAT	799	72.64	885	80.45	76.55
102	20EBKCS105	SAMARTH GOYAL	845	76.82	938	85.27	81.05

103	20EBKCS106	SANKALP HARITASH	804	73.09	927	84.27	78.68
104	20EBKCS107	SANKALP JAIN	795	72.27	827	75.18	73.73
105	20EBKCS108	SANKALP RAWAT	730	66.36	846	76.91	71.64
106	20EBKCS109	SANKET KUMAR SINGH	778	70.73	865	78.64	74.68
107	20EBKCS110	SHALINI RATHORE	785	71.36	904	82.18	76.77
108	20EBKCS111	SHIVAM SINHA	718	65.27	865	78.64	71.95
109	20EBKCS112	SHRISTI AGARWAL	940	85.45	1014	92.18	88.82
110	20EBKCS113	SHRUTI AGARWAL	913	83.00	1002	91.09	87.05
111	20EBKCS114	SINGH BHUPANDER	864	78.55	978	88.91	83.73
112	20EBKCS115	SONALI GUPTA	857	77.91	864	78.55	78.23
113	20EBKCS116	SUDHANSHU SAINI	585	53.18	749	68.09	60.64
114	20EBKCS117	SUNIL JANGID	722	65.64	877	79.73	72.68
115	20EBKCS118	SUNIL KUMAR	807	73.36	873	79.36	76.36
116	20EBKCS119	SURAJ AGARWAL	813	73.91	886	80.55	77.23
117	20EBKCS120	SUSHANT NAGIL	776	70.55	861	78.27	74.41
118	20EBKCS121	UMESH KUMAR	771	70.09	940	85.45	77.77
119	20EBKCS122	UPASNA SHARMA	827	75.18	891	81.00	78.09
120	20EBKCS123	UTKARSH	857	77.91	951	86.45	82.18
121	20EBKCS125	VIKRAM KUMAR	781	71.00	926	84.18	77.59
122	20EBKCS126	VINAY PRATAP SINGH RATHORE	903	82.09	982	89.27	85.68
123	20EBKCS127	VISHAL JHA	832	75.64	942	85.64	80.64
124	20EBKCS128	VISHAL SHARMA	648	58.91	866	78.73	68.82
125	20EBKCS129	VRITIKA	811	73.73	884	80.36	77.05
126	20EBKCS130	YOGESH JANGIR	725	65.91	905	82.27	74.09
127	20EBKAI001	ABHINANDAN YADAV	643	58.45	846	76.91	67.68
128	20EBKAI002	ADITYA BHATNAGAR	619	56.27	855	77.73	67.00
129	20EBKAI003	ANIRUDH SHARMA	717	65.18	929	84.45	74.82
130	20EBKAI004	ASHISH KUMAWAT	800	72.73	901	81.91	77.32
131	20EBKAI006	BHARAT SAINI	515	46.82	780	70.91	58.86
132	20EBKAI007	CHETAN SUREKA	708	64.36	888	80.73	72.55
133	20EBKAI009	DEVESH KUMAR RACHAITA	594	54.00	844	76.73	65.36
134	20EBKAI010	GUNNIDHI SAINI	551	50.09	829	75.36	62.73
135	20EBKAI011	ISHAN AGARWAL	730	66.36	906	82.36	74.36
136	20EBKAI012	JITENDRA DUDI	811	73.73	942	85.64	79.68

137	20EBKAI013	MUKUL SAINI	661	60.09	879	79.91	70.00
138	20EBKAI014	NAVEEN	500	45.45	810	73.64	59.55
139	20EBKAI016	OJAS SHARMA	806	73.27	975	88.64	80.95
140	20EBKAI017	PARVESH	635	57.73	866	78.73	68.23
141	20EBKAI018	RAGHAV SAXENA	673	61.18	862	78.36	69.77
142	20EBKAI019	RENU	634	57.64	862	78.36	68.00
143	20EBKAI020	SACHIN DHAYAL	791	71.91	937	85.18	78.55
144	20EBKAI022	SHAGUN KALER	769	69.91	951	86.45	78.18
145	20EBKAI023	SHUBHAM	570	51.82	857	77.91	64.86
146	20EBKAI024	SHUBHAM CHOUDHARY	581	52.82	851	77.36	65.09
147	20EBKAI025	TARUN VERMA	749	68.09	937	85.18	76.64
148	20EBKAI026	VIKRAM	530	48.18	657	59.73	53.95
149	20EBKAI027	VIVEK PRATAP SINGH	687	62.45	849	77.18	69.82
150	20EBKEC001	AARTEE	799	72.64	885	80.454545	76.55
151	20EBKEC002	ABHILEKH DHANKHAR	772	70.18182	787	71.545455	70.86
152	20EBKEC003	AMIT SAINI	728	66.18182	897	81.545455	73.86
153	20EBKEC004	ANKIT KUMAR	792	72	905	82.272727	77.14
154	20EBKEC005	ANURAG JANGIR	780	70.90909	787	71.545455	71.23
155	20EBKEC006	ARVIND JANGIR	709	64.45455	911	82.818182	73.64
156	20EBKEC007	BHARAT DHAYAL	789	71.72727	928	84.363636	78.05
157	20EBKEC008	DEEPANSHU	814	74	821	74.636364	74.32
158	20EBKEC009	DEVIKA NAYAK	803	73	942	85.636364	79.32
159	20EBKEC010	DINESH SAINI	786	71.45455	859	78.090909	74.77
160	20EBKEC011	HARSH PRIYA MISHRA	802	72.90909	819	74.454545	73.68
161	20EBKEC012	HARSHIT RAI	823	74.81818	958	87.090909	80.95
162	20EBKEC013	KULDEEP SAINI	777	70.63636	925	84.090909	77.36
163	20EBKEC014	MADHUR SIHDHAR	729	66.27273	794	72.181818	69.23
164	20EBKEC015	MANOJ POONIA	790	71.81818	852	77.454545	74.64
165	20EBKEC016	MD HABIBUL RAHMAN	651	59.18182	883	80.272727	69.73
166	20EBKEC017	MITALI SOMRA	833	75.72727	973	88.454545	82.09
167	20EBKEC018	NEERAJ SINGH	777	70.63636	789	71.727273	71.18
168	20EBKEC019	NEHA VERMA	820	74.54545	968	88	81.27
169	20EBKEC020	NIHARIKA	818	74.36364	976	88.727273	81.55

170	20EBKEC021	POOJA	771	70.09091	919	83.545455	76.82
171	20EBKEC023	RAJAT SHARMA	742	67.45455	854	77.636364	72.55
172	20EBKEC024	RITU KUMARI	764	69.45455	813	73.909091	71.68
173	20EBKEC025	SACHIN	649	59	857	77.909091	68.45
174	20EBKEC026	SACHIN SINGH SHEKHAWAT	710	64.54545	895	81.363636	72.95
175	20EBKEC027	SANJAY SAINI	803	73	961	87.363636	80.18
176	20EBKEC028	SUBHAM SAINI	738	67.09091	928	84.363636	75.73
177	20EBKEC029	VISHAL	776	70.54545	805	73.181818	71.86
178	20EBKEE001	ABHISHEK DANGI	763	69.36364	925	84.090909	76.73
179	20EBKEE002	ALKESH KUMAR	803	73	838	76.181818	74.59
180	20EBKEE003	AMIT	805	73.18182	926	84.181818	78.68
181	20EBKEE004	BHAVYA KAUSHIK	588	53.45455	829	75.363636	64.41
182	20EBKEE006	DHEERAJ SHARMA	686	62.36364	870	79.090909	70.73
183	20EBKEE007	DIYA JANGIR	879	79.90909	972	88.363636	84.14
184	20EBKEE008	HEMANT SINGH	570	51.81818	804	73.090909	62.45
185	20EBKEE009	KOMAL JANGIR	805	73.18182	946	86	79.59
186	20EBKEE011	PINKU KUMARI	888	80.72727	1004	91.272727	86.00
187	20EBKEE012	PRAVESH	723	65.72727	898	81.636364	73.68
188	20EBKEE013	ROBIN JANGIR	760	69.09091	761	69.181818	69.14
189	20EBKEE014	SALONI KASHYAP	843	76.63636	870	79.090909	77.86
190	20EBKME001	ABHAY PRATAP SINGH	631	57.36364	813	73.909091	65.64
191	20EBKME002	ABHISHEK SAINI	772	70.18182	883	80.272727	75.23
192	20EBKME003	AMIT CHOUDHARY	658	59.81818	857	77.909091	68.86
193	20EBKME004	AMIT POONIA	812	73.81818	865	78.636364	76.23
194	20EBKME005	NAVEEN SAINI	784	71.27273	887	80.636364	75.95
195	20EBKME006	NISHANT KHEDAR	768	69.81818	921	83.727273	76.77
196	20EBKME008	RAKSHIT SINGH	798	72.54545	844	76.727273	74.64
197	20EBKME010	UDAY SINGH	716	65.09091	893	81.181818	73.14
198	20EBKIT001	ARYA KUMAR	812	73.81818	902	82	77.91
199	20EBKIT002	DEEPAK KUMAR	785	71.36364	899	81.727273	76.55
200	20EBKIT004	KAMAL CHOUDHARY	755	68.63636	831	75.545455	72.09
201	20EBKIT005	KARAN SAIN	794	72.18182	846	76.909091	74.55
202	20EBKIT006	KHUSHI	746	67.81818	913	83	75.41

203	20EBKIT007	PANKAJ MEENA	791	71.90909	836	76	73.95
204	20EBKIT009	TARUN WALIA	770	70	820	74.545455	72.27
							75.46
							7.50

SESSION-2019-20 FIRST YEAR					
S.No	Roll No	Name	I Sem Total	II Sem Total	Average
1	19EBKCS001	AAKASH NIRWAN	6.8	8.56	7.68
2	19EBKCS002	AAKASH PAYAL	7.63	8.22	7.93
3	19EBKCS003	ABHAY SHARMA	7.59	9.02	8.31
4	19EBKCS004	ABHINAV	7.17	9.32	8.25
5	19EBKCS005	ABHINAV KULDEEP BHANKHARIA	7.12	8.54	7.83
6	19EBKCS006	ABHISHEK PANDEY	6.46	8.83	7.65
7	19EBKCS007	ABHISHEK RAJGARIA	7.24	9.02	8.13
8	19EBKCS008	ABHISHEK SHARMA	6.15	7.88	7.02
9	19EBKCS009	ABHISHEK VASHISHT	7.07	7.46	7.27
10	19EBKCS010	ADARSH SHARMA	7.12	8.76	7.94
11	19EBKCS011	ADITYA PRATAP SINGH	6.85	8.73	7.79
12	19EBKCS012	ADITYA SHARMA	6.44	8.1	7.27
13	19EBKCS013	AJAY GODARA	5.61	5.61	5.61
14	19EBKCS014	AMAN SONI	7	9.32	8.16
15	19EBKCS015	ANAMIKA SONI	6.27	8.93	7.60
16	19EBKCS016	ANEESHA SHEKHAWAT	7.95	9.27	8.61
17	19EBKCS017	ANIKET GUPTA	6.76	9.32	8.04
18	19EBKCS018	ANIKET KUMAR SINHA	7.05	9.02	8.04
19	19EBKCS019	ANKIT KATARIA	8.17	9.12	8.65
20	19EBKCS020	ANKIT KUMARI	7.98	9.32	8.65
21	19EBKCS021	ANSHIKA GUPTA	8.15	9.51	8.83
22	19EBKCS022	ANUKET KUMAR	7.66	9.32	8.49
23	19EBKCS023	ARYAN BHARGAW	6.32	9.05	7.69
24	19EBKCS025	ASHISH PANWAR	6.78	7.02	6.90
25	19EBKCS026	ATUL GARG	7.78	9.15	8.47
26	19EBKCS027	AVNEESH SINGH	8.63	9.58	9.11
27	19EBKCS028	AYUSH AGARWAL	6.9	9.27	8.09
28	19EBKCS029	BANGARWA PRIYANKA KRISHAN	7.49	9.15	8.32

29	19EBKCS030	BHAWANI PAREEK	8.93	9.9	9.42
30	19EBKCS031	BILASH THAKUR	7.15	8.15	7.65
31	19EBKCS032	CHITRA SHARMA	6.83	9.32	8.08
32	19EBKCS033	DARSHAN PAWAR	7.54	8.1	7.82
33	19EBKCS034	DEEPAK CHOUDHARY	6.29	6.29	6.29
34	19EBKCS035	DEEVANSHU	7.68	6.93	7.31
35	19EBKCS036	DHRUV SHARMA	7.27	7.27	7.27
36	19EBKCS037	DIVYANSHU KUMAR PANDEY	6.37	8.68	7.53
37	19EBKCS038	DURGA SHEKHAWAT	7.76	8.39	8.08
38	19EBKCS039	FARDEEN	5.76	7.07	6.42
39	19EBKCS040	FARHAN	7.46	7.46	7.46
40	19EBKCS041	GAURAV KUMAR JANGIR	5.9	7.93	6.92
41	19EBKCS042	GAURAV SINGH	5.7	6.1	5.90
42	19EBKCS043	GOVIND SAINI	7.37	6.78	7.08
43	19EBKCS044	HARSH CHOUDHARY	7.71	9.32	8.52
44	19EBKCS045	HARSH GARG	7.9	9.32	8.61
45	19EBKCS046	HARSH SHEKHAWAT	7.15	8.46	7.81
46	19EBKCS047	HIMANSHU SHARMA	6.46	7.17	6.82
47	19EBKCS048	HITESH KUMAR	7.07	9.12	8.10
48	19EBKCS049	IMRAN	7.56	8.98	8.27
49	19EBKCS050	JAYA MOKAWAT	8.05	9.32	8.69
50	19EBKCS051	JAYSHREE DADHEECH	6.85	9.32	8.09
51	19EBKCS052	K A SUBRAMANIAN	7.83	8.76	8.30
52	19EBKCS053	KADDAFEE KHOKAR	7.61	9.27	8.44
53	19EBKCS054	KALYAN KRISHNA REDDY M	8.12	8.59	8.36
54	19EBKCS055	KARISHMA VERMA	7.46	9.32	8.39
55	19EBKCS056	KHUSHI TULSIYAN	7.46	9.27	8.37
56	19EBKCS057	KOMAL SHARMA	7.95	9.32	8.64
57	19EBKCS058	KRITIKA DEVLI	6.98	8.98	7.98
58	19EBKCS059	KULDEEP SAINI	7.51	8.98	8.25
59	19EBKCS060	KUSHAGRA MISRA	8.15	9.32	8.74
60	19EBKCS061	MAHIPAL SINGH RAWAT	6.39	7.02	6.71
61	19EBKCS062	MANIKANT BHATT	7.27	8.29	7.78
62	19EBKCS063	MD AKIF IQUBAL	7.41	8.15	7.78
63	19EBKCS064	MEHAK SRIVASTAVA	8.1	8.56	8.33
64	19EBKCS065	MEHANT KUMAR	7.66	8.54	8.10

65	19EBKCS066	MOHAMMED SAMEER	7.8	9.32	8.56
66	19EBKCS067	MOHD HARUN ALI	5.7	7.32	6.51
67	19EBKCS068	MOKSHA SHARMA	7.15	9.22	8.19
68	19EBKCS069	MUKUL BHOMIA	7.85	8.73	8.29
69	19EBKCS070	MUKUL JANGID	5.7	8.34	7.02
70	19EBKCS072	NIDHI MITTAL	9.12	10	9.56
71	19EBKCS073	NIPUN VERMA	5.59	6.85	6.22
72	19EBKCS075	NISHANT REDU	6.76	8.1	7.43
73	19EBKCS076	PALAK GUPTA	8.15	9.32	8.74
74	19EBKCS077	PANKAJ KUMAR	6.98	8.76	7.87
75	19EBKCS078	PAWAN VERMA	8	9.27	8.64
76	19EBKCS079	PAYAL GOPALKA	7.51	9.07	8.29
77	19EBKCS080	PINKAM SAINI	6.83	9.05	7.94
78	19EBKCS081	PINKI KUMARI	8.56	9.46	9.01
79	19EBKCS082	PIYUSH LATTA	6.44	7.95	7.20
80	19EBKCS083	PRADEEP KUMAR SAINI	6.54	9.02	7.78
81	19EBKCS084	PRAVEEN JHA	7.46	8.88	8.17
82	19EBKCS085	PRAVEEN KUMAR JANU	7.15	9.02	8.09
83	19EBKCS086	PREETI	7.66	8.73	8.20
84	19EBKCS087	PRIYANSH JAIN	5.7	8.73	7.22
85	19EBKCS088	PRIYANSHU SHARMA	7.32	8.95	8.14
86	19EBKCS089	PULKIT SAINI	7	8.71	7.86
87	19EBKCS090	PULKIT SONI	5.7	8.66	7.18
88	19EBKCS091	RAHUL SAINI	7.51	9.2	8.36
89	19EBKCS092	RAHUL SINGH GOPALKA	6.34	8.61	7.48
90	19EBKCS093	RAMAKRISHNA CHHIPA	6.44	8.78	7.61
91	19EBKCS094	RAVI	6.71	8.73	7.72
92	19EBKCS095	RITIK VERMA	7.61	8.66	8.14
93	19EBKCS096	ROHIT SAINI	8.24	9.15	8.70
94	19EBKCS098	SACHIN KUMAWAT	8.78	9.37	9.08
95	19EBKCS099	SAGAR RANA	8.2	8.76	8.48
96	19EBKCS100	SAHIL SAIN	7.85	8.61	8.23
97	19EBKCS101	SHEKHAR AGGARWAL	6.98	9.22	8.10
98	19EBKCS102	SHIVAM	7.27	8.54	7.91
99	19EBKCS103	SHUBHAM GUPTA	8.85	9.56	9.21
100	19EBKCS104	SHUBHAM SHARMA	8.51	9.07	8.79
101	19EBKCS105	SHUBHAM SINGH	8	9.15	8.58

102	19EBKCS106	SHUBHANSHU KUMAR SINGH	7.66	8.8	8.23
103	19EBKCS107	SIDDHANT PRATAP SINGH	6.17	8.34	7.26
104	19EBKCS108	SIDDHARTH SHARMA	7	8	7.50
105	19EBKCS109	SUMIT SAURABH JANGIR	7.39	8.73	8.06
106	19EBKCS110	TANMAY MOLASARIA	7.29	8.59	7.94
107	19EBKCS111	TEJPAL SINGH	6.37	6.78	6.58
108	19EBKCS112	TILAK SANGWAN	6.34	8.15	7.25
109	19EBKCS113	UTTAM SONI	7.39	8.78	8.09
110	19EBKCS114	V PRANAV KOTESH	7.88	9.22	8.55
111	19EBKCS115	VARSHIT JAIN	8.37	9.39	8.88
112	19EBKCS116	VARTIKA PUROHIT	6.8	8.24	7.52
113	19EBKCS117	VARUN BHUTADA	8.59	9.22	8.91
114	19EBKCS118	VIBHUTI SHUKLA	8.1	9.27	8.69
115	19EBKCS119	VIKAS KUMAR SAIN	8.85	9.76	9.31
116	19EBKCS120	VIKAS YADAV	8.49	8.49	8.49
117	19EBKCS121	VINAY SHARMA	7.46	8.93	8.20
118	19EBKCS122	VIRENDRA SINGH SHEKHAWAT	7.2	7.8	7.50
119	19EBKCS123	VISHNU PILLAI	7.63	9.02	8.33
120	19EBKCS124	VIVEK LOHIYA	9.24	9.9	9.57
121	19EBKCS097	YASHASWINI S M	8.15	9.32	8.74
122	19EBKEC001	AISHWARYA PAREEK	7.66	8.83	8.25
123	19EBKEC002	ANMOL SINGH	7.17	8.59	7.88
124	19EBKEC004	ASHISH KUMAR JHA	8.54	9.41	8.98
125	19EBKEC005	BHUPESH KULHARI	6.9	8.24	7.57
126	19EBKEC006	CHANDAN KUMAR	5.98	6.78	6.38
127	19EBKEC007	DIVESH SAINI	8.54	9.24	8.89
128	19EBKEC009	JAYA	9.22	9.71	9.47
129	19EBKEC010	KOMAL RUNGTA	9.71	10	9.86
130	19EBKEC011	KOMAL SHARMA	8.98	9.59	9.29
131	19EBKEC012	KRISHAN SINGH	8.17	7.76	7.97
132	19EBKEC013	KULDEEP SINGH	5.7	7.02	6.36
133	19EBKEC014	LUCKY SAINI	8.59	9.98	9.29
134	19EBKEC015	MANASH KHETAN	7.07	7.9	7.49
135	19EBKEC016	MOLISHKA	7.02	9.22	8.12
136	19EBKEC017	MUKESH TAK	7.39	8.93	8.16
137	19EBKEC018	NAMAN KUMAR JAIN	7.41	8.46	7.94

138	19EBKEC019	PAWAN SAINI	7.83	8.1	7.97
139	19EBKEC020	POOJA SHARMA	8.54	9.73	9.14
140	19EBKEC021	PRASHANT SHARMA	8.34	9.32	8.83
141	19EBKEC022	PRATHAM SINGH SOLANKI	6.37	8.61	7.49
142	19EBKEC023	PRIETY PAYAL	9.41	10	9.71
143	19EBKEC024	PRITAM	7.12	8.32	7.72
144	19EBKEC025	RAHUL SHARMA	7.68	8.9	8.29
145	19EBKEC028	ROHIT SHARMA	5.7	5.73	5.72
146	19EBKEC029	RONAK JAIN	6.24	7.85	7.05
147	19EBKEC030	SANDEEP SHAH	7.46	8.68	8.07
148	19EBKEC031	SANJEET KUMAR	6.73	8.44	7.59
149	19EBKEC032	SHREYANSH MISHRA	7.56	8.1	7.83
150	19EBKEC033	SHUBHAM SAMPATKUMAR MATOLIYA	8.12	9.02	8.57
151	19EBKEC035	SOBHIT KUMAR	5.7	8.49	7.10
152	19EBKEC036	SUMAN	7.85	9.22	8.54
153	19EBKEC037	TANMAY SHARMA	7.76	8.54	8.15
154	19EBKEC038	TAPENDRA YADAV	6.59	8.34	7.47
155	19EBKEC039	TARUN DEV KARAN	7.51	7.41	7.46
156	19EBKEC040	UDAY SINGH	7.49	7.44	7.47
157	19EBKEC041	VISHWAS VIRENDAR JAIN	8.39	8	8.20
158	19EBKKEE001	AJAY KUMAR	5.76	5.76	5.76
159	19EBKKEE002	AKASH SINGH	6.22	6.22	6.22
160	19EBKKEE003	ASHUTOSH SHARMA	7.95	7.95	7.95
161	19EBKKEE004	AVAN	6.76	6.76	6.76
162	19EBKKEE005	DEEPAK KUMAR	0	0.00	0.00
163	19EBKKEE006	GAURAV KUMAR	7.85	7.85	7.85
164	19EBKKEE007	GOVIND SAIN	7.78	7.78	7.78
165	19EBKKEE008	JATIN SWAMI	7.88	7.88	7.88
166	19EBKKEE009	KARTIK BARETH	0	0.00	0.00
167	19EBKKEE010	KUNAL	7.29	7.29	7.29
168	19EBKKEE011	MAHESH SINGH	7.24	7.24	7.24
169	19EBKKEE012	MANJEET KUMAR	6.1	6.10	6.10
170	19EBKKEE013	MUKESH KUMAR	7.37	7.37	7.37
171	19EBKKEE014	MUKUL RATHORE	8.15	8.15	8.15
172	19EBKKEE016	NILESH KUMAR	6.93	6.93	6.93
173	19EBKKEE017	PRINCE KUMAR	8.15	8.15	8.15

174	19EBKKEE018	RAHUL SINGH	6.83	6.83	6.83
175	19EBKKEE021	SHISHRAM VERMA	8.12	8.12	8.12
176	19EBKKEE022	SHIV KUMAR	6.95	6.95	6.95
177	19EBKKEE023	SHUBHANG	7.76	7.76	7.76
178	19EBKKEE024	VINAY MEENA	6	6.00	6.00
179	19EBKKEE025	VINOD KUMAR	6.2	6.20	6.20
180	19EBKKEE026	VISHAL SINGH NIRWAN	5.98	5.98	5.98
181	19EBKIT001	AAYUSH SHARMA	8.05	9.17	8.61
182	19EBKIT002	ABHAY SHARMA	7.29	7.71	7.50
183	19EBKIT003	AISHWEARYA KUMAR SINGH	7.73	9.32	8.53
184	19EBKIT004	ANIRUDH CHOUDHARY	7.1	7.32	7.21
185	19EBKIT005	ANKIT LOHIA	8.32	8.22	8.27
186	19EBKIT006	ANUJ JANGIR	8.46	9.32	8.89
187	19EBKIT007	ANUP SINGH	8.29	8.56	8.43
188	19EBKIT008	BHAVESH YADAV	6.71	8.29	7.50
189	19EBKIT009	DEEPAK KUMAR MAURYA	7.49	7.76	7.63
190	19EBKIT010	DEEPENDRA SINGH	6.56	7.61	7.09
191	19EBKIT011	DIVAKAR SHARMA	8.02	8.8	8.41
192	19EBKIT012	DIVYANSHI PANDEY	0	7.8	3.90
193	19EBKIT013	HARSH	6.22	8.49	7.36
194	19EBKIT014	HARSH RAJ SHARMA	8.88	9.32	9.10
195	19EBKIT015	JOHN FELTON NAIKAL	5.63	7.2	6.42
196	19EBKIT017	MADHUSUDAN SHARMA	7	8.32	7.66
197	19EBKIT018	MANJEET SINGH SHEORAN	6.61	7.32	6.97
198	19EBKIT019	MONIKA VALECHA	9.51	10	9.76
199	19EBKIT020	NISHAR KHAN	7.2	9.27	8.24
200	19EBKIT022	PALAK SHARMA	8.54	9.32	8.93
201	19EBKIT024	RAHUL GEHLOT	7.05	9.15	8.10
202	19EBKIT025	RAHUL SHARMA	6.59	7.49	7.04
203	19EBKIT027	ROHIT YADAV	8.61	9.2	8.91
204	19EBKIT028	RUPIN KUMAR	7.59	8.39	7.99
205	19EBKIT030	SANDEEP POONIA	6.73	8.17	7.45
206	19EBKIT031	SHIVAM	7.07	8	7.54
207	19EBKIT032	SUJAL GUPTA	6.27	7.27	6.77
208	19EBKIT034	SUMIT JANGIR	7.34	8.02	7.68
209	19EBKIT035	TANMAY KUMAR	7.51	8.2	7.86

210	19EBKIT036	VINAY SHARMA	7.8	9.22	8.51
211	19EBKIT037	VINEET SANGWAN	6.95	7.59	7.27
212	19EBKIT038	VINEK SAINI	7.98	9.15	8.57
213	19EBKME001	ABHISHEK JANGID	7.05	8.32	7.69
214	19EBKME002	ANKUR JANGIR	8.29	8.83	8.56
215	19EBKME003	ASHISH SHARMA	7.22	8.05	7.64
216	19EBKME004	ASHWIN SOMAN	7.78	9.05	8.42
217	19EBKME006	HARSH CHOUDHARY	7.61	7.88	7.75
218	19EBKME007	KRISHAN KUMAR	7.17	8.9	8.04
219	19EBKME008	KRISHNA GUPTA	6.8	9.27	8.04
220	19EBKME009	MAN MOHAN BHUDANIA	7.59	7.88	7.74
221	19EBKME010	MANISH	5.7	5.71	5.71
222	19EBKME011	MANISH KHOKHAR	8.63	9.71	9.17
223	19EBKME012	NIKHIL SINGH	6.83	8.05	7.44
224	19EBKME013	NITIN GUPTA	6.66	8.9	7.78
225	19EBKME014	NITIN PILANIYA	5.7	5.83	5.77
226	19EBKME016	PIYUSH KAUSHIK	7.05	9.12	8.09
227	19EBKME017	PRAMOD BHARTI	8.1	8.15	8.13
228	19EBKME018	RAHUL GODARA	7.12	9.1	8.11
229	19EBKME019	RAHUL SINGH	5.7	5.71	5.71
230	19EBKME020	ROHAN	7.83	8.95	8.39
231	19EBKME021	SAMEER	6.95	6.1	6.53
232	19EBKME022	VINIT MISHRA	6.32	6.88	6.60
233	19EBKME023	YASHWANT SINGH	8.07	8.2	8.14
					7.79

8	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
8.4.	Attainment of Course Outcomes of first year courses		
8.4.1.	Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is based	Course and Survey not appropriate for indirect CO assessment. It was not considered while doing assessment.	Following is the process adopted for course survey
8.4.2.	Record the attainment of Course Outcomes of all first year courses		

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 cover 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 is 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 is 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 are sent back to faculty for revision.

Sample of Question Paper and CO mapping:

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

First Sessional Exam, 2018

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

Time: 2Hrs 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 ₃ 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 ₃) ₂ = 73mg/l, CaCl ₂ = 222mg/l, MgSO ₄ = 120mg/l, Mg (NO ₃) ₂ = 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	A sample 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	CO2

	Dulong's formula.	
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

8	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
8.5	Attainment of Program Outcomes of all first year courses		
8.5.1.	Indicate results of evaluation of each relevant PO/PSO	Attainment achieved is on lower side in spite of low target. Action seen to have been taken	To achieve attainment on upper side institute organized various seminars, webinars, expert lectures, industrial visits, cultural and ethical programs, etc.
8.5.2.	Actions taken based on the results of evaluation of relevant POs /PSOs		

Criteria 9

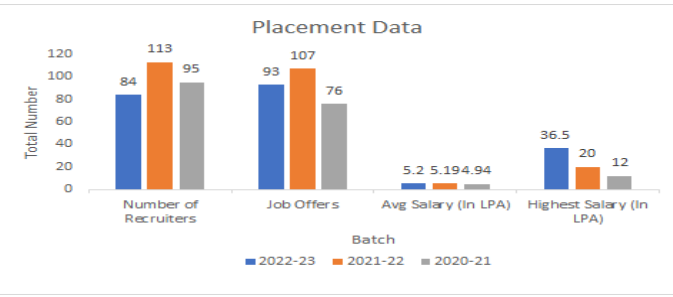
9	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
9.1	Mentoring system to help at individual level	Mentoring system up to the mark.	Continuing the same process.

9	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
9.2	Feedback analysis and reward /corrective measures taken, if any	First year feedback process up to mark.	Continuing with the same process of feedback analysis and reward/ corrective measures.

9	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
9.3	Feedback on facilities	Satisfactory	Updated list of facilities: <ol style="list-style-type: none"> 1. Institute has increased the facilities at BKBIET campus. These are enlisted below: 2. Central Library 3. Wi-Fi and Internet in Campus 4. Medical Centre in Campus 5. Student Mess and canteen 6. RO Water Supply 7. Water Geyser at hostels 8. Campus Maintenance 9. Girls & Boys Hostels 10. Guest House 11. Power Back Up 12. Group Insurance for student and Staff 13. Reprographic Section 14. Extra Circular Activity Centre (Music & Dance Rooms, Creativity Room) 15. Indoor Outdoor Sports Complex 16. Gymnasium 17. BPTRC, BIC and E-Cell 18. BIRD 19. CCTV covering the entire campus 20. Facility to attain Green Campus <ol style="list-style-type: none"> a. Water Harvesting (Total of 5 points are available at institute) b. Fresh Vegetables Garden for Hostel Mess (Area of 2 Acre) c. Green House d. Bicycle stand for Day scholar Student 21. ATM (SBI) 22. An Amphitheatre with sitting capacity of 1500

9	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
9.4	Self-Learning	Self-learning facilities for first year students upto mark.	Continuing the same process.

9	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)

9.5	Career Guidance, Training, Placement	Placement cell activities up to mark as admired by recruiters who come for campus placement.	<p>Institute has further increase activities for student placements. Institute is delighted to highlight the array of robust placement activities and career development initiatives that have been meticulously designed to empower and guide our students towards a successful and fulfilling career path.</p> <ul style="list-style-type: none"> • Availability of Career Guidance Facility: Institute has a fully functional & structured career guidance program. A dully formed committee is responsible for the work of career guidance facility. From I year onwards institute offers logical reasoning, aptitude test, personality development session, communication skills and Mock sessions. • Counseling for Higher Studies: Every year institute conduct counselling sessions for Higher education under the supervision of Career Guidance facility. 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 program dropouts. • Pre-Placement Support: Institute offers extensive preparatory support to students, equipping them with the necessary skills and confidence for the recruitment process through workshops, mock interviews, and resume-building sessions. • On-Campus and Off-Campus/ Pool Campus Placement Drives: Institute regularly organize on-campus and off-campus placement drives, collaborating with esteemed organizations to provide diverse opportunities for students. Year wise data is given below: <table border="1" data-bbox="753 1150 1421 1360"> <thead> <tr> <th>S. No</th> <th>Batch</th> <th>No of Recruiters</th> <th>Job Offers</th> <th>Avg Salary (In LPA)</th> <th>Highest Salary (In LPA)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2022-23</td> <td>84</td> <td>93</td> <td>5.2</td> <td>36.5</td> </tr> <tr> <td>2</td> <td>2021-22</td> <td>113</td> <td>107</td> <td>5.19</td> <td>20</td> </tr> <tr> <td>3</td> <td>2020-21</td> <td>95</td> <td>76</td> <td>4.94</td> <td>12</td> </tr> </tbody> </table>  <p>The bar chart displays the following data points:</p> <table border="1"> <thead> <tr> <th>Batch</th> <th>Number of Recruiters</th> <th>Job Offers</th> <th>Avg Salary (In LPA)</th> <th>Highest Salary (In LPA)</th> </tr> </thead> <tbody> <tr> <td>2022-23</td> <td>84</td> <td>93</td> <td>5.2</td> <td>36.5</td> </tr> <tr> <td>2021-22</td> <td>113</td> <td>107</td> <td>5.19</td> <td>20</td> </tr> <tr> <td>2020-21</td> <td>95</td> <td>76</td> <td>4.94</td> <td>12</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • Exclusive Webinars and Talks: Placement cell hosted insightful webinars featuring prominent industry leaders, such as Lowe's Companies, Inc., talk by Mr. Amit Kataria, CHRO of Hanu Software, shedding light on career 	S. No	Batch	No of Recruiters	Job Offers	Avg Salary (In LPA)	Highest Salary (In LPA)	1	2022-23	84	93	5.2	36.5	2	2021-22	113	107	5.19	20	3	2020-21	95	76	4.94	12	Batch	Number of Recruiters	Job Offers	Avg Salary (In LPA)	Highest Salary (In LPA)	2022-23	84	93	5.2	36.5	2021-22	113	107	5.19	20	2020-21	95	76	4.94	12
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			<p>prospects and technological advancements in Azure and online Soft Skill Program by IIT BHU.</p> <ul style="list-style-type: none"> • Internship Opportunities and Activities: Placement cell provide diverse internship opportunities, enabling students to gain practical experience and hands-on exposure in their respective fields of interest. • Agencies for Skill Tests and Job Opportunities: Institute collaborate with agencies to provide skill tests and job opportunities, connecting students with suitable career openings. • GATE/Technical Training Sessions and FastTrack Preparatory Courses: Institute organize specialized training sessions to prepare students for competitive exams like GATE and offer FastTrack courses tailored for exams like TCS NQT. • Industrial Visits: Institute offer industrial visits to students, an experience of real-world applications, bridging the gap between theoretical knowledge and practical industry operations. <p>Institute is committed to fostering a nurturing environment that supports students in their academic and professional growth and continue to strive towards providing comprehensive placement support and opportunities that align with the evolving demands of the job market. The details are mentioned in the SAR.</p>
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9	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
9.6	Entrepreneurship Cell	Entrepreneurship activities show less impact.	To provide further details and comply with this assertion, a detailed breakdown of these activities is provided chronologically, year by year.

Year: 2022 – 2023

Sl. No	Year/date	Event/ Challenge/ Ventures Name	Invitees/speaker/qualified level	No. of Participants
1	28-07-2022	IIC Regional Meet	Amity University Jaipur	2 (Mr. Gauttam Jangid, Dr. H. Rahaman)
2	10.09-2022	Ideate Create Workshop	Mr. Shridhar Neelam, lead ideate create of PIEDS program, Mr. Harish Mulchandani, Manager PIEDS and Mr. Vaibhav Gandotra, student team of PIEDS	60
3	11-01-2023	Orientation Program	Praveen Saini, Nisha Sangwan	120

4	21-01-2023	IoT workshop "IOTCON" in collaboration with IIT Madaras	Prakhar Maheshwari	100
5	30-01-2023	LinkedIn Workshop	Praveen Saini, Manjeet Agarwal	70
6	09-03-2023	VLSI circuits Seminar	ETB.Samuel Jigme Harrison	60
7	04-03-2023	How to Startup	Bhupesh Mittal	53
8	21-04-2023	Movie Weekend	---	40
9	22-04-2023	Startup Talk With Shark Tank Featured Startup	Puneet	50
10	22-06-2023	Webinar Unleashing Your Creative Potential	Mehul Patel Aka Mr. Paan Wala	30
11	07-06-2023	An Overview of Startup Culture	Parth Sarthi	46
12	12-07-2023	Entrepreneurship Unveiled Stories of Inspiration and Triumph	Mr. Himanshu Agarwal and Mr. Satish Kushwaha	120
13	11-08-23	One day Seminar on NEP celebration	Praveen Saini, Sachin, Nisha Sangwan, Sneha Singh	60
14	04-09-23	Chandrayan Mahotsav	Praveen Saini, Sachin, Nisha Sangwan, Sneha Singh	120
15	12-09-23	Internal Smart India Hackathon 2023	Praveen Saini, Sachin, Kanchan, Yashashvi, Raksha, Kirti,	70

Year: 2020 – 2021

Sl. No	Year/date	Event/ Challenge/ Ventures Name	Invitees/speaker/qualified level	No. of Participants
1	28-05-2020	MHRD online E session	Dignitaries invited by IIC MHRD	13 faculties
2	27-06-2020	KHOJ BTU	Mentor: Padma Shri National Award (Management Education) winner Prof. Anil Kr. Gupta organized by BTU	16 students (2 selected)

Year: 2021 – 2022

Sl. No	Year/date	Event/ Challenge/ Ventures Name	Invitees/speaker/qualified level	No. of Participants
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1	23-03-2022	Internal Hackathon for Smart India Hackathon 2023 (23 rd – 24 th March)	Faculty Coordinators: Mr. S. Jangid, Mr. Gauttam Jangid, Dr. H. Rahaman, 3 teams for software and 2 teams for hardware selected through Jury Panel	48 participants: 8 teams
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9	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
9.7	Co-curricular and Extra-curricular Activities	Enough focus given Co-curricular and extra-curricular activities.	Expanding the horizon, a range of new co-curricular and extra-curricular activities are introduced, aiming to further enrich the student experience with diverse programs in sports, arts, leadership, and community engagement. Description of various Co-curricular and extra-curricular activities is mentioned in the SAR.

Criteria 10

10	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
10.1	State the vision and Mission of the Institute	Focused Vision and Mission of the Institute.	Full Marks Awarded. Follow the same Vision and Mission.
10.1.2	Governing body, administrative setup, functions of various bodies, service rules, procedures, recruitment and promotional policies	G.B Constitution not up to mark (not as per norms). No proper documentation. Service rules not in published form.	G.B Constitution constituted as per norms, proper documentation created. Service rules published as per norms.

COMMITTEES

B K Birla Institute of Engineering and Technology, Pilani has well established organizational structure to execute out smooth functioning of administrative and academic processes. Therefore, various committees or bodies are formulated and their members composition can be viewed from our website www.bkbiet.ac.in

1. Board of Management Committee
2. Finance Committee

3. Purchase Committee
4. Library Committee
5. Building, Works and Maintenance Committee
6. IQAC Committee
7. Grievance Redressal Committee
8. Discipline Committee
9. Anti- Sexual Harassment Committee
10. Gender Sensitization Committee
11. Anti- Ragging Committee
12. Sports and Games
13. Cultural Committee

Board of Management (BOM) Committee for the year 2023-24:

S. No	Name	Profession	Designation
1	Dr. S M Prasanna Kumar	Educationist	Chairman
2	Shri B K Dalan	Industry Professional	Secretary of the Trust (SKCT)
3	Shri Jayant Sogani	Industry Professional	Consultant
4	Shri K K Pareekh	Administrator	Member
5	Prof. Gajendra Kumar Tyagi	Educationist	Member
6	Dr. Beena Narayan Tripathi	Educationist	Member
7	Mr. Aishwarya Sharma	Administrator	Member
8	Dr. V N Dhaulakhandi	Researcher/ Scientist	Member
9	Mr. Pramod Kumar	Administrator	Member
10	Dr. Smita Pareek	Educationist	Member
11	Dr. Disha Meel	Educationist	Member
12	Mrs. Reena Saini	Educationist	Member
13	Dr. Rashmi Jangid	Educationist	Member
14	Mrs. Ruchi Sharma	Educationist	Member
15	University Nominee	Nomination awaited	Member
16	Dr. Anil Kumar Sharma	Educationist	Member Secretary

**BOM committees for previous years are also available in the office record.

Duty and Responsibility of the Governing Body (BOM) - All policy decisions are taken by the

BoM. Few of them are as follows:

1. Framing various policies and regulations of the Institution like student admission, fees structure, faculty recruitment, salary, and leave rules for the staff, promotion and budget allotment.
2. Providing the facilities or equipment's for the development of the Institution.
3. Approve the request for developing infra structure and implementing the new program of study leading to award of degree

Finance Committee for the academic year 2022-23:

S. No	Name	Designation & Department	Position
1	Dr. S M Prasanna Kumar	Director	Chairman
2	Dr. Anil Kumar Sharma	Principal	Member
3	Mr. DC Sharma	HOD ME	Member
4	Dr. Y K Gupta	HOD S&H	Member
5	Dr. Nimish Kumar	HOD CS-DS-AI-IT	Member
6	Dr. Santosh Jangid	HOD ECE	Member
7	Dr. Smita Pareekh	HOD EE	Member
8	Mr. Umesh Ratawa	Accounts	Member
9	Shri K K Pareekh	Administrator	Member Secretary

**Finance committees for previous years are also available in the office record.

Duties of the committee are as follows:

1. To seek all major and minor expenditure proposals from different committees, analyze them, establish the priorities and forward a tentative budget to BOG in time.
2. To prepare yearly budget of the Institution as advised by BOG and in consultation with Departments of the Institution.
3. To plan proper utilization of resources and do careful funds management (by making fixed deposits)
4. To prepare detailed plan of expenditure for day-to-day running of the Institution.
5. To mobilize resources through donations from society, through funding agencies under various schemes, arranging charity shows etc.
6. To sanction all the expenditure to procure major equipment's as advised by BOG.
7. To sanction expenditures for constructing new buildings after getting approved from BOG
To update the budgetary provisions, necessary by working out the budgetary implications of various plans of Planning & Institutional Development Committee.

Purchase Committee for the academic year 2022-23:

S. No	Name	Designation & Department	Position
1	Dr. S M Prasanna Kumar	Director	Chairman
2	Dr. Anil Kumar Sharma	Principal	Member
3	Mr. DC Sharma	HOD ME	Member
4	Dr. Y K Gupta	HOD S&H	Member
5	Dr. Nimish Kumar	HOD CS-DS-AI-IT	Member
6	Dr. Santosh Jangid	HOD ECE	Member
7	Dr. Smita Pareekh	HOD EE	Member
8	Mr. Umesh Ratawa	Accounts	Member
9	Shri K K Pareekh	Administrator	Member Secretary

*Two experts from the relevant department as per the items required can be nominated as additional members by the chairman.

** Purchase committees for previous years are also available in the office record.

Duties of the committee are as follows:

1. To identify areas other than buildings where consistent maintenance activity is needed. (e.g., computers, xerox machines etc) and finalize the annual maintenance contracts with prior intimation to finance committee.
2. To prepare guidelines and devise general system for procurements of materials, equipment and items for the institution.
3. To coordinate all the purchases of various Departments and ensure the procurement of required items as per schedule.
4. To process different proposals received from various Departments.
5. To carry out discussions and negotiations with suppliers and procure the best quality items with competitive price.
6. To review the proposals passed and get the feedback of the proposals kept pending by the respective Departments and forward the same to Finance Committee for feedback.

GENERAL INSTRUCTIONS:

1. To prepare approved vendors list for items, which are of general use and ensure the procurement of such items from approved vendors only.
2. To invite quotations for items, which are centrally processed like xerox papers, computer stationary, chalk boxes, students journal material etc. well within time and arrange their procurement after negotiations.

Library Committee for the academic year 2022-23:

S. No	Name	Designation & Department	Position
1	Dr. S M Prasanna Kumar	Director	Chairman
2	Mr. DC Sharma	HOD ME	Member
3	Dr. Y K Gupta	HOD S&H	Member
4	Dr. Nimish Kumar	HOD CS-DS-AI-IT	Member
5	Dr. Santosh Jangid	HOD ECE	Member
6	Dr. Smita Pareekh	HOD EE	Member
7	Dr. Sarita Jain	Assistant Librarian	Member
8	Dr. Neetu Gujran	Assistant Librarian	Member
9	Mr. Jaswant Singh	Assistant Librarian	Member
10	Mr. Umesh Ratawa	Accounts	Member
11	Dr. Anil Kumar Sharma	Principal	Member Secretary

** Library committees for previous years are also available in the office record.

Duties of the committee are as follows:

1. To provide online books access system.
2. To prepare a budget for books needed by each Departments and forward it to finance committee.
3. To procure textbooks in adequate number well in advance before the start of semester in consultation with Academic Committee
4. To give correct accession no. to the books procured and enter in record books.
5. To add more titles every year in consultation with respective departments and keeping in view the diversity.
6. To enrich the library by procuring leading national / international journals.
7. To maintain the records of issues and return of books accurately.
8. To get the books bound as when their covers are torn or worn out.
9. To prepare bound volumes of journals every year
10. To display new arrivals of books and journals for information to staff and students with critical and attractive review.
11. To keep record of students and staff visiting the library and books referred by them.
12. To display the renewal dates of all journals and get them renewed in time, to constantly monitor the pending issues and the necessary follow-up.
13. To provide xerox facilities in library at subsidized rate.
14. To procure quality audio and video library literatures.
15. To provide and maintain the facility of the reading room within the Library

16. To have a tie up with IIT libraries, and reputed libraries in the state.
17. To provide and maintain Internet facility in Library.
18. To maintain library books records as per the internationally accepted system and update the same from time to time.
19. To provide book-bank facility to students.
20. To display the number of textbooks, titles and journals available in the library at the entrance of the library.
21. To display the New Arrivals

Building, Works and Maintenance committee for the academic year 2022-23:

S. No	Name	Designation & Department	Position
1	Dr. S M Prasanna Kumar	Director	Chairman
2	Mr. Naresh Kumar	Estate officer	Member
3	Mr. DC Sharma	HOD ME	Member
4	Mr. V K Yadav	Chief Warden	Member
5	Mr. V K Yadav	Chief Warden	Member
6	Mr. Umesh Ratawa	Accounts	Member
7	Dr. Anil Kumar Sharma	Principal	Member Secretary

**The above committees for previous years are also available in the office record.

Duties of the committee are as follows:

1. To prepare phase-wise, comprehensive, time-bound plans to construct new buildings (As per AICTE norms), as and when required, in consultation with Planning & Institutional Development Committee and get it approved by Governing Body. For which it has to seek information and requirements of new building from various Committees. (e.g. In consultations with Academic Committee get the requirement for classrooms, laboratories, prepare a plan accordingly & place it before Planning & Institutional Development Committee for consideration and finally to Governing Body for approval.)
2. To process different proposals, which involves
 - a. Inviting various plans and finalizing proper one
 - b. Designing and estimation of the work
 - c. Completing all the necessary formalities regarding the sanction from the concerned authorities
 - d. Inviting quotations

- e. Preparing the comparative statement and forwarding the same to the Purchase Committee.
3. To complete the legal formalities regarding land, building and Municipal taxes.
4. To supervise and monitor all the work under construction and get the work completed strictly as per schedule.
5. To prepare a plan for furniture required for various Departments / cells of the Institution.
6. To monitor the status of all buildings, to forward the proposals of renovation and maintenance to Planning & Institutional Development Committee and carry out routine maintenance of the college and hostel buildings.

SYSTEM OF FUNCTIONING:

1. The committee shall meet once in every month with an agenda.
2. The building plans, prepared by the committee shall be approved by Governing Body.
3. The committee shall review the work in progress and prepare a report.
4. The committee shall be in constant touch with the Academic and Administrative committees for any specific building requirements.

The committee shall prepare a detailed annual report on the construction and furniture work and submit the same to the Governing Body.

Internal Quality Assurance Cell (IQAC) for the academic year 2022-23:

S. No	Name	Designation & Department	Position
1	Dr. S M Prasanna Kumar	Director	Chairman
2	Mr. K K Pareek	G M Commercial	Member
3	Mr. Umesh Ratawa	Accounts Head	Member
4	Mr. Sushil Kumar	State Purchase Officer	Member
5	Dr. S. Jangid	Associate Professor	Member
6	Mr. Manoj Kataria	Assistant Professor	Member
7	Mr. Vikas Poonia	Assistant Professor	Member
8	Mr. Ramakant Soni	Assistant Professor	Member
9	Mr. R S Shekhawat	Assistant Professor	Member
10	Mr. Arpit Agarwal	Alumni	Member
11	Mr. Arjun Maheshwari	Alumni	Member
12	Mr. Bhupesh Mittal	Alumni	Member
13	Mr. Vikas Soni	Industrialist employer	Member

In pursuance of its Action Plan for performance evaluation, assessment and accreditation and quality up-gradation of institutions of higher education, external experts proposes that every

accredited institution should establish an Internal Quality Assurance Cell (IQAC) as a quality sustenance measure. Since quality enhancement is a continuous process, the IQAC will become a part of the institution's system and work towards realization of the goals of quality enhancement and sustenance. The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the overall performance of institutions. For this, the institute needs to channelize its efforts and measures towards promoting the holistic academic excellence including the peer committee recommendations.

Duties and functions of the committee are as follows:

1. To develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution.
2. To promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.
3. Development and application of quality benchmarks Parameters for various academic and administrative activities of the institution.
4. Facilitating the creation of a learner-centric environment conducive to quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process.
5. Collection and analysis of feedback from all stakeholders on quality-related institutional processes.
6. Dissemination of information on various quality parameters to all stakeholders.
7. Organization of inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles.
8. Documentation of the various programmers/activities leading to quality improvement.
9. Acting as a nodal agency of the Institution for coordinating quality-related activities, including adoption and dissemination of best practices.
10. Development and maintenance of institutional database through MIS for the purpose of maintaining /enhancing the institutional quality.
11. Periodical conduct of Academic and Administrative Audit and its follow-up

Grievance Redressal committee for the academic year 2023-24

S. No	Name	Designation & Department	Position
1	Mr. K K Pareekh	G M Commercial	Chairman
2	Mr. V K Yadav	HOD – Chief Warden	Member
3	Mr. D C Sharma	HOD – Mechanical	Member
4	Dr. Vipin Kumar	Associate Prof	Member
5	Dr. Y K Gupta	HOD – S&H	Member Secretary

**The above committees for previous years are also available in the office record.

The functions of the above committee are to:

1. Receive written complaints from students regarding any kind of academic grievances.
2. Examine the genuineness of the complaint and suggest appropriate remedies.
3. Forward recommendations to the Principal for implementation.
4. Recommend modification of the grades, if any, through proper mechanism.

Disciplinary committee for the academic year 2022-23:

S. No	Name	Designation & Department	Position
1	Dr. S M Prasanna Kumar	Director	Chairman
2	Mr. DC Sharma	HOD ME	Member
3	Dr. Y K Gupta	HOD S&H	Member
4	Dr. Nimish Kumar	HOD CS-DS-AI-IT	Member
5	Dr. Santosh Jangid	HOD ECE	Member
6	Dr. Smita Pareekh	HOD EE	Member
6	Mr. Umesh Ratawa	Accounts	Member
7	Mr. V K Yadav	Chief warden Boys Hostel	Member
8	Ms. Priti Bhomia	Warden Ladies Hostel	Member
9	Dr. Anil Kumar Sharma	Principal	Member Secretary

*Two experts from the relevant department as per the requirement can be nominated as additional members by the chairman.

**The above committees for previous years are also available in the office record.

The functions of the above committee are to:

1. A suitable undertaking from parents will be taken in all cases against whom Disciplinary action is taken.
2. Any student against whom action is taken under Disciplinary Committee will not be eligible to apply for any institute scholarship.

In addition to above mentioned actions, for cases under Category 2 and 3, it is suggested to stipulate monitoring mechanism through one or more of the following modes:

Mandatory Community Service such as working in library, cooperative store, gymnasium, NSS, NIRMAN, Divisions such as SWD, Instruction, ARCD etc. Nature of service and time to be devoted on such service would be decided by the Disciplinary Committee depending upon the

category and Nature of indiscipline.

Students will be advised to meet Counsellor and report would be obtained from him. Compulsory attendance to the extent of at least 80% would be stipulated for one semester or more depending upon the nature of case. For second offense in any category, Disciplinary Committee may decide a fine/cancellation of registration for one or more semesters/discontinuation from the programme, on a case-by-case basis depending upon the gravity of the offense and the general conduct of the concerned student.

Sexual Harassment Prevention committee for the academic year 2022-23:

S. No	Name	Designation & Department	Position
1	Dr. Anupama Sharma	Associate Professor	Chairman
2	Ms. Reena Saini	Assistant Professor	Member
3	Ms. Priti Bhomia	Warden Ladies Hostel	Member
4	Mr. V K Yadav	Warden Committee	Member
5	Ms. Reena Saini	Assistant Professor	Member
6	Gaurav Kumar	4 th year Batch	Student Member
7	Khusi Sharma	3 rd year Batch	Student Member
8	Manshi Bist	2 nd year Batch	Student Member
9	Yash Kumar	1 st year Batch	Student Member
10	Dr. Sonam Mittal	Associate Professor	Member

**The above committees for previous years are also available in the office record.

Objectives of the Committee are:

- Prevent discrimination and sexual harassment against women, by promoting gender respect and harmony among students and employees.
- Make recommendations to the amendments or addition to the Rules for students in the Prospectus and the Byelaws, to make them gender just and to lay down procedures for the prohibition, resolution, settlement and prosecution of acts of discrimination and sexual harassment against women, by the students and the employees.
- Deal with cases of discrimination and sexual harassment against women, in a time bound manner, aiming at ensuring support services to the victims and cessation of the harassment.
- Recommend appropriate punitive action against the delinquent to the Management.

The Committee deals with issues relating to sexual harassment at the University. It is applicable to all students, staff and faculty. A complaint of discrimination or sexual harassment may be lodged by the victim or a third party. A written complaint may be addressed to the Convener of the

Committee. If the complaint is made to the Dean, Director or any of the Committee members, the same may be forwarded to the Convener of the Committee Against Sexual Harassment.

The following sexual harassment is covered by the committee:

- Physical contact and advances
- Demand or request for sexual favors
- Sexually colored remarks
- Showing pornography and
- Other unwelcome physical, verbal or non-verbal conduct of a sexual nature.
- Eve-teasing
- Unsavoury remarks
- Jokes causing or likely to cause awkwardness or embarrassment
- Innuendos and taunts
- Gender based insults or sex remarks
- Unwelcome sexual overtone in any manner such as over telephone (obnoxious telephone calls) and the like
- Touching or brushing against any part of the body and the like
- Displaying pornographic or other offensive or derogatory pictures, cartoons, pamphlets or sayings
- Forcible physical touch or molestation and
- Physical confinement against one's will and any other act likely to violate one's privacy.

Gender Sensitization committee for the academic year 2022-23:

S. No	Name	Designation & Department	Position
1	Dr. S M Prasanna Kumar	Director	Chairman
2	Dr. Smita Pareek	HOD EE	Member
3	Dr. Anupama Sharma	Associate Professor	Member
4	Ms. Reena Saini	Assistant Professor	Member
5	Dr. Sonam Mittal	Associate Professor	Member
6	Ms. Priti Bhomia	Warden Ladies Hostel	Member
7	Dr. Vipin Kumar	Associate Professor	Member

**The above committees for previous years are also available in the office record.

The functions of the above committee are to:

1. Conduct programmes on gender and sexuality sensitization as part of its orientation for new students and their parents in every academic year.
2. Take periodic measures for gender and sexual awareness programmes.
3. Include material pertaining to human rights as well as gender and sexual diversity in the

curriculum, teacher training and professional development programmes.

4. Include prevention, prohibition and protection from discrimination, violence and harassment on the basis of gender identity and sexual orientation in the ambit of the primary goals of Gender Champions (pursuant to UGC's letter No. F.91-2/2014 (GS) or any other subsequent UGC directives that may follow) to outline the activities/awareness campaigns/sensitization efforts/discussions on gender equality and gender justice.
5. Create a gender and sexuality forum for conducting discussions and awareness programmes on gender and sexuality. The forum should endeavour to create the modalities for anonymous support systems for persons struggling to come to terms with their gender identity and sexual orientation.
6. Ensure that counselling services available on campus are specifically equipped to deal with issues of discrimination, violence and harassment on the basis of gender identity and sexual orientation.

Anti-ragging committee for the academic year 2022-23:

S. No	Name	Designation & Department	Position
1	Dr. Anil Kumar Sharma	Principal	Chairman
2	Mr. Madan Lal	Police Inspector - SHO	Member
3	Ms. Susheela	Civil Admin (revenue/ taluka/ civil)	Member
4	Ms. Deep Sikha Shreemal	NGO official (work for youth activity)	Member
5	Mr. DC Sharma	Faculty representative	Member
6	Mr. B C Kataria	Non-Teaching representative	Member
7	Gaurav Kumar	Student boys representative	Member
8	Yash Kumar	1 st yr Student boys representative	Member
9	Khushi Sharma	Student girls representative	Member
10	Geetika Sharma	1 st yr Student girls representative	Member

**The above committees for previous years are also available in the office record.

Anti-ragging Squad for the academic year 2022-23:

S. No	Name	Designation & Department	Position
1	Dr. Anil Kumar Sharma	Principal	Chairman
2	Mr. D C Sharma	HOD – 1	Member
3	Dr. Y K Gupta	HOD – 2	Member
4	Mr. R J Shekhawat	Male faculty	Member
5	Mr. Gaurav Sahu	Male faculty	Member
6	Dr. Anupama Sharma	Female faculty	Member
7	Dr. Sonam Mittal	Female faculty	Member
8	Mr. V K Yadav	Non – teaching staff	Member

**The above committees for previous years are also available in the office record.

Ragging in any form is a crime

Ragging is totally banned and punishable as per the government order. If any student is found indulging in any sort of ragging or harassment to juniors or other fellow students, inside or outside the campus, bus, hostel, he/she will be dismissed immediately from the university and criminal action will be taken against them as per the rules.

Definition

In this Act, unless the context otherwise requires, “ragging” means display of noisy, disorderly conduct doing any act which cause or is likely to cause physical or psychological harm or raise apprehension or fear or shame or embarrassment to a student in any educational institution and includes

a) Testing abusing on playing practical jokes, on causing hurt to such student

Or

b) Asking the students to do any act or perform something which such students will not in the ordinary course willingly do

Prohibition of ragging

Ragging within the campus is strictly prohibited

Duties of Anti-ragging Committee:

Committee shall be the duty of the anti-ragging committee to take all necessary steps require to enforce provision of UGC regulations 2009 in this regard as well as the provision of any law for the time being in force concerning ragging, and also to monitor and oversee the performance of the anti-ragging squad in the prevention of ragging in the institution.

Duties of Anti-ragging Squad:

1. To carryout surprise raids in the hostels and any other places vulnerable to incidents of ragging.
2. To conduct an on-the-spot enquiry into any incident of ragging referred to it by Head of the Institution, members of faculty, members of staff, any student, any parent or guardian, any employee of service provider or any other person. The enquiry report along with recommendations shall be submitted to anti-ragging committee. The anti-ragging squad shall conduct such an enquiry observing a fair and transparent procedure based on the principles of natural justice and after giving adequate opportunity to the student or students accused of ragging and other witnesses to place before it the facts, documents and views concerning the incident of ragging, and considering such other relevant information as may be required.

Sports and Games committee for the academic year 2022-23:

S. No	Name	Designation & Department	Position
1	Mr. Bool Chand Kataria	Non-teaching Staff	Chairman
2	Mr. R S Shekhawat	Assistant Professor	Member
3	Mr. Nachiket Sainis	Assistant Professor	Member
4	Dr. Anupama Sharma	Associate Professor	Member
5	Mr. Harshit Rai	Student coordinator	Member
6	Ms. Lakshmi Singh Tanwar	Student coordinator	Member
7	Mr. Jayendra Parmer	Assistant Professor	Member Secretary

**The above committees for previous years are also available in the office record.

Cultural committee for the academic year 2022-23:

S. No	Name	Designation & Department	Position
1	Dr. Anupama Sharma	Associate Professor	Chairman
2	Mr. R S Shekhawat	Assistant Professor	Member
3	Mr. Gaurav Sahu	Assistant Professor	Member
4	Ms. Reena Saini	Associate Professor	Member
5	Moliska	Student coordinator	Member
6	Ashish Jha	Student coordinator	Member
7	Dr. Sonam Mittal		Member Secretary

**The above committees for previous years are also available in the office record.

10.1	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)

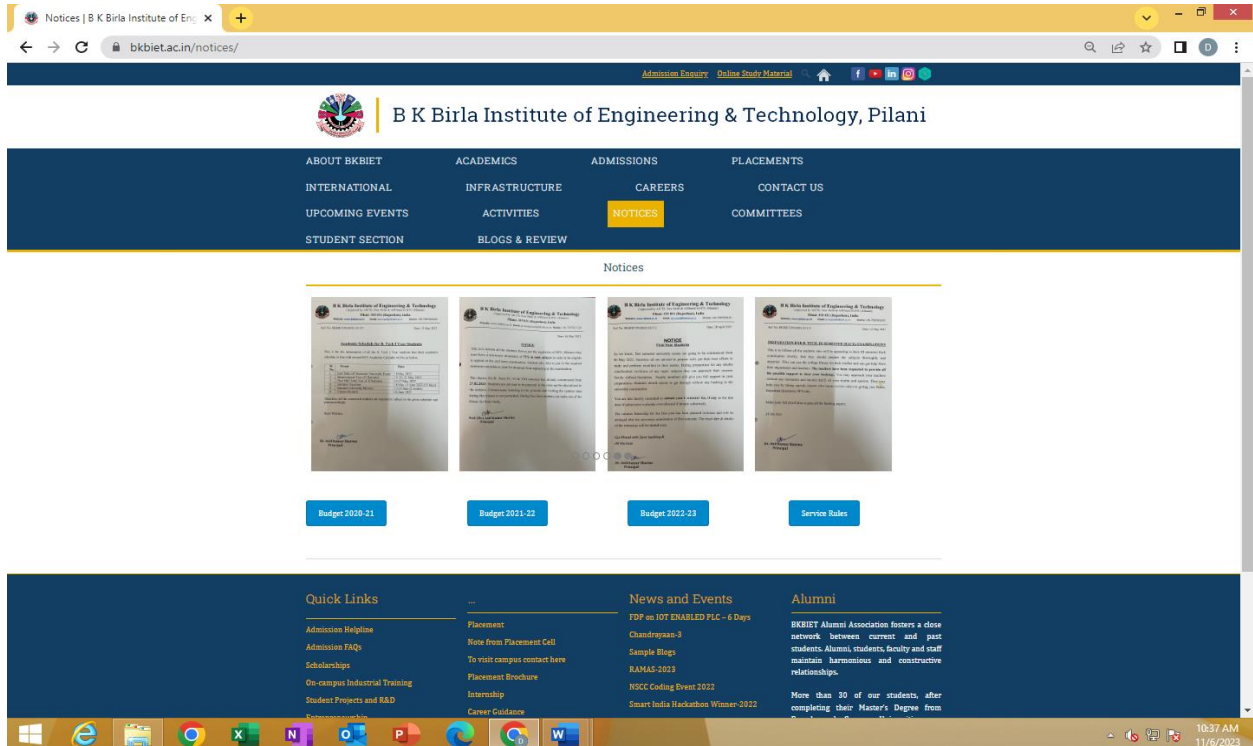
10.1.3	Decentralization in working and grievance redressal mechanism	No Comments Given	<i>Director of the institution being the Chairman of the BOM/ BOG has infinite powers with full financial authority, cheque signing, dealing with banks, issuing purchase orders for goods and services. Documentary proof is available in the form of resolution passed and approved by the board of trustees. Cheque signing authority is available solely with Chairman of the Board of Trustees, however for day today functioning at institute level, the cheque signing authority is jointly available with the Director and G M Commercial. This arrangement is made to ensure that the teaching learning process and other academic activities do not suffer due to lack of funds, authority and immediate requirements needed to conduct academic activities smoothly in the institution.</i>
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10.1	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
10.1.4	Delegation of financial powers	Financial powers not distinctly defined.	The director has the infinite power and the other details and financial arrangements are explained in para 10.1.3.
10.1.5	Transparency and availability of correct/unambiguous information in public domain	Power delegation and transparency not up to mark.	In the record with the institution, many examples of one time expenditure amounting to Rs. more than 10 Lacs are available as well as that of the small purchases on day today basis. The rule book is available to all faculties and staff members of the institution through their respective HODs. One copy is available with the principal and for general purpose a copy is also kept in the library for review by faculty, staff and others.

10.2	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
10.2.1	Adequacy of budget allocation	Adequate Budget allocation and its utilization exists.	Budget allocation and utilization of allocated funds up to the mark. Continuing the same process.
10.2.2	Utilization of allocated funds		

10.2	Course Outcomes and Program	Observations made by NBA (During the last	Compliance Status (Action taken by the institution)
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	Outcomes	accreditation visit)	
10.2.3	Availability of the audited statements on the institute's Website	Audited accounts not flashed on Website.	Audited accounts statements are uploaded on Website. Following is the snapshot of the same.



10.3	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
10.1.3	Adequacy of budget allocation	Adequate justified budget allocation.	Continuing the same process.

10.3	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
10.1.3	Utilization of allocated funds	Budget utilization appropriately carried out.	Continuing the same process.

10.4	Course	Observations	Compliance Status
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	Outcomes and Program Outcomes	made by NBA (During the last accreditation visit)	(Action taken by the institution)
10.4.1	Quality of learning resources (hard/soft)	Relevant learning resources available.	Continuing the same process.

10.4	Course Outcomes and Program Outcomes	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
10.4.2	Internet	Internet speed appropriate.	The institute is using the internet facility through Fiber Optics medium from Arichwal IT Services Private Limited and has increased the bandwidth from 100 Mbps to 300 Mbps. The bill of the internet service provider is attached below.

Invoice

Invoice From	Invoice To	Customer Information
ARICHWAL IT SERVICES PRIVATE LIMITED MANDI ROAD, SURAJGARH, DISTRICT- JHUNJHUNU, RAJASTHAN-333029 GSTIN : 08AAMCA8135B1ZS HSN Code : 98422	B.K. Birla Institute of Engineering CEERI ROAD, PILANI, Distric- Jhunjhunu, Rajasthan INDIA, PILANI, Rajasthan, India- 333031 Registered Mobile : 9784287553	Customer No 11942 User Name bkbiet Order No 26600 Invoice No JUL-2020-23636 Billing Date 02/07/2021 Due Date 15/07/2021 Billing Period 01/04/2021 To 30/06/2021

Invoice Breakup			
Description	Quantity	Unit Cost	Total
AITSPL 300MBPS ILL (3 Months)	1	221250 (+)	221250
Includes CGST @ 9% on 187500 (+)			16875
Includes SGST @ 9% on 187500 (+)			16875
GRAND TOTAL			221250.00
Balance Due			221250.00

Remarks:-

- Cheques should be drawn in the name of "Arichwal IT Services Private Limited."
- Please clear your dues on time to enjoy uninterrupted services.

BANK ACCOUNT DETAILS:-

Account Name: ARICHWAL IT SERVICES PRIVATE LIMITED.
 Bank Name: PUNJAB NATIONAL BANK Branch : SURAJGARH.
 ACCOUNT NO : 6893002100001404IFSC: PUNB0689300
 For More Information Mail us account@aitspl.in
 Call us 9309250002

This is computer generated Invoice. No signature required

Declaration

It is hereby declared that information provided in this Compliance Report is factually correct. I understand and agree that an appropriate action against the Institute will be initiated by the NBA (which may include debarring the institution for three years), in case any false statement/information is observed during the assessment of the compliance report.

Date:

Signature & Name

Place:

Head of the Institution with seal