



BIKANER TECHNICAL UNIVERSITY, BIKANER

बीकानेर तकनीकी विश्वविद्यालय, बीकानेर

OFFICE OF THE DEAN ACADEMIC



S.N.: 2194 - 96

Date: 16-12-2021

Academic Calendar for Odd Semester for Session: 2021-22

This Academic Calendar is approved by the Hon'ble Governor and Chancellor and being issued in compliance with letter received from Secretary, Governor's Secretariat (Rajasthan) with ref: No. F.1 (45) (F) RB/2015 Pt-1/6011.

Course: Bachelor of Technology (B.Tech.)

Semester	I	III	V	VII
Induction Program				
Commencement of Classes		20.09.2021	20.09.2021	01.09.2021
Commencement of First Mid Term		28.10.2021	25.10.2021	04.10.2021
Commencement of Second Mid Term		08.12.2021	29.11.2021	15.11.2021
Last Working Day		15.01.2022	24.12.2021	15.12.2021
Commencement of Practical Exams		17.01.2022	20.01.2022	16.12.2021
Commencement of Theory Exams		27.01.2022	05.01.2022	06.01.2022
Winter Break	25.12.21 to 31.12.21			
Commencement of Classes for Even Semester(2021-22)	II	IV	VI	VIII
		10.02.2022	27.01.2022	10.01.2022

Course: Master of Technology (M.Tech.)

Semester	I	III
Commencement of Classes		01.09.2021
Commencement of First Mid Term		-
Commencement of Second Mid Term		-
Last Working Day		24.12.2021
Commencement of Practical Exams		-
Commencement of Theory Exams		-
Winter Break	25.12.21 to 31.12.21	
Commencement of Classes for Even Semester(2021-22)	II	IV
		17.02.2022

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Course: Master of Business Administration (MBA)

Semester	I	III
Commencement of Classes		08.10.2021
Commencement of First Mid Term		15.11.2021
Commencement of Second Mid Term		20.12.2021
Last Working Day		20.01.2022
Commencement of Practical Exams		21.01.2022
Commencement of Theory Exams		27.01.2022
Winter Break	25.12.21 to 31.12.21	
Commencement of Classes for Even Semester(2021-22)	II	IV
		17.02.2022

Course: Master of Computer Application (MCA)

Semester	I	III
Commencement of Classes		20.09.2021
Commencement of First Mid Term		25.10.2021
Commencement of Second Mid Term		22.11.2021
Last Working Day		20.12.2021
Commencement of Practical Exams		23.12.2021
Commencement of Theory Exams		03.01.2022
Winter Break	25.12.21 to 31.12.21	
Commencement of Classes for Even Semester(2021-22)	II	IV
		17.01.2022

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Course: Bachelor of Hotel Management & Catering Technology (BHMCT)

Semester	I	III	V	VII
Commencement of Classes			20.09.2021	06.09.2021
Commencement of First Mid Term			25.10.2021	04.10.2021
Commencement of Second Mid Term			29.11.2021	15.11.2021
Last Working Day			24.12.2021	15.12.2021
Commencement of Practical Exams			20.01.2022	16.12.2021
Commencement of Theory Exams			05.01.2022	06.01.2022
Winter Break	25.12.21 to 31.12.21			
Commencement of Classes for Even Semester(2021-22)	II	IV	VI	VIII
			27.01.2022	10.01.2022

Course: Bachelor of Architecture (B.Arch.)

Semester	I	III	V	VII	IX
Induction Program					
Commencement of Classes		20.09.2021	20.09.2021	01.09.2021	01.09.2021
Commencement of First Mid Term		28.10.2021	25.10.2021	04.10.2021	04.10.2021
Commencement of Second Mid Term		08.12.2021	29.11.2021	15.11.2021	15.11.2021
Last Working Day		15.01.2022	24.12.2021	15.12.2021	15.12.2021
Commencement of Practical Exams		17.01.2022	20.01.2022	16.12.2021	16.12.2021
Commencement of Theory Exams		27.01.2022	05.01.2022	06.01.2022	06.01.2022
Winter Break	25.12.21 to 31.12.21				
Commencement of Classes for Even Semester(2021-22)	II	IV	VI	VIII	X
		10.02.2022	27.01.2022	10.01.2022	10.01.2022

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Course: Master of Architecture (M.Arch.)

Semester	I	III
Commencement of Classes		01.09.2021
Commencement of First Mid Term		21.10.2021
Commencement of Second Mid Term		29.11.2021
Last Working Day		24.12.2021
Commencement of Practical Exams		20.01.2022
Commencement of Theory Exams		05.02.2022
Winter Break	25.12.21 to 31.12.21	
Commencement of Classes for Even Semester(2021-22)	II	IV
		27.01.2022

Copy to:

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10-12-2021

1. PS to Hon'ble Vice Chancellor.
2. Registrar, BTU, Bikaner
3. CoE
4. All the Principal/Director of Constituent/Affiliated Colleges.
5. Web Master


(Dr. J.P. Bhamu)
Dean, Academics
Bikaner Technical University
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Sanjeet Kumar
(Associate Dean, Academics)


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BIKANER TECHNICAL UNIVERSITY, BIKANER
 Academic Calendar for Even Semester for Session 2022-23
 Course: B.Tech/B.Arch/B.Design
 REVISED on 28-04-2023

Semester	II	IV	VI	VIII	X (09/09/2023 After)
Commencement of Classes	15.03.2023	27.07.2023	27.02.2023	27.02.2023	27.02.2023
First Mid Term	17.04.2023	03.04.2023	03.04.2023	27.03.2023	03.04.2023
Second Mid Term	11.05.2023	03.08.2023	03.08.2023	16.05.2023	17.07.2023
Last Working Day	16.08.2023	07.08.2023	07.08.2023	23.05.2023	20.07.2023
Commencement of Practical Exams	18.08.2023	10.08.2023	10.08.2023	24.05.2023	24.07.2023
Commencement of Theory Exams (Tentative)	31.08.2023	24.08.2023	24.08.2023	15.06.2023	03.08.2023
Commencement of Classes for Odd Semester (2023-24)	III	V	VII	IX (30/09/2023)	
Will be declared later					

BIKANER TECHNICAL UNIVERSITY, BIKANER
 Academic Calendar for Even Semester for Session 2022-23
 Course: M.Tech/MD/MSCA
 REVISED on 28-04-2023

Semester	II (01/09/2023 After)	IV (07/09/2023)	VI (03/09/2023)
Commencement of Classes	15.03.2023	09.05.2023	27.02.2023
First Mid Term	17.04.2023	17.07.2023	03.04.2023
Second Mid Term	27.07.2023	24.08.2023	17.07.2023
Last Working Day	31.07.2023	28.08.2023	20.07.2023
Commencement of Practical Exams	03.08.2023	31.08.2023	24.07.2023
Commencement of Theory Exams (Tentative)	10.08.2023	05.09.2023	03.08.2023
Commencement of Classes for Even Semester (2023-24)	III	V (01/09/2023)	
Will be declared later			

Summer Internship for B.Tech II Sem - 01 June 2023 to 20 July 2023
 Summer Internship for B.Tech IV Sem - 01 June 2023 to 20 July 2023
 Summer Internship for B.Tech VI Sem - 01 June 2023 to 20 July 2023
 Summer Internship for M.Tech II Sem - 10 May 2023 to 10 July 2023
 Summer Internship for M.Tech III Sem - 15 May 2023 to 30 June 2023
 Summer Vacation for - 26 May 2023 to 20 July 2023

Qualifiers
 28/4/23

Qualifiers
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Qualifiers

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B K Birla Institute of Engineering & Technology, Pilani

Special Improvement Exam, 2022

B.Tech- III Year IV Semester (Branch: Information Technology)

Time: 2 Hrs Sub: Data Communication & Computer Networks – 4IT4-07 Max. Marks: 30

Course Outcomes		
CO1: Independently understand basic computer network technology. Identify the different types of network topologies and protocols. Understand and explain Data Communications System and its components.		
CO2: Understand data link layer & its functions-Error detection & correction.		
CO3: Understand Network layer & their functions within a network		
CO4: To explain the architecture of TCP/IP and protocols associated with TCP/IP and to analyze the network applications, network management and security issues.		
CO5: Understand application layer & its functions, and introduction to network security. To apply the knowledge about QoS		
Section A(4*1)- Compulsory		
Question No.		COs
1	Routers and Switches	CO1
	Network classification on the basis of spread scale.	CO1
	Layers of OSI model.	CO1
	Functions of Physical Layer	CO1
Section B (3*3)- Attempt any three		
2	What do you mean by topology? Explain the different types of topologies in detail with the help of an example.	CO1
3	Explain in detail a) Multimedia b) Email	CO5
4	Explain QoS and the technique for achieving good QoS.	CO5
5	Compare and elaborate TCP/IP and OSI Model	CO1
6	Explain the following with the help of a diagram a) Pure Aloha b) Go Back N ARQ	CO2
Section C (2*3.5)- Attempt any two		
7	Explain TCP & UDP in detail with the help of diagrams.	CO4
8	Explain Leaky bucket and Token Bucket algorithm in detail.	CO4
9	Explain the responsibilities of the following layers: a) Data Link Layer b) Network Layer c) Application Layer	CO1


(Dr. S. S. S. S. S.)


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Improvement Exam, 2022

B.Tech- III Year IV Semester (Branch: Information Technology)

Time: 2 Hrs Sub: Data Communication & Computer Networks – 4IT4-07 Max. Marks: 30

Course Outcomes		
CO1: Independently understand basic computer network technology. Identify the different types of network topologies and protocols. Understand and explain Data Communications System and its components.		
CO2: Understand data link layer & its functions-Error detection & correction.		
CO3: Understand Network layer & their functions within a network		
CO4: To explain the architecture of TCP/IP and protocols associated with TCP/IP and to analyze the network applications, network management and security issues.		
CO5: Understand application layer & its functions, and introduction to network security. To apply the knowledge about QoS		
Section A(4*1)- Compulsory		
Question No.		COs
1	a. Any 2 network hardware devices.	CO1
	b. Network classification on the basis of spread scale.	CO1
	c. Layers of OSI model.	CO1
	d. Types of Media	CO1
Section B (3*4)- Attempt any three		
2	What do you mean by topology? Explain the different types of topologies in detail with the help of an example.	CO1
3	Explain in detail a) Multimedia b) Email	CO5
4	Explain QoS and the technique for achieving good QoS	CO5
5	A decimal number was encoded using seven bit even parity Hamming code. After transmission it was received as 1100101. Is there any error introduced during transmission?	CO2
6	Explain the following with the help of a diagram a) Pure Aloha b) Go Back N ARQ	CO2
Section C (2*7)- Attempt any two		
7	Explain TCP & UDP in detail with the help of diagrams.	CO4
8	What is congestion control? What are the different principles of congestion control? Explain in detail.	CO5
9	Explain the responsibilities of the following layers: a) Physical Layer b) Network Layer c) Application Layer	CO1


(Dr. Sonam Mittal)

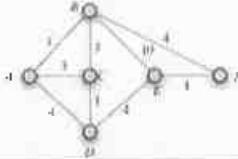
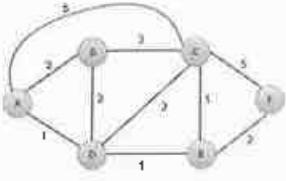

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Second Sessional Exam, 2022

B.Tech- III Year IV Semester (Branch: Information Technology)

Time: 2 Hrs Sub: Data Communication & Computer Networks – 4IT4-07 Max. Marks: 30

Course Outcomes		
CO1: Independently understand basic computer network technology. Identify the different types of network topologies and protocols. Understand and explain Data Communications System and its components.		
CO2: Understand data link layer & its functions-Error detection & correction.		
CO3: Understand Network layer & their functions within a network		
CO4: To explain the architecture of TCP/IP and protocols associated with TCP/IP and to analyze the network applications, network management and security issues.		
CO5: Understand application layer & its functions, and introduction to network security. To apply the knowledge about QoS		
Section A(4*1)- Compulsory		
Question No.		COs
1	a. Any 2 functionalities of Network Layer.	CO3
	b. Different types of routing algorithms?	CO3
	c. Techniques for congestion control?	CO3
	d. Different classes and their range in IPv4.	CO3
Section B (3*4)- Attempt any three		
2	With the help of explain the header of TCP and UDP.	CO4
3	Explain cryptography. Also explain the different methods by which a network can be made secure.	CO5
4	For the given network diagram, find the shortest path using Dijkstra's Algorithm considering A as source. 	CO3
5	Explain Leaky bucket and Token bucket algorithm in detail.	CO4
6	Write the differences between IPv4 and IPv6.	CO4
Section C (2*7)- Attempt any two		
7	Explain the following with the help of a diagram i. SMTP ii. HTTP iii. FTP	CO4
8	For the given network diagram, find the shortest path using Link State Routing algorithm. 	CO3
9	Explain in detail the different phases of TCP connection establishment with the help of different diagrams.	CO4

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Course Outcomes

CO1: Explaining the basic of computer architecture- classification, Basic computer data types and representation, micro-operations, Registers, Instructions, instruction cycle and design of basic computer.

CO2: Apply the basic concept of Assembly Language and understand Micro programmed control.

CO3: Outlining the organization of CPU, concept of instruction and arithmetic pipeline, vector processing including the RISC/CISC Architecture.

CO4: Checking how computer perform arithmetic operation. Demonstrate the basic knowledge of I/O mechanism, interfacing of I/O device with computer.

CO5: Identify the concept of memory organization and multiprocessors.

Note: -Section-A is compulsory, attempt any three from Section-B and any two from Section-C

S. No.	Questions	CO
Section-A (1*1 Marks)		
Q.1 a.	Perform following conversion: 1) $(43.05)_8 = (?)_{10}$ 2) $(8BA)_{16} = (?)_2$	CO1
b.	Find out 16^{th} complement of $(2C0.12)_{16}$ and 7^{th} complement of 35.32.	CO1
c.	Consider 8-bit binary no: 11101110 and perform the Arithmetic right shift, and circular shift left micro-operation.	CO1
d.	Draw 4-bit binary adder- subtractor.	CO1
Section-B (3*4 Marks)		
Q2.	Draw and explain 4-bit Arithmetic Circuit.	CO1
Q3.	What are the phases of instruction cycle? Draw and explain flowchart for instruction cycle.	CO1
Q4.	What is interrupt? How computer system handle interrupt?	CO1
Q5.	What are the component of CPU? Explain General register organization of CPU.	CO3

B K Birla Institute of Engineering & Technology, Pilani

First Sessional Exam, 2022

B.Tech- III Year IV Semester (Branch: Information Technology)

Time: 2 Hrs Sub: Data Communication & Computer Networks – 4IT4-07 Max. Marks: 30

Course Outcomes		
CO1: Independently understand basic computer network technology. Identify the different types of network topologies and protocols. Understand and explain Data Communications System and its components.		
CO2: Understand data link layer & its functions-Error detection & correction.		
CO3: Understand Network layer & their functions within a network		
CO4: To explain the architecture of TCP/IP and protocols associated with TCP/IP and to analyze the network applications, network management and security issues.		
CO5: Understand application layer & its functions, and introduction to network security. To apply the knowledge about QoS		
Section A(4*1)- Compulsory		
Question No.		COs
1	Periodic and Non-Periodic Signal	CO1
	Router and Switches	CO1
	Analog and Digital Signal	CO1
	Functions of Physical Layer	CO1
Section B (3*4)- Attempt any three		
2	What do you mean by topology? Explain the different types of topologies in detail with the help of an example.	CO1
3	Generate the CRC code for the data word 100100. The divisor is 1101.	CO2
4	Compare and elaborate TCP/IP and OSI Model	CO1
5	A decimal number was encoded using seven bit even parity Hamming code. After transmission it was received as 1001101. Is there any error introduced during transmission?	CO2
6	What is ALOHA? What are the different types of ALOHA? Explain in detail.	CO2
Section C (2*7)- Attempt any two		
7	What are the different hardware components used in Computer Networks? Also explain the various factors on which computer network is classified.	CO1
8	The generator matrix for a (6, 3) block code is shown below. Obtain all the code vectors of this code when $J = 011$ $G = [100 : 011, 010 : 101, 001 : 110]$	CO2
9	Explain in detail a. Selective Repeat ARQ b. Sliding Window	CO2

(Dr. Sonam Mittal)

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Special Improvement Exam, 2022

B.Tech- III Year VI Semester (Branch: Information Technology)


Time: 2 Hrs

Sub: Artificial Intelligence – 6IT4-05

Max. Marks: 20

Course Outcomes		
CO1: Explain the basic concept and evolution of artificial intelligence and intelligent agents		
CO2: Formulate a problem as a particular type such as defining a state space for a search problem		
CO3: Identify and distinguish problems that are amenable to solution by AI methods and which ai methods may be suited in solving a given problem		
CO4: Analyze and apply different machine learning algorithms according to the type of problem		
CO5: Explain pattern recognition techniques and apply them for solving parametric and non-parametric problems		
Section A(3*1)- Compulsory		
Question No.		COs
1	a. Approaches to AI?	CO1
	b. Write 4 goals of AI.	CO1
	c. Relation between knowledge and intelligence	CO1
Section B (3*3)- Attempt any three		
2	Write and explain Best first search algorithm with the help of an example.	CO1
3	Differentiate supervised and unsupervised learning with the help of an example.	CO4
4	Explain expert system and its characteristics.	CO5
5	Explain NLP and its different phases.	CO5
6	Explain AI knowledge cycle with the help of a diagram.	CO3
Section C (2*4)- Attempt any two		
7	Explain A* algorithm with the help of an example. Also write its advantages and disadvantages.	CO1
8	Explain the following in detail a) Water Jug Problem b) Tower of Hanoi	CO2
9	Explain Minimax and Alpha Beta Pruning	CO2


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Improvement Exam, 2022

B.Tech- III Year VI Semester (Branch: Information Technology)


Time: 2 Hrs

Sub: Artificial Intelligence – 6IT4-05

Max. Marks: 20

Course Outcomes		
CO1: Explain the basic concept and evolution of artificial intelligence and intelligent agents		
CO2: Formulate a problem as a particular type such as defining a state space for a search problem		
CO3: Identify and distinguish problems that are amenable to solution by AI methods and which ai methods may be suited in solving a given problem		
CO4: Analyze and apply different machine learning algorithms according to the type of problem		
CO5: Explain pattern recognition techniques and apply them for solving parametric and non-parametric problems		
Section A(3*1)- Compulsory		
Question No.		COs
1	a. Types of knowledge	CO3
	b. Knowledge based agent	CO3
	c. Relation between knowledge and intelligence	CO3
Section B (3*3)- Attempt any three		
2	Write and explain Best first search algorithm with the help of an example.	CO1
3	Differentiate supervised and unsupervised learning with the help of an example.	CO4
4	Explain 10 application areas of Artificial Intelligence.	CO1
5	Explain NLP and its different phases.	CO5
6	Explain AI knowledge cycle with the help of a diagram.	CO3
Section C (2*4)- Attempt any two		
7	Explain A* algorithm with the help of an example. Also write its advantages and disadvantages.	CO1
8	Explain the following in detail a) Water Jug Problem b) Tower of Hanoi	CO2
9	Explain the following with the help of a tree a) Minimax b) Alpha Beta Pruning	CO2


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Course Outcomes		
CO1: Explain the basic concept and evolution of artificial intelligence and intelligent agents		
CO2: Formulate a problem as a particular type such as defining a state space for a search problem		
CO3: Identify and distinguish problems that are amenable to solution by AI methods and which ai methods may be suited in solving a given problem		
CO4: Analyze and apply different machine learning algorithms according to the type of problem		
CO5: Explain pattern recognition techniques and apply them for solving parametric and non-parametric problems		
Section A(3*1)- Compulsory		
Question No.		COs
1	a. Approaches to AI?	CO1
	b. Write 4 goals of AI	CO1
	c. Different properties of Search algorithms	CO1
Section B (3*3)- Attempt any three		
2	Explain the depth limited search algorithm along with its time and space complexity. Also write its advantages and disadvantages.	CO1
3	Write and explain Best first search algorithm with the help of an example.	CO1
4	Explain the different types of computer games with the help of an example	CO2
5	Solve the following crypt arithmetic problems:	CO1
	i. SEND + MORE = MONEY ii. BASE + BALL = GAMES	
6	Solve the given tree with the help of Minimax algorithm	CO2
Section C (2*4)- Attempt any two		
7	What is water jug problem? Also give its solution by providing the set of rules to solve the problem.	CO2
8	Explain A* algorithm with the help of an example. Also write its advantages and disadvantages.	CO1
9	What is the advantage of alpha beta pruning over Minimax algorithm? Solve the given tree with the help of alpha beta pruning.	CO2

(Smt. Sonam Mittal)

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B K Birla Institute of Engineering & Technology, Pilani

Second Sessional Exam, 2022

B.Tech- III Year VI Semester (Branch: Information Technology)

Time: 2 Hrs

Sub: Artificial Intelligence -- 6IT4-05

Max. Marks: 20

Course Outcomes		
CO1: Explain the basic concept and evolution of artificial intelligence and intelligent agents		
CO2: Formulate a problem as a particular type such as defining a state space for a search problem		
CO3: Identify and distinguish problems that are amenable to solution by AI methods and which ai methods may be suited in solving a given problem		
CO4: Analyze and apply different machine learning algorithms according to the type of problem		
CO5: Explain pattern recognition techniques and apply them for solving parametric and non-parametric problems		
Section A(3*1)- Compulsory		
Question No.		COs
1	a. What is Natural Language Understanding?	CO5
	b. Write 2 applications of NLP.	CO5
	c. Write 2 characteristics of Expert System.	CO5
Section B (3*3)- Attempt any three		
2	Explain the components of knowledge-based agents with the help of a diagram.	CO3
3	Differentiate supervised and unsupervised learning with the help of an example.	CO4
4	Explain the phases of NLP with the help of a diagram.	CO5
5	What is Artificial Neural Network? Also explain its architecture.	CO4
6	Explain AI knowledge cycle with the help of a diagram.	CO3
Section C (2*4)- Attempt any two		
7	What are logical connectives? Write the truth table for all the logical connectives.	CO3
8	What is an inference rule? Write the truth table for the following mentioned rules i. Modus Ponens ii. Modus Tollens iii. Hypothetical Syllogism iv. Disjunctive Syllogism	CO3
9	Explain in detail the categories of Machine Learning algorithm with appropriate examples.	CO4


(200. Screen marked)



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B K Birla Institute of Engineering & Technology (BKBIET)-PILANI

Branch: Information Technology (IT)

Year & Semester: II Year IV Sem

Subject: Java Practical Lab

Subject Code: 4IT4-24

List of Practical (2020-21)

Practical-1 - Simple Programs without classes and objects, methods

- a) Write a Program to print the text "Welcome to World of Java". Save it with name Welcome.java in your folder.
- b) Write a java Program to check the number is Prime or not.
- c) Write a java Program to generate a Ladder of number.

Practical -2 - Program based on the concepts of classes and objects, constructor, parameterized constructor

- a) Write a program to create a class Student with data 'name, city and age' along with method print Data to display the data. Create the two objects s1, s2 to declare and access the values Client Browser
- b) Write a program to create a class Student2 along with two method getData(),printData() to get the value through argument and display the data in printData. Create the two objects s1, s2 to declare and access the values from
- c) WAP using parameterized constructor with two parameters id and name. While creating the objects obj1 and obj2 passed two arguments so that this constructor gets invoked after creation of obj1 and obj2.

Practical-3 - Program based on Method overloading, constructor overloading

- a) Write a program in JAVA to demonstrate the method and constructor overloading.
- b) Write a program in JAVA to create a class Bird also declares the different parameterized constructor to display the name of Birds.
- c) Write code for servlet that will save the entered details as a new record in database table Employee with fields (EmpId, EName, Email, Age).

Practical-4 - Program based on Single level & Multi level inheritance

- a) Java program to illustrate the concept of single inheritance
- b) A Simple Java program to demonstrate method overriding in java



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Practical-5 - Program based on Abstract Classes, Interface

- a) Write a program in java to generate an abstract class A also class B inherits the class A. generate the object for class B and display the text "call me from B".
- b) Write a java program in which you will declare two interface sum and add inherits these interfaces through class A1 and display their content.
- c) Write a java program in which you will declare an abstract class Vehicle inherits this class from two classes car and truck using the method engine in both display "car has good engine" and "truck has bad engine".

Practical -6- Program based on Array

- a) Write a Java Program to finds the average of numbers in an array.
- b) Write a Java Program to finds addition of two matrices.

Practical-7 - Program based on Exception handling

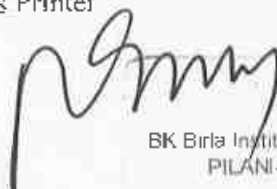
- a) Write a program in java if number is less than 10 and greater than 50 it generates the exception out of range. Else it displays the square of number.
- b) Write a program in java to enter the number through command line argument if first and second number is not entered it will generate the exception. Also divide the first number with second number and generate the arithmetic exception.
- c) Write a program in java to enter the number through command line argument if first and second number using the method divides the first number with second and generate the exception.

Practical -8 - Program based on Package

- a) Write a program in java by import the packagename.
- b) Write a program in java by import package.classname
- c) Write a program in java by import fully qualified name

Practical-9 - Program based on Multithreading

- a) Write a java program in which thread sleep for 6 sec in the loop in reverse order from 5 to 1 and change the name of thread.
- b) Write a java program for multithread in which user thread and thread started from main method invoked at a time each thread sleep for 1 sec.
- c) Write a java program for to solve producer consumer problem in which a producer produces a value and consumer consume the value before producer generate the next value.
- d) Write a java program for to solve printer synchronization problem in which all the jobs must be completed in order. class Printer



Practical-10 - Program based on Applet I/O& File Handling

- a) Write a java program to create a file and write the text in it and save
- b) Write a java program to read a file and display the content on screen.
- c) Write a java program to create a folder
- d) Write a java program to rename a file
- e) Write a java program in which data is read from one file and should be written in another file.name of both file is given through command line arguments.
- f) Write a java program in which data is read from one file and should be written in another file line by line.
- g) Write a java program to draw Oval, Rectangle, Line and fill the color in it.and display it on Applet

Dy. S. S. S.
→
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B K Birla Institute of Engineering & Technology (BKBIET)-PILANI

Branch: Information Technology (IT)

Year & Semester: III Year V Sem

Subject: Advance Java Practical Lab

Subject Code: SIT4-24

List of Practical (2021-22)

Practical-1

- a) Registration Servlet to get the values from registration.html
- b) Write a Login servlet. Take input username and password from html file login.html and authenticate the user. Write the web.xml.
- c) Write a servlet program to implement Hit Count

Practical -2

- a) Write servlet which displayed following information of client.
- b) Client Browser
- c) Client IP address III. Client Port No
- d) Server Port No
- e) Local Port No
- f) Method used by client for form submission
- g) Query String name and values

Practical-3

- a) Design a form to input details of an employee and submit the data to a servlet.
- b) Write code for servlet that will save the entered details as a new record in database table Employee with fields (EmpId, EName, Email, Age).

Practical-4

- a) Write a Java Servlet to print BE Semester Mark sheet of entered enrolment number and semester no. by student using JDBC.

Practical-5

Write line(s) of code in JSP for following.

- a) Session read and write
- b) URL rewriting sending and retrieving parameter(s)

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- c) URL redirection
- d) Print "hello world" as output
- e) Include the other JSP file statically
- f) Expression to display date as output
- g) Method of setting the JSP parameters to use in JSTL

Practical -6

- a) Write a login.jsp page to get the login information from user and authenticate user with the database with JSTL SQL tags.

Practical-7

- a) Write a servlet that redirect requests alternatively to JSP Pages named Odd and Even.

Practical -8

- a) Develop JSP page to display student information with subjects for particular semester from database.

Practical-9

- a) Develop program to get all students data from database using hibernate. Write necessary xml files.

Practical-10

- a) Write a JDBC program for Callable Statement to retrieve percentage of student from procedure {get percentage} based on student enrollment number. Also create a procedure.


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Course Outcomes

CO1: To understand basic features, architecture and E-R model implementation in real world logic design applications of a database system.

CO2: To learn and implement the query structure of relational algebra, relational calculus and SQL to design a database system for engineering problems.

CO3: Able to map schemas on database using normalization & understand the internal data structure of DBMS.

CO4: To understand the basic concepts and applications of transaction processing


CO5: Able to learn concurrency rules, recovery methods and data extraction process using transaction theory to achieve the solutions of real world problems of DBMS.

Note: -Section-A is compulsory, attempt any three from Section-B and any two from Section-C

S. No.	Questions	CO	Bloom's Taxonomy Level
Section-A (4*1 Marks)			
Q.1 a.	Define schema refinement.	CO3	L1
b.	Define functional dependency	CO3	L1
c.	Define transaction	CO4	L1
d.	Define serializability	CO4	L1
Section-B (3*4 Marks)			
Q2.	Explain schema refinement with example.	CO3	L2
Q3.	Explain functional dependency with example.	CO3	L2
Q4.	Explain boyce-codd normal form with example.	CO3	L2
Q5.	Explain third normal form with example.	CO3	L2
Q6.	Explain decomposition into third normal form with example.	CO3	L2
Section-C (2*7 Marks)			
Q7.	Explain transaction properties with example.	CO4	L2
Q8.	Explain conflict vs view serializability with example.	CO4	L2
Q9.	Explain cascadeless schedules with example.	CO4	L2



Mr. Gopal Prasad



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

1st Sessional Exam, 2020-21

B. Tech- II Year IV Semester (Branch: CSE & IT)

Time: 2 Hrs.

Sub: DBMS (4IT4-05)

Max. Marks: 30

Course Outcomes
CO1: Be able to understand the scan conversion of mathematical objects like line, circle, ellipse and curve.
CO2: Be able to apply colour fill algorithms on user defined objects that are modelled using polygons
CO3: Be able to implement two dimensional transformation operation on user defined objects
CO4: Be able to implement three dimensional transformation operations on user defined objects
CO5: Be able to understand basic illumination model and colour models along with their suitable use

Q 1. Which one is the level of abstraction in DBMS

- A. External Level
- B. Conceptual Level
- C. Internal Level
- D. All of the above

CO1

Q.2 Naïve user exist at which level

- A. External level
- B. Conceptual level
- C. Internal level
- D. None of the above

CO1

Q.3 _____ Number of conceptual view exist for single database

- A. 1
- B. 2
- C. 3
- D. 4

CO1

Q.4 Which of the following is not the type of DBMS

- A. Hierarchical database
- B. Network database
- C. Relational database

D. Linear database

CO1

Q.5 Which of the following is the advantage of DBMS

A. Reducing data redundancy

B. Sharing of data

C. Data integrity

D. All of the above

CO1

Q.6 Which of the following is the disadvantage of DBMS

A. High cost

B. Complexity

C. Expert human resource requirement

D. All of the above

CO1

Q.7 Which statement is right regarding the database administrator

A. A person who has central control over the system is called database administrator.

B. A person who has no control over the system is called database administrator.

CO1

Q.8 Which of the following is/are function of DBA

A. Creation and modification of conceptual Schema definition

B. Implementation of storage structure and access method

C. Schema and physical organization modifications

D. All of the above

CO1

Q.9 Which of the following is/are types of SQL


A. DDL

B. DML

C. DCL

D. All of the above

CO1


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Q.10 Purpose of the Data Definition language?

- A. to define the database schema
- B. to manipulate the data
- C. to access the data
- D. All of the above

CO1

Q.11 Delete command is categorized in SQL type?

- A. DDL
- B. DML
- C. DCL
- D. TCL

CO1

Q.12 Which statement is right related to the Key

- A. A key is a set of one or more attributes, which is used to uniquely identification with in a table
- B. A key is a set of one attribute, which is used to uniquely identification with in a table
- C. A key is a set of two or more attributes, which is used to uniquely identification with in a table
- D. None of the above

CO1

Q.13 Which statement is right for the Super key

- A. Super Key is defined as an attribute or set of attributes within a table that uniquely identifies each record within a table.
- B. Super Key is a superset of Candidate key
- C. Both A and B
- D. None of the above

CO1

Q.14 Which statement is right for the candidate key

- A. The minimal set of attribute which can uniquely identify a tuple
- B. Candidate key is the subset of the super key
- C. Both A and B
- D. None of the above

CO1



Q.15. Which statement is right for the primary key

- A. Primary key is a candidate key that is most appropriate to become main key of the table
 - B. It is subset of the candidate key
 - C. Both A and B**
 - D. None of the above
- CO1

Q.16 Which statement is right for the alternate key

- A. Out of all candidate keys, only one gets selected as primary key, remaining keys are known as alternate or secondary keys
 - B. Alternate keys are those candidate keys which are not the Primary key
 - C. Both A and B**
 - D. None of the above
- CO1

Q.17 Which of the following gives a logical structure of the database graphically?

- A) Entity-relationship diagram**
 - B) Entity diagram
 - C) Database diagram
 - D) Architectural representation
- CO1

Q.18 The entity relationship set is represented in E-R diagram as

- A) Double diamonds
 - B) Undivided rectangles
 - C) Dashed lines
 - D) Diamond**
- CO1

Q.19 An entity set that does not have sufficient attributes to form a primary key is termed as _____

- a) Strong entity set
 - b) Weak entity set**
 - c) Both A and B
 - d) None of the above
- CO1



Q.20 Weak entity set is represented as

- A) Underline
- B) Double line
- C) Double diamond
- D) Double rectangle**

CO1

Q.21 Which statement is right for the entity

- A. An entity is a "thing" or "object" in the real world that is distinguishable from all other objects
- B. Entity in DBMS can be a real-world object with an existence
- C. Both A and B**
- D. None of the above

CO1

Q.22 Which one is not the type of entity set

- A. Strong entity set
- B. Weak entity set
- C. Low entity set**
- D. None of the above

CO1

Q.23 Which statement is right for the attribute

- A. An attribute is a property of an entity
- B. An attribute is a characteristic of an entity
- C. An attribute is represented in an elliptical shape
- D. All of the above**

CO1

Q.24 Which one is not the type of attribute

- A. Composite attribute
- B. Multivalued attribute
- C. Derived attribute
- D. Extended attribute**

CO1



Q.25 Which statement is right related to composite attribute

- A. **A composite attribute can be subdivided into smaller parts**
- B. A composite attribute cannot be subdivided into smaller parts
- C. Both A and B
- D. None of the above

CO1

Q.26 Which statement is right related to single valued attribute

- A. **Can have only single value**
- B. can have two values
- C. Can have three values
- D. Can have four values

CO1

Q.27 Relationship set is represented by _____

- A. Rectangle
- B. ellipse
- C. **Diamond**
- D. Double rectangle

CO1

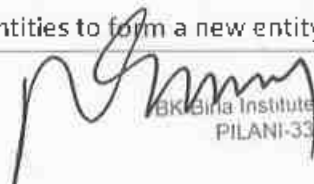
Q.28 Which statement is right related to cardinality

- A. **A relationship's cardinality defines the maximum number of entities of one type that can be associated with an entity of another type**
- B. A relationship's cardinality defines the minimum number of entities of one type that can be associated with an entity of another type
- C. Both A and B
- D. None of the above

CO1

Q.29 Which statement is right related to generalization

- A. **Generalization extracts the common features of multiple entities to form a new entity**
- B. Generalization add the features of multiple entities to form a new entity

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C. Both A and B

D. None of the above

CO1

Q.30 Which statement is right related to specialization

A. Specialization splits an entity to form multiple new entities that inherit some feature of the splitting entity

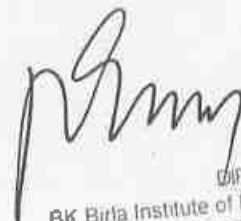
B. Specialization merge an entity to form multiple new entities that inherit some feature of the splitting entity

C. Both A and B

D. None of the above

CO1


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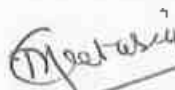
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Second Sessional Exam 2022

B.Tech- III Year VI Semester (Branch: IT)

Time: 2 Hrs Sub: Ecommerce & ERP(6115-13) Max. Marks: 20

CO1: Understand the basic concepts and technologies used in the field of E-Commerce and analyze the impact of ecommerce business models and strategy.		
CO2: Have the knowledge of the different types of E commerce activities.		
CO3: Understand the use of Internet in developing E commerce facilities.		
CO4: Understanding the use of portals and online publishing and advertising in ecommerce		
CO5: Have the knowledge and understanding the use of XML and E-marketing tools and strategies.		
Section-A is Compulsory . Attempt any three from Section-B & two from section C		
Section-A(4*1)		
Question No.	Question	CO
Q1	a). What is E-Marketing. b). What are cookies. c). What is Metadata.	CO5 CO3 CO4
Section-B(3*3)		
Q2	Explain in detail strategic capabilities of internet?	CO3
Q3	What is Data warehouse? Explain various types of Data warehouses	CO5
Q4	What is online publishing? Write strategies and approaches of online publishing.	CO4
Q5	Write short note on: a). WWW b). Shopping cart	CO4, CO3
Q6	What is portal? What are advantages of portal.	CO4
Section-C(2*3.5)		
Q7	Explain the different steps involved in the development E-commerce website.	CO3
Q8	What is XML.? What are the advantages and disadvantages of XML.? Explain structure of XML document.	CO5
Q9	What is Online marketing? What are advantages of Online marketing.	CO5


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First Sessional Exam 2022

B.Tech- III Year VI Semester (Branch: IT)

Time: 2 Hrs Sub: Ecommerce & ERP(GIT5-13) Max. Marks: 20

CO1: Understand the basic concepts and technologies used in the field of E-Commerce and analyze the impact of ecommerce business models and strategy.		
CO2: Have the knowledge of the different types of E commerce activities.		
CO3: Understand the use of Internet in developing E commerce facilities.		
CO4: Understanding the use of portals and online publishing and advertising in ecommerce		
CO5: Have the knowledge and understanding the use of XML and E-marketing tools and strategies.		
Section-A is Compulsory . Attempt any three from Section-B & two from section C		
Section-A(3*1)		
Question No.	Question	CO
Q1	a). What is Ecommerce. b). Define digital or e cash. c). What are benefits of Ecommerce.	CO1 CO1 CO1
Section-B(3*3)		
Q2	Explain various activities of E-Commerce.	CO2
Q3	What are the advantages and disadvantages of E-Commerce?	CO1
Q4	What are the elements and resources impacting Ecommerce?	CO2
Q5	Explain broad goals of Ecommerce.	CO1
Q6	Explain process management and service management.	CO1
Section-C(2*3.5)		
Q7	Explain all E-Business models.	CO1
Q8	Explain different types of e-commerce with respect to customers and vendors	CO2
Q9	What are the steps to design and develop Ecommerce website.	CO2

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Course Outcomes

CO1: Know the Essential components of the computer and working hardware device.

CO2: Design the algorithms and flowcharts for the problems.

CO3: Understand the fundamentals of C programming.

CO4: Use suitable data structure and logic for problem-solving.

S. No.	Questions
Section-A (4*1 Marks)	
Q.1	(a). Explain the following: (i) Switch statement (ii) strlen() function. CO3
	(b). What is an array? How array can be declared in C? CO4
	(c). Write a program in C to find the sum of digits of a given number using function.CO3
	(d). What is Array? CO4
Section-B (4*3 Marks)	
Q2.	Explain the following looping statements with example: (a) for (b) while (c) do-while CO3
Q3.	Explain call by value and call by reference with suitable example. CO4
Q4.	Explain the concept of 1-D and 2-D array in C. Write a C program to perform addition of two matrices.CO4
Q5.	Write a program in C to find the factorial of any given number using function.CO4
Q6.	Write a program in C to reverse a given string.CO4
Section-C (7*2 Marks)	
Q7.	Write a C program to perform multiplication of two matricesCO4.
Q8.	What is a function in C? Explain different types of functions with example. CO4
Q9.	Explain the following string manipulation functions in C with example:CO4 (i) strcmp () (ii) strcat () (iii) strcpy () (iv)strupr ()

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Course Outcomes
CO1: Know the Essential components of the computer and working hardware device.
CO2: Design the algorithms and flowcharts for the problems.
CO3: Understand the fundamentals of C programming.
CO4: Use suitable data structure and logic for problem-solving.

S. No.	Questions	
Section-A (4*1 Marks)		
Q.1	(a). Explain the concept of break and strlen().	CO4
	(b). What is an array? How array can be declared in C?	CO4
	(c). Write a program in C to find the sum of digits of a given number using function.	CO3
	(d). What is pointer in C?	CO4
Section-B (4*3 Marks)		
Q2.	Explain the following looping statements: (a) for (b) while (c) do-while	CO3
Q3.	Explain call by value and call by reference with suitable example.	CO4
Q4.	Explain the concept of 1-D and 2-D array in C. Write a C program to perform addition of two matrices.CO3	
Q5.	Write a program in C to find the factorial of any given number using function.CO3	
Q6.	Write a program in C to reverse a given string.CO3	
Section-C (7*2 Marks)		
Q7.	Write a C program to perform multiplication of two matrices.CO3	
Q8.	What is function? Explain different types of functions with example.CO4	
Q9.	What is string? Explain different string functions in C with example.CO4	

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(Mr. Manoj Kataria)



Course Outcomes
CO1: Know the Essential components of the computer and working hardware device.
CO2: Design the algorithms and flowcharts for the problems.
CO3: Understand the fundamentals of C programming.
CO4: Use suitable data structure and logic for problem-solving.

S. No.	Questions	
Section-A (4*1 Marks)		
Q.1 a.	Find the binary equivalent of $(75.68)_{10} = (?)_2$	CO2
b.	Convert $(342.671)_8$ to decimal $(?)_{10}$ form.	CO2
c.	Explain the sizeof operator with a program.	CO3
d.	What is the difference between character constants and string constants?	CO1
Section-B (3*4 Marks)		
Q2.	Subtract using 2's complement method: (a) $(49-25)_{10}$ (b) $(33-57)_{10}$	CO2
Q3.	What is the difference between: (a). compiler and interpreter (b). primary memory and secondary memory	CO1
Q4.	Explain the structure of a C program.	CO1
Q5.	Explain Increment and decrement operators with a C program.	CO3
Q6.	Explain implicit and explicit type conversion with a C program.	CO3
Section-C (2*7 Marks)		
Q7.	Convert the following: (a). $(56A3.69)_{16} - (?)_{10} - (?)_8$ (b). $(732.16)_8 - (?)_2 = (?)_{16}$	CO2
Q8.	Write the pseudocode and also draw the flowchart to find the average of 'N' numbers.	CO1
Q9.	Solve the given expression: (a). $a\%6-b/2+(c*d-5)/e-f$ (b). $a*b-c/d<e+f$ When $a=8, b=4, c=2, d=1, e=5, f=20$	CO3

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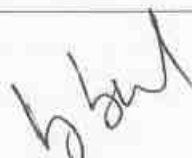
2022-23 3IT4-06: Linux and Shell Programming Assignment and CO Mapping

Assignment based on sessional-1

Assignment		CO
Q1	Explain the Linux file system Architecture with a diagram.	CO1
Q2	Explain the following commands: cat, cp, mv, who, grep, head, tail, umask etc.	CO1
Q3	What is permission? How we can apply permissions for File.	CO2
Q4	Explain different types of shells.	CO2
Q5	Explain system calls in Linux.	CO3

Assignment based on sessional-2

Assignment		CO
Q1	Explain directory stack manipulation.	CO3
Q2	Explain conditional and looping statements with examples.	CO4
Q3	Explain functions and aliases in Linux.	CO4
Q4	Explain compiling and linking C programs in Linux.	CO5
Q5	Explain the following: RCS and CVS.	CO5


(Mr. Sanjeev Sultania)




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4IT4-06-Theory of Computation

Assignment and CO Mapping

Session – 2021-22

Assignment based on Sessional-I

Assignment		CO
Q1	Find out the outcomes of following Operation: a) $a^* b (a b)^+$	CO1
Q2	Find out the outcomes of following Operation: a) $(a^*)^* b (a b^*)^+$	CO1
Q3	Convert following Grammar into FA: $A \rightarrow 0B \quad B \rightarrow 1C \mid 0 \quad C \rightarrow 1$	CO4
Q4	Design a FA Corresponds to following regular expression: $(a b)^* bc$.	CO4
Q5	Convert Following NFA to DFA: 	CO4


 (Mr. Pradeep Shekhawat)



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Assignment based on Sessional-II

	Assignment	CO
Q1	Consider the following grammar: $E \rightarrow E+E \mid E-E \mid E^*E \mid a \mid b \mid c \mid d$ Generate the Left-most derivation tree for input string $a^*b^*c^*d$	CO3
Q2	Consider the following grammar: $E \rightarrow E+E \mid E-E \mid E^*E \mid a \mid b \mid c \mid d$ Generate the Right-most derivation tree for input string $a^*b^*c^*d$.	CO3
Q3	Simplify the following Grammar by removing unwanted Symbol: $S \rightarrow aAa, A \rightarrow Sb \mid bCC \mid DaA, C \rightarrow abb \mid DD, E \rightarrow aC, D \rightarrow aDA$	CO2
Q4	Normalize the following Grammar into CNF: $A \rightarrow 0B \mid 1C \mid 0$ $B \rightarrow 1A \mid 0$ $C \rightarrow 1$	CO2
Q5	Identify whether the following grammar is context free or not $A \rightarrow aBC, aBC \rightarrow d \mid f, f \rightarrow g$	CO5


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Improvement Sessional Exam, 2021-22

B. Tech- III Year VI Semester (Branch: IT)

Time: 2 Hrs.


Sub: Computer Architecture and Organization (6IT4-04) Max. Marks: 30

Course Outcomes
CO1: Explaining the basic of computer architecture- classification, Basic computer data types and representation, micro-operations, Registers, Instructions, instruction cycle and design of basic computer.
CO2: Apply the basic concept of Assembly Language and understand Micro programmed control.
CO3: Outlining the organization of CPU, concept of instruction and arithmetic pipeline, vector processing including the RISC/CISC Architecture.
CO4: Checking how computer perform arithmetic operation. Demonstrate the basic knowledge of I/O mechanism, interfacing of I/O device with computer.
CO5: Identify the concept of memory organization and multiprocessors.


Note: -Section-A is compulsory. attempt any three from Section-B and any two from Section-C

S. No.	Questions	CO
	Section-A (4*1 Marks)	
Q.1 a.	Perform following conversion: 1) $(11110100)_2 = (?)_{10}$ 2) $(128)_{10} = (?)_2$	CO1
b.	Consider 8-bit binary no: 00101110 and perform the Logical Left shift, and Logical right shift micro-operation.	CO1
c.	Write a name of basic computer registers.	CO1
d.	What is Register Transfer Language?	CO1
	Section-B (3*4 Marks)	
Q2.	Draw and explain 4-bit Binary Adder- Subtractor.	CO1
Q3.	Explain Instruction pipeline.	CO3
Q4.	Explain Address sequencing in Control memory.	CO2
Q5.	Explain General Register organization of CPU.	

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Q6.	What is addressing mode? Explain Register Direct and Register Indirect addressing mode with example.	CO3
Section-C (2*7 Marks)		
Q7.	What is Multiprocessor? Explain Inter-processor Arbitration	CO5
Q8.	Explain Booth Algorithm with example and flowchart.	CO4
Q9.	Explain Daisy Chaining and Parallel priority interrupt.	CO4


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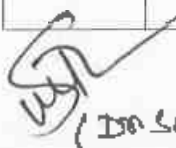


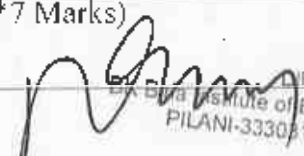
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Course Outcomes
CO1: Explaining the basic of computer architecture- classification, Basic computer data types and representation, micro-operations, Registers, Instructions, instruction cycle and design of basic computer.
CO2: Apply the basic concept of Assembly Language and understand Micro programmed control.
CO3: Outlining the organization of CPU, concept of instruction and arithmetic pipeline, vector processing including the RISC/CISC Architecture.
CO4: Checking how computer perform arithmetic operation. Demonstrate the basic knowledge of I/O mechanism, interfacing of I/O device with computer.
CO5: Identify the concept of memory organization and multiprocessors.

Note: -Section-A is compulsory, attempt any three from Section-B and any two from Section-C

S. No.	Questions	CO
Section-A (4*1 Marks)		
Q.1 a.	What is the basic operation of cache memory?	CO5
b.	What is virtual memory?	CO5
c.	Define multiprocessor system.	CO5
d.	What is the use of associative memory?	CO5
Section-B (3*4 Marks)		
Q2.	Explain Booth Algorithm with Example and flowchart.	CO4
Q3.	How floating-point addition and subtraction implemented by digital system? Explain with example and flowchart.	CO4
Q4.	Explain Restoring division algorithm with example. Also draw flowchart.	CO4
Q5.	What is input/output interface? Explain CPU-IOP Communication.	CO4
Q6.	What are the I/O modes of transfer? Explain DMA Transfer.	CO4
Section-C (2*7 Marks)		CO4


(Dr. Saroj Kumar Mittal)


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Q7.	Explain mapping procedure (Direct, Associative and Set- Associative) with respect to cache memory organization.	CO5
Q8.	What is Address sequencing? Explain selection of address for control memory.	CO5
Q9.	Explain Interconnection structure of multi- processor: a) Multiport memory and b) Crossbar switch.	CO5



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Course Outcomes
CO1: Explaining the basic of computer architecture- classification, Basic computer data types and representation, micro-operations, Registers, Instructions, instruction cycle and design of basic computer.
CO2: Apply the basic concept of Assembly Language and understand Micro programmed control.
CO3: Outlining the organization of CPU, concept of instruction and arithmetic pipeline, vector processing including the RISC/CISC Architecture.
CO4: Checking how computer perform arithmetic operation. Demonstrate the basic knowledge of I/O mechanism, interfacing of I/O device with computer.
CO5: Identify the concept of memory organization and multiprocessors.

Note: -Section-A is compulsory, attempt any three from Section-B and any two from Section-C

S. No.	Questions	CO
Section-A (4*1 Marks)		
Q.1 a.	Perform following conversion: 1) $(10010100)_2 = (?)_{10}$ 2) $(256)_{10} = (?)_2$	CO1
b.	Consider 8-bit binary no: 11101110 and perform the Arithmetic Left shift, and Logical right shift micro-operation.	CO1
c.	Write a name of basic computer registers.	CO1
d.	What is Register Transfer Language?	CO1
Section-B (3*4 Marks)		
Q2.	Draw and explain 4-bit Binary Adder.	CO1
Q3.	Explain Flynn's classification.	CO3
Q4.	What is control memory? Explain Address sequencing in Control memory.	CO2
Q5.	What are the component of CPU? Explain Register Stack organization of CPU.	CO3

JSR
(Dr. Sonam Mittal)

[Signature]
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Q6.	What is addressing mode? Explain Direct and Indirect addressing mode with example.	CO3
Section-C (2*7 Marks)		
Q7.	What is Multiprocessor? Explain Time shared common bus and Multiport memory interconnection architecture.	CO5
Q8.	Explain Booth Algorithm with example and flowchart.	CO4
Q9.	Explain and DMA controller DMA transfer.	CO4



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**Guidelines for New Scheme for Undergraduate****B. Tech. Courses in Engineering & Technology 2021-22 and Onwards****1. Definition of Credit:****Table: 1.1**

1 Hour Lecture (L) per week	1 Credit
1 Hour Tutorial (T) per week	1 Credit
1 Hour Practical (P) per week	0.5 Credit

2. General rules for Credits:

- Total 168 credits will be required to earn by a student to be eligible to get Undergraduate Degree in Engineering & Technology.
- Total 126 credits (i.e. 168-42) will be required for a student to be eligible to get Undergraduate Degree in Engineering & Technology admitted through Lateral Entry (LEEP) in 2022-23 and onward.
- A student will be eligible to get B. Tech. Degree with Specialization/minor, if he/she secures additional 18-20 credits. These 18-20 credits could be acquired through offline courses designed by University and MOOCs.
- The structure of the degree will be as follows:

Table: 2.1

Degree	Required Credits
B. Tech.	168*
B. Tech. with Specialization/Minor	168+ (18 to 20) (Through offline courses and MOOCs)

* for LEEP students 126 credits are required

3. Structure of Undergraduate Engineering & Technology Program:**Table: 3.1**

S. No.	Category	Abbreviation	Code	Break-up of Credits
1.	University Core (Basic Sciences)	UCB	1	22
2.	University Core (Engineering Sciences)	UCE	2	20
3.	University Core (Humanities, Social Sciences and Management)	UCH	3	06
4.	Departmental Core	DC	4	81
5.	Departmental Elective	DE	5	08

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Page 1

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6.	University Elective	UE	6	06
7.	University Independent (UI) (Project Work, Internship, Seminar)	UI	7	17
8.	University General Elective -Co-Curricular Activities	CCA	8	08
9.	Mandatory Course (Induction Training, Essence of Indian Traditional Knowledge and Constitution of India)	TKC	9	Non-Credit
10.	Total Credits Required for B. Tech. Degree			168
11.	Offline Courses/ MOOCs (for Specialization/ Minor)		0	18-20
12.	Total Credits Required for Award of B. Tech. Degree with Specialization/ Minor	On Acquiring 18 to 20 Credits.		168+(18 to 20) = 186 to 188

4. Definition of Course Code:

$$\langle N_1 \rangle \langle XX \rangle \langle N_2 \rangle \langle - \rangle \langle YY \rangle$$

- (i) N_1 : "Semester Code" in numeric single digit, i.e. 1 to 8.
- (ii) XX : "Branch Code" in two digit alphabets as per the Table: 4.1
- (iii) N_2 : 0-9: "Category Code" in single digit (as per the above table available in point no.3)
- (iv) $\langle - \rangle$: Symbol dash.
- (v) YY : "Course Number" in two digit numeric as per the Table: 4.2

Table: 4.1

S. No.	UG-Branch	Code (XX)
1.	First Year	FY
2.	Aeronautical Engineering	AR
3.	Agriculture Engineering	AG
4.	Artificial Intelligence	AI
5.	Artificial Intelligence & Data Science	AD
6.	Artificial Intelligence & Machine Learning	AM
7.	Automobile Engineering	AE
8.	Bio- Medical Engineering	BE
9.	Bio-Technology	BT
10.	Civil Engineering	CE
11.	Chemical Engineering	CH

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12.	Ceramic Engineering	CR
13.	Computer Science & Engineering	CS
14.	Computer Science & Engineering (Artificial Intelligence)	CA
15.	Computer Science & Engineering (Artificial Intelligence & Machine Learning)	CM
16.	Computer Science & Engineering (Data Science)	CD
17.	Data Science	DS
18.	Electronics & Communication Engineering	EC
19.	Energy & Environmental Engineering	EN
20.	Electrical Engineering	EE
21.	Electrical & Electronics Engineering	EX
22.	Electronics Inst.& Control Engineering	EI
23.	Food Technology	FT
24.	Information Technology	IT
25.	Industrial Engineering	IE
26.	Internet of Things	IO
27.	Machine Learning & Computing	MC
28.	Mechanical Engineering	ME
29.	Mechatronics	MX
30.	Petroleum Engineering	PE
31.	Production and Industrial Engineering	PI
32.	Smart Agritech	SA
33.	Textile Chemistry	TC
34.	Textile Engineering	TE
35.	Textile Technology	TT
36.	Applied Electronics & Inst. Engineering	AX
37.	Mining Engineering	MI
38.	Nanotechnology	NT
39.	Petrochemical Engineering	PC
40.	Energy Technology	ET

Table: 4.2

S. No.	Course Detail	Course No. (YY)
1.	CCA	00
2.	All Theory Courses (in a Semester) except Elective Courses	01-10
3.	Department Elective	11-19
4.	Lab/Practical/Design Courses in a Semester	20-29
5.	Training	30

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6.	Seminar	40
7.	Project	50
8.	University Elective	60
9.	MOOCs/Offline Courses (For Specialization/ Minor)	70 Onward

5. Semester wise credit system:

Table: 5.1

S. No.	Semester	Credits		Total Credits
		Course	CCA	
1.	I	21	00	21
2.	II	21	00	21
3.	III	24	01	25
4.	IV	24	01	25
5.	V	25	01	26
6.	VI	22	02	24
7.	VII	14	01	15
8.	VIII	09	02	11
Total		160	08	168

6. Mandatory Trainings (Internship):

Table: 6.1

S. No.	Duration of Training	Mode of Training	After	Exam Semester	Credits
1.	15 Days	In-House/Industry	1 Year (II Semester)	III	1*
2.	45 Days	In-House/Industry	II Year (IV Semester)	V	3
3.	45 Days	Industry Only	III Year (VI Semester)	VII	3
Total					7

Dates of Training shall be notified in University's academic calendar.

*The Lateral Entry (LEEP) students may complete their Soft skill part time training, which will be decided at Institute level during III semester.

Credit Distribution of Project/Seminar/Industrial Training (UI):

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Page 4

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Table: 6.2

UI**	Credits			Total Credits
	Project	Seminar	Training	
	08	02	07	17

**Teaching load of 1/2/3 Hrs. may be considered for Industrial Training/Seminar/Project in the respective semesters.

7. I Semester (First Year): Common to all branches of UG Engineering & Technology

Table: 7.1

S. No.	Category	Credit
1.	Theory	15
2.	Practical	06
3.	CCA	00
	Total	21

Table: 7.2

S. No.	Category	Course Code	Course Title	Hours			Marks			Credit
				L	T	P	IA	ETE	Total	
1	UCB	1FY1-01	Engineering Mathematics-I	3	1	-	30	70	100	4
2	UCB	1FY1-02 / 1FY1-03	Engineering Physics/ Engineering Chemistry	3	-	-	30	70	100	3
3	UCH	1FY3-04 / 1FY3-05	Communication Skills/ Managerial Economics and Financial Accounting	2	-	-	30	70	100	2
4	UCB	1FY2-06 / 1FY2-07	Introduction to Built Environment/ Basic Electrical Engineering	3	-	-	30	70	100	3
5	UCE	1FY2-08 / 1FY2-09	Computer Fundamentals & Programming/ Elements of Mechanical Engineering	3	-	-	30	70	100	3
6	UCB	1FY1-20 / 1FY1-21	Engineering Physics Lab/ Engineering Chemistry Lab	-	-	2	60	40	100	1
7	UCH	1FY3-22 / 1FY3-23	Communication Skill Lab/ Technical Communication Lab	-	-	2	60	40	100	1
8	UCE	1FY2-24 / 1FY2-25	Computer Programming Lab/Mechanical Workshop Practice	-	-	3	60	40	100	1.5
9	UCE	1FY2-26 / 1FY2-27	Built Environment Practices/ Basic Electrical Engineering Lab	-	-	2	60	40	100	1
10	UCE	1FY2-28	Engineering Visualization	-	-	3	60	40	100	1.5
Total									1000	21

L = Lecture, T = Tutorial, P = Practical, IA = Internal Assessment, ETE = End Term Exam, Cr = Credits

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8. II Semester (First Year): Common to all branches of UG Engineering & Technology

Table: 8.1

S. No.	Category	Credit
1.	Theory	15
2.	Practical	06
3.	CCA	00
	Total	21

Table: 8.2

S. No.	Category	Course Code	Course Title	Hours			Marks			Credit
				L	T	P	IA	ETE	Total	
1	UCB	2FY1-01	Engineering Mathematics-II	3	1	-	30	70	100	4
2	UCB	2FY1-03 / 2FY1-02	Engineering Chemistry/ Engineering Physics	3	-	-	30	70	100	3
3	UCH	2FY3-05 / 2FY3-04	Managerial Economics and Financial Accounting / Communication Skills	2	-	-	30	70	100	2
4	UCE	2FY2-07 / 2FY2-06	Basic Electrical Engineering / Introduction to Built Environment	3	-	-	30	70	100	3
5	UCE	2FY2-09 / 2FY2-08	Elements of Mechanical Engineering/Computer Fundamentals & Programming	3	-	-	30	70	100	3
6	UCB	2FY1-21 / 2FY1-20	Engineering Chemistry Lab/ Engineering Physics Lab	-	-	2	60	40	100	1
7	UCH	2FY3-23 / 2FY3-22	Technical Communication Lab / Communication Skill Lab	-	-	2	60	40	100	1
8	UCE	2FY2-25 / 2FY2-24	Mechanical Workshop Practice / Computer Programming Lab	-	-	3	60	40	100	1.5
9	UCE	2FY2-27 / 2FY2-26	Basic Electrical Engineering Lab /Built Environment Practices	-	-	2	60	40	100	1
10	UCE	2FY2-29	Computer Aided Machine Drawing	-	-	3	60	40	100	1.5
Total									1000	21

L = Lecture, T = Tutorial, P = Practical, IA = Internal Assessment, ETE = End Term Exam, Cr = Credits

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9. Examination Scheme:

168 Credit - B. Tech. Degree

126 Credit – LEEP

There will be an Internal Assessment (IA) and End Term Examination (ETE) for all theory subjects

Distribution of Marks:

Table: 9.1

All Credit Theory Subjects	End-Term Exam (Time)	End-Term Exam (Marks)	Internal Assessment (Marks)
	3 Hours	70%	30%

Distribution of Marks for Practical Examination:

Table: 9.2

Practical	Internal	External
	60%	40%

For all Credit courses (Theory) the internal assessment component shall be further divided as under:

Table: 9.3

S. No.	Component of Internal Assessment	Marks (%)
1.	I Mid-Term Examination	10
2.	II Mid-Term Examination	10
3.	Surprise Class Test/ Open Book Test	10
Total		30

10. Pass Rules for B. Tech. (4 Yr. Program)

The result of a candidate will be worked out at the end of each Semester Examination. The absolute marks of a student (p_i) shall be converted into relative marks (x_i) on 100 point scale as below:

$$x_i = \frac{p_i}{p_{max}} \cdot q$$

where,

x_i = Converted relative marks of an individual student in a particular i^{th} subject/course (rounded off to next higher integer number).

p_i = Absolute percentage (%) of marks obtained by an individual student in the i^{th} subject/course.

p_{max} – It should be from range of highest absolute percentage of marks obtained in a subject, as per the following table:

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Table: 10.1

Range of Highest Percentage (%) marks obtained in a subject / paper exam by the student	p_{max} (%)
90-100	90
80-89	80
70-79	70
60-69	60
50-59	50
40-49	40

q = Highest equivalent relative marks taken for conversion purpose is as given below following table

Table: 10.2

Absolute Highest Marks obtained in a subject ($P_{absolute\ max}$)	Highest equivalent relative marks taken for conversion purpose (q) on 100 point scale
$P_{absolute\ max} \geq 75\%$	100
$60\% \leq P_{absolute\ max} < 75\%$	89
$40\% \leq P_{absolute\ max} < 60\%$	79
$P_{absolute\ max} < 40\%$	Not Considered for Conversion

The Grade and Grade Point shall be awarded to an individual student as under:

Table: 10.3

S. No.	Relative Marks (x_i)	Grade	Grade Points (g_i)
1.	$X_i \geq 90$	A ⁺⁺	10
2.	$85 \leq X_i < 90$	A ⁺	9.0
3.	$80 \leq X_i < 85$	A	8.5
4.	$75 \leq X_i < 80$	B ⁺	8.0
5.	$70 \leq X_i < 75$	B	7.5
6.	$65 \leq X_i < 70$	C ⁺	7.0
7.	$60 \leq X_i < 65$	C	6.5
8.	$55 \leq X_i < 60$	D ⁺	6.0
9.	$50 \leq X_i < 55$	D	5.5
10.	$45 \leq X_i < 50$	E ⁺	5.0
11.	$40 \leq X_i < 45$	E	4.0
12.	$X_i < 40$	F	0.0

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Page 8



- (i) For a Pass, candidate must obtain at least grade E for each theory and practical.
- (ii) If a student remains "Absent" or obtains "Zero" marks in any of external component of theory or practical, he/she will be awarded "F" grade, respectively and will be required to appear in the subsequent back examinations. "F" grade student while applying for back paper exam., may opt either of the following options :-
 - a) Wish to carry forward the previous marks of internal assessment.
 - b) Wish to improve the internal assessment too.
- (iii) No grace shall be awarded.
- (iv) Revaluation and copy view system will prevail as per existing examination regulations. However, change of grade point of individual candidate after the revaluation will be independent and shall not affect the grade point of other students.
- (v) For a back examinee the grade and grade point of a particular subject/paper shall be calculated on the basis of its appearance in present (appearing) examination.
- (vi) The result may include the absolute marks obtained by student in an individual subject with related grade. However, the mark-sheet will contained the Grade, SGPA and CGPA only along with the important related rules of CBCS system.

11. Semester wise SGPA:

$$SGPA = \frac{\sum_{i=1}^n c_i \cdot g_i}{\sum_{i=1}^n c_i}$$

Where,

c_i = Number of credits of the i^{th} course of a semester for which SGPA is to be calculated.

g_i = Grade points obtained in i^{th} course

$i = 1, 2, \dots, n$ represent the number of course in which a student is registered in the concerned semester.

12. Overall CGPA:

$$CGPA = \frac{\sum_{i=1}^m c_i \cdot g_i}{\sum_{i=1}^m c_i}$$

Where,

c_i = Number of credits of the i^{th} course of a semester.

g_i = Grade points obtained in i^{th} course. The Grade lower than "E" (i.e. grade point < 4.0) in a course shall not be taken into account.

$i = 1, 2, \dots, m$ represent the number of courses in which a student was registered and obtained a grade not lower than "E" up to that semester for which CGPA is to be calculated.

- (i) The SGPA/CGPA shall be awarded in each semester.

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Page 9

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- (ii) SGPA/CGPA shall be rounded off to two decimal digits on higher side.
- (iii) Final course merit will be decided on the basis of absolute marks obtained by an individual student considering relevant merit ordinance of the university. Revaluation result will be taken into account for deciding the merit of the students.
- (iv) Conversion of Percentage to CGPA.

Equivalent Percentage– 10 × CGPA

- (v) Award of Division: The division of the student shall be awarded in the following manner (subject to the passing of all the semester courses):

Table: 12.1

S. No.	CGPA	Award of Division
1.	$CGPA \geq 7.0$	1 st Division with Distinction
2.	$6.0 < CGPA < 7.0$	1 st Division
3.	$5.0 \leq CGPA < 6.0$	2 nd Division
4.	$4.0 \leq CGPA < 5.0$	Pass

- (vii) Maximum duration for the completion of course will be eight (8) years.

13. End Term Exam Theory Paper Pattern:

From the coming academic session 2021-22, the following question paper pattern is proposed for B. Tech. course:

Table: 13.1

Exam Duration	Parts*	No. of Questions (To be Attempted/ Options Given)	Maximum Marks
3 Hours	A	10/10	10×2=20
	B	5/7	5×4=20
	C	3/5	3×10=30

PART A: Short answer questions (up to 25 words).

PART B: Analytical/problem solving questions.

PART C: Descriptive/analytical/problem solving/design questions

Parts : Each part should have at least one question from every unit.

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TIME -TABLE

Improvement Examination - September, 2023

{II YEAR, IV SEMESTER}

TIMINGS: 3:00PM to 5:00PM

Date: 08/9/2023

DATE	ECE	EE	CSE	IT/AI/DS	ME
16/9/2023 (Saturday)	4EC4-01 Applied Electronics	4EE4-01 Electrical Machines-I	4CS1-01 Discrete Mathematics	4IT1-01/ 4AI1-01/ 4DS1-01 Discrete Mathematics Structure	4ME4-01 Theory of Machines-I
20/9/2023 (Wednesday)	4EC4-02 Microprocessor	4EE4-02 Generation of Electrical Power	4CS4-02 Microprocessor & Interfaces	4IT4-02/ 4AI4-02/ 4DS4-02 Microprocessor and Interfaces	4ME4-02 Fluid Mechanics
26/9/2023 (Tuesday)	4EC4-03 Analog Communication	4EE4-03 Electrical Circuit Analysis- II	4CS4-03 Theory of Computation	4IT4-03/ 4AI4-03/ 4DS4-03 Theory of Computation	4ME4-03 Internal Combustion Engines & Gas Turbines
29/9/2023 (Friday)	4EC4-04 EFT	4EE4-04 Electrical Machine Design	4CS4-04 Database Management System	4IT4-04/ 4AI4-04/ 4DS4-04 Database Management Systems	4ME4-04 Industrial Engineering
03/10/2023 (Tuesday)	4EC4-05 Data Structures & Algorithms	4EE4-05 Computer Programming	4CS4-05 Introduction to Python Programming	4IT4-05/ 4AI4-05/ 4DS4-05 Introduction to Python Programming	4ME4-05 Manufacturing Technology-I
05/10/2023 (Thursday)	4EC3-06 Advance Engineering Mathematics-II	4EE3-06 Advanced Engineering Mathematics-II	4CS4-06 Introduction to Java Programming	4IT4-06/ 4AI4-06/ 4DS1-06 Introduction to Java Programming	4ME2-01 Advanced Engineering Mathematics

(Examination Incharge)


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 BK Birla Institute of Engineering & Technology
 PILANI-333031 (Rajasthan) INDIA

(Principal)

TIME -TABLE

**Improvement Examination September, 2023
(I YEAR, II SEMESTER)**

TIMINGS: 3:00PM to 5:00PM

DATE: 8th Sep, 2023

DATE	COURSE CODE	SUBJECTS
15/9/2023 (Friday)	2FY1-01	Engineering Mathematics-II
18/9/2023 (Monday)	2FY1-02/ 2FY1-03	Engineering Physics /Engineering Chemistry
22/9/2023 (Friday)	2FY3-04 / 2FY3-05	Communication Skills/Managerial Economics & Financial Accounting
27/9/2023 (Wednesday)	2FY2-06 / 2FY2-07	Introduction to Built ^{Env} / Basic Electrical Engineering
30/9/2023 (Saturday)	2FY2-08 / 2FY2-09	Computer Fundamentals & Programming / Elements of Mechanical Engineering


(Examination Incharge)


(Principal)


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B.K Birla Institute of Engineering & Technology
PILANI-333031 (Rajasthan) INDIA

TIME -TABLE

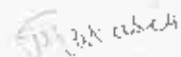
II-Sessional Examination August, 2023(Revised)


(II YEAR, IV SEMESTER)


TIMINGS: 3:00PM to 5:00PM

Date: 07/8/2023

DATE	ECE	EE	CSE	IT/AI/DS	ME
14/8/2023 (Monday)	4EC4-01 Applied Electronics ✓	4EE4-01 Electrical Machines-II ✓	4CS1-01 Discrete Mathematics ✓	4IT1-01/ 4AI1-01/ 4DS1-01 Discrete Mathematics Structure ✓	4ME4-01 Theory of Machines-I ✓
16/8/2023 (Wednesday)	4EC4-02 Microprocessor ✓	4EE4-02 Generation of Electrical Power ✓	4CS4-02 Microprocessor & Interfaces ✓	4IT4-02/ 4AI4-02/ 4DS4-02 Microprocessor and Interfaces ✓	4ME4-02 Fluid Mechanics ✓
17/8/2023 (Thursday)	4EC4-03 Analog Communication ✓	4EE4-03 Electrical Circuit Analysis- II ✓	4CS4-03 Theory of Computation ✓	4IT4-03/ 4AI4-03/ 4DS4-03 Theory of Computation ✓	4ME4-03 Internal Combustion Engines & Gas Turbines ✓
18/8/2023 (Friday)	4EC4-04 EFT ✓	4EE4-04 Electrical Machine Design ✓	4CS4-04 Database Management System ✓	4IT4-04/ 4AI4-04/ 4DS4-04 Database Management Systems ✓	4ME4-04 Industrial Engineering ✓
19/8/2023 (Saturday)	4EC4-05 Data Structures & Algorithms ✓	4EE4-05 Computer Programming ✓	4CS4-05 Introduction to Python Programming ✓	4IT4-05/ 4AI4-05/ 4DS4-05 Introduction to Python Programming ✓	4ME4-05 Manufacturing Technology-I ✓
21/8/2023 (Monday)	4EC4-06 Advance Engineering Mathematics ✓	4EE3-06 Advanced Engineering Mathematics-II ✓	4CS4-06 Introduction to Java Programming ✓	4IT4-06/ 4AI4-06/ 4DS4-06 Introduction to Java Programming ✓	4ME2-01 Advanced Engineering Mathematics ✓


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BK Birla Institute of Engineering & Technology
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TIME -TABLE

II-Sessional Examination August 2023 (Revised)

(III YEAR, VI SEMESTER)

TIMINGS: 3:00 PM to 5:00 PM

Date: 07/8/2023

DATE	ECE	EE	CSE	IT	AI	ME
14/8/2023 (Monday)	6EC3-01 Power Electronics ✓ 2	6EE3-01 Computer Architecture ✓ 2	6CS3-01 Digital image Processing ✓ 2 ✓	6IT3-01 Digital image Processing ✓ 2	6AI3-01 Digital Image Processing ✓ 2	6ME3-01 Introduction to Robotics ✓ 2
16/8/2023 (Wednesday)	6EC4-02 Computer Network ✓	6EE4-02 Power System-II ✓	6CS4-02 Machine Learning ✓ 2 ✓	6IT4-02 Machine Learning ✓ 2	6AI4-02 Natural Language Processing ✓	6ME4-02 CAD ✓
17/8/2023 (Thursday)	6EC4-03 Fiber Optics Communication ✓	6EE4-03 Power System Protection ✓	6CS4-03 Information Security System ✓ 2 ✓	6IT4-03 Information Security System ✓ 2	6AI4-03 Analysis of Algorithms ✓	6ME4-03 Mechanical Vibrations ✓
18/8/2023 (Friday)	6EC4-04 Antennas & Propagation ✓	6EE4-04 Electrical Energy conversion and Auditing ✓	6CS4-04 Computer Architecture & Organization ✓ 2 ✓	6IT4-04 Computer Architecture & Organization ✓	6AI4-04 Soft Computing ✓	6ME4-04 Process Machine Flowchart ✓
19/8/2023 (Saturday)	6EC4-05 Information Theory Coding ✓	6EE4-05 Electric Drives ✓	6CS4-05 Artificial Intelligence ✓ 2 ✓	6IT4-05 Artificial Intelligence ✓ 2	6AI4-05 Operating Systems ✓	6ME4-05 Quality Management ✓
21/8/2023 (Monday)	6EC5-11 Introduction to MEMS ✓ 6EC5-15 Human Values ✓	6EE5-11 Power System Planning ✓	6CS5-13 Ecommerce and ERP ✓ 6CS5-11 Distributed System ✓ 2	6IT5-13 Ecommerce and ERP ✓ 6IT5-12 Cloud Computing ✓ 2	6AI5-13 Big Data Analytics ✓	6ME5-13 Quality Management ✓
22/8/2023 (Tuesday)			6CS4-06 Cloud Computing	6IT4-06 Distributed System		

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(Date)

B. K. BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY, PILANI (RAJ.)

TIME -TABLE


**II-Sessional Examination August, 2023
(I YEAR, II SEMESTER)**

TIMINGS: 9:30AM to 11:30AM

DATE: 27th July, 2023

DATE	COURSE CODE	SUBJECTS
14/8/2023 (Monday)	2FY1-01	Engineering Mathematics-I ✓
16/8/2023 (Wednesday)	2FY1-02/ 2FY1-03	Engineering Physics /Engineering Chemistry ✓
17/8/2023 (Thursday)	2FY3-04 / 2FY3-05	Communication Skills/Managerial Economics & Financial Accounting ✓
18/8/2023 (Friday)	2FY2-06 / 2FY2-07	Introduction to Built Envi / Basic Electrical Engineering ✓
19/8/2023 (Saturday)	2FY2-08 / 2FY2-09	Computer Fundamentals & Programming / Elements of Mechanical Engineering ✓


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BK Birla Institute of Engineering & Technology
PILANI-333031 (Rajasthan) INDIA

NOTICE

Date: 03-08-2023

B.K.BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY, PILANI (RAJ.)

All the faculty members taking 1 Year II-Semester classes are requested to submit soft copy of II-Sessional examination paper to undersigned upto 10-8-2023 in the exam cell or mail at exams.cell@bkbiet.ac.in.

Branch	Subject Code & Name	Faculty name	Signature
CS-II	1FY1-01 Engineering Mathematics-I	Dr. Vikas Tailor	
	1FY1-02 Engineering Physics	Dr. Rashmi Jangid	
	1FY3-04 Communication Skills	Dr. Manusmriti Sharma	
	1FY2-09 Elements of Mechanical Engineering	Mr. Chitranjan Kumar	
	1FY2-06 Introduction to Built Environment	Dr. Hesibur Rahman/ Dr. S. M. Prasanna Kumar	
CSE(DS)	1FY1-01 Engineering Mathematics-I	Dr. Anupama Sharma	
	1FY1-02 Engineering Physics	Dr. Rashmi Jangid/ Dr. Krishna	
	1FY3-04 Communication Skills	Dr. Manusmriti Sharma	
	1FY2-09 Elements of Mechanical Engineering	Mr. Chitranjan Kumar	
	1FY2-06 Introduction to Built Environment	Mr. Gaurav Sabu / Dr. S. M. Prasanna Kumar	
CS-I	1FY1-01 Engineering Mathematics-I	Dr. Vipin Kumar	
	1FY1-02 Engineering Physics	Dr. Rashmi Jangid	
	1FY3-04 Communication Skills	Dr. Manusmriti Sharma	
	1FY2-09 Elements of Mechanical Engineering	Mr. Chitranjan Kumar	
	1FY2-06 Introduction to Built Environment	Mr. Chitranjan Kumar/ Dr. S. M. Prasanna Kumar	
EC	1FY1-01 Engineering Mathematics-I	Dr. Vikas Tailor	
	1FY1-03 Engineering Chemistry	Dr. Y. K. Gupta	
	1FY3-05 Managerial Eco.& Financial Acc.	Mr. Reetesh Gautam	
	1FY2-08 Computer Fundamentals & Prog.	Mr. Gopal Krishna Prajapat	
	1FY2-07 Basic Electrical Engineering	Dr. Santosh Jangid/ Dr. Nishant Kumar	
EE+IT	2FY1-01 Engineering Mathematics-2	Dr. Anupama Sharma	
	2FY1-03 Engineering Chemistry	Dr. Y. K. Gupta	
	2FY3-05 Managerial Eco. & Financial Acc.	Mr. Reetesh Gautam	
	2FY2-08 Computer Fundamentals & Prog.	Mr. Jitender Kumar	
	2FY2-07 Basic Electrical Engineering	Dr. Santosh Jangid/ Dr. Nishant Kumar	
AI	1FY1-01 Engineering Mathematics-I	Dr. Vipin Kumar	
	1FY1-03 Engineering Chemistry	Dr. Y. K. Gupta	
	1FY3-05 Managerial Eco. & Financial Acc.	Mr. Reetesh Gautam	
	1FY2-08 Computer Fundamentals & Prog.	Mr. Anil Kumar Datta	
	1FY2-07 Basic Electrical Engineering	Dr. Santosh Jangid/ Dr. Nishant Kumar	

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BK Birla Institute of Engineering & Technology
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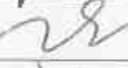
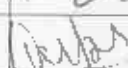
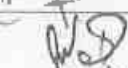







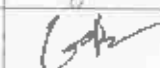


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NOTICE

Date :28/07/2023

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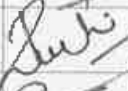




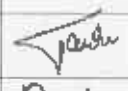
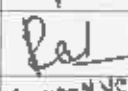
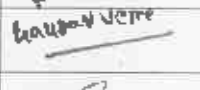






All the faculty members taking II Year (IV) semester classes are requested to submit soft copy of II-Sessional examination paper on or before 03-08-2023 in the exam cell or mail at exams.cell@bkbiet.ac.in

Branch	Subject Code & Name	Faculty name	Signature
EE	4EE4-01 Electrical Machines-II	Mr. R S Shekhawat	
	4EE4-02 Generation of Electrical Power	Dr. Smita Pareek	
	4EE4-03 Electrical Circuit Analysis-II	Dr. Vikas Poonia	
	4EE4-04 Electrical Machine Design	Mr. Vikas Kumar	
	4EE4-05 Computer Programming	Mrs. Ruchi Sharma	
	4EE4-06 Advanced Engineering Mathematics-II	Dr Vikas Tailor	
IT/DS/AI	4IT4-01/ 4A14-01/ 4DS4-01 Discrete Mathematics Structure	Dr. Vipin Kumar	
	4IT4-02/ 4A14-02/ 4DS4-02 Microprocessor and Interfaces	Dr. Rahul Purohit	
	4IT4-03/ 4A14-03/ 4DS4-03 Theory of Computation	Mr. Pradeep S. Shekhawat	
	4IT4-04/ 4A14-04/ 4DS4-04 Database Management Systems	Mr. Nachiket Sainis	
	4IT4-05/ 4A14-05/ 4DS4-05 Introduction to Python Programming	Mr. Vipin Sarzogi	
	4IT4-06/ 4A14-06/ 4DS4-06 Introduction to Java Programming	Mr. Manoj Kataria	
CS-I	4CS4-01 Discrete Mathematics	Dr. Vikas Tailor	
	4CS4-02 Microprocessor & Interfaces	Mr. Sanjay Kumar Saini	
	4CS4-03 Theory of Computation	Mr. Himanshu Verma	
	4CS4-04 Database Management System	Mr. Gopal Krishan Prajapat	
	4CS4-05 Introduction to Python Programming	Mr. Gauram Jungir	
	4CS4-06 Introduction to Java Programming	Mr. Manoj Kataria	




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PILANI-333031 (Rajasthan) INDIA

	Subject Code & Name	Faculty Name	Signature
CS-II	4CS1-01 Discrete Mathematics	Dr. Anupama Sharma	
	4CS4-02 Microprocessor & Interfaces	Mr. Sanjay Kumar Saini	
	4CS4-03 Theory of Computation	Mrs. Ruchi Sharma	
	4CS4-04 Database Management System	Mr. Gautam Jangir	
	4CS4-05 Introduction to Python Programming	Mr. Ramakant Soni	
	4CS4-06 Introduction to Java Programming	Mr. Pradeep Singh Shekhawat	
EC	4EC4-01 Applied Electronics	Dr. Santosh Jangid	
	4EC4-02 Microprocessor	Dr. Anil Sharma	
	4EC4-03 Analog Communication	Mr. Gaurav Sahu	
	4EC4-04 EFT	Mr. Rahul Rauthala	
	4EC4-05 Data Structures & Algorithms	Dr. Gaurav Verma	
	4EC4-06 Advance Engineering Mathematics	Dr. Vikas Tailor	
ME	4ME4-01 Theory of Machines-I	Mr. Divesh Rohilla	
	4ME4-02 Fluid Mechanics	Mr. Chitranjan Kumar	
	4ME4-03 Internal Combustion Engines & Gas Turbines	Mr. Divesh Rohilla	
	4ME4-04 Industrial Engineering	Mr. D C Sharma	
	4ME4-05 Manufacturing Technology-I	Mr. Divesh Rohilla	
	4ME2-01 Advanced Engineering Mathematics	Mr. Vikas Tailor	


(Exam Incharge)


(Principal)


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BK Birla Institute of Engineering & Technology
PILANI-333031 (Rajasthan) INDIA

NOTICE

Date :28/07/2023

B.K.BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY, PILANI (RAJ.)

All the faculty members taking III Year (VI) semester classes are requested to submit soft copy of II-Sessional Examination paper on or before 03-08-2023 in the exam cell or mail at exams.cell@bkbiet.ac.in

Branch	Subject Code & Name	Faculty Name	Signature
E.E	6EE3-01 Computer Architecture	Dr. Smita Pareek	
	6EE4-02 Power System-II	Mr. Rajesh Singh Shekhawat	
	6EE4-03 Power System Protection	Mr. Anuj Sharma	
	6EE4-04 Electrical Energy Conversion and Auditing	Dr. Nishant Kumar	
	6EE4-05 Electric Drives	Mr. Vikas Kumar	
	6EE5-11 Power System Planning	Mr. Anuj Sharma	
EC	6EC3-01 Power Electronics	Dr. H. Rahman	
	6EC4-02 Computer Network	Mr. Gaurav Sahu	
	6EC4-03 Fiber Optics Communication	Dr. Rahul Vivek Purohit	
	6EC4-04 Antennas & Propagation	Dr. H. Rahman	
	6EC4-05 Information Theory Coding	Dr. Vikas Poonia	
	6EC5-11 Introduction to MEMS	Mr. Ramesh Jangir	
6EC5-15 Human Values	Mr. Keshav Khandelwal		
CS-I	6CS3-01 Digital Image Processing	Dr. Gaurav Verma	
	6CS4-02 Machine Learning	Dr. Abhishek Pandey	
	6CS4-03 Information Security System	Mr. Himanshu Verma	
	6CS4-04 Computer Architecture & Organization	Dr. Sonam Mittal	
	6CS4-05 Artificial Intelligence	Dr. Nimish Kumar	
	6CS5-13 E-commerce and ERP	Mr. Dharensh Matolia	
	6CS5-11 Distributed Systems	Mr. Manoj Kumar Saini	
	6CS4-06 Cloud Computing	Mr. Vipin Sarangi	

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BK Birla Institute of Engineering & Technology
PILANI-333031 (Rajasthan) INDIA

Branch	Subject Code & Name	Faculty Name	Signature
CS-II	6CS3-01 Digital Image Processing	Dr. Abhishek Pandey	
	6CS4-02 Machine Learning	Mr. Ranakant Soni	
	6CS4-03 Information Security System	Dr. Nimish Kumar	
	6CS4-04 Computer Architecture & Organization	Mrs. Reena Saini	
	6CS4-05 Artificial Intelligence	Dr. Sonam Mittal	
	6CS5-13 Ecommerce and ERP	Mr. Dhaneesh Matolia	
	6CS4-06 Cloud Computing	Mrs. Reena Saini	
IT	6IT3-01 Digital Image Processing	Dr. Gaurav Verma	
	6IT4-02 Machine Learning	Dr. Abhishek Pandey	
	6IT4-03 Information Security System	Mr. Himanshu Verma	
	6IT4-04 Computer Architecture & Organization	Dr. Sonam Mittal	
	6IT4-05 Artificial Intelligence	Dr. Nimish Kumar	
	6IT5-13 Ecommerce and ERP	Mr. Dhaneesh Matolia	
	6IT5-12 Cloud Computing	Mr. Vipin Saraogi	
6IT4-06 Distributed System	Mr. Manoj Kumar Saini		
AI	6AI3-01 Digital Image Processing	Mr. Rahul Ranthana	
	6AI4-02 Natural Language Processing	Mr. Sanjeev Sultania	
	6AI4-03 Analysis of Algorithms	Mrs. Ruchi Sharma	
	6AI4-04 Soft Computing	Mr. Sanjeev Sultania	
	6AI4-05 Operating Systems	Mr. Manoj Kumar Saini	
	6AI5-13 Big Data Analytics	Mr. Neehika Saini	
ME	6ME3-01 Measurement and Metrology	Mr. D. C. Sharma	
	6ME4-02 CIMS	Mr. Chitrajag Kumar	
	6ME4-03 Mechanical Vibrations	Mr. Divesh Rohilla	
	6ME4-04 Design of Machine Elements-II	Mr. D. C. Sharma	
	6ME4-05 Quality Management	Mr. Divesh Rohilla	
	6ME5-12 Non Conventional Machining Methods	Mr. Divesh Rohilla	

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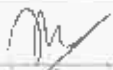
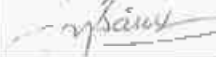
(Principal)

NOTICE

Date :03/06/2023

B.K.BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY, PILANI (RAJ.)

All the faculty members taking IV Year (VIII) semester classes are requested to submit soft copy of II-Sessional Examination paper to the undersigned upto 08-06-2023 in the exam cell or mail at exams.cell@bkbiet.ac.in ^{10:30 am onwards} _{29/7/2023}

Branch	Subject Code & Name	Faculty name	Signature
EE	8EE4-11 HVDC Transmission system	Mr. Anuj Sharma	
	8AG6-60.1 Energy Management	Mrs. Monika Shekhawat	
EC	8EC5-12 Digital Image & Video Processing	Mr. Ramesh Jangir	
	8TT6-60.2 Disaster Management	Mr. Keshav Khandelwal	
ME	8ME5-11 Hybrid & Electric vehicles	Mr. Chitranshu Kumar	
	8TT6-60.2 Disaster Management	Mr. D. C. Sharma	
IT	8IT4-01 Internet of Things	Mr. Himanshu Verma	
	8TT6-60.2 Disaster Management	Mr. Dhanesh Matolia	
CS-I	8CS4-01 Big Data Analytics	Mr. Nachiket Sainis	
	8TT6-60.2 Disaster Management	Mr. Dhanesh Matolia	
CS-II	8CS4-01 Big Data Analytics	Dr. Nimish Kumar	
	8TT6-60.2 Disaster Management	Mr. Manoj Kumar Saini	


(Exam Incharge)


(Principal)

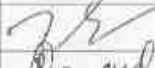
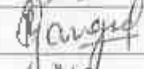


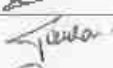

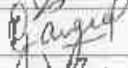


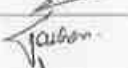
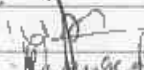
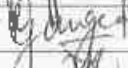









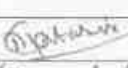

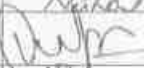



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BK Birla Institute of Engineering & Technology
PILANI-333031 (Rajasthan) INDIA

NOTICE


Date: 02-5-2023

B.K.BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY, PILANI (RAJ.)

All the faculty members taking I Year I-Semester classes are requested to submit soft copy of Improvement examination paper to undersigned upto 15-5-2023 in the exam cell or mail at exams.cell@bkbiet.ac.in.

Branch	Subject Code & Name	Faculty name	Signature
EE+IT	IFY1-01 Engineering Mathematics-I	Dr. Vikas Tailor	
	IFY1-02 Engineering Physics	Dr. Rashmi Jangid	
	IFY3-04 Communication Skills	Dr. Manusmriti Sharma	
	IFY2-09 Elements of Mechanical Engineering	Dr. Shilpesh Rajpurohit	
	IFY2-06 Introduction to Built Environment	Mr. Gaurav Sahu / Dr. Hasibur Rahman	
EC	IFY1-01 Engineering Mathematics-I	Dr. Anupama Sharma	
	IFY1-02 Engineering Physics	Dr. Rashmi Jangid	
	IFY3-04 Communication Skills	Dr. Manusmriti Sharma	
	IFY2-09 Elements of Mechanical Engineering	Dr. Shilpesh Rajpurohit	
	IFY2-06 Introduction to Built Environment	Mr. Gaurav Sahu / Dr. S. M. Prasanna Kumar	
AI	IFY1-01 Engineering Mathematics-I	Dr. Vipin Kumar	
	IFY1-02 Engineering Physics	Dr. Rashmi Jangid	
	IFY3-04 Communication Skills	Dr. Manusmriti Sharma	
	IFY2-09 Elements of Mechanical Engineering	Mr. Chitranjan Kumar	
	IFY2-06 Introduction to Built Environment	Dr. Hasibur Rahman/ Dr. S. M. Prasanna Kumar	
CS-I	IFY1-01 Engineering Mathematics-I	Dr. Vikas Tailor	
	IFY1-03 Engineering Chemistry	Dr. Y. K. Gupta	
	IFY3-05 Managerial Eco. & Financial Acc.	Dr. Anjali Sharma	
	IFY2-08 Computer Fundamentals & Prog.	Mr. Gopal Krishan Prajapat	
	IFY2-07 Basic Electrical Engineering	Mr. Rajesh Singh Shekhawat	
CS-II	IFY1-01 Engineering Mathematics-I	Dr. Anupama Sharma	
	IFY1-03 Engineering Chemistry	Dr. Y. K. Gupta	
	IFY3-05 Managerial Eco. & Financial Acc.	Dr. Anjali Sharma	
	IFY2-08 Computer Fundamentals & Prog.	Mr. Manoj Kataria	
	IFY2-07 Basic Electrical Engineering	Mrs. Monika Shekhawat	
CSE/DSI	IFY1-01 Engineering Mathematics-I	Dr. Vipin Kumar	
	IFY1-03 Engineering Chemistry	Dr. Y. K. Gupta	
	IFY3-05 Managerial Eco. & Financial Acc.	Dr. Anjali Sharma	
	IFY2-08 Computer Fundamentals & Prog.	Mr. Alexander Kumar	
	IFY2-07 Basic Electrical Engineering	Mr. Rajesh Singh Shekhawat	


(Exam In-charge)


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B.K.BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY, PILANI (RAJ.)

TIME - TABLE

I-Sessional Examination April, 2023

(IV YEAR, VIII SEMESTER)


TIMINGS: 9:00AM to 11:00AM

Date: 17/04/2023

DATE	ECE	EE	CSE	IT	ME
28/4/2023 (Friday)	8EC5-12 Digital Image & Video Processing ✓	8EE4-11 HVDC Transmission system ✓	8CS4-01 Big Data Analytics ✓ ✓	8IT4-01 Internet of Things ✓	8ME5-11 Hybrid & Electric vehicles ✓
29/4/2023 (Saturday)	8TT6-60.2 Disaster Management ✓	8AG6-60.1 Energy Management ✓	8TT6-60.2 Disaster Management ✓	8TT6-60.2 Disaster Management ✓	8TT6-60.2 Disaster Management

(Examination in charge)

(Principal)











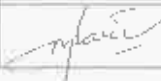

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PILANI-333031 (Rajasthan) INDIA

NOTICE

Date :20/04/2023

B.K.BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY, PILANI (RAJ.)

All the faculty members taking **IV Year (VIII) semester** classes are requested to submit soft copy of **I-Sessional Examination** paper to the undersigned upto **26-04-2023** in the exam cell or mail at exams.cell@bkbiet.ac.in

Branch	Subject Code & Name	Faculty name	Signature
EE	8EE4-11 HVDC Transmission system	Mr. Anuj Sharma	
	8AG6-60.1 Energy Management	Mrs. Monika Shekhawat	
EC	8EC5-12 Digital Image & Video Processing	Mr. Ramesh Jangir	
	8TT6-60.2 Disaster Management	Mr. Keshav Khandelwal	
ME	8ME5-11 Hybrid & Electric vehicles	Mr. Chitranjan Kumar	
	8TT6-60.2 Disaster Management	Mr. D. C. Sharma	
IT	8IT4-01 Internet of Things	Mr. Himanshu Verma	
	8IT6-60.2 Disaster Management	Mr. Dhanesh Matolia	
CS-I	8CS4-01 Big Data Analytics	Mr. Nachiket Sainis	
	8TT6-60.2 Disaster Management	Mr. Dhanesh Matolia	
CS-II	8CS4-01 Big Data Analytics	Dr. Ninish Kumar	
	8TT6-60.2 Disaster Management	Mr. Manoj Kumar Saini	


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PILANI-333031 (Rajasthan) INDIA









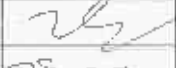

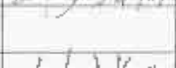




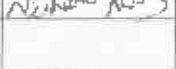




(Principal)


NOTICE

Date: 20-04-2023

B.K.BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY, PILANI (RAJ.)

All the faculty members taking I Year-II-Semester classes are requested to submit soft copy of I-Sessional examination paper to undersigned upto 28-4-2023 in the exam cell or mail at exams.cell@bkbiet.ac.in.

Branch	Subject Code & Name	Faculty name	Signature
CS-II	IPY1-01 Engineering Mathematics-I	Dr. Vikas Tailor	
	IPY1-02 Engineering Physics	Dr. Rashmi Jangid	
	IPY3-04 Communication Skills	Dr. Manusmriti Sharma	
	IPY2-09 Elements of Mechanical Engineering	Mr. Chitranjan Kumar	
	IPY2-06 Introduction to Built Environment	Dr. Hasibur Rahmani/ Dr. S. M. Prasanna Kumar	
CSE(DS)	IPY1-01 Engineering Mathematics-I	Dr. Anupama Sharma	
	IPY1-02 Engineering Physics	Dr. Rashmi Jangid	
	IPY3-04 Communication Skills	Dr. Manusmriti Sharma	
	IPY2-09 Elements of Mechanical Engineering	Dr. Shilpesh Rajpurohit	
	IPY2-06 Introduction to Built Environment	Mr. Gaurav Sahu / Dr. S. M. Prasanna Kumar	
CS-I	IPY1-01 Engineering Mathematics-I	Dr. Vipin Kumar	
	IPY1-02 Engineering Physics	Dr. Rashmi Jangid	
	IPY3-04 Communication Skills	Dr. Manusmriti Sharma	
	IPY2-09 Elements of Mechanical Engineering	Dr. Shilpesh Rajpurohit	
	IPY2-06 Introduction to Built Environment	Mr. Chitranjan Kumar/ Dr. S. M. Prasanna Kumar	
EC	IPY1-01 Engineering Mathematics-I	Dr. Vikas Tailor	
	IPY1-03 Engineering Chemistry	Dr. Y. K. Gupta	
	IPY3-05 Managerial Eco.& Financial Acc.	Mr. Reetesh Gautam	
	IPY2-08 Computer Fundamentals & Prog.	Mr. Gopal Krishan Prajapat	
	IPY2-07 Basic Electrical Engineering	Dr. Santosh Jangid/ Mr. Nishant Kumar	
EE-IT	IPY1-01 Engineering Mathematics-I	Dr. Anupama Sharma	
	IPY1-03 Engineering Chemistry	Dr. Y. K. Gupta	
	IPY3-05 Managerial Eco. & Financial Acc.	Mr. Reetesh Gautam	
	IPY2-08 Computer Fundamentals & Prog.	Mr. Jitender Kumar	
	IPY2-07 Basic Electrical Engineering	Dr. Santosh Jangid/ Mr. Nishant Kumar	
AI	IPY1-01 Engineering Mathematics-I	Dr. Vipin Kumar	
	IPY1-03 Engineering Chemistry	Dr. Y. K. Gupta	
	IPY3-05 Managerial Eco. & Financial Acc.	Mr. Reetesh Gautam	
	IPY2-08 Computer Fundamentals & Prog.	Mr. Anil Kumar Datika	
	IPY2-07 Basic Electrical Engineering	Dr. Santosh Jangid/ Mr. Nishant Kumar	

(Exam Incharge)


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PILANI-333031 (Rajasthan) INDIA


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Date :17/04/2023








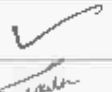

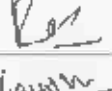








B.K.BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY, PILANI (RAJ.)

All the faculty members taking II Year (IV) semester classes are requested to submit soft copy of E-Sessional examination paper on or before 20-04-2023 in the exam cell or mail at exams.cell@bkbiet.ac.in

Branch	Subject Code & Name	Faculty name	Signature
EE	4EE4-01 Electrical Machines-II	Mr. R S Shekhawat	
	4EE4-02 Generation of Electrical Power	Dr. Smita Pareek	
	4EE4-03 Electrical Circuit Analysis-II	Dr. Vikas Poonia	
	4EE4-04 Electrical Machine Design	Mr. Vikas Kumar	
	4EE4-05 Computer Programming	Mrs. Ruchi Sharma	
	4EE4-06 Advanced Engineering Mathematics-II	Dr Vikas Tailor	
IT/DS/AI	4IT1-01/ 4AI1-01/ 4DS1-01 Discrete Mathematics Structure	Dr. Vipin Kumar	
	4IT4-02/ 4AI4-02/ 4DS4-02 Microprocessor and Interfaces	Dr. Rahul Purohit	
	4IT4-03/ 4AI4-03/ 4DS4-03 Theory of Computation	Mr. Pradeep S. Shekhawat	
	4IT4-04/ 4AI4-04/ 4DS4-04 Database Management Systems	Mr. Naehiket Saini's	
	4IT4-05/ 4AI4-05/ 4DS4-05 Introduction to Python Programming	Mr. Vipin Saraogi	
	4IT4-06/ 4AI4-06/ 4DS4-06 Introduction to Java Programming	Mr. Manoj Kataria	
CS-I	4CS1-01 Discrete Mathematics	Dr. Vikas Tailor	
	4CS4-02 Microprocessor & Interfaces	Mr. Sanjay Kumar Saini	
	4CS1-03 Theory of Computation	Mr. Himanshu Verma	
	4CS4-04 Database Management System	Mr. Gopal Krishan Prajapat	
	4CS4-05 Introduction to Python Programming	Mr. Gaullam Jengir	
	4CS4-06 Introduction to Java Programming	Mr. Manoj Kataria	


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	Subject Code & Name	Faculty Name	Signature
CS-II	4CS1-01 Discrete Mathematics	Dr. Anupama Sharma	
	4CS1-02 Microprocessor & Interfaces	Mr. Sanjay Kumar Saini	
	4CS4-03 Theory of Computation	Mrs. Ruchi Sharma	
	4CS4-04 Database Management System	Mr. Gauttam Jangir	
	4CS1-05 Introduction to Python Programming	Mr. Ramakant Soni	
	4CS1-06 Introduction to Java Programming	Mr. Pradeep Singh Shekhawat	
EC	4EC4-01 Applied Electronics	Dr. Santosh Jangid	
	4EC4-02 Microprocessor	Dr. Anil Sharma	
	4EC4-03 Analog Communication	Mr. Gaurav Saahu	
	4EC4-04 EFT	Mr. Rahul Runthala	
	4EC4-05 Data Structures & Algorithms	Dr. Gaurav Verma	
	4EC4-06 Advance Engineering Mathematics	Dr. Vikas Tailor	
ME	4ME4-01 Theory of Machines-I	Mr. Divesh Rohilla	
	4ME4-02 Fluid Mechanics	Mr. Chitranjan Kumar	
	4ME4-03 Internal Combustion Engines & Gas Turbines	Mr. Divesh Rohilla	
	4ME4-04 Industrial Engineering	Mr. D C Sharma	
	4ME4-05 Manufacturing Technology-I	Dr. Shilpesh Rajpurohit	
	4ME2-01 Advanced Engineering Mathematics	Mr. Vikas Tailor	


(Exam Incharge)


(Principal)

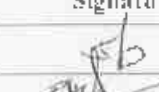

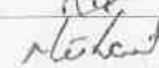








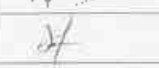





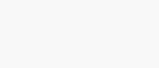
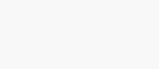
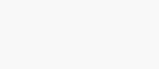

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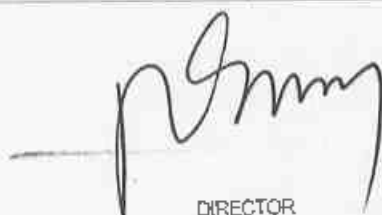
NOTICE

Date :17/04/2023

B.K.BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY, PILANI (RAJ.)

All the faculty members taking III Year (VI) semester classes are requested to submit soft copy of I-Sessional Examination paper on or before 20-04-2023 in the exam cell or mail at exams.cell@bkbiet.ac.in

Branch	Subject Code & Name	Faculty Name	Signature
EE	6EE3-01 Computer Architecture	Dr. Smita Pareek	
	6EE4-02 Power System-II	Mr. Rajesh Singh Shekhawat	
	6EE4-03 Power System Protection	Mr. Anuj Sharma	
	6EE4-04 Electrical Energy Conversion and Auditing	Mr. Nishant Kumar	
	6EE4-05 Electric Drives	Mr. Vikas Kumar	
	6EE5-11 Power System Planning	Mr. Anuj Sharma	
EC	6EC3-01 Power Electronics	Dr. H. Rahman	
	6EC4-02 Computer Network	Mr. Gautav Sahu	
	6EC4-03 Fiber Optics Communication	Dr. Rahul Vivek Purohit	
	6EC4-04 Antennas & Propagation	Dr. H. Rahman	
	6EC4-05 Information Theory Coding	Dr. Vikas Poonia	
	6EC5-11 Introduction to MFMS	Mr. Ramesh Jangir	
CS-I	6CS3-01 Digital Image Processing	Dr. Gaurav Verma	
	6CS4-02 Machine Learning	Dr. Abhishek Pandey	
	6CS4-03 Information Security System	Mr. Himanshu Verma	
	6CS4-04 Computer Architecture & Organization	Dr. Sonam Mittal	
	6CS4-05 Artificial Intelligence	Dr. Nirish Kumar	
	6CS5-13 Ecommerce and ERP	Mr. Dhanesh Matolia	
	6CS5-11 Distributed Systems	Mr. Manoj Kumar Saini	
	6CS4-06 Cloud Computing	Mr. Vipin Seraogi	



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PILANI-333031 (Rajasthan) INDIA

Branch	Subject Code & Name	Faculty Name	Signature
CS-II	6CS3-01 Digital Image Processing	Dr. Abhishek Pandey	
	6CS4-02 Machine Learning	Mr. Ramakant Soni	
	6CS4-03 Information Security System	Dr. Nimish Kumar	
	6CS4-04 Computer Architecture & Organization	Mrs. Reena Saini	
	6CS4-05 Artificial Intelligence	Dr. Sonam Mittal	
	6CS5-13 Ecommerce and ERP	Mr. Dhanesh Matolia	
	6CS4-06 Cloud Computing	Mrs. Reena Saini	
IT	6IT3-01 Digital Image Processing	Dr. Gaurav Verma	
	6IT4-02 Machine Learning	Dr. Abhishek Pandey	
	6IT4-03 Information Security System	Mr. Himanshu Verma	
	6IT4-04 Computer Architecture & Organization	Dr. Sonam Mittal	
	6IT4-05 Artificial Intelligence	Dr. Nimish Kumar	
	6IT5-13 Ecommerce and ERP	Mr. Dhanesh Matolia	
	6IT5-12 Cloud Computing	Mr. Vipin Saraogi	
6IT4-06 Distributed System	Mr. Manoj Kumar Saini		
AI	6AI3-01 Digital Image Processing	Mr. Rahul Runthala	
	6AI4-02 Natural Language Processing	Mr. Sanjeev Sultania	
	6AI4-03 Analysis of Algorithms	Mrs. Ruchi Sharma	
	6AI4-04 Soft Computing	Mr. Sanjeev Sultania	
	6AI4-05 Operating Systems	Mr. Manoj Kumar Saini	
	6AI5-13 Big Data Analytics	Mr. Nachiket Saini	
ME	6ME3-01 Measurement and Metrology	Mr. D. C. Sharma	
	6ME4-02 CIMS	Mr. Chitranjan Kumar	
	6ME4-03 Mechanical Vibrations	Mr. Divesh Rohilla	
	6ME4-04 Design of Machine Elements-I]	Mr. D. C. Sharma	
	6ME4-05 Quality Management	Mr. Divesh Rohilla	
	6ME5-12 Non Conventional Machining Methods	Dr. Shilpesh Rajpurohit	

(Exam Incharge)

DIRECTOR
BK Bina Institute of Engineering & Technology
PILANI-333031 (Rajasthan) INDIA

(Principal)

NOTICE

Date :28/02/2023

B.K.BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY, PILANI (RAJ.)

All the faculty members taking II Year III semester classes are requested to submit the soft copy of Improvement Examination question paper to the exam cell by email at exams.cell@bkbiet.ac.in on or before 4th March 2023.

Branch	Subject Code & Name	Faculty name	Signature
EE	3EE4-01: Electrical Ckt. Analysis-I	Mrs. Monika Shekhawat Dr. Nishant Kumar	Nishant Kumar
	3EE4-02: Electrical Machines-I	Mr. Vikas Kumar	Vikas Kumar
	3EE4-03: Electrical Measurement	Mr. Keshav Khandelwal	Keshav Khandelwal
	3EE4-04: Analog Electronics	Mr. Ramesh Jangir	Ramesh Jangir
	3EE4-05: Power System Instrumentation	Dr. Smita Pareek	Smita Pareek
	3EE3-06: Advanced Engg. Mathematics	Dr. Anupama Sharma	Anupama Sharma
IT/AI/DS	3IT/AI/CD 1-01: Advanced Engineering Mathematics	Dr. Anupama Sharma	Anupama Sharma
	3IT/AI/CD 4-02: Digital Electronics	Mr. Sanjay Saini	Sanjay Saini
	3IT/AI/CD 4-03 : Data Structures and Algorithm	Mrs. Ruchi Sharma	Ruchi Sharma
	3IT/AI/CD 4-04 :Object Oriented Programming Using C++	Mr. Vipin Saraogi	Vipin Saraogi
	3IT/AI/CD S4-05: Software Engineering	Mr. Dhanesh Matolia	Dhanesh Matolia
	3IT4-06: Linux & Shell Programming	Mr. Jitender Kumar	Jitender Kumar
	3AI4-06: Introduction to AI	Dr. Sonam Mittal	Sonam Mittal
3CD4-06: Introduction to Data Science	Dr. Aohishek Pandey	Aohishek Pandey	
CS-I	3CS1-01: Advanced Engineering Mathematics	Dr. Vipin Kumar	Vipin Kumar
	3CS4-02: Digital Electronics	Mr. Rahul Runthala	Rahul Runthala
	3CS4-03 : Data Structures and Algorithm	Dr. Nimish Kumar	Nimish Kumar
	3CS4-04 :Object Oriented Programming Using C++	Mr. Vipin Saraogi	Vipin Saraogi
	3CS4-05: Software Engineering	Mrs. Reena Saini	Reena Saini
	3CS4-06: Linux & Shell Programming	Dr. Sonam Mittal	Sonam Mittal



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PILANI-333031 (Rajasthan), INDIA

	Subject Code & Name	Faculty Name	Signature
CS-II	3CS1-01: Advanced Engineering Mathematics	Dr. Vikas Tailor	
	3CS1-02: Digital Electronics	Mr. Ramesh Jangir	
	3CS4-03: Data Structures and Algorithm	Mr. Manoj Kataria	
	3CS4-04: Object Oriented Programming Using C++	Mr. Pradeep Singh Shekhawat	
	3CS4-05: Software Engineering	Mrs. Reena Saini	
	3CS4-06: Linux & Shell Programming	Mr. Anil Datika	
EC	3EC4-01: Electronics Devices & Ckts.	Dr. Santosh Jangid	
	3EC4-02: Digital Electronics	Mr. Sanjay Kumar Saini	
	3EC4-03: Network Theory	Mr. Vikas Poonia	
	3EC4-04: Signal & Systems	Mr. Gaurav Sahu	
	3EC4-05: EMI	Mr. Keshav Khandelwal	
	3EC4-06: Advanced Engineering Mathematics -I	Dr. Anupama Sharma	
ME	3ME4-01: Engg. Thermodynamics	Dr. Shilpesh Rajpurohit	
	3ME4-02: Materials Engg. & Technology	Mr. Divesh Rohilla	
	3ME4-03: Manufacturing Processes	Mr. Divesh Rohilla	
	3ME4-04: Mechanics of Solids	Mr. Chitranjan Kumar	
	3ME4-05: Renewable energy Systems.	Mr. Chitranjan Kumar	
	3ME2-01: Engineering Mechanics	Mr. D. C. Sharma	

(Exam Incharge)

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BK Birla Institute of Engineering & Technology
PILANI-333031 (Rajasthan) INDIA

B.K.BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY, PILANI (RAJ.)

TIME -TABLE
IMPROVEMENT EXAMINATION-MARCH 2023
(II YEAR, III SEMESTER)

TIMINGS: 1ST Shift: 8.30 AM TO 10.30 AM

2ND Shift 11:30 AM TO 1:30 PM

Date: 28th Feb

DATE	ECE	EE	CSE	IT	AI	CSE(DS)
13/03/2023 (Monday) 1 st Shift	3EC3-06: Advanced Engg. Mathematics-I ✓	3EE3-06: Advanced Engg. Mathematics-I ✓	3CS1-01: Adv. Engg Mathematics ✓✓	3IT1-01: Adv. Engg Mathematics ✓	3AI1-01: Adv. Engg Mathematics ✓	3CD1-01 Adv. Engg Mathematics ✓
13/03/2023 (Monday) 2 nd Shift	3EC4-02: Digital Electronics ✓	3EE4-02: Electrical Machines-I ✓	3CS4-02: Digital Electronics ✓	3IT4-02: Digital Electronics ✓	3AI4-02: Digital Electronics ✓	3CD4-02: Digital Electronics ✓
14/03/2023 (Tuesday) 1 st Shift	3EC4-03: Network Theory ✓	3EE4-03: Electrical Measurement ✓	3CS4-03: Data Structure & Algorithms ✓	3IT4-03: Data Structure & Algorithms ✓	3AI4-03: Data Structure & Algorithms ✓	3CD4-03: Data Structure & Algorithms ✓
14/03/2023 (Tuesday) 2 nd Shift	3EC4-04: Signals & Systems ✓	3EE4-04: Analog Electronics ✓	3CS4-04: Object Oriented Programming Using C++ ✓✓	3IT4-04: Object Oriented Programming Using C++ ✓✓	3AI4-04: Object Oriented Programming Using C++ ✓	3CD4-04: Object Oriented Programming Using C++ ✓
15/03/2023 (Wednesday) 1 st Shift	3EC4-05: EMI ✓	3EE4-05: Power System Instrumentation ✓	3CS4-05: Software Engg ✓✓	3IT4-05: Software Engg ✓	3AI4-05: Software Engg ✓	3CD4-05: Software Engg ✓
15/03/2023 (Wednesday) 2 nd Shift	3EC4-01 Elec. Devices & Ckts. ✓	3EE4-01 Electrical Ckt. Analysis-I ✓	3CS4-06: Linux & Shell Programming ✓✓	3IT4-06: Linux & Shell Programming ✓	3AI4-06: Intro. To AI ✓	3CD1-06: Intro. To AI ✓

(Examination Incharge)


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BK Birla Institute of Engineering & Technology
PILANI-333031 (Rajasthan) INDIA

(Principal)

B.K.BIRLA INSTITUTE OF ENGINEERING & TECHNOLOGY, PILANI (RAJ.)

TIME-TABLE
IMPROVEMENT EXAMINATION-MARCH 2023
(III YEAR, V SEMESTER)

TIMINGS: 1ST Shift: 8.30 AM TO 10.30 AM

2ND Shift 11:30 AM TO 1:30 PM

Date: 28TH FEB, 2023

DATE/DAY	ECE	EE	CSE	IT	AI	Other
13/03/2023 (Monday) 1 st Shift	5EC3-01: Computer Architecture ✓	5EE3-01: Electrical Materials ✓	5CS3-01: Information Theory & Coding ✓	5IT3-01: Microprocessor & Interfaces ✓	5AI3-01: Mathematics & Statistics ✓	5MIS-01: Systems ✓
13/03/2023 (Monday) 2 nd Shift	5EC4-02: Electromagnetics Theory ✓	5EE4-02: Power System-I ✓	5CS4-02: Compiler Design ✓	5IT4-02: Compiler Design ✓	5AI4-02: Introduction to Machine Learning ✓	5MIS-02: Systems ✓
14/03/2023 (Tuesday) 1 st Shift	5EC4-03: Control System ✓	5EE4-03: Control System ✓	5CS4-03: Operating System ✓	5IT4-03: Operating System ✓	5AI4-03: Computer Architecture & Organization ✓	5MIS-03: Systems ✓
14/03/2023 (Tuesday) 2 nd Shift	5EC4-04: Digital Signal Processing ✓	5EE4-04: Microprocessor ✓	5CS4-04: Computer Graphics & Multimedia ✓	5IT4-04: Computer Graphics & Multimedia ✓	5AI4-04: Artificial Neural Networks ✓	5MIS-04: Systems ✓
15/03/2023 (Wednesday) 1 st Shift	5EC4-05: Microwave Theory & Techniques ✓	5EE4-05: Electrical Machine Design ✓	5CS4-05: Analysis of Algorithms ✓	5IT4-05: Analysis of Algorithms ✓	5AI4-05: Theory of Computation ✓	5MIS-05: Systems ✓
15/03/2023 (Wednesday) 2 nd Shift	5EC5-11: Biomedical Instrumentation ✓	5EE5-14: Understanding The Human Being Com. CHA & F ✓	5CS5-11: Wireless Communication ✓	5IT5-11: Wireless Communication ✓	5AI5-11: Advances in AI ✓	5MIS-12: Systems ✓
			5CS5-12: Human Computer Interaction ✓	5IT5-12: Software Testing and Project Management ✓	5AI5-12: Data Comm. & Computer Networks ✓	

(Examination Incharge)

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 BK Birla Institute of Engineering & Technology
 PILANI-333031 (Rajasthan) INDIA

(Principal)

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TIME -TABLE

II-Sessional Examination February, 2023
(I YEAR, I SEMESTER)

TIMINGS: 9:30AM to 11:30AM

DATE: 15th Feb, 2023

DATE	COURSE CODE	SUBJECTS
27/2/2023 (Monday)	1FY1-01	Engineering Mathematics-I AI, OS, CS-A, EC, CS-A, EE, IT
28/2/2023 (Tuesday)	1FY1-02 / 1FY1-03	Engineering Physics / Engineering Chemistry
01/3/2023 (Wednesday)	1FY3-04 / 1FY3-05	Communication Skills / Managerial Economics & Financial Accounting
02/3/2023 (Thursday)	1FY2-06 / 1FY1-07	Introduction to Built Env't / Basic Electrical Engineering
03/3/2023 (Friday)	1FY2-08 / 1FY2-09	Computer Fundamentals & Programming / Elements of Mechanical Engineering


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TIME -TABLE

IMPROVEMENT EXAMINATION-FEBRUARY 2023
(IV YEAR, VII SEMESTER)

WINGS: 1st Shift: 8:30 AM TO 10.30 AM

2nd Shift: 11:30 AM TO 1:30 PM

Date: 14TH FEB, 2023

DATE/DAY	ECE	EE	CSE	IT	ME
23/02/2023 (Friday) 1 st Shift	7EC-11 VLSI Design ✓	7EE5-11 Wind & Solar Energy System ✓	7CS4-01 IoT ✓	7IT4-01 Big Data Analytics ✓	7MES-11 I.C. Engines ✓
24/02/2023 (Friday) 2 nd Shift	7AG6-60.2 Envt. Engg ✓	7AG6-60.2 Environmental Engg. & Disaster Management	7CE6-60.2 Disaster Management	7CE6-60.2 Disaster Management	7AG6-60.2 Environmental Engg. & Disaster Management ✓

(Examination Incharge)



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