POORNIMA
COLLEGE OF ENGINEERING

Department of Advance Computing

CURRICULUM DELIVERY PLAN (CDP)
Odd Sem. 2023-24

ISI-6, RIICO Institutional Area, Sitapura, Jaipur-302022 (Rajasthan)
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1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of Continuous Internal Assessment (CIA)

PCE is affiliated to RTU, Kota and follows the planned and prescribed curriculum of University. The Internal Quality Assurance Cell (IQAC) of PCE takes the responsibility of monitoring the effective delivery of the curriculum through a well-planned and documented process. To ensure effective curriculum delivery, a Curriculum Delivery Plan (CDP) is prepared by all PAC's of the respective departments. A CDP includes detailed planning for preparation, verification, execution and adherence to all documents related to academic delivery of all courses. As per the directions received from IQAC, the Examination cell plans for the Continuous Internal Assessment. Examination cell then circulate CIA planning to the PAC. Examination cell sends all the CIE Data to Director's Office for the final approval before its submission to RTU. Detail outlines are as follows.

1. Director Office, PCE receives the curriculum from RTU, Kota through university website.
2. IQAC prepares institute academic calendar aligned with RTU academic calendar considering input received in last GC meeting and other stakeholders. IQAC forwards the Institute Academic Calendar to PAC (Program Assessment Committee) for identifying curriculum gaps and examination cell for CIE. PACs then prepares CDPs after consolidating the course specific planning received from the respective faculty members.
3. A CDP includes activities for gap abridgement which are proposed to be carried out by the faculty members.
4. IQAC also instructs PACs to prepare the department activity calendar. PACs receives approval of department activity calendars and CDPs from DABs before its final approval from IQAC.
5. IQAC also reviews the CDPs approved by DABs and gives suggestions/ approvals periodically. All the activities (SPL, Industrial visit, workshop etc.) planned are taken into consideration for the Department activity calendar after the approval from DABs.
6. Subject wise Course files are prepared by respective faculty, comprising of Syllabus, ABC analysis, Blown-Up, Deployment, Lecture notes, Zero Lecture, Tutorial and Assignment sheets, COs Statements, and Mapping with POs and PSOs.
7. Faculty frequently use ICT tools for more effective content delivery using PPTs, video lectures etc.
8. Student attendance is monitored by tutors and chief proctor office with help of SHARP ERP software. Attendance defaulters are regularly counseled through their tutors for improving their attendance.
9. Institute also conducts Annual Internal Academic Audit for the effectiveness of teaching-learning methodologies and the necessary actions are taken as suggested by the audit team.
10. Conferences, seminars, webinars, workshops, expert lectures, STTPs, and FDPs are organized throughout the year on the recent advances in the field of engineering.
11. Continuous Internal Assessment process includes Midterm exam, Tutorials, Assignments, Quizzes, presentation, Class Test, viva-voce etc.
12. As per the RTU examination scheme, mid semester examinations are conducted centrally by examination cell as per the planning & academic calendar and other assessments are conducted at departmental level.
13. All the evaluations are carried out by the faculty members which include COs-POs attainment, Gap identification & action taken for the fulfillment of gap.
14. Student feedback and attainment of COs-POs are reviewed by the PAC for any revision in planning & Delivery.
15. End term semester examinations are conducted by the RTU, Kota.

2 Vision & Mission Statements

2.1 Vision &Mission Statements of the Institute

Vision of Institution

To create knowledge based society with scientific temper, team spirit and dignity of labor to face the global competitive challenges

Mission of Institution

To evolve and develop skill based systems for effective delivery of knowledge so as to equip young professionals with dedication & commitment to excellence in all spheres of life

2.2 Vision &Mission Statements of the Programme B. Tech. (Advance Computing)

2.2.1 Vision of Department

Become most preferred department for the latest Advance Computing programs through creating appropriate teaching-learning and skill up gradation environment that fulfill current industry needs.

2.2.2 Mission of Department

- To create experiential learning environment that will enable students to compete globally in Advance Computing domain.
- To adapt latest technological tools and contribute significantly for the advancement of knowledge in computer engineering application in industry, society and environment.
- To inculcate essential characteristic in the students for their all-round professional development, interaction with industry and society and lifelong learning.
- To create R & D infrastructure and centre of excellence in various Advance Computing sub domains.

2.2.3 PEO of the Department

Program Educational Objectives (PEOs) (**ARTIFICIAL INTELLIGENCE)**

PEO1: Gradates will exhibit knowledge and expertise to design and develop solution for complex engineering problem of industry and society efficiently using Artificial Intelligence.

PEO2: Gradates will be able to occupy lead position through their problem solving skills and life-long learning ability.

PEO3: Gradates will have strong professional ethics, social & moral values, entrepreneurial ability and interaction with society & industry.

Program Educational Objectives (PEOs) (**ARTIFICIAL INTELLIGENCE (AI) AND DATA SCIENCE)**

PEO1: Gradates will exhibit expertise in the field of Artificial Intelligence & Data Science applications in the industries occupying lead position to deal with societal and environmental issues.

PEO2: Gradates will possess good interaction ability in team and as individual with life-long learning ability to resolve societal problem using AI & DS.

PEO3: Gradates will exhibit commitment towards the society and industry with high professional ethics and moral values

Program Educational Objectives (PEOs) (**CYBER SECURITY)**

PEO1: Gradates will have expertise in protecting and securing the data and information using the cyber security concepts, tools & technologies.

PEO2: Gradates will possess strong technical and entrepreneur skills to secure IT frameworks and carryout risk analysis with life-long learning ability.

PEO3: Gradates will possess good communication skills while interacting with industry and society to protect the data and information with significant knowledge and implementation skills of cyber laws, professional ethics and leadership attributes.

2.2.4 Program Specific Outcome (PSOs)

ARTIFICIAL INTELLIGENCE

PSO1: Apply the knowledge of Artificial Intelligence, machine learning, Human Computer Interaction in any societal, industrial and environmental application.

PSO2: Demonstrate skills to design, develop and investigate complex real time problems using AI and its tools by working individual or in groups as a leader or member of the team following professional ethics and human values.

PSO3: Adapt, analyze, investigate the problems and provide solutions for interdisciplinary problems using modern and advance AI tools and techniques possessing lifelong learning ability.

ARTIFICIAL INTELLIGENCE (AI) AND DATA SCIENCE

PSO1: Apply knowledge of AI and data science in developing intelligent and context-aware applications/systems/ processes to facilitate industry and Society.

PSO2: Demonstrate skills to learn, adapt and utilize various technologies and the tests for development of AI and Data Science based solutions to environmental/ societal and industry problems.

PSO3: Analyze and interpret huge and complex data individually and in team for development of sustainable solution possess ethical behavior/ critical thinking and lifelong learning.

CYBER SECURITY

PSO1: Apply fundamental knowledge of computer science engineering including software development and testing, application design, development and deployment using artificial intelligence, tools and techniques for social, industrial and environmental applications.

PSO2: Understand, design, development and deployment of Cyber Security solution to various emerging threats in using mobile and internet base technologies and tools.

PSO3: Work individually and in team with the good communication skill, ethical behavior and develop completed and sustainability solution for cyber security and other computer security domain issues related to industry and society.

2.3 Program Outcomes (PO)

Engineering Graduates will be able to:

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

3 Department Academic & Administrative Bodies - Structure & Functions

3.1 Department Advisory Board (DAB)

3.1.1 Primary Objective

Department Advisory Board (DAB) of Department Of Advance Computing, PCE, Jaipur is formed to provide necessary suggestions for developing a structured approach for continuous improvement in curriculum delivery, planning and incorporation of Curricular, Extra and Co-Curricular activities needed to abridge the pre-identified curriculum gaps.

3.1.2 Roles & Responsibilities

1. Suggest improvement in academic plans and recommend standard practices/system for attainment of Program Educational Objectives, Program Outcomes, Program Specific Outcomes and Course Outcomes.
2. Provide guidelines for industry-institute interactions to bridge up curriculum/industry gap and suggest quality improvement initiatives to enhance employability.
3. Develop a structured Curriculum Delivery Plan, Department Academic Calendar and seek approval for them from Internal Quality Assurance Cell.
4. Incorporate suggestions received from Program Assessment Committee (PAC) by including proposed activities for bridging curricular gaps identified.
5. To identify and suggest thrust areas to conduct various activities (final year projects, training courses and additional experiments to meet PEOs, and propose necessary action plan for skill development of students, required for entrepreneurship development and quality improvement.

3.1.3 Department-Wise Composition

S. No.	Category	Nominated by	Name of Members	Address
1	Chairman, DAB-AC	Chairman, IQAC	Dr. Mahesh Bundele (Principal)	Poornima College of Engineering, Jaipur
2	Member Secretary	Chairman, DAB-AC	Dr. Kamlesh Gautam (Associate Professor)	Poornima College of Engineering, Jaipur
3	Faculty representative-1	Chairman, DAB-AC	Ms. Reena Sharma (Assistant Professor)	Poornima College of Engineering, Jaipur
4	Faculty representative-2	Chairman, DAB-AC	Mr. Gaurav Sharma (Assistant Professor)	Poornima College of Engineering, Jaipur
5	Faculty representative-3	Chairman, DAB-AC	Ms. Appoorva Bansal (Assistant Professor)	Poornima College of Engineering, Jaipur
6	Faculty representative-4	Chairman, DAB-AC	Ms. Neetu (Assistant Professor)	Poornima College of Engineering, Jaipur
7	Special Invitee	Chairman, DAB-AC	Dr. Rekha Nair (Professor)	Poornima College of Engineering, Jaipur
8	Alumni	Chairman, DAB-AC	Mr. Niharika Sain	Nagarro, Jaipur

	Representative-1			
9	**Alumni Representative-2**	**Chairman, DAB-AC**	**Mr. Manan Bhargav**	**Bellavita, Gurgaon**
10	**Student Representative**	**Chairman, DAB-AC**	**Ms. Parthivi Thakore**	**Poornima College of Engineering, Jaipur**
11	**Industry Representative**	**Chairman, DAB-AC**	**Mr. Sharthak Acharjee**	**Celebal Technologies**
12	**Parents Representative-1**	**Chairman, DAB-AC**	**Mr. Giriraj Kishore Sharma**	**C24, Shree niwas nagar, road no. 6,VKI area, Jaipur**
13	**Parents Representative-2**	**Chairman, DAB-AC**	**Mr. Kapil Johari**	**Sector – 3, Pratapnagar, Sanganer - 302033**

3.1.4 Meeting Frequency & Objectives

Meeting No.	Meeting Code	Meeting Month-Week	Meeting Objective
1.	DAB-1	August First Week	● Consideration of gaps and proposed activities by PAC lastmeeting to be implemented in DAC and CDP. ● Prepares final draft of CDP and DAC to be proposed in upcoming IQAC meeting
2.	DAB-2	September Second Week	● Approval / Suggestions of proposals from last PAC Meeting. ● Revision of DAB Drafts for being proposed in upcoming GC
3	DAB-3	October First Week	● Draft preparation for DAC and CDP for upcoming semesterafter considering inputs from PAC. ● Review Semester closure draft from PAC.
4.	DAB-4	November Last Week	● Draft of PCE Academic Calendar and CDP proposed ● Previous session closure with gaps and feedback. ● Completion of ATR-2 for current semester based on last GCsessions and compiling it with ATR-1

3.2 Program Assessment Committee

3.2.1 Primary Objective

The primary objective of Program Assessment Committee (PAC) is to identify bridge and assess the gaps in Program's Curriculum received from University through attainment calculation.

3.2.2 Roles & Responsibilities

1. Identify gaps in curriculum laid down by University and propose activities for bridging identified gaps.

2. Implement academic plans and standard practices/system for attainment of Program Educational objectives, Program Outcomes, Program Specific Outcomes and Course Outcomes.

3. Regular Monitoring of curriculum gap abridgement and course deployment practices through pre-defined methods.

4. Execute Industry-Institute Interactions to enhance the employability thereby meeting the

industry standards and requirements.

5. Implement Curriculum Delivery Plan & Department Academic Calendar.

3.2.3 Department-Wise Composition

S. No.	Category	Name of Members
1	Chairman, PAC	Dr. Kamlesh Gautam, Associate Professor, Dept. of Advance Computing
2	Member Secretary	Mr. Gaurav Sharma, Assistant Professor, AC
3	Faculty Representative-1	Ms. Appoorva Bansal, Assistant Professor, AC
4	Faculty Representative-2	Ms. Neetu, Assistant Professor, AC
5	Faculty Representative-3	Ms. Reena Sharma, Assistant Professor, AC
6	Faculty Representative-4	Dr. Saurabh Sandilya, Professor, AC

S. No.	Category	Nominated by	Name of Members	Address
1	Chairman, PAC-CE	Chairman, PAC	Dr. Kamlesh Gautam, Associate Professor, Dept. of Advance Computing	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
2	Member Secretary	Member Secretary	Mr. Gaurav Sharma, Assistant Professor, AC	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
3	Faculty representative-1	Faculty Representative-1	Ms. Appoorva Bansal, Assistant Professor, AC	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
4	Faculty representative-2	Faculty Representative-2	Ms. Neetu, Assistant Professor, AC	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
5	Faculty representative-3	Faculty Representative-3	Ms. Reena Sharma, Assistant Professor, AC	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
6	Faculty representative-4	Faculty Representative-4	Dr. Saurabh Sandilya, Professor, AC	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur

3.2.4 Meeting Frequency & Objectives

Meeting No.	Meeting Code	Meeting Month-Week	Meeting Objective
1.	PAC-1	July Last Week	● Execution of Academic, Extra and Co-Curricular activities ● Regular assessment of Academic, Extra and Co-Curricular activities ● Regular calculation of attainments ● Revision of Academics gaps ● Prepared regular report of program for all assessment, attainment & gaps
2.	PAC-2	August First	● Execution of Academic, Extra and Co-Curricular activities ● Regular assessment of Academic, Extra and Co-Curricular activities

		Week	● Regular calculation of attainments ● Revision of Academics gaps ● Prepared regular report of program for all assessment, attainment & gaps
3	PAC-3	August Last Week	● Execution of Academic, Extra and Co-Curricular activities ● Regular assessment of Academic, Extra and Co-Curricular activities ● Regular calculation of attainments ● Revision of academics gaps as previous attainment ● Assessment of activities required for being proposed in upcoming GC ● Submit report to Governing Council about previous semester & planning of next semester.
4.	PAC-4	September Second Week	● Inclusion of suggestions for revising gaps ● Execution of Academic, Extra and Co-Curricular activities according to suggestions in GC ● Regular calculation of attainments ● Revision of academics gaps as previous attainment ● Regular assessment of Academic, Extra and Co-Curricular activities ● Identification and proposal of gaps and activities to be considered by DAB to prepare Department Academic Calendar and CDP for upcoming semester. ● Semester closure report draft to be prepared ● Elective proposals/CBCS
5.	PAC-5	September last Week	● Incorporation of suggestions from IQAC and DAB meetings in execution of Semester activities ● Execution of Academic, Extra and Co-Curricular activities ● Regular assessment of Academic, Extra and Co-Curricular activities ● Regular calculation of attainments ● Revision of Academics gaps ● Prepared regular report of program for all assessment, attainment & gaps
6.	PAC-6	October Third Week	● Execution of Academic, Extra and Co-Curricular activities ● Regular assessment of Academic, Extra and Co-Curricular activities ● Regular calculation of attainments ● Revision of Academics gaps ● Prepared regular report of program for all assessment, attainment & gaps
7.	PAC-7	October last Week	● Execution of Academic, Extra and Co-Curricular activities ● Regular assessment of Academic, Extra and Co-Curricular activities ● Regular calculation of attainments ● Revision of Academics gaps ● Prepared regular report of program for all assessment, attainment & gaps ● Draft preparation of Semester closure
8.	PAC-8	November Second Week	● Report submission of Semester closure ● Identification and proposal of gaps and activities to be considered by DAB to prepare Department Academic Calendar and CDP for upcoming semester. ● Feedback of last IQAC and suggestions for new semester to be implemented in CDP and DAC ● Elective proposals/CBCS

4. List of Faculty Members& Technical Staff

S. No.	College Emp. ID	Name of the Faculty Member	Exact Designation	Department
1	3682	Ms. DEEPIKA AGRAWAL	ASST PROFESSOR	ADVANCE COMPUTING
2	6450	MS. REENA SHARMA	ASST PROFESSOR	ADVANCE COMPUTING
3	6880	Mr. BHAGIRATH CHOUHAN	ASST PROFESSOR	ADVANCE COMPUTING
4	6935	Dr. KAMLESH GAUTAM	**ASSOCIATE PROFESSOR**	ADVANCE COMPUTING-HoD
5	6961	Mr. GAURAV SHARMA	ASST PROFESSOR	ADVANCE COMPUTING
6	7127	Mrs. ARCHANA BHARDWAJ	ASST PROFESSOR	ADVANCE COMPUTING
7	7257	MS. APPOORVA BANSAL	ASST PROFESSOR	ADVANCE COMPUTING
8	7272	MS. NEETU	ASST PROFESSOR	ADVANCE COMPUTING
9	8275	DR. KESHAV DEV GUPTA	**ASSOCIATE PROFESSOR**	ADVANCE COMPUTING
10	8285	DR. SAURABH SHANDILYA	**PROFESSOR**	ADVANCE COMPUTING
11	2833	Mr. DEEPAK BABERWAL	ASST PROFESSOR	ADVANCE COMPUTING
12	6846	MS. SONAM GOUR	ASST PROFESSOR	ELECTRONICS & COMMUNICATION ENGG

4 Institute Academic Calendar

JULY 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	31					1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

AUGUST 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

SEPTEMBER 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

OCTOBER 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

NOVEMBER 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

DECEMBER 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

POORNIMA
COLLEGE OF ENGINEERING

Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f)

ACADEMIC CALENDAR 2023-24*#

ODD SEMESTER

JULY 2023

RTU THEORY EXAMINATION OF FIRST YEAR [EVEN SEM 2022-23]

AUGUST 2023

Practical Training [After II, IV, VI Sem.]

Monday 15	Celebration of Independence Day.

SEPTEMBER 2023

Monday 11	Commencement of Classes-Odd Semesters B. Tech. III/V/VII Sem.
Wednesday 06 to Sataturday16	Induction Program B.Tech. I Sem
Monday 18	Commencement of Classes-Odd Semesters B. Tech. I Sem.
Tuesday 05	Celebration of Teachers' Day & Activities under WISE
Friday 15	Engineers' Day
Friday 29	Blood Donation Camp

OCTOBER 2023

Monday 02, 2023	Annual Day KALANIDHI' & Faculty Felicitation Program
Monday 16, 2023	Manthan- Inter-college Debate Competition
Wednesday 11, to Friday 13	First Mid Term Theory & Practical Exam for B.Tech VII Sem
Monday 16, to Saturday 21	First Mid Term Theory & Practical Exam for B.Tech V & III Sem

NOVEMBER 2023

Thursday 02, to Wednesday 08	First Mid Term Theory & Practical Exam for B.Tech I Sem
Tuesday 28 to Thursday 30	Second Mid-TermTheory & Practical Exam for B.Tech VII Sem
Thursday 30, 2023	Last Teaching Day for B.Tech VII Sem
Tuesday 28 to Tuesday, Dec. 05	Second Mid Term Theory & Practical Exam for B.Tech V & III Sem

DECEMBER 2023

As Per RTU Exmination Schedule	End-Term Practical Exams for B.Tech VII Sem
Tuesday 05	Last Teaching Day for B.Tech V & III Sem
As Per RTU Exmination Schedule	End-Term Practical Examination for B.Tech V & III Sem
Monday 18, to Saturday 23	Second Mid-TermTheory & Practical Exam for B.Tech I Sem
Saturday 23	Last Teaching Day for B.Tech I Sem

JANUARY 2023

As Per RTU Exmination Schedule	End-Term Practical Examination for B.Tech I Sem

HOLIDAYS IN ODD SEMESTER

➢	Independence Day Celebration	- 14 August, Monday - 15 August, Tuesday
➢	Raksha Bandhan	- 30 August, Wednesday
➢	Krishna Janmashtami	- 7 September, Thursday - 9 September, Saturday
➢	Vijayadashami	- 24 October, Tuesday
➢	Diwali Break	- 10 November, Friday - 14 November, Tuesday
➢	Gurunanak Jayanti	- 25 November, Saturday - 27 November, Monday
➢	Christmas	- 23 December, Saturday - 25 December, Monday
➢	New Year	- 01 January, Monday - 02 January, Tuesday

*Subject to revision as per RTU notifications

#For all Engineering Faculty and Students of PCE

5 Department Activity Calendar

Poornima College of Engineering, Jaipur

Calendar for Advance Computing : Odd Semester - Session 2023-24

(A) Academic Processes

S. No.	Activity/ Process	B.Tech. III Sem.	B.Tech. V Sem.	B.Tech. VII Sem.
1	Date of Registration & start of regular classes for students	Thursday 24, August 2023	Monday 04, September 2023	Friday 4, August 2023
2	Orientation programme	Thursday 24 to Saturday 26, August 2023	Monday 04 to Wednesday 06, September 2023	Friday 4 to Monday 07, August 2023
3	Date of submission of question papers by faculty members to secrecy for 1st Mid-term	Monday, 25 September 2023	Friday 29, September 2023	Monday 19, September 2023
4	I Mid Term Theory & Practical Exam	Tuesday 03 to Monday 9, October 2023	Thursday 05 to Wednesday 11, October 2023	Thursday 05 to Wednesday 11, October 2023
5	Showing evaluated answer books of 1st Mid-term exam to students in respective classes	Friday 13, October 2023	Saturday 14, October 2023	Friday 13, october 2023
6	Last date of submission of Evaluated Answer Books and Mark of First Mid-term Theory & Practical exam to Exam and Secrecy Cell respectively	Tuesday 17, October 2023	Tuesday 16, October 2023	Monday 16, October 2023
7	Date of submission of question papers by faculty members to secrecy for 2nd Mid-term	Saturday 4, November 2023	Saturday 18, December 2023	Friday 10, November 2023
8	Revision classes	Monday 6 to Friday 10, November 2023	Monday 06 to Friday 10, December 2023	Monday, 06 to Friday 10, November 2023
9	Last Teaching Day	Friday 10, November 2023	Friday 10, December 2023	Thursday 10, November 2023
10	2nd Mid-term theory & Practical Exams	Thursday 16 to Wenesday 22, December 2023	Monday 20 to Saturday 25, November 2023	Monday, 20 November to Saturday 25, November 2023

11	End-Term Practical Exams	Monday, 04 December 2023	Saturday, 23 December 2023	Monday, 14 December 2023
12	End-Term Theory Exams	Thursday, 14 December 2023	Friday, 08 December 2023	Thursday, 7 December 2023
(B) Events and Activities				
1	Expert Lecture: Unleashing emerging research trends and advancements in computer science	Tuesday 01, August 2023		
2	Expert Lecture: App development on iOS	Wednesday 13, September 2023		
3	Session on : Python Basics	Saturday 16, September 2023		
4	Training on : Data Science, Artificial Intelligence & Machine Learning	Saturday 23, September 2023		
5	Expert Lecature: Mega Trends in AI, IOT and Block Chain		Tuesday 26, September 2023	
6	Expert Lecture on : Recent Trends in Distributing Computing	Thursday 12, October 2023		
7	Expert Lecture on: Intelligence System	Tuesday 7, November 2023		
8	Workshop: Career opportunities in IT Infrastructure Management Services		Friday 10, November 2023	
9	Expert Lecture: Targeted Promotion on Social Media and Progressive Web Application	Monday 20, November 2023		
10	Expert Lecture on: PowerBI	Thursday 30, November 2023		
(C) Holidays				
1	Raksha Bandhan	Wednesday, August 30, 2023		
2	Shri Krishna Janmashtami	Thursday, 7 September 2023 to Saturday, 9 September 2023		
3	Vijay Dashmi	Tuesday, 24 October 2023		
4	Diwali Break	Friday, 10 November 2023 to Tuesday, 14 November 2023		
5	Guru Nanak Jayanti	Saturday, 25 November 2023 & Monday, 27 November 2023		
6	Christmas	Saturday, 23 December 2023 & Monday, 25 December 2023		

7	New Year Day	Monday, 1 January 2024 & Tuesday, 2 January 2024
8	Winter Break	As per RTU Examination Schedule

"स्वच्छ भारत.. सम्पन्न भारत.."

6 Teaching Scheme

6.1 RTU Teaching Scheme

RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Teaching & Examination Scheme
B.Tech. : Computer Science & Engineering (AI)
2nd Year - III Semester

SN	Category	Course Code	Course Title	Contact hrs/week L	T	P	Marks Exm Hrs	IA	ETE	Total	Cr
THEORY											
1	BSC	3CAI2-01	Advanced Engineering Mathematics	3	0	0	3	30	70	**100**	**3**
2	HSMC	3CAI1-02/ 3CAI1-03	Technical Communication/ Managerial Economics and Financial Accounting	2	0	0	2	30	70	**100**	**2**
3	ESC	3CAI3-04	Digital Electronics	3	0	0	3	30	70	**100**	**3**
4	PCC	3CAI4-05	Data Structures and Algorithms	3	0	0	3	30	70	**100**	**3**
5		3CAI4-06	Object Oriented Programming	3	0	0	3	30	70	**100**	**3**
6		3CAI4-07	Software Engineering	3	0	0	3	30	70	**100**	**3**
			Sub Total	**17**	**0**	**0**					**17**
PRACTICAL & SESSIONAL											
7	PCC	3CAI4-21	Data Structures and Algorithms Lab	0	0	3		60	40	**100**	**1.5**
8		3CAI4-22	Object Oriented Programming Lab	0	0	3		60	40	**100**	**1.5**
9		3CAI4-23	Software Engineering Lab	0	0	3		60	40	**100**	**1.5**
10		3CAI4-24	Digital Electronics Lab	0	0	3		60	40	**100**	**1.5**
11	PSIT	3CAI7-30	Industrial Training	0	0	1		60	40	**100**	**1**
12	SODECA	3CAI8-00	Social Outreach, Discipline & Extra Curricular Activities							**100**	**0.5**
			Sub- Total	**0**	**0**	**13**					**7.5**
			TOTAL OF III SEMESTER	**17**	**0**	**13**					**24.5**

L: *Lecture,* ***T:*** *Tutorial,* ***P:*** *Practical,* ***Cr:*** *Credits*

ETE: *End Term Exam,* ***IA:*** *Internal Assessment*

Office of Dean Academic Affairs
Rajasthan Technical University, Kota

RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Teaching & Examination Scheme
B.Tech. : Artificial Intelligence & Data Science
2nd Year - III Semester

THEORY												
SN	**Category**	**Course**		**Contact hrs/week**			**Marks**				**Cr**
		Code	**Title**	**L**	**T**	**P**	**Exm Hrs**	**IA**	**ETE**	**Total**	
1	BSC	3AID2-01	Advanced Engineering Mathematics	3	0	0	3	30	70	**100**	**3**
2	HSMC	3AID1-02/ 3AID1-03	Technical Communication/ Managerial Economics and Financial Accounting	2	0	0	2	30	70	**100**	**2**
3	ESC	3AID3-04	Digital Electronics	3	0	0	3	30	70	**100**	**3**
4	PCC	3AID4-05	Data Structures and Algorithms	3	0	0	3	30	70	**100**	**3**
5		3AID4-06	Object Oriented Programming	3	0	0	3	30	70	**100**	**3**
6		3AID4-07	Software Engineering	3	0	0	3	30	70	**100**	**3**
			Sub Total	**17**	**0**	**0**					**17**
PRACTICAL & SESSIONAL											
7	PCC	3AID4-21	Data Structures and Algorithms Lab	0	0	3		60	40	**100**	**1.5**
8		3AID4-22	Object Oriented Programming Lab	0	0	3		60	40	**100**	**1.5**
9		3AID4-23	Software Engineering Lab	0	0	3		60	40	**100**	**1.5**
10		3AID4-24	Digital Electronics Lab	0	0	3		60	40	**100**	**1.5**
11	PSIT	3AID7-30	Industrial Training	0	0	1		60	40	**100**	**1**
12	SODECA	3AID8-00	Social Outreach, Discipline & Extra Curricular Activities							**100**	**0.5**
			Sub- Total	**0**	**0**	**13**					**7.5**
			TOTAL OF III SEMESTER	**17**	**0**	**13**					**24.5**

L: *Lecture,* ***T:*** *Tutorial,* ***P:*** *Practical,* ***Cr:*** *Credits*

ETE: *End Term Exam,* ***IA:*** *Internal Assessment*

Office of Dean Academic Affairs
Rajasthan Technical University, Kota

RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Teaching & Examination Scheme
B.Tech. : Computer Science & Engineering (Cyber Security)
2nd Year - III Semester

THEORY												
SN	**Category**	**Course**		**Contact hrs/week**			**Marks**				**Cr**
		Code	**Title**	**L**	**T**	**P**	**Exm Hrs**	**IA**	**ETE**	**Total**	
1	BSC	3CCS2-01	Advanced Engineering Mathematics	3	0	0	3	30	70	**100**	**3**
2	HSMC	3CCS1-02/ 3CCS1-03	Technical Communication/ Managerial Economics and Financial Accounting	2	0	0	2	30	70	**100**	**2**
3	ESC	3CCS3-04	Digital Electronics	3	0	0	3	30	70	**100**	**3**
4	PCC	3CCS4-05	Data Structures and Algorithms	3	0	0	3	30	70	**100**	**3**
5		3CCS4-06	Object Oriented Programming	3	0	0	3	30	70	**100**	**3**
6		3CCS4-07	Software Engineering	3	0	0	3	30	70	**100**	**3**
			Sub Total	**17**	**0**	**0**					**17**
PRACTICAL & SESSIONAL											
7	PCC	3CCS4-21	Data Structures and Algorithms Lab	0	0	3		60	40	**100**	**1.5**
8		3CCS4-22	Object Oriented Programming Lab	0	0	3		60	40	**100**	**1.5**
9		3CCS4-23	Software Engineering Lab	0	0	3		60	40	**100**	**1.5**
10		3CCS4-24	Digital Electronics Lab	0	0	3		60	40	**100**	**1.5**
11	PSIT	3CCS7-30	Industrial Training	0	0	1		60	40	**100**	**1**
12	SODECA	3CCS8-00	Social Outreach, Discipline & Extra Curricular Activities							**100**	**0.5**
			Sub- Total	**0**	**0**	**13**					**7.5**
			TOTAL OF III SEMESTER	**17**	**0**	**13**					**24.5**

L: *Lecture,* ***T:*** *Tutorial,* ***P:*** *Practical,* ***Cr:*** *Credits*

ETE: *End Term Exam,* ***IA:*** *Internal Assessment*

Office of Dean Academic Affairs
Rajasthan Technical University, Kota

RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Teaching & Examination Scheme
B.Tech Computer Science and Engineering (Artificial Intelligence)
3rd Year - V Semester

SN	Category	Course		Contact hrs/week			Marks				Cr
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total	
THEORY											
1	PCC	5CAI3-01	Data Mining-Concepts and Techniques	2	0	0	3	30	70	**100**	**2**
2	PCC	5CAI4-02	Compiler Design	3	0	0	3	30	70	**100**	**3**
3		5CAI4-03	Operating System	3	0	0	3	30	70	**100**	**3**
4		5CAI4-04	Computer Graphics & Multimedia	3	0	0	3	30	70	**100**	**3**
5		5CAI4-05	Analysis of Algorithm	3	0	0	3	30	70	**100**	**3**
6	PEC	5CAI5-11	Fundamentals of Blockchain	2	0	0	3	30	70	**100**	**2**
7		5CAI5-12	Mathematical Modelling for Data Science								
8		5CAI5-13	Programming for Data Sciences								
			Sub Total	16	0	0					**16**
PRACTICAL & SESSIONAL											
9	PCC	5CAI4-21	Computer Graphics & Multimedia Lab	0	0	2	2	60	40	**100**	**1**
10		5CAI4-22	Compiler Design Lab	0	0	2	2	60	40	**100**	**1**
11		5CAI4-23	Analysis of Algorithm Lab	0	0	2	2	60	40	**100**	**1**
12		5CAI4-24	Advanced Java Lab	0	0	2	2	60	40	**100**	**1**
13	PSIT	5CAI7-30	Industrial Training	0	0	1		60	40	**100**	**2.5**
14	SODECA	5CAI8-00	Social Outreach, Discipline & Extra Curricular Activities						100	**100**	**0.5**
			Sub- Total	**0**	**0**	**9**					**7**
			TOTAL OF V SEMESTER	**16**	**0**	**9**					**23**

L: *Lecture,* ***T:*** *Tutorial,* ***P:*** *Practical,* ***Cr:*** *Credits*

ETE: *End Term Exam,* ***IA:*** *Internal Assessment*

Office of Dean Academic Affairs
Rajasthan Technical University, Kota

RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Teaching & Examination Scheme
B.Tech.: Artificial Intelligence and Data Science
3rd Year - V Semester

THEORY												
SN	**Category**	**Course**		**Contact hrs/week**			**Marks**				**Cr**
		Code	**Title**	**L**	**T**	**P**	**Exm Hrs**	**IA**	**ETE**	**Total**	
1	PCC	5AID3-01	Data Mining-Concepts and Techniques	2	0	0	3	30	70	**100**	**2**
2	PCC	5AID4-02	Compiler Design	3	0	0	3	30	70	**100**	**3**
3		5AID4-03	Operating System	3	0	0	3	30	70	**100**	**3**
4		5AID4-04	Computer Graphics & Multimedia	3	0	0	3	30	70	**100**	**3**
5		5AID4-05	Analysis of Algorithm	3	0	0	3	30	70	**100**	**3**
6			Professional Elective (Any One)								
7	PEC	5AID5-11	Fundamentals of Blockchain	2	0	0	3	30	70	**100**	**2**
8		5AID5-12	Probability & Statistics for Data Science								
9		5AID5-13	Programming for Data Sciences								
			Sub Total	**16**	**0**	**0**					**16**
PRACTICAL & SESSIONAL											
10	PCC	5AID4-21	Computer Graphics & Multimedia Lab	0	0	2	2	60	40	**100**	**1**
11		5AID4-22	Compiler Design Lab	0	0	2	2	60	40	**100**	**1**
12		5AID4-23	Analysis of Algorithm Lab	0	0	2	2	60	40	**100**	**1**
13		5AID4-24	Advanced Java Lab	0	0	2	2	60	40	**100**	**1**
14	PSIT	5AID7-30	Industrial Training	0	0	1		60	40	**100**	**2.5**
15	SODECA	5AID8-00	Social Outreach, Discipline & Extra Curricular Activities						100	**100**	**0.5**
			Sub Total	**0**	**0**	**9**					**7**
			TOTAL OF V SEMESTER	**16**	**0**	**9**					**23**

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

Office of Dean Academic Affairs
Rajasthan Technical University, Kota

RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Teaching & Examination Scheme
B.Tech Computer Science and Engineering (Cyber Security)
3rd Year - V Semester

SN	Category	Course		Contact hrs/week			Marks				Cr
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total	
THEORY											
1	PCC	5CCS3-01	Information Theory and Coding	2	0	0	3	30	70	**100**	**2**
2	PCC	5CCS4-02	Compiler Design	3	0	0	3	30	70	**100**	**3**
3		5CCS4-03	Operating System	3	0	0	3	30	70	**100**	**3**
4		5CCS4-04	Computer Graphics & Multimedia	3	0	0	3	30	70	**100**	**3**
5		5CCS4-05	Analysis of Algorithm	3	0	0	3	30	70	**100**	**3**
6	PEC	5CCS5-11	Cyber Space Operations and Design	2	0	0	3	30	70	**100**	**2**
7		5CCS5-12	Digital Forensics and Incident Response								
8		5CCS5-13	Bioinformatics								
			Sub Total	16	0	0		**180**	**420**	**600**	**16**
PRACTICAL & SESSIONAL											
9	PCC	5CCS4-21	Computer Graphics & Multimedia Lab	0	0	2	2	60	40	**100**	**1**
10		5CCS4-22	Compiler Design Lab	0	0	2	2	60	40	**100**	**1**
11		5CCS4-23	Analysis of Algorithm Lab	0	0	2	2	60	40	**100**	**1**
12		5CCS4-24	Advanced Java Lab	0	0	2	2	60	40	**100**	**1**
13	PSIT	5CCS7-30	Industrial Training	0	0	1		60	40	**100**	**2.5**
14	SODECA	5CCS8-00	Social Outreach, Discipline & Extra Curricular Activities						100	**100**	**0.5**
			Sub- Total	**0**	**0**	**9**		**300**	**300**	**600**	**7**
			TOTAL OF V SEMESTER	**16**	**0**	**9**		**480**	**720**	**1200**	**23**

L: *Lecture,* ***T:*** *Tutorial,* ***P:*** *Practical,* ***Cr:*** *Credits*

ETE: *End Term Exam,* ***IA:*** *Internal Assessment*

7 PCE Teaching Scheme

Poornima College of Engineering, Jaipur
Department of Advance Computing, Jaipur
Teaching Scheme of ODD Semester 2022-23 (CSE)

Poornima College of Engineering, Jaipur

Teaching Scheme of Even Semester 2023-24

Working Group	Year	Sem	Students	Dept.	Teaching Scheme				Course Name	Subject Code	No. of Sec	No. of Batches	Batch Size (T/H/F)	Total Load (L)	Total Load (T)	Total Load (P)	Total Load (L+T+P)	Teaching Dept.	Cat.
					L	T	P	Credit											
CS/IT	2	4	64	AC	3	1	0	3	Discrete Mathematics Structure	4AID2-01	3	6	F	9	6	0	15	Maths	BSC
CS/IT	2	4	64	AC	2	0	0	2	Technical Communication	4AID1-02	3	6	F	6	0	0	6	English	HSMC
CS/IT	2	4	64	AC	3	0	0	3	Microprocessor & Interfaces	4AID3-04	3	6	F	9	0	0	9	ECE	ESC
CS/IT	2	4	64	AC	3	0	0	3	Database Management System	4AID4-05	3	6	F	9	0	0	9	CS	PCC
CS/IT	2	4	64	AC	3	0	0	3	Theory of Computation	4AID4-06	3	6	F	9	0	0	9	CS	PCC
CS/IT	2	4	64	AC	3	0	0	3	Data Communication and Computer Networks	4AID4-07	3	6	F	9	0	0	9	CS	PCC
CS/IT	2	4	64	AC	0	0	2	1	Microprocessor & Interfaces Lab	4AID4-21	3	6	T	0	0	12	12	ECE	ESC
CS/IT	2	4	64	AC	0	0	3	1.5	Database Management System Lab	4AIDI4-22	3	6	T	0	0	18	18	CS	PCC
CS/IT	2	4	64	AC	0	0	3	1.5	Network Programming Lab	4AID4-23	3	6	T	0	0	18	18	CS	PCC
CS/IT	2	4	64	AC	0	0	2	1	Linux Shell Programming Lab	4AID4-24	3	6	T	0	0	12	12	CS	NA
CS/IT	2	4	64	AC	0	0	2	1	Java Lab	4AID4-25	3	6	T	0	0	12	12	CS	NA

																129			
CS/IT	3	6	221	CSE	2	0	0	2	Digital Image Processing	6CS3-01	3	6	F	6	0	0	6	CS	ESC
CS/IT	3	6	221	CSE	3	0	0	3	Machine Learning	6CS4-02	3	6	F	9	0	0	9	CS	PCC/ PEC
CS/IT	3	6	221	CSE	3	0	0	2	Information Security System	6CS4-03	3	6	F	9	0	0	9	CS	PCC/ PEC
CS/IT	3	6	221	CSE	3	0	0	3	Computer Architecture and Organization	6CS4-04	3	6	F	9	0	0	9	CS	PCC/ PEC
CS/IT	3	6	221	CSE	2	0	0	2	Artificial Intelligence/Principles of AI	6CS4-05	3	6	F	6	0	0	6	CS	PCC/ PEC
CS/IT	3	6	221	CSE	3	0	0	3	Cloud Computing/Block Chain in Cyber Security	6CS4-06	3	6	F	9	0	0	9	CS	PCC/ PEC
CS/IT	3	6	221	CSE	2	0	0	2	Elective*(Cyber electives are different from AI and AIDS)	6CS5-11	3	6	F	8	0	0	8	CS	PCC/ PEC
CS/IT	3	6	221	CSE	0	0	3	1.5	Digital Image Processing Lab	6CS4-21	3	6	T	0	0	18	18	ECE	PCC
CS/IT	3	6	221	CSE	0	0	3	1.5	Machine Learning Lab	6CS4-22	3	6	T	0	0	18	18	CS	PCC
CS/IT	3	6	221	CSE	0	0	3	1.5	Python Lab	6CS4-23	3	6	T	0	0	18	18	CS	PCC
CS/IT	3	6	221	CSE	0	0	3	1.5	Mobile Application Development Lab	6CS4-24	3	6	T	0	0	18	18	CS	PCC

7.1 Marking Scheme

MARKING SCHEME FOR PRACTICAL EXAM, ODD SEM., 2021-22,		EXAM & SECRECY CELL, PCE									
		I+II Mid Term Exam			Atten & Performance.			End Term Exam			Max.
Code	SUBJECT	Exp.	Viva	Total	Attn.	Perf.	Total	Exp.	Viva	Total	Marks
1FY2-20	Engineering Physics Lab	30	10	40	10	30	40	30	10	40	100
1FY2-21	Engineering Chemistry Lab	30	10	40	10	30	40	30	10	40	100
1FY1-22	Language Lab	30	10	40	10	30	40	30	10	40	100
1FY1-23	Human Values Activities & Sports	30	10	40	10	30	40	30	10	40	100
1FY3-24	Computer Programming Lab	30	10	40	10	30	40	30	10	40	100
1FY3-25	Manufacturing Practices Workshop	30	10	40	10	30	40	30	10	40	100
1FY3-26	Basic Electrical Engineering Lab	30	10	40	10	30	40	30	10	40	100
1FY3-27	Basic Civil Engineering Lab	30	10	40	10	30	40	30	10	40	100
1FY3-28	Computer Aided Engineering Graphics	30	10	40	10	30	40	30	10	40	100
1FY3-29	Computer Aided Machine Drawing	30	10	40	10	30	40	30	10	40	100
3CE4-21	Surveying Lab	30	10	40	10	30	40	30	10	40	100
3CE4-22	Fluid Mechanics Lab	30	10	40	10	30	40	30	10	40	100
3CE4-23	Computer Aided Civil Engineering Drawing	30	10	40	10	30	40	30	10	40	100
3CE4-24	Civil Engineering Maretials Lab	30	10	40	10	30	40	30	10	40	100
3CE4-25	Geology Lab	30	10	40	10	30	40	30	10	40	100
3CE7-30	Training Seminar			60					40		100
3CS4-21	Data Structures and Algorithms Lab	30	10	40	10	30	40	30	10	40	100
3CS4-22	Object Oriented Programming Lab	30	10	40	10	30	40	30	10	40	100
3CS4-23	Software Engineering Lab	30	10	40	10	30	40	30	10	40	100
3CS4-24	Digital Electronics Lab	30	10	40	10	30	40	30	10	40	100
3CS7-30	Training Seminar			60					40		100
3EC4-21	Electronics Devices Lab	30	10	40	10	30	40	30	10	40	100
3EC4-22	Digital System Design Lab	30	10	40	10	30	40	30	10	40	100
3EC4-23	Signal Processing Lab	30	10	40	10	30	40	30	10	40	100
3EC3-24	Computer Programming Lab-I	30	10	40	10	30	40	30	10	40	100
3EC7-30	Training Seminar			60					40		100
3EE4-21	Analog Electronics Lab	30	10	40	10	30	40	30	10	40	100
3EE4-22	Electrical Machine-I Lab	30	10	40	10	30	40	30	10	40	100
3EE4-23	Electrical circuit design Lab	30	10	40	10	30	40	30	10	40	100
3EE7-30	Training Seminar			30					20		100
3IT4-21	Data Structures and Algorithms Lab	30	10	40	10	30	40	30	10	40	100
3IT4-22	Object Oriented Programming Lab	30	10	40	10	30	40	30	10	40	100
3IT4-23	Software Engineering Lab	30	10	40	10	30	40	30	10	40	100
3IT4-24	Digital Electronics Lab	30	10	40	10	30	40	30	10	40	100
3IT7-30	Training Seminar			60					40		100
3ME4-21	Machine drawing practice	30	10	40	10	30	40	30	10	40	100
3ME4-22	Materials Testing Lab	30	10	40	10	30	40	30	10	40	100
3ME4-23	Basic Mechanical Engineering Lab	30	10	40	10	30	40	30	10	40	100
3ME4-24	Programming using MAT LAB	30	10	40	10	30	40	30	10	40	100
3ME7-30	Training Seminar			60					40		100
5CE4-21	Concrete Structures Design	22	8	30	8	22	30	22	8	30	75
5CE4-22	Geotechnical Engineering Lab	22	8	30	8	22	30	22	8	30	75
5CE4-23	Water Resource Engineering Design	15	5	20	5	15	20	15	5	20	50
5CE7-30	Industrial Training			75					50		125
5CS4-21	Computer Graphics & Multimedia Lab	15	5	20	5	15	20	15	5	20	50
5CS4-22	Compiler Design Lab	15	5	20	5	15	20	15	5	20	50
5CS4-23	Analysis of Algorithms Lab	15	5	20	5	15	20	15	5	20	50
5CS4-24	Advance Java Lab	15	5	20	5	15	20	15	5	20	50
5CS7-30	Industrial Training			75					50		125
5EC4-21	RF Simulation Lab	22	8	30	8	22	30	22	8	30	75
5EC4-22	Digital Signal Processing Lab	22	8	30	8	22	30	22	8	30	75
5EC4-23	Microwave Lab	15	5	20	5	15	20	15	5	20	50
5EC7-30	Industrial Training			75					50		125
5EE4-21	Power System - I Lab	15	5	20	5	15	20	15	5	20	50
5EE4-22	Control System Lab	15	5	20	5	15	20	15	5	20	50
5EE4-23	Microprocessor Lab	15	5	20	5	15	20	15	5	20	50
5EE4-24	System Programming Lab	15	5	20	5	15	20	15	5	20	50
5EE7-30	Industrial Training			75					50		125
5IT4-21	Computer Graphics & Multimedia Lab	15	5	20	5	15	20	15	5	20	50
5IT4-22	Compiler Design Lab	15	5	20	5	15	20	15	5	20	50
5IT4-23	Analysis of Algorithms Lab	15	5	20	5	15	20	15	5	20	50
5IT4-24	Advanced Java Lab	15	5	20	5	15	20	15	5	20	50
5IT7-30	Industrial Training			75					50		125
5ME3-21	Mechatronic Lab	15	5	20	5	15	20	15	5	20	50
5ME4-22	Heat Transfer lab	15	5	20	5	15	20	15	5	20	50
5ME4-23	Production Engineering Lab	15	5	20	5	15	20	15	5	20	50
5ME4-24	Machine Design Practice I	15	5	20	5	15	20	15	5	20	50
5ME7-30	Industrial Training			75					50		125
7CE4-21	Road Material Testing Lab	15	5	20	5	15	20	15	5	20	50
7CE4-22	Professional Practices & Field Engineering	15	5	20	5	15	20	15	5	20	50
7CE4-23	Soft Skills Lab	15	5	20	5	15	20	15	5	20	50
7CE4-24	Environmental Monitoring and Design Lab	15	5	20	5	15	20	15	5	20	50
7CE7-30	Practical Training			75					50		125
7CE7-40	Seminar			60					40		100
7CS4-21	Internet of Things Lab	30	10	40	10	30	40	30	10	40	100
7CS4-22	Cyber Security Lab	30	10	40	10	30	40	30	10	40	100
7CS7-30	Industrial Training			75					50		125
7CS7-40	Seminar			60					40		100
7EC4-21	VLSI Design Lab	30	10	40	10	30	40	30	10	40	100
7EC4-22	Advance communication lab (MATLAB	15	5	20	5	15	20	15	5	20	50
7EC4-23	Optical Communication Lab	15	5	20	5	15	20	15	5	20	50
7EC7-30	Industrial Training			75					50		125
7EC7-40	Seminar			60					40		100
7EE4-21	Embedded Systems Lab	30	10	40	10	30	40	30	10	40	100
7EE4-22	Advance control system lab	30	10	40	10	30	40	30	10	40	100
7EE7-30	Industrial Training			75					50		125
7EE7-40	Seminar			60					40		100
7IT4-21	Big Data Analytics Lab	30	10	40	10	30	40	30	10	40	100
7IT4-22	Cyber Security Lab	30	10	40	10	30	40	30	10	40	100
7IT7-30	Industrial Training			75					50		125
7IT7-40	Seminar			60					40		100
7ME4-21	FEA Lab	22	8	30	8	22	30	22	8	30	75
7ME4-22	Thermal Engineering Lab II	22	8	30	8	22	30	22	8	30	75
7ME4-23	Quality Control Lab	15	5	20	5	15	20	15	5	20	50
7ME7-30	Industrial Training *			75					50		125
7ME7-40	Seminar *			60					40		100

NOTE: - (1) In Attendance & Performance marks should be given on the basis of student overall performance in semester i. e. continuous evaluation.
(2) In Common Pool marks should be given by HOD on the basis of student Assignment,Non Syllabus Activity,Online Exam Exam,Application/Survey / Case Study based Learning, Pre-Placement Activity, Department Level Career Oriented Activities through out the semester.

8 Department Load Allocation

POORNIMA COLLEGE OF ENGINEERING, JAIPUR									
Department of Computer Engineering									
Load Sheet of Session 2023-24 (ODD Semester)									
Sr.No.	**EMP. ID**	**Faculty Name**	**Subject(s)**	**Subject Code**	**Section**	**L**	**T**	**P**	**Load Per Week**	**Total Load**
1	6450	Ms. Reena Sharma	Compiler Design	5CYB4-02	F	4	0	0	4	16
			Compiler Design Lab	5CYB4-22	F	0	0	2	4	
			Compiler Design	5CAI4-02	D	3	0	0	4	
			Compiler Design Lab	5CAI4-22	D	0	0	2	4	
2	6846	Ms. Sonam Gour	Internet of Things Lab	7CS4-21	A	0	0	8	8	16
			Industrial Training	5CS7-30	A	0	0	1	1	
			Computer Graphics & Multimedia	5CS4-04	A	3	0	0	3	
			Computer Graphics & Multimedia Lab	5CS4-21	A	0	0	2	4	
3	6935	Dr. Kamlesh Gautam	Open Elective - II (Cyber Security)	7CS6-60.2	OE	4	0	0	4	14
			Cyber Security Lab	7CS4-22	A	0	0	4	8	
			NSP- 7CS7-PROJECT	7CS7-50	A2	0	0	2	2	
4	6961	Mr. Gaurav Sharma	Compiler Design	5CS4-02	C	4	0	0	4	20
			Compiler Design Lab	5CS4-22	C	0	0	2	4	
			Compiler Design	5AID4-02	E	4	0	0	4	
			Compiler Design Lab	5AID4-22	E	0	0	2	4	
5	7019	Dr. Shuchi Dave	AEM	3CS2-01	C	3	0	0	3	20
			AEM Tut.	3CS2-01 Tut.	C	0	0	1	2	
			AEM	3CSR2-01	R	3	0	0	3	
			AEM Tut.	3CSR2-01 Tut.	R	0	0	1	2	
			AEM	EC		3	0	0	3	
			AEM Tut.	EC		0	0	1	2	
			AEM	EE		3	0	0	3	
			AEM Tut.	EE		0	0	1	2	
6	7211	Mr. Pradeep Kumar	AEM	3CAI2-01	D	3	0	0	3	21
			AEM Tut.	3CAI2-01 Tut.	D	0	0	1	2	
			AEM	3AID2-01	E	3	0	0	3	

			AEM Tut.	3AID2-01 Tut.	E	0	0	1	2	
			AEM	3CYB2-01	F	3	0	0	3	
			AEM Tut.	3CYB2-01 Tut.	F	0	0	1	2	
			AEM		IT	3	0	0	3	
			AEM Tut.		IT	0	0	1	3	
7	7266	Ms. Appoorva Bansal	Object Oriented Programming	3CAI4-06	D	3	0	0	3	15
			Object Oriented Programming Lab	3CAI4-22	D	0	0	3	6	
			Programming for Data Sciences	5CAI5-13 / 5AID5-13	Group 2	3	0	0	3	
			Object Oriented Programming	3CYB4-06	F	3	0	0	3	
8	7272	Ms.Neetu	Data Structures and Algorithms	3AID4-05	E	3	0	0	3	16
			Data Structures and Algorithms Lab	3AID4-21	E	0	0	3	6	
			Computer Graphics & Multimedia	5CCS4-04	E	3	0	0	3	
			Computer Graphics & Multimedia Lab	5CCS4-21	E	0	0	2	4	
9	8018	Dr. Neha Mahala	Data Structures and Algorithms	3CS4-05	B	3	0	0	3	13
			Industrial Training	3CS7-30	B	0	0	1	1	
			Computer Programming Lab-I	3EC3-24	ECE-DEPT	0	0	2	2	
			Digital Electronics	3CS3-04	R	3	0	0	3	
			Digital Electronics Lab	3CS4-24	R	0	0	2	4	
10	8275	Dr. Keshav Dev Gupta	Adv Java Lab	5CAI4-24	E	0	0	2	4	11
			Adv Java Lab	5CS4-24	A	0	0	2	4	
			Object Oriented Programming	3AID4-06	E	3	0	0	3	
11	8285	Dr. Saurabh Sandilya	Software Engineering	3CS4-07	R	3	0	0	3	13
			Software Engineering Lab	3CS4-23	R	0	0	3	6	
			Operating Systems	5CCS4-03	F	4	0	0	4	
12	2833	Mr. DEEPAK BABERWAL	Operating Systems	5AID-03	E	4	0	0	4	14
			Seminar	7CS7-40	B1	0	0	2	4	
			Data Structures and Algorithms Lab	3CS4-21	B	0	0	3	6	
13	7127	Mrs. ARCHANA BHARDWAJ	Object Oriented Programming Lab	3AID4-22	E	0	0	3	6	15
			Seminar	7CS7-40	A1		0	4	4	
			Industrial Training	3AID7-30	E	0	0	1	1	
			Industrial Training	7CS7-30	B	0	0	4	4	

14	3682	Ms. DEEPIKA AGRAWAL	Data MiningConcepts and Techniques	5CAI3-01	D	3	0	0	3	17
			Internet of Things	7CS4-01	A	4	0	0	4	
			Object Oriented Programming Lab	3CYB-22	F	0	0	3	6	
			Seminar	7CS7-40	B2	0	0	4	4	

15	1220	Dr. Shilpi Jain	AEM	3CS2-01	A	3	0	0	3	20
			AEM Tut.	3CS2-01 Tut.	A	0	0	1	2	
			AEM	3CS2-01	B	3	0	0	3	
			AEM Tut.	3CS2-01 Tut.	B	0	0	1	2	
			AEM	Civil		3	0	0	3	
			AEM Tut.	Civil		0	0	1	2	
			AEM	ME		3	0	0	3	
			AEM Tut.	ME		0	0	1	2	
16	6050	Ms Kalpana Sharma	MEFA	3CS1-03	A	2	0	0	2	18
			MEFA	3CS1-03	B	2	0	0	2	
			MEFA	3CS1-03	C	2	0	0	2	
			MEFA	3CAI1-03	D	2	0	0	2	
			MEFA	3AID1-03	E	2	0	0	2	
			MEFA	3CYB1-03	F	2	0	0	2	
			MEFA	3CSR1-03	R	2	0	0	2	
			MEFA	EC		2	0	0	2	
			MEFA	IT		2	0	0	2	

Time Table

8.1 Academic Time Table

ODD WEEK

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF ADVANCE COMPUTING
III-D(AI)

Class Location: AB-II (2105)
WEF: 15.08.2023
Tutor Name:Ms. Deepika Agrawal

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:00	4 12:00 - 13:00	5 13:00 - 14:00	6 14:00 - 15:00
Mon	BATCH D1 **3CAI4-06/3CAI4-22 OOP/OOP LAB** Mr Gaurav Sharma BATCH D2 **3CAI3-04/3CAI4-24 DE/DE LAB** LAB - AB-I (1210C) NF-2G				**3CAI7-30 IT** Ms.Archana Bhardwaj	**3CAI1-03 MEFA** Dr. Prince Dawar	**3CAI2-01 AEM** Mr.Pradeep Kumar
Tues	CRT				BATCH D1 **3CAI3-04/3CAI4-24 DE/DE LAB** LAB - AB-I (1207) Dr. Neha Mahala BATCH D2 **3CAI4-06/3CAI4-22 OOP/OOP LAB** Mr Gaurav Sharma		
Wed	BATCH D1 **3CAI4-05/3CAI4-21 DSA/DSA LAB** NN BATCH D2 **3CAI4-06/3CAI4-22 OOP/OOP LAB** LAB - AB-II (2209E) Mr Gaurav Sharma				BATCH D1 **3CAI4-05/3CAI4-21 DSA/DSA LAB** LAB - AB-I (1203) NN BATCH D2 **3CAI4-07/3CAI4-23 SE/SE LAB** NF3		
Thur	BATCH D1 **3CAI3-04/3CAI4-24 DE/DE LAB** LAB - AB-I (1109) Dr. Neha Mahala BATCH D2 **3CAI4-05/3CAI4-21 DSA/DSA LAB** NN		BATCH D1 **3CS2-01 AEM Tut** AB-I (1209- A) Mr.Pradeep Kumar		BATCH D1 **3CAI4-07/3CAI4-23 SE/SE LAB** NF3 BATCH D2 **3CAI4-05/3CAI4-21 DSA/DSA LAB** AB - II (2208) NN		
Fri	**3CAI1-03 MEFA** Dr. Prince Dawar	**3CAI7-30 IT** Ms.Archana Bhardwaj	**3CAI2-01 AEM** Mr.Pradeep Kumar		**3CAI2-01 AEM** Mr.Pradeep Kumar	**3CS3-04 DE** Dr. Neha Mahala	**NSP/Library** Dr Kamlesh Gautam
Sa	BATCH D1 **3CAI4-06/3CAI4-22 OOP/OOP LAB** AB-I (1209- A) Mr Gaurav Sharma BATCH D2 **3CAI4-07/3CAI4-23 SE/SE LAB** NF3				BATCH D1 **3CAI4-07/3CAI4-23 SE/SE LAB** NF3 BATCH D2 **3CAI3-04/3CAI4-24 DE/DE LAB** LAB - AB-I (1109) Dr. Neha Mahala		BATCH D2 **3CAI2-01 AEM tut** AB-I (1209- A) Mr.Pradeep Kumar

Time Table Coordinators: Dr.Abhishek Sharma, Dy.HoD
Vice Principal, PCE, Director, PCE

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF ADVANCE COMPUTING
III-E(AI&DS)

Class Location: AB-II (2107)
WEF: 15.08.2023
Tutor Name: Ms. Neetu

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:00	4 12:00 - 13:00	5 13:00 - 14:00	6 14:00 - 15:00
Mon	**3CS3-04 DE** Mr. Mukesh Chand	**3CAI7-30 IT** Ms.Neetu Joshi	**3AID2-01 AEM** Mr.Pradeep Kumar		BATCH E1 **3AID4-06/3AID4-22 OOP/OOP LAB** LAB - AB-I (1108) NF7 BATCH E2 **3AID3-04/3AID4-24 DE/DE LAB** Mr. Mukesh Chand		
Tues	BATCH E1 **3AID4-07/3AID4-23 SE/SE LAB** LAB - AB-II(2209D) NF4 BATCH E2 **3AID4-06/3AID4-22 OOP/OOP LAB** NF7				**3CAI7-30 IT** Ms.Neetu Joshi	**3AID1-02 MEFA** Dr. Prince Dawar	**3AID2-01 AEM** Mr.Pradeep Kumar
Wed	CRT				BATCH E1 **3AID2-01 AEM Tut** Mr.Pradeep Kumar	BATCH E1 **3AID3-04/3AID4-24 DE/DE LAB** Mr. Mukesh Chand	
					BATCH E2 **3AID4-06/3AID4-22 OOP/OOP LAB** LAB - AB-II (2209F) NF7		
Thur	BATCH E1 **3AID4-05/3AID4-21 DSA/DSA LAB** LAB - AB-I (1203) Ms.Neetu Joshi				BATCH E1 **3AID3-04/3AID4-24 DE/DE LAB** AB-II (2103) Mr. Mukesh Chand		
	BATCH E2 **3AID2-01 AEM Tut** Mr.Pradeep Kumar	BATCH E2 **3AID3-04/3AID4-24 DE/DE LAB** Mr. Mukesh Chand			BATCH E2 **3AID4-07/3AID4-23 SE/SE LAB** NF4		
Fri	BATCH E1 **3AID4-07/3AID4-23 SE/SE LAB** NF4				BATCH E1 **3AID4-06/3AID4-22 OOP/OOP LAB** AB - II (2208) NF7		
	BATCH E2 **3AID4-05/3AID4-21 DSA/DSA LAB** AB - II (2208) Ms.Neetu Joshi				BATCH E2 **3AID4-05/3AID4-21 DSA/DSA LAB** Ms.Neetu Joshi		
Sa	BATCH E1 **3AID4-05/3AID4-21 DSA/DSA LAB** Ms.Neetu Joshi				**3AID2-01 AEM** Mr.Pradeep Kumar	**3AID1-02 MEFA** Dr. Prince Dawar	**NSP/Library** Dr Kamlesh Gautam
	BATCH E2 **3AID4-07/3AID4-23 SE/SE LAB** AB - II (2208) NF4						

Time Table Coordinators: Dr.Abhishek Sharma, Dy.HoD
Vice Principal, PCE, Director, PCE

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF ADVANCE COMPUTING
III-F(CYBER)

Class Location: AB-I (1209 B)
WEF: 15.08.2023
Tutor Name: Ms. Archana Bhardwaj

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:00	4 12:00 - 13:00	5 13:00 - 14:00	6 14:00 - 15:00
Mon	BATCH F1 **3CCS4-06/3CCS4-22 OOP/OOP LAB** LAB - AB-II (2209F) Ms.Apoorva Bansal				**3CCS1-03 MEFA** Dr. Prince Dawar	**3CCS2-01 AEM** Mr.Pradeep Kumar	**3CCS7-30 Indistrial Training** NF-2D
	BATCH F2 **3CCS2-01 AEM tut** Mr.Pradeep Kumar	BATCH F2 **3CCS3-04/3CCS4-24 DE/DE LAB** Mr. Mukesh Chand					
Tues	BATCH F1 **3CCS4-07/3CCS4-23 SE/SE LAB** LAB - AB-II(2209) Ms.Archana Bhardwaj				BATCH F1 **3CCS2-01 AEM tut** Mr.Pradeep Kumar	BATCH F1 **3CCS3-04/3CCS4-24 DE/DE LAB** Mr. Mukesh Chand	
	BATCH F2 **3CCS3-04/3CCS4-24 DE/DE LAB** NF-2D				BATCH F2 **3CCS4-07/3CCS4-23 SE/SE LAB** LAB - AB-I (1209) Ms.Archana Bhardwaj		
Wed	CRT				BATCH F1 **3CCS4-05/3CCS4-21 DSA/DSA LAB** LAB - AB-II (2209E) Ms.Reena Sharma		
					BATCH F2 **3CCS4-06/3CCS4-22 OOP/OOP LAB** Ms.Apoorva Bansal		
Thur	**3CS3-04 DE** Mr. Mukesh Chand	**3CCS1-03 MEFA** Dr. Prince Dawar	**3CCS7-30 Indistrial Training** NF-2D		**3CCS2-01 AEM** Mr.Pradeep Kumar	**3CCS2-01 AEM** Mr.Pradeep Kumar	**NSP/Library** Ms. Anjuli Dubey
Fri	BATCH F1 **3CCS4-06/3CCS4-22 OOP/OOP LAB** LAB - AB-I (1209) Ms.Apoorva Bansal				BATCH F1 **3CCS4-07/3CCS4-23 SE/SE LAB** Ms.Archana Bhardwaj		
	BATCH F2 **3CCS4-05/3CCS4-21 DSA/DSA LAB** Ms.Reena Sharma				BATCH F2 **3CCS4-06/3CCS4-22 OOP/OOP LAB** LAB - AB-I (1209) Ms.Apoorva Bansal		
Sa	BATCH F1 **3CCS3-04/3CCS4-24 DE/DE LAB** AB-II (2208-A) NF-2D				BATCH F1 **3CCS4-05/3CCS4-21 DSA/DSA LAB** Ms.Reena Sharma		
	BATCH F2 **3CCS4-05/3CCS4-21 DSA/DSA LAB** Ms.Reena Sharma				BATCH F2 **3CCS4-07/3CCS4-23 SE/SE LAB** AB - II (2208) Ms.Archana Bhardwaj		

Time Table Coordinators: Dr.Abhishek Sharma, Dy.HoD
Vice Principal, PCE, Director, PCE

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF ADVANCE COMPUTING
V-D(AI)

Class Location: AB-II (2204)
WEF: 15.08.2023
Tutor Name: Ms. Reena Sharma

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:00	4 12:00 - 13:00	5 13:00 - 14:00	6 14:00 - 15:00
Mon	**ELECTIVE (V-AC)** Ms.Reena Sharma / Ms.Neetu Joshi / Dr. Neha Mahala	BATCH D1 **5CAI4-05/5CS4-23 AOA/AOA LAB** LAB - AB-I (1202) NF7 BATCH D2 **5CAI4-04/5CAI4-21 CGM/ CGM LAB** NF8			**5CAI4-04 CGM** NF3	BATCH D1 **5CAI4-24 Adv. Java Lab** LAB - AB-I (1101A) NF-2C BATCH D2 **5CAI4-05/5CS4-23 AOA/AOA LAB** NF9	
Tues	**ELECTIVE (V-AC)** Ms.Reena Sharma / Ms.Neetu Joshi / Dr. Neha Mahala	**5CAI3-01 DMT** Dr Kamlesh Gautam	**5CAI4-03 OS** NF-2F		CRT		
Wed	**5CAI4-03 OS** NF-2F	BATCH D1 **5CAI4-24 Adv. Java Lab** LAB - AB-I (1203) NF-2C BATCH D2 **5CAI4-05/5CS4-23 AOA/AOA LAB** NF9			**5CAI3-01 DMT** Dr Kamlesh Gautam	BATCH D1 **5CAI4-04/5CAI4-21 CGM/ CGM LAB** LAB - AB-I (1207) NF8 BATCH D2 **5CAI4-02/5CAI4-22 CD/CD LAB** LAB - AB-I (1108) NF10	
Thur	BATCH D1 **5CAI4-05/5CS4-23 AOA/AOA LAB** LAB - AB-I (1201-A) NF7 BATCH D2 **5CAI4-02/5CAI4-22 CD/CD LAB** LAB - AB-I (1108) NF10	**5CAI4-04 CGM** NF3			**5CAI4-03 OS** NF-2F	**5CAI7-30 Industrial Training** Ms.Reena Sharma	**NSP/Library** NF-2E
Fri	BATCH D1 **5CAI4-02/5CAI4-22 CD/CD LAB** LAB - AB-I (1107) NF10 BATCH D2 **5CAI4-04/5CAI4-21 CGM/ CGM LAB** NF8	**5CAI3-01 DMT** Dr Kamlesh Gautam			**5CAI3-01 DMT** Dr Kamlesh Gautam	**5CAI4-04 CGM** NF3	**5CAI7-30 Industrial Training** Ms.Reena Sharma
Sa	BATCH D1 **5CAI4-04/5CAI4-21 CGM/ CGM LAB** LAB - AB-I (1110) NF8 BATCH D2 **5CAI4-24 Adv. Java Lab** LAB - AB-I (1203) NF-2C	**NSP/Library** NF-2E			BATCH D1 **5CAI4-02/5CAI4-22 CD/CD LAB** LAB - AB-I (1102) NF10 BATCH D2 **5CAI4-24 Adv. Java Lab** LAB - AB-I (1108) NF-2C		**5CAI4-03 OS** NF-2F

Time Table Coordinators: Dr.Abhishek Sharma, Dy.HoD
Vice Principal, PCE, Director, PCE

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF ADVANCE COMPUTING
V-E(AI&DS)

Class Location: AB-II (2205)
WEF: 15.08.2023
Tutor Name: Mr. Gaurav Sharma

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:00	4 12:00 - 13:00	5 13:00 - 14:00	6 14:00 - 15:00
Mon	AB - II (2204) **ELECTIVE (V-AC)** Ms.Reena Sharma / Ms.Neetu Joshi / Dr. Neha Mahala	BATCH E1 **5AID4-02/5AID4-22 CD/CD LAB** LAB - AB-I (1209) NF6 BATCH E2 **5AID4-04/5AID4-21 CGM/ CGM LAB** LAB - AB-I (1207) NF10			BATCH E1 **5AID4-24 Adv. Java Lab** LAB - AB-I (1102) NF-2D BATCH E2 **5AID4-02/5AID4-22 CD/CD LAB** LAB - AB-I (1107) NF6	**5AID4-03 OS** NN	
Tues	AB - II (2204) **ELECTIVE (V-AC)** Ms.Reena Sharma / Ms.Neetu Joshi / Dr. Neha Mahala	**5AID3-01 DMCT** NF8	**5AID4-03 OS** NN		**5AID3-01 DMCT** NF8	BATCH E1 **5AID4-05/5AID4-23 AOA/AOA LAB** NF8 BATCH E2 **5AID4-05/5AID4-23 AOA/AOA LAB** LAB - AB-I (1101A) NF9	
Wed	**5AID7-30 Industrial Training** Dr Kamlesh Gautam	**5AID3-01 DMCT** NF8	**5AID4-04 CGM** NF-2G		CRT		
Thur	BATCH E1 **5AID4-05/5AID4-23 AOA/AOA LAB** NF8 BATCH E2 **5AID4-24 Adv. Java Lab** LAB - AB-I (1202) Mr Gaurav Sharma	**5AID3-01 DMCT** NF8			**5AID7-30 Industrial Training** Dr Kamlesh Gautam	BATCH E1 **5AID4-24 Adv. Java Lab** LAB - AB-I (1209) NF-2D BATCH E2 **5AID4-04/5AID4-21 CGM/ CGM LAB** LAB - AB-I (1202) NF10	
Fri	**5AID4-03 OS** NN	**NSP/Library** Dr Kamlesh Gautam	**5AID4-04 CGM** NF-2G		**5AID3-01 DMCT** NF8	BATCH E1 **5AID4-04/5AID4-21 CGM/ CGM LAB** NF10 BATCH E2 **5AID4-24 Adv. Java Lab** LAB - AB-I (1108) Mr Gaurav Sharma	
Sa	**5AID4-03 OS** NN	BATCH E1 **5AID4-04/5AID4-21 CGM/ CGM LAB** NF10 BATCH E2 **5AID4-02/5AID4-22 CD/CD LAB** LAB - AB-I (1202) NF6			BATCH E1 **5AID4-02/5AID4-22 CD/CD LAB** LAB - AB-I (1201-A) NF6 BATCH E2 **5AID4-05/5AID4-23 AOA/AOA LAB** LAB - AB-I (1110) NF9	**NSP/Library** Dr Kamlesh Gautam	

Time Table Coordinators: Dr.Abhishek Sharma, Dy.HoD
Vice Principal, PCE, Director, PCE

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF ADVANCE COMPUTING
V-F(CYBER)

Class Location: AB-II (2207)
WEF: 15.08.2023
Tutor Name: Ms. Appoorva Bansal

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:00	4 12:00 - 13:00	5 13:00 - 14:00	6 14:00 - 15:00
Mon	AB - II (2204) **ELECTIVE (V-AC)** Ms.Reena Sharma / Ms.Neetu Joshi / Dr. Neha Mahala	**5CCS4-03 OS** Dr. Neha Mahala	**5CCS7-30 Industrial Training** Ms.Archana Bhardwaj		**5CCS3-01 DMCT** NF-2G	**5CCS4-04 CGM** NF-2G	**NSP/Library** NF-2E
Tues	AB - II (2204) **ELECTIVE (V-AC)** Ms.Reena Sharma / Ms.Neetu Joshi / Dr. Neha Mahala	BATCH F1 **5CCS4-24 Adv. Java Lab** LAB - AB-I (1210C) NF-2C BATCH F2 **5CCS4-02/5CCS4-22 CD/CD LAB** LAB - AB-I (1209) NF6			**5CCS3-01 DMCT** NF-2G	BATCH F1 **5CCS4-02/5CCS4-22 CD/CD LAB** LAB - AB-I (1102) Dr Kamlesh Gautam BATCH F2 **5CCS4-24 Adv. Java Lab** LAB - AB-I (1107) NF-2F	
Wed	**5CCS4-03 OS** Dr. Neha Mahala	BATCH F1 **5CCS4-04/5CCS4-21 CGM/ CGM LAB** NF4 BATCH F2 **5CCS4-02/5CCS4-22 CD/CD LAB** LAB - AB-II (2209F) NF6			CRT		
Thur	**5CCS4-04 CGM** NF-2G	BATCH F1 **5CCS4-04/5CCS4-21 CGM/ CGM LAB** NF4 BATCH F2 **5CCS4-05/5CCS4-23 AOA/ AOA LAB** LAB - AB-I (1207) NF9			**5CCS3-01 DMCT** NF-2G	BATCH F1 **5CCS4-05/5CCS4-23 AOA/ AOA LAB** NF9 BATCH F2 **5CCS4-04/5CCS4-21 CGM/ CGM LAB** LAB - AB-I (1208) NF6	
Fri	BATCH F1 **5CCS4-24 Adv. Java Lab** LAB - AB-I (1202) NF-2C BATCH F2 **5CCS4-05/5CCS4-23 AOA/ AOA LAB** LAB - AB-I (1108) NF9		**5CCS4-03 OS** Dr. Neha Mahala		BATCH F1 **5CCS4-05/5CCS4-23 AOA/ AOA LAB** NF9 BATCH F2 **5CCS4-04/5CCS4-21 CGM/ CGM LAB** LAB - AB-I (1201-A) NF6		**5CCS4-03 OS** Dr. Neha Mahala
Sa	**5CCS3-01 DMCT** NF-2G	**5CCS4-04 CGM** NF-2G	**5CCS7-30 Industrial Training** Ms.Archana Bhardwaj		BATCH F1 **5CCS4-02/5CCS4-22 CD/CD LAB** LAB - AB-I (1202) Dr Kamlesh Gautam BATCH F2 **5CCS4-24 Adv. Java Lab** LAB - AB-I (1207) NF-2F		**NSP/Library** NF-2E

Time Table Coordinators: Dr.Abhishek Sharma, Dy.HoD
Vice Principal, PCE, Director, PCE

EVEN WEEK

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF ADVANCE COMPUTING
III-D(AI)

Class Location: AB-II (2105)
WEF: 15.08.2023
Tutor Name: Ms.Deepika Agrawal

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:00	4 12:00 - 13:00	5 13:00 - 14:00	6 14:00 - 15:00
Mon	BATCH D1 **3CAI4-06/3CAI4-22 OOP/OOP LAB** Mr Gaurav Sharma BATCH D2 **3CAI3-04/3CAI4-24 DE/DE LAB** LAB - AB-I (1210C) NF-2G				**3CAI7-30 IT** Ms.Archana Bhardwaj	**3CAI1-03 MEFA** Dr. Prince Dawar	**3CAI2-01 AEM** Mr.Pradeep Kumar
Tues	CRT				BATCH D1 **3CAI3-04/3CAI4-24 DE/DE LAB** LAB - AB-I (1207) Dr. Neha Mahala BATCH D2 **3CAI4-06/3CAI4-22 OOP/OOP LAB** Mr Gaurav Sharma		
Wed	BATCH D1 **3CAI4-05/3CAI4-21 DSA/DSA LAB** NN BATCH D2 **3CAI4-06/3CAI4-22 OOP/OOP LAB** LAB - AB-II (2209E) Mr Gaurav Sharma				BATCH D1 **3CAI4-05/3CAI4-21 DSA/DSA LAB** LAB - AB-I (1203) NN BATCH D2 **3CAI4-07/3CAI4-23 SE/SE LAB** NF3		
Thur	BATCH D1 **3CAI3-04/3CAI4-24 DE/DE LAB** LAB - AB-I (1109) Dr. Neha Mahala	BATCH D1 **3CS2-01 AEM Tut** AB-I (1209- A) Mr.Pradeep Kumar			BATCH D1 **3CAI4-07/3CAI4-23 SE/SE LAB** NF3 BATCH D2 **3CAI4-05/3CAI4-21 DSA/DSA LAB** AB - II (2208) NN		
Fri	**3CAI1-03 MEFA** Dr. Prince Dawar	**3CAI7-30 IT** Ms.Archana Bhardwaj	**3CAI2-01 AEM** Mr.Pradeep Kumar		**3CAI2-01 AEM** Mr.Pradeep Kumar	**3CS3-04 DE** Dr. Neha Mahala	**NSP/Library** Dr Kamlesh Gautam

Time Table Coordinators: Dr.Abhishek Sharma, Dy.HoD
Vice Principal, PCE, Director, PCE

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF ADVANCE COMPUTING
III-E(AI&DS)

Class Location: AB-II (2107)
WEF: 15.08.2023
Tutor Name: Ms. Neetu

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:00	4 12:00 - 13:00	5 13:00 - 14:00	6 14:00 - 15:00
Mon	**3CS3-04 DE** Mr. Mukesh Chand	**3CAI7-30 IT** Ms.Neetu Joshi	**3AID2-01 AEM** Mr.Pradeep Kumar		BATCH E1 **3AID4-06/3AID4-22 OOP/OOP LAB** LAB - AB-I (1108) NF7 BATCH E2 **3AID3-04/3AID4-24 DE/DE LAB** Mr. Mukesh Chand		
Tues	BATCH E1 **3AID4-07/3AID4-23 SE/SE LAB** LAB - AB-II(2209D) NF4 BATCH E2 **3AID4-06/3AID4-22 OOP/OOP LAB** NF7				**3CAI7-30 IT** Ms.Neetu Joshi	**3AID1-02 MEFA** Dr. Prince Dawar	**3AID2-01 AEM** Mr.Pradeep Kumar
Wed	CRT				BATCH E1 **3AID2-01 AEM Tut** Mr.Pradeep Kumar BATCH E1 **3AID3-04/3AID4-24 DE/DE LAB** Mr. Mukesh Chand BATCH E2 **3AID4-06/3AID4-22 OOP/OOP LAB** LAB - AB-II (2209F) NF7		
Thur	BATCH E1 **3AID4-05/3AID4-21 DSA/DSA LAB** LAB - AB-I (1203) Ms.Neetu Joshi BATCH E2 **3AID2-01 AEM Tut** Mr.Pradeep Kumar BATCH E2 **3AID3-04/3AID4-24 DE/DE LAB** Mr. Mukesh Chand				BATCH E1 **3AID3-04/3AID4-24 DE/DE LAB** AB-II (2103) Mr. Mukesh Chand BATCH E2 **3AID4-07/3AID4-23 SE/SE LAB** NF4		
Fri	BATCH E1 **3AID4-07/3AID4-23 SE/SE LAB** NF4 BATCH E2 **3AID4-05/3AID4-21 DSA/DSA LAB** AB - II (2208) Ms.Neetu Joshi				BATCH E1 **3AID4-06/3AID4-22 OOP/OOP LAB** AB - II (2208) NF7 BATCH E2 **3AID4-05/3AID4-21 DSA/DSA LAB** Ms.Neetu Joshi		

Time Table Coordinators: Dr.Abhishek Sharma, Dy.HoD
Vice Principal, PCE, Director, PCE

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF ADVANCE COMPUTING
III-F(CYBER)

Class Location: AB-I (1209 B)
WEF: 15.08.2023
Tutor Name: Ms. Archana Bhardwaj

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:00	4 12:00 - 13:00	5 13:00 - 14:00	6 14:00 - 15:00
Mon	BATCH F1 **3CCS4-06/3CCS4-22 OOP/OOP LAB** LAB - AB-II (2209F) Ms.Apoorva Bansal BATCH F2 **3CCS2-01 AEM tut** Mr.Pradeep Kumar BATCH F2 **3CCS3-04/3CCS4-24 DE/DE LAB** Mr. Mukesh Chand				**3CCS1-03 MEFA** Dr. Prince Dawar	**3CCS2-01 AEM** Mr.Pradeep Kumar	**3CCS7-30 Indistrial Training** NF-2D
Tues	BATCH F1 **3CCS4-07/3CCS4-23 SE/SE LAB** LAB - AB-II(2209) Ms.Archana Bhardwaj BATCH F2 **3CCS3-04/3CCS4-24 DE/DE LAB** NF-2D				BATCH F1 **3CCS2-01 AEM tut** Mr.Pradeep Kumar BATCH F1 **3CCS3-04/3CCS4-24 DE/DE LAB** Mr. Mukesh Chand BATCH F2 **3CCS4-07/3CCS4-23 SE/SE LAB** LAB - AB-I (1209) Ms.Archana Bhardwaj		
Wed	CRT				BATCH F1 **3CCS4-05/3CCS4-21 DSA/DSA LAB** LAB - AB-II (2209E) Ms.Reena Sharma BATCH F2 **3CCS4-06/3CCS4-22 OOP/OOP LAB** Ms.Apoorva Bansal		
Thur	**3CS3-04 DE** Mr. Mukesh Chand	**3CCS1-03 MEFA** Dr. Prince Dawar	**3CCS7-30 Indistrial Training** NF-2D		**3CCS2-01 AEM** Mr.Pradeep Kumar	**3CCS2-01 AEM** Mr.Pradeep Kumar	**NSP/Library** Ms. Anjuli Dubey
Fri	BATCH F1 **3CCS4-06/3CCS4-22 OOP/OOP LAB** LAB - AB-I (1209) Ms.Apoorva Bansal BATCH F2 **3CCS4-05/3CCS4-21 DSA/DSA LAB** Ms.Reena Sharma				BATCH F1 **3CCS4-07/3CCS4-23 SE/SE LAB** Ms.Archana Bhardwaj BATCH F2 **3CCS4-06/3CCS4-22 OOP/OOP LAB** LAB - AB-I (1209) Ms.Apoorva Bansal		

Time Table Coordinators: Dr.Abhishek Sharma, Dy.HoD
Vice Principal, PCE, Director, PCE

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF ADVANCE COMPUTING
V-D(AI)

Class Location: AB-II (2204)
WEF: 15.08.2023
Tutor Name: Ms. Reena Sharma

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:00	4 12:00 - 13:00	5 13:00 - 14:00	6 14:00 - 15:00
Mon	**ELECTIVE (V-AC)** Ms.Reena Sharma / Ms.Neetu Joshi / Dr. Neha Mahala	**5CAI4-05/5CS4-23 AOA/AOA LAB** BATCH D1 LAB - AB-I (1202) NF7 **5CAI4-04/5CAI4-21 CGM/ CGM LAB** BATCH D2 NF8			**5CAI4-04 CGM** NF3	**5CAI4-24 Adv. Java Lab** BATCH D1 LAB - AB-I (1101A) NF-2C **5CAI4-05/5CS4-23 AOA/AOA LAB** BATCH D2 NF9	
Tues	**ELECTIVE (V-AC)** Ms.Reena Sharma / Ms.Neetu Joshi / Dr. Neha Mahala	**5CAI3-01 DMT** Dr Kamlesh Gautam	**5CAI4-03 OS** NF-2F		CRT		
Wed	**5CAI4-03 OS** NF-2F	**5CAI4-24 Adv. Java Lab** BATCH D1 LAB - AB-I (1203) NF-2C **5CAI4-05/5CS4-23 AOA/AOA LAB** BATCH D2 NF9			**5CAI3-01 DMT** Dr Kamlesh Gautam	**5CAI4-04/5CAI4-21 CGM/ CGM LAB** BATCH D1 LAB - AB-I (1207) NF8 **5CAI4-02/5CAI4-22 CD/CD LAB** BATCH D2 LAB - AB-I (1108) NF10	
Thur	**5CAI4-05/5CS4-23 AOA/AOA LAB** BATCH D1 LAB - AB-I (1201-A) NF7 **5CAI4-02/5CAI4-22 CD/CD LAB** BATCH D2 LAB - AB-I (1108) NF10	**5CAI4-04 CGM** NF3			**5CAI4-03 OS** NF-2F	**5CAI7-30 Industrial Training** Ms.Reena Sharma	**NSP/Library** NF-2E
Fri	**5CAI4-02/5CAI4-22 CD/CD LAB** BATCH D1 LAB - AB-I (1107) NF10 **5CAI4-04/5CAI4-21 CGM/ CGM LAB** BATCH D2 NF8	**5CAI3-01 DMT** Dr Kamlesh Gautam			**5CAI3-01 DMT** Dr Kamlesh Gautam	**5CAI4-04 CGM** NF3	**5CAI7-30 Industrial Training** Ms.Reena Sharma
Sa	**5CAI4-04/5CAI4-21 CGM/ CGM LAB** BATCH D1 LAB - AB-I (1110) NF8 **5CAI4-24 Adv. Java Lab** BATCH D2 LAB - AB-I (1203) NF-2C	**NSP/Library** NF-2E			**5CAI4-02/5CAI4-22 CD/CD LAB** BATCH D1 LAB - AB-I (1102) NF10 **5CAI4-24 Adv. Java Lab** BATCH D2 LAB - AB-I (1108) NF-2C		**5CAI4-03 OS** NF-2F

Time Table Coordinators: Dr.Abhishek Sharma, Dy.HoD
Vice Principal, PCE, Director, PCE

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF ADVANCE COMPUTING
V-E(AI&DS)

Class Location: AB-II (2205)
WEF: 15.08.2023
Tutor Name: Mr. Gaurav Sharma

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:00	4 12:00 - 13:00	5 13:00 - 14:00	6 14:00 - 15:00
Mon	AB - II (2204) **ELECTIVE (V-AC)** Ms.Reena Sharma / Ms.Neetu Joshi / Dr. Neha Mahala	**5AID4-02/5AID4-22 CD/CD LAB** BATCH E1 LAB - AB-I (1209) NF6 **5AID4-04/5AID4-21 CGM/ CGM LAB** BATCH E2 LAB - AB-I (1207) NF10			**5AID4-24 Adv. Java Lab** BATCH E1 LAB - AB-I (1102) NF-2D **5AID4-02/5AID4-22 CD/CD LAB** BATCH E2 LAB - AB-I (1107) NF6	**5AID4-03 OS** NN	
Tues	AB - II (2204) **ELECTIVE (V-AC)** Ms.Reena Sharma / Ms.Neetu Joshi / Dr. Neha Mahala	**5AID3-01 DMCT** NF8	**5AID4-03 OS** NN		**5AID3-01 DMCT** NF8	**5AID4-05/5AID4-23 AOA/AOA LAB** BATCH E1 NF8 **5AID4-05/5AID4-23 AOA/AOA LAB** BATCH E2 LAB - AB-I (1101A) NF9	
Wed	**5AID7-30 Industrial Training** Dr Kamlesh Gautam	**5AID3-01 DMCT** NF8	**5AID4-04 CGM** NF-2G		CRT		
Thur	**5AID4-05/5AID4-23 AOA/AOA LAB** BATCH E1 NF8 **5AID4-24 Adv. Java Lab** BATCH E2 LAB - AB-I (1202) Mr Gaurav Sharma		**5AID3-01 DMCT** NF8		**5AID7-30 Industrial Training** Dr Kamlesh Gautam	**5AID4-24 Adv. Java Lab** BATCH E1 LAB - AB-I (1209) NF-2D **5AID4-04/5AID4-21 CGM/ CGM LAB** BATCH E2 LAB - AB-I (1202) NF10	
Fri	**5AID4-03 OS** NN	**NSP/Library** Dr Kamlesh Gautam	**5AID4-04 CGM** NF-2G		**5AID3-01 DMCT** NF8	**5AID4-04/5AID4-21 CGM/ CGM LAB** BATCH E1 NF10 **5AID4-24 Adv. Java Lab** BATCH E2 LAB - AB-I (1108) Mr Gaurav Sharma	
Sa	**5AID4-03 OS** NN	**5AID4-04/5AID4-21 CGM/ CGM LAB** BATCH E1 NF10 **5AID4-02/5AID4-22 CD/CD LAB** BATCH E2 LAB - AB-I (1202) NF6			**5AID4-02/5AID4-22 CD/CD LAB** BATCH E1 LAB - AB-I (1201-A) NF6 **5AID4-05/5AID4-23 AOA/AOA LAB** BATCH E2 LAB - AB-I (1110) NF9	**NSP/Library** Dr Kamlesh Gautam	

Time Table Coordinators: Dr.Abhishek Sharma, Dy.HoD
Vice Principal, PCE, Director, PCE

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF ADVANCE COMPUTING
V-F(CYBER)

Class Location: AB-II (2207)
WEF: 15.08.2023
Tutor Name: Ms. Appoorva Bansal

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:00	4 12:00 - 13:00	5 13:00 - 14:00	6 14:00 - 15:00
Mon	AB - II (2204) **ELECTIVE (V-AC)** Ms.Reena Sharma / Ms.Neetu Joshi / Dr. Neha Mahala	**5CCS4-03 OS** Dr. Neha Mahala	**5CCS7-30 Industrial Training** Ms.Archana Bhardwaj		**5CCS3-01 DMCT** NF-2G	**5CCS4-04 CGM** NF-2G	**NSP/Library** NF-2E
Tues	AB - II (2204) **ELECTIVE (V-AC)** Ms.Reena Sharma / Ms.Neetu Joshi / Dr. Neha Mahala	BATCH F1 **5CCS4-24 Adv. Java Lab** LAB - AB-I (1210C) NF-2C BATCH F2 **5CCS4-02/5CCS4-22 CD/CD LAB** LAB - AB-I (1209) NF6			**5CCS3-01 DMCT** NF-2G	BATCH F1 **5CCS4-02/5CCS4-22 CD/CD LAB** LAB - AB-I (1102) Dr Kamlesh Gautam BATCH F2 **5CCS4-24 Adv. Java Lab** LAB - AB-I (1107) NF-2F	
Wed	**5CCS4-03 OS** Dr. Neha Mahala	BATCH F1 **5CCS4-04/5CCS4-21 CGM/ CGM LAB** NF4 BATCH F2 **5CCS4-02/5CCS4-22 CD/CD LAB** LAB - AB-II (2209F) NF6			CRT		
Thur	**5CCS4-04 CGM** NF-2G	BATCH F1 **5CCS4-04/5CCS4-21 CGM/ CGM LAB** NF4 BATCH F2 **5CCS4-05/5CCS4-23 AOA/ AOA LAB** LAB - AB-I (1207) NF9			**5CCS3-01 DMCT** NF-2G	BATCH F1 **5CCS4-05/5CCS4-23 AOA/ AOA LAB** NF9 BATCH F2 **5CCS4-04/5CCS4-21 CGM/ CGM LAB** LAB - AB-I (1208) NF6	
Fri	BATCH F1 **5CCS4-24 Adv. Java Lab** LAB - AB-I (1202) NF-2C BATCH F2 **5CCS4-05/5CCS4-23 AOA/ AOA LAB** LAB - AB-I (1108) NF9		**5CCS4-03 OS** Dr. Neha Mahala		BATCH F1 **5CCS4-05/5CCS4-23 AOA/ AOA LAB** NF9 BATCH F2 **5CCS4-04/5CCS4-21 CGM/ CGM LAB** LAB - AB-I (1201-A) NF6		**5CCS4-03 OS** Dr. Neha Mahala
Sa	**5CCS3-01 DMCT** NF-2G	**5CCS4-04 CGM** NF-2G	**5CCS7-30 Industrial Training** Ms.Archana Bhardwaj		BATCH F1 **5CCS4-02/5CCS4-22 CD/CD LAB** LAB - AB-I (1202) Dr Kamlesh Gautam BATCH F2 **5CCS4-24 Adv. Java Lab** LAB - AB-I (1207) NF-2F		**NSP/Library** NF-2E

Time Table Coordinators: Dr.Abhishek Sharma, Dy.HoD
Vice Principal, PCE, Director, PCE

9 Course Outcome Attainment Process:

9.1 Course Outcome Attainment Process

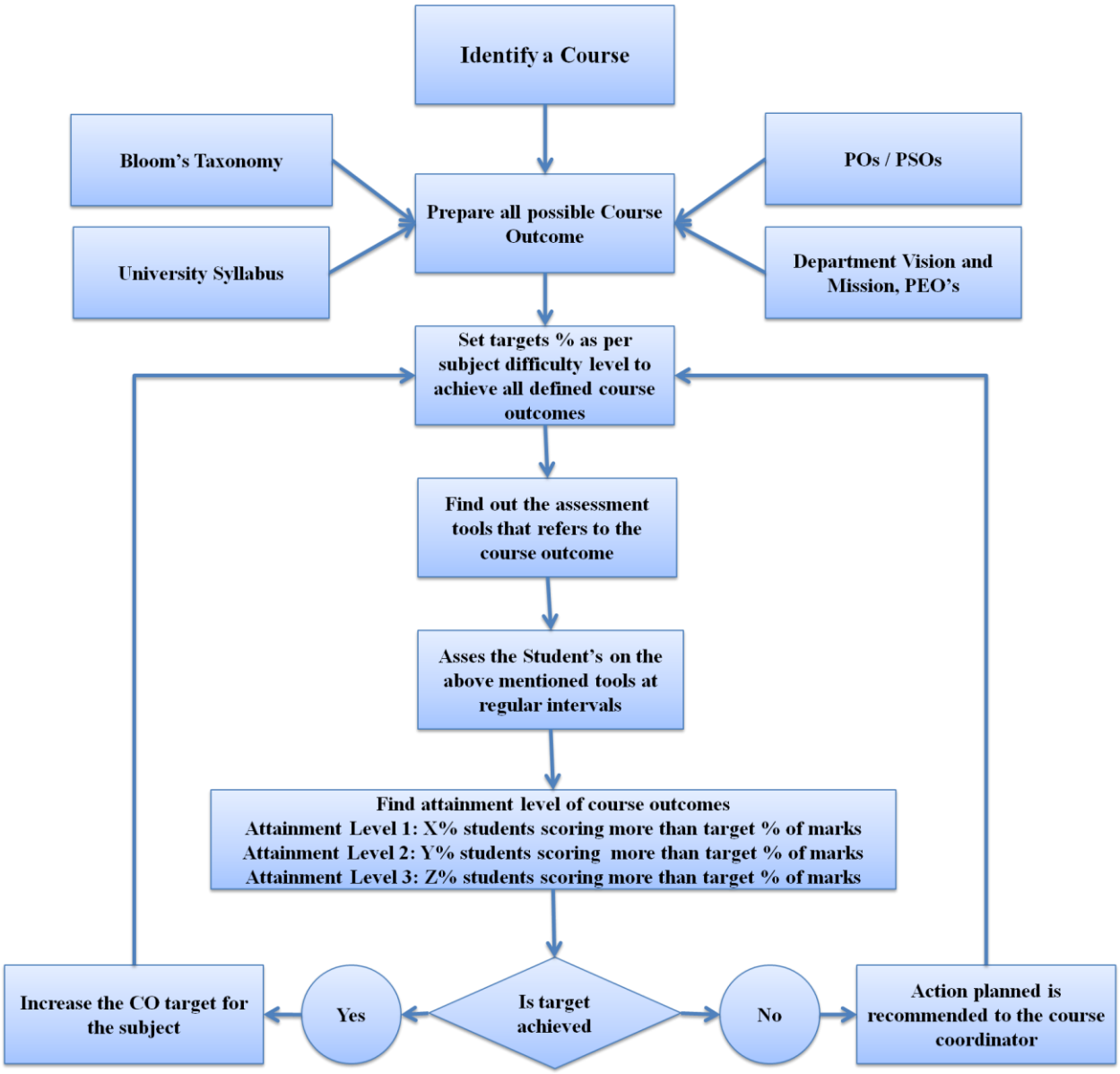


Figure. Course Outcome Attainment Process

9.2 List of CO & CO mapping with PO

Department of Advance Computing																			
CO-PO Mapping (Session 2022-23)																			
S. No	Course Code	Course Name	CO No	Course Outcomes (After completing the course students will be able to…...)	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
1	1FY2-01	Engineering Mathematics-I	CO 1	Students will be able to define and explain basic concepts definite integrals, sequence and series, periodic functions and multivariable functions.	**1**	-	-	-	**2**	-	-	-	-	-	-	-	-	-	-
			CO 2	Students will be able to understand properties of beta and gamma function, convergence of sequence and series.	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO 3	The students will be able to apply properties of beta and gamma functions and definite integrals to find surface area and volumes of revolution. They will be able to apply partial derivatives and multiple integrals to solve many problems in science and engineering.	**3**	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-

			CO 4	Students will be able to analyse Fourier series to make many useful deductions which lay down foundation of signal processing and image processing.	**2**	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	2.5	-	-	2	-	-	-	-	-	-	-	-	-	-	-
2	1FY 2-03	Engineering Chemistry	CO 1	Describe characteristics of water, fuel and Engineering materials-	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
			CO 2	Determine of hardness of water and calorific value of fuels for Industrial as well as domestic purposes	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
			CO 3	Compare different techniques of water treatment, fuel analysis, Manufacturing of engineering materials and corrosion protection methods	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO 4	Prepare the generic drugs or medicines by identifying the applications of organic reaction mechanism and manufacturing of engineering materials	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	**2**	-	-	-	-	-	-	-	-	-	-	-	-	**1**	**2**

3	1FY 1-04	Communication Skills	CO 1	Describe the process of communication, basics of Grammar and Writing and Literary Aspects	-	-	-	-	-	-	-	-	-	**1**	-	-	-	-	-
			CO 2	Explain the types of communication, barriers and channels of communication and the concept of Literature through Short Stories and poetry		-	-	-	-	-	-	-	-	**2**	-	-	-	-	-
			CO 3	Write and prepare professional reports, paragraph and business letters with the correct use of grammar	-	-	-	-	-	-	-	-	-	**3**	-	-	-	-	-
			CO 4	Discuss and illustrate the impact of social and moral values by implying the basics of English Writing Skills through literary aspects	-	-	-	-	-	-	-	**2**	-	-	-	-	-	-	-
			CO 5	Restate and outline the basic areas of English Language Skills with the applications of literature	-	-	-	-	-	-	-	-	-	-	-	**2**	-	-	-
					-	**-**	**-**	**-**	**-**	**-**	**-**	**2**	**-**	**2**	**-**	**2**	**-**	**-**	**-**
4	1FY 3-07	Basic Mechanical Engineering	CO 1	Students will be able to retrieve basic concepts of thermal and manufacturing process.	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-

			CO 2	Students will able to compare different types of thermal and manufacturing processes and.	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO 3	Students will able to annotating about the functioning of turbine & pumps, IC engines, refrigeration system, modes of transmission of power, materials and primary manufacturing process.	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO 4	Student will be able to appraise the fundamental knowledge of thermal engineering, in addition to understanding of power transmission to solve the industrial and societal issues.	-	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-
5	1FY 3-08	Basic Electrical Engineering	CO 1	Identify basic components of electrical engineering and connect them to form different	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-

				circuits to verify basic laws.Understanding															
			CO 2	Analyse the output of rectifier circuit,AC and DC machines to solve problems assosciated with Basic electrical engineering.Analyse	**2**	**3**	-	-	-	-	-	-	-	-	-	-	**1**	-	-
			CO 3	Contribute efficiently in a team to acieve desired response of AC and DC Machines. Team Work	-	-	-	-	-	-	-	-	**3**	-	-	-	-	-	-
			CO 4	Demonstrate the output of rectifier circuits consistiong of basic components of electrical engineering. Mechanism	-	-	-	-	-	-	-	-	-	-	**3**	-	**2**	-	-
					2.5	**3**	-	-	-	-	-	-	**3**	-	**3**	-	**1.5**	-	-
6	1FY 2-21	Engineering Chemistry Lab	CO 1	Determine the strength of unknown solution by volumetric analysis.	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO 2	Examine the characteristics of lubricating oil in groups	-	-	-	-	-	-	-	-	**2**	-	-	-	-	-	-
			CO 3	Analyze different characteristics of water and fuel to solve societal and enviornmental problems	-	-	-	-	-	-	**2**	-	-	-	-	-	-	-	-
			CO 4	Students will show an ability to work as a team member ethically	-	-	-	-	-	-	-	**2**	**3**	-	-	-	-	-	-

					1	**-**	**-**	**-**	**-**	**-**	**2**	**2**	**2.5**	**-**	**-**	**-**	**-**	**-**	**-**
7	1FY 1-22	Language Lab	CO 1	Use and pronounce the words correctly.	-	-	-	-	-	-	-	-	-	**1**	-	-	-	-	-
			CO 2	Acquire knowledge of the correct expressions,vocabulary etc. in personal and professional lives.	-	-	-	-	-	-	-	-	-	**2**	-	-	-	-	-
			CO 3	Plan successfully for leadership and teamwork,crack GD's, interviews and other professional activities.	-	-	-	-	-	-	-	-	**2**	-	-	-	-	-	-
			CO 4	Synthesize the process of communication using LSRW.	-	-	-	-	-	-	-	-	-	**3**	-	-	-	-	-
					-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2**	**2**	**-**	**-**	**-**	**-**	**-**
8	1FY 3-25	Manufacturing Practices Workshop	CO 1	Describe the working of Lathe machine.	**1**	-	-	-	-	-	-	-	-	-	-	-	**1**	-	-
			CO 2	Apply the basic concepts of Foundry Shop	**2**	-	-	-	-	-	-	-	-	-	-	-	**1**	-	-
			CO 3	Develop various carpentry joints, welding joints and sheet metal objects.	-	**2**	-	-	-	-	-	-	-	-	-	-	**1**	-	-
			CO 4	Students will show an ability to work as a team member ethically	-	-	-	-	-	-	-	**2**	**3**	-	-	-	-	-	-
					1.5	**2**	**-**	**-**	**-**	**-**	**-**	**2**	**3**	**-**	**-**	**-**	**1**	**-**	**-**
9	1FY 3-26	Basic Electrical Engineering Lab	CO 1	Discuss measurement of electrical quantites	**1**	-	-	-	-	-	-	-	-	-	-	-	**1**	**2**	-
			CO 2	Compare different	**2**	-	-	-	-	-	-	-	-	-	-	-	**1**	**2**	-

				connections of transformer															
			CO 3	Demonstrate constructional features of electrical machines and converters	**3**	-	-	-	-	-	-	-	-	-	-	-	**2**	**2**	-
			CO 4	Students will show an ability to communicate effectively and work as a team member ethically	-	-	-	-	-	-	-	**2**	**3**	**2**	-	-	-	-	-
					2	-	-	-	-	-	-	**2**	**3**	**2**	-	-	**1.3333**	**2**	-
10	1FY 3-28	Computer Aided Engineering Graphics	CO 1	Describe engineering drawing terminology, concept of scales and conic sections.	**1**	-	-	-	-		-	-	-	-	-	-	**1**	-	-
			CO 2	Draw Projection of Points, lines, planes, solids and section of solids	-	**1**	-	-	-	-	-	-	-	-	-	-	**2**	-	-
			CO 3	Draft 2D engineering problems on CAD software.	-		-	-	**3**	-	-	-	-	-	-	-		**1**	**1**
			CO 4	Students will show an ability to work as a team member ethically	-	-	-	-	-	-	-	**2**	**3**	-	-	-	-	-	-
					1	**1**	-	-	**3**	-	-	**2**	**3**	-	-	-	**1.5**	**1**	**1**
11	3CS 2-01	Advanced Engineering Mathematics	CO 1	To Define probability models using probability mass (density) functions, need and classification of optimization terminology.	**1**	-	-	-	-	-	-	-	-	-	-	-	2	-	-
			CO 2	To Explain the probability distributions of discrete and continuous random variables and	**2**	-	-	-	-	-	-	-	-	-	-	-	2	1	-

				work binomial, Poisson, uniform, exponential, normal distribution and their statistical measures.															
			CO 3	To Solve mathematical models of the real world problems in optimization using Linear Programming methods such as Transportation, Traveling salesman and many more such problems.	**3**	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-
			CO 4	To Examine the correlation between two variables and regression applications for purposes of description and prediction.	-	**3**	-	-	-	-	-	-	-	-	-	-	-	2	1	1
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	**3**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2**	**1**	**1**
12	3CS 1-03	Managerial Economics and Financial Accounting	CO 1	To Describe the fundamental concepts of Economics and Financial Management and define the meaning of national income, demand, supply, cost, market structure, and balance sheet.	-	-	-	-	-	1	-	-	-	2	3	1	-	-	-
			CO 2	To Calculate the domestic product, national product and elasticity of	-	-	-	-	-	2	-	-	-	-	3	-	-	-	-

				price on demand and supply.															
			CO 3	To Draw the cost graphs, revenue graphs and forecast the impact of change in price in various perfect as well as imperfect market structures.	3	-	2	-	-	-	-	-	-	-	2	-	-	-	-
			CO 4	To Compare the financial statements to interpret the financial position of the firm and evaluate the project investment decisions.	-	3	-	-	-	-	-	-	-	-	2	-	-	-	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					3	**3**	**2**	**-**	**-**	**1.5**	**-**	**-**	**-**	**2**	**2.5**	**1**	**-**	**-**	**-**
13	3CS 3-04	Digital Electronics	CO 1	To Apply the fundamentals of Number Systems and boolean Algebra for solving the numericals and logical problems.	**2**	-	-	-	-	-	-	-	-	-	-	-	**2**	-	-
			CO 2	To Recognize minimization techniques for reducing the size of any digital circuits.	-	**2**	-	-	-	-	-	-	-	-	-	-	**2**	-	-
			CO 3	To Design combinational and sequential circuits with aspects of speed, delay, energy dissipation and power.	-	-	3	-	-	-	-	-	-	-	-	-	**2**	-	-
			CO 4	To Evaluate the performance of Digital Logic	-	-	-	2	-	-	-	-	-	-	-	-	-	**2**	-

				Families and its realization.															
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	**2**	**3**	**2**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2**	**2**	**-**
14	3CS 4-05	Data Structures and Algorithms	CO 1	To explain data structures and their use in daily life .	2	-	-	-	-	-	-	-	-	-	-	-	-	2	-
			CO 2	To analyze the Linear and non Linear data structures like stack, Queues, link list, Graph, Trees to solve real time problems.	-	3	-	-	-	-	-	-	-	-	-	-	-	2	-
			CO 3	To develop searching and sorting algorithms on predefind data	-	-	3	-	-	-	-	-	-	-	-	-	-	-	2
			CO 4	To create the data structures in specific areas like DBMS ,Compiler, Operating system.	-	-	-	3	-	-	-	-	-	-	-	-	-	-	2
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	**3**	**3**	**3**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2**	**2**
15	3CS 4-06	Object Oriented Programming	CO 1	Apply the various programming paradigms such as exception handling, polymorphism in software pattern	2	-	-	-	-	-	-	-	-	-	-	-	3	-	-
			CO 2	Analyze the C++ programs using different programming methodologies.	-	2	-	-	-	-	-	-	-	-	-	-	-	2	-
			CO 3	Design the elements of the object oriented concepts in developing structured	-	-	3	-	-	-	-	-	-	-	-	-	-	2	-

				programs.															
			CO 4	Investigate the real time applications using advance C++ concepts.	-	-	-	3	-	-	-	-	-	-	-	-	-	-	3
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	**2**	**3**	**3**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**3**	**2**	**3**
16	3CS 4-07	Software Engineering	CO 1	To Demostrate software life cycle models with respect to software enginneering principles.	2	-	-	-	-	-	-	-	-	-	-	-	3	-	2
			CO 2	To analyse cost estimation techniqye and risk analysis techniques in software engineering projects.	-	2	-	-	-	-	-	-	-	-	-	-	2	3	-
			CO 3	To Design Software requirement document (SRS)	-	-	3	-	-	-	-	-	-	-	-	-	2	3	-
			CO 4	To synthesize UML diagrams using the concepts of object oriented analysis in software development process.	-	-	-	3	-	-	-	-	-	-	-	-	3	-	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	**2**	**3**	**3**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2.5**	**3**	**2**
17	3CS 4-21	Data Structures and Algorithms Lab	LO 1	To Utilize searching and sorting algorithms on given values.	2	-	-	-	2	-	-	-	-	2	-	-	2	-	-
			LO 2	To analyze the time and space efficiency of the data structure	-	-	-	-	-	2	-	-	-	-	-	-	2	-	-
			LO 3	To Evalute traversing, insertion and	-	-	-	-	-	-	2	-	-	-	-	2	-	2	-

				deletion operations on Linear and non linear data structures															
			LO 4	To construct the solutions for real time applications	-	-	-	-	2	-	-	-	2	-	-	-	-	-	3
			LO 5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	**-**	**-**	**-**	**2**	**2**	**2**	**-**	**2**	**2**	**-**	**2**	**2**	**2**	**3**
18	3CS 4-22	Object Oriented Programming Lab	LO 1	Students will able to apply the programming concepts such as inheritance, polymorphism	-	-	-	-	2	-	-	-	-	-	-	2	3	-	-
			LO 2	Students will be able to distinguish the programming methodologies to implement programs	-	-	-	-	-	2	-	-	-	-	-	2	-	2	-
			LO 3	Students will be able to explain the concepts to develop the structured programs.	-	-	-	-	-	-	2	-	-	-	-	2	-	-	3
			LO 4	Students will be able to construct the solutions for real time problems	-	-	-	-	-	-	-	-	2	-	3	-	-	-	3
			LO 5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					-	**-**	**-**	**-**	**2**	**2**	**2**	**-**	**2**	**-**	**3**	**2**	**3**	**2**	**3**
19	3CS 4-23	Software Engineering Lab	LO 1	Understand and explain the basic concepts of UML, design, test case implementation, and OOP concepts using Java.	2	-	-	-	-	-	-	-	-	-	-	-	3	-	-
			LO 2	Discuss and analyze how to create software	-	-	-	3	-	-	-	-	-	-	-	-	-	3	-

				requirements specifications for a particular problem.															
			LO 3	Create Data Flow Diagrams for different systems.	-	-	3	-	-	-	-	-	-	-	-	-	-	-	3	2
			LO 4	Understand and develop UML diagrams of various structures and behaviors.	-	-	-	-	2	-	-	-	-	-	-	-	-	2	3	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	**-**	**3**	**3**	**2**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2.5**	**3**	**2**
20	3CS 4-24	Digital Electronics Lab	LO 1	Apply appropriate basic logic gates for verifying the truth tables.	**2**	-	-	-	-	-	-	-	-	-	-	-	**2**	-	-
			LO 2	Demonstarte ability for recognizing any IC and its fuctionality.	-	**2**	-	-	-	-	-	-	-	-	-	-	**2**	-	-
			LO 3	Design any basic gates by the use of universal gates.	-	-	**3**	-	-	-	-	-	-	-	-	-	-	**2**	-
			LO 4	Identify the limitation of basic logic gates while desgining any SOP and POS logics.	-	-	-	**2**	-	-	-	-	-	-	-	-	**2**	-	-
			LO 5	Design any sequential and combinational circuits using basic gates as well as by defined IC.	-	-	**2**	-	-	-	-	-	-	-	-	-	**2**	-	-
			LO 6	Demonstrate the working of Digital Trainer kits and usability of it.	-	-	-	-	**2**	-	-	-	-	-	-	-	-	**2**	-
			LO 7	Debug a circuit to find a problem and suggest	-	-	-	-	-	-	-	-	-	-	-	**2**	-	-	**2**

				suitable solution.															
			LO 8	Able to work in a team for desgining and rectifying any errors in the digital circuit.	-	-	-	-	-	-	-	-	**2**	-	-	-	-	-	**2**
					2	**2**	**2.5**	**2**	**2**	**-**	**-**	**-**	**2**	**-**	**-**	**2**	**2**	**2**	**2**
21	3CS 7-30	Industrial Training	LO 1	Capability to acquire and apply fundamental principles of engineering.	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-
			LO 2	Become master in one's specialized technology and updated with all the latest changes in technological world for desigining real time project in industry.	-	-	-	-	3	-	-	-	-	-	3	-	3	-	3
			LO 3	Ability to communicate efficiently	-	-	-	-	-	-	-	-	-	3	-	-	2	-	-
			LO 4	Knack to be a multi-skilled engineer with good technical knowledge, management, leadership and entrepreneurship skills.	-	-	-	-	-	-	-	-	3	-	-	-	2	2	3
			LO 5	Ability to identify, formulate and model problems and find engineering solution based on a systems approach.	-	-	-	3	-	3	-	-	-	-	-	-	2	2	-
			LO 6	Capability and enthusiasm for self-improvement through continuous professional development	-	-	-	-	-	-	-	-	-	-	-	3	2	-	3

				and life-long learning															
			LO 7	Awareness of the social, cultural, global and environmental responsibility as an engineer.	-	-	-	-	-	-	3	2	-	-	-	-	-	2	-
					3	**-**	**-**	**3**	**3**	**3**	**3**	**2**	**3**	**3**	**3**	**3**	**2.16 67**	**2**	**3**
22	5CS 3-01	Information Theory & Coding	CO 1	Demonstrate the concept of information theory and entropy.	2	-	-	-	-	-	-	-	-	-	-	-	2	-	-
			CO 2	Analyze the different coding techniques for efficient communication.	-	2	-	-	-	-	-	-	-	-	-	-	2	-	-
			CO 3	Design the linear block code and cyclic code for error free communication.	-	-	2	-	-	-	-	-	-	-	-	-	-	2	-
			CO 4	Evaluate the shortest path by using different algorithms techniques.	-	-	-	3	-	-	-	-	-	-	-	-	-	-	2
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	**2**	**2**	**3**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2**	**2**	**2**
23	5CS 4-02	Compiler Design	CO 1	To illustrate the theoretical concepts of finite state machine	2	-	-	-	-	-	-	-	-	-	-	-	3	-	-
			CO 2	To analyze the grammars, parsing techniques, and actual code generation methods	-	3	-	-	-	-	-	-	-	-	-	-	-	2	-
			CO 3	To Evaluate the different types of error and convert	-	-	3	-	-	-	-	-	-	-	-	-	-	-	2

				the code in I.C.G.															
			CO 4	To convert the optimized code into the machine code in the storage organisation and code optimization.	-	-	-	3	-	-	-	-	-	-	-	-	2	-	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	**3**	**3**	**3**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2.5**	**2**	**2**
24	5CS 4-03	Operating System	CO 1	To demonstrate the knowledge of Operating System services including Memory, Device & File Management.	3	-	-	-	-	-	-	-	-	-	-	-	3	-	2
			CO 2	To categorize the Process management in terms of inter process communicatio n and memory management methods for Contiguous and Noncontiguous allocation.	-	3	-	-	-	-	-	-	-	-	-	-	2	-	-
			CO 3	To Design the solution for scheduling and deadlock problems in operating system using appropriate algorithms such as round robin, FCFS, bankers algo etc.	-	-	2	-	-	-	-	-	-	-	-	-	3	-	2
			CO 4	To investigate LINUX/UNIX, OS, RTOS, windows and Mobile based OS file system through case study.	-	-	-	3	-	-	-	-	-	-	-	-	2	2	-

					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					3	**3**	**2**	**3**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2.5**	**2**	**2**
25	5CS 4-04	Computer Graphics & Multimedia	CO 1	Demonstrate the standards and Primitives of Drawing components like line, circle, ellipse, clipping, filling	2	-	-	-	-	-	-	-	-	-	-	-	2	-	-
			CO 2	Analyze the graphics quality with the help 3D Graphics and Projections	-	2	-	-	-	-	-	-	-	-	-	-	-	2	-
			CO 3	Design the animation using transformation and clipping	-	-	3	-	-	-	-	-	-	-	-	-	-	-	2
			CO 4	Organize the primitives for Illumination, Shading and Color Models.(Evaluate)	-	-	-	2	-	-	-	-	-	-	-	-	-	-	3
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	**2**	**3**	**2**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2**	**2**	**2.5**
26	5CS 4-05	Analysis of Algorithms	CO 1	Understand complexity of an algorithm, asymptotic notation and divide and conquer method for developing an algorithm.	3	-	-	-	-	-	-	-	-	-	-	-	3	-	-
			CO 2	Analyze the algorithm design using greedy algorithm and dynamic programming.	-	3	-	-	-	-	-	-	-	-	-	-	2	-	-
			CO 3	To Create search for problem solution using backtracking,	-	-	3	-	-	-	-	-	-	-	-	-	2	-	-

				branch and bound and pattern matching algorithm															
			CO 4	To synthesize the randomized algorithm, assignment problem and types of classes such as P, NP, and NP Complete.	-	-	-	2	-	-	-	-	-	-	-	-	-	3	-	2
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					3	**3**	**3**	**2**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2.5**	**-**	**2**
27	5CS 5-11	Wireless Communi cation	CO 1	To Classify the challenges with transmission of signals in wireless communicatio n systems and Cellular architechture with Multiplexing Techniques.	2	-	-	-	-	-	-	-	-	-	-	-	3	-	-
			CO 2	To Analyze the measures to increase the capacity in GSM systems-sectorization and Spatial Filtering for Interference Reduction	-	3	-	-	-	-	-	-	-	-	-	-	-	2	-
			CO 3	To formulate cell architecture in wirless communicatio n sytem.	-	-	3	-	-	-	-	-	-	-	-	-	-	2	-
			CO 4	To Distinguish digital signaling techniques for lossy channels.	-	-	-	2	-	-	-	-	-	-	-	-	2	-	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	**3**	**3**	**2**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2.5**	**2**	**-**

28	5CS 5-12	Human Computer Interaction	CO 1	To apply guidelines and imperical research method in HCI to Make User Friendly Computer Interface	2	-	-	-	-	-	-	-	-	-	-	-	2	-	-
			CO 2	To categorise Human Computer interction concept using GUI Design and Prototyping techniques	-	3	-	-	-	-	-	-	-	-	-	-	-	2	-
			CO 3	To design Task models and object oriented modeling for computer interface	-	-	3	-	-	-	-	-	-	-	-	-	-	-	2
			CO 4	To classify types of GOMS, Family model and LAWS	-	-	-	2	-	-	-	-	-	-	-	-	1	2	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	**3**	**3**	**2**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**1.5**	**2**	**2**
29	5CS 4-21	Computer Graphics & Multimedia Lab	LO 1	to apply the concepts of transformation techniques on 2D & 3D objects.	2	-	-	-	-	-	-	-	-	-	-	-	2	-	-
			LO 2	to analyze the colour modelling, shading and animation on graphic objects.	-	3	-	-	-	-	-	-	-	-	-	-	2	-	3
			LO 3	to design the graphical premitives drawing algorithms such as line, circle drawing algorithms.	-	-	3	-	-	-	-	-	-	-	-	-	2	-	3

			LO 4	to Generate Fractal images using graphics tool like Sterling	-	-	-	2	2	-	-	-	-	-	-	-	3	-	-
			LO 5	to make a project to solve real life socity based problem and demonstrate following PO related capabilities: a. Improve team working skill b. Improve communicati on skill c. Improve ethics (i.e. plagiarism, copy others results) d. Lifelong learning attitude	-	-	-	-	-	3	3	3	3	3	3	3	3	2	3
					2	**3**	**3**	**2**	**2**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**2.4**	**2**	**3**
30	5CS 4-22	Compiler Design Lab	LO 1	To Analysis the finite state machines, lexical analyzer, parser for the grammar.	-	-	-	-	-	-	-	-	3	-	-	-	3	-	-
			LO 2	To Develop recognition of identifiers, constants, comments, operators, loops and keywords, and generation of parse tree and syntax tree, symbol table and non-recursive grammar based constructs.	-	-	-	-	3	-	-	-	-	-	-	-	2	-	-
			LO 3	To Design intermediate code genrator	-	-	-	-	-	-	-	-	3	-	-	-	2	-	-

				and converted into optimzed code															
			LO 4	To demostrate hands on experience of working on system software.	-	-	-	-	-	3	-	-	-	-	-	-	-	3	-
			LO 5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					-	**-**	**-**	**-**	**3**	**3**	**-**	**-**	**3**	**-**	**-**	**-**	**2.3333**	**3**	**-**
31	5CS 4-23	Analysis of Algorithms Lab	LO 1	Apply sorting algorithms like quick sort for information searching.	**3**	-	-	-	-	-	-	-	-	-	-	-	3	-	-
			LO 2	Identify problems to be broken down into simple sub problems using merge sort algorithm	-	-	-	**3**	-	-	-	-	-	-	-	-	-	**3**	-
			LO 3	Device solutions using topological ordering to quickly compute shortest paths	-	-	2	-	-	-	-	-	-	-	-	-	-	**3**	-
			LO 4	Demonstrate real world scenarios like resourse allocation using knapack algorithm	-	-	-	-	-	-	-	-	-	-	-	2	-	**2**	-
			LO 5	From a given vertex, Select Dijkstra's algorithm to find the	-	-	-	-	2	-	-	-	-	-	-	-	-	-	**3**

				shortest path to other vertices															
			LO 6	Demonstrate minimum cost spanning tree of a given undirected graph using kruskal's algorithm	-	3	-	-	-	-	-	-	-	-	-	-	-	-	**3**
					3	**-**	**2**	**3**	**2**	**-**	**-**	**-**	**-**	**-**	**-**	**2**	**3**	**2.6667**	**3**
32	5CS 4-24	Advance Java Lab	LO 1	To apply event handling on AWT and Swing components.	-	-	3	-	-	-	-	-	-	-	-	-	3	-	-
			LO 2	To Design a page using Swing , Servlet , JSP and JDBC connectivity.	-	-	-	-	3	-	-	-	-	-	-	-	3	-	-
			LO 3	To create a project based on societal problem.	-	-	-	-	-	3	-	-	-	-	-	-	-	3	-
			LO 4	To map Java classes and object associations to relational database tables with Hibernate mapping files	-	-	-	-	-	-	3	-	-	-	-	-	-	3	3
			LO 5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					-	**-**	**3**	**-**	**3**	**3**	**3**	**-**	**-**	**-**	**-**	**-**	**3**	**3**	**3**
33	5CS 7-30	Industrial Training	LO 1	Capability to acquire and apply fundamental principles of engineering.	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-
			LO 2	Become master in one's specialized technology and updated with all the latest changes in	-	-	-	-	3	-	-	-	-	-	3	-	3	-	3

				technological world for desigining real time project in industry.																
			LO 3	Ability to communicate efficiently	-	-	-	-	-	-	-	-	-	3	-	-	2	-	-
			LO 4	Knack to be a multi-skilled engineer with good technical knowledge, management, leadership and entrepreneurship skills.	-	-	-	-	-	-	-	-	3	-	-	-	2	2	3
			LO 5	Ability to identify, formulate and model problems and find engineering solution based on a systems approach.	-	-	-	3	-	3	-	-	-	-	-	-	2	2	-
			LO 6	Capability and enthusiasm for self-improvement through continuous professional development and life-long learning	-	-	-	-	-	-	-	-	-	-	-	3	2	-	3
			LO 7	Awareness of the social, cultural, global and environmental responsibility as an engineer.	-	-	-	-	-	-	3	2	-	-	-	-	-	2	-
					3	**-**	**-**	**3**	**3**	**3**	**3**	**2**	**3**	**3**	**3**	**3**	**2.1667**	**2**	**3**

Course File Sample

Outcome Based ProcessImplementationGuidelinesforFaculty

9.3 Labelling yourcoursefile

- **Nameof faculty:**
- **Class- SEM:**
- **Branch:**
- **CourseCode:**
- **CourseName:**
- **Session:**

9.4 List ofDocuments:

1. **Vision&MissionStatementsof theInstitute**
2. **Vision&MissionStatementsof theDepartment**
3. **List of PEO, PSOandPOofdepartment**
4. **PersonalTimeTable**
5. **RTU Syllabus**
5. **Documentasperpoint no. 1-4 inguidelines**
6. **Course Plan**
7. **Document asperpoint no6-12 inguidelines**
8. **Document forCOAssessmentStage1: Asperpoint no13, upto13.2.5**
9. **Document forCOAssessmentStage2: Asperpoint no13, upto13.2.5, with comparisonto previous**
10. **Document forCOAssessmentStage3: Asperpoint no13, upto13.2.5, with comparisonto previous**
11. **DocumentforCOAttainment throughRTUComponent: Previous RTU Result:pointno. 13.3 upto13.3.2**
12. **Document for POattainment throughRTUComponent:Previous RTU Result:pointno. 13.4 upto13.4.2**
13. **Document for OverallAttainmentof POthroughCO:Asperpoint no13.5**
14. **Document for last threeyears(Repeatprocessfrom6-14 above): Comparativedata shouldbe includedincoursefile**
15. **LectureNotes**
16. **Copyof Assignmentsquestionsgivenfromtimetotime**
17. **Copyof TutorialSheetsgiven (if applicable)**
18. **RTUQuestionPaperswithanswer**

19. InternalAssessmentQuestionPaperswithanswerfromtimetotime
20. Topicscovered beyond syllabus-References
21. Detailsof anyotheractivityanditsassessment throughrubricbe included
22. Mappingdepartment level/focus activitieswithyourCOs

10 Outcome BasedProcessImplementationGuidelinesforFaculty

CourseCO-PO,Preparation,Assessment Formats

AcademicSession: 2021-2022 **Class:** **Semester:**

Nameof theFaculty:

Subject: **Subject Code:**

This document is meant as guidelines for implementing Outcome based education system as a partof NBA process.

1. **Vision&MissionofDepartment:Statement andMappingwith Institute Mission Here you have toincludedepartmentmission& visionstatementsandshow mappingofkeywordswithinstitutemission.**
2. **ProgramEducationalObjectives(PEOs): Statement andMappingwith Department Vision&Mission**
   Hereyou havetoincludedepartmentPEOstatementsand showmappingof keywordswith department vision&mission.
3. **ProgramSpecific Outcome(PSOs): Statement andMappingwith Department Vision&Mission**
   Hereyou havetoincludedepartmentPSOstatementsandshowmappingof keywordswithdepartment vision&mission.
4. **ProgramOutcome(POs): Statement andMappingwithPEOandPSO**
   Hereyou havetoincludePOstatementsandshowmappingofkeywordswith departmentPEOs &PSOs.
5. **CoursePlan(Deployment):**

(Pleasewritehowyou intend to cover thecontents:i.e., coverageof Unitsbylectures, guest lectures, design exercises, solvingnumericalproblems, demonstration of models, model preparation, or byassignments, etc.), **for example**

- O**coverageof Unitsbylectures**
- O**designexercises**
- O**demonstrationofmodels**
- O**byassignments**

Lecture No.	Lect. No.	Topics,Problems, Applications	CO/LO	TargetDateof Coverage	ActualDate ofCoverage	Ref. Book/Journal withPageNo.
1.	1	Introduction of OS	CO1	12/07/2019	12/07/2019	T1 Page121-126
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						

ExampleT1:Principlesof OS, ByRamesh Soni, TataMGHill, Edition 2019

6. **CourseOutcomes:**Lookforstrongmappingofcoursewithspecific PO(2-3).Define GenericCourseOutcomes(max4to6)usingBlooms Taxonomy.(IncaseofLabCourse definegenericLab OutcomesLOand refer COasLOin thisdocument).

i. **4CSA101.1(CO1)-**
ii. **4CSA101.2(CO2)-**
iii. **4CSA101.3(CO3)-**
iv. **4CSA101.4(CO4)-**
v. **4CSA101.5(CO5)-**

7. **CO-PO-PSO Mapping: Mapping Levels: 1- Low, 2- Moderate, 3-Strong**
   Firsttrytofindout2-3POthosearestronglyrelated toyoursubjectcontents.Go throughthe contentsandtryto formulate4-5CourseOutcomeasperbloom taxonomy.Map each COwith POand PSOas above.Whilemappingpleaserethink ifyoumapanyPOwith3,itmeansyouareplanningtodeliverthecontentsofthat levelandyouwillalsoexaminethestudentsat that level.

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1															
CO2															
CO3															
CO4															
CO5															

7.1 POStronglyMapped:(Example):
OPO2: Writefullstatement withkeywords highlighted oPO3: Writefullstatement withkeywords highlighted oPO4: Writefullstatement withkeywords highlighted

7.2 PO Moderately Mapped:(Example)
O PO1: Writefullstatement withkeywords highlighted
O PO11: Writefullstatement withkeywordshighlighted
7.3 POLowMapped:(Example)
OPO12: Writefullstatement withkeywordshighlighted

7.4 PSOStronglyMapped:(Example)
OPSO1 : Writefullstatementwithkeywordshighlighted

7.5 P S O ModeratelyMapped:(Example)
O PSO2: Writefullstatement withkeywordshighlighted

6.6 PSOLowMapped:(Example)
OPSO3: Writefullstatement withkeywordshighlighted

8. **RulesforCO/LOAttainment Levels:(Targets)**

Allthecoursesof yourdepartmentshouldbedividedinto threecategoriesA-MostDifficult course, B-Mediumlevelof Difficulty, C-Lowlevelof Difficulty–(Easy)
Accordingtodifficultylevel,youcandecidespecificrangeforCOattainmenttargetsfor Continuousassessment fromthefollowing table.
Rememberthat targetsfor internalassessment shouldbehigher.

CourseCategory	Level3	Level2	Level1
A	**60% of studentsgetting >60% marks**	**50-60% of students getting >60% marks**	**40-50% of students getting >60% marks**
B	**80% of studentsgetting >60% marks**	**60-80% of students getting >60% marks**	**40-60% of students getting >60% marks**
C	**90% of studentsgetting >60% marks**	**70-90% of students getting >60% marks**	**40-70% of students getting >60% marks**

9. EndTermRTUComponent: COAttainment Levels

Allthe coursesof yourdepartment shouldbedividedintothree categoriesA-Most Difficult course, B-Mediumlevelof Difficulty, C-Lowlevelof Difficulty–(Easy)
According to difficultylevelandthe resultsofpast 3-5 years, youcandecidespecific range forCOattainment targetsforRTUcomponent fromthefollowing table.

CourseCategory	Level3	Level2	Level1
A	**50% of studentsgetting >60% marks**	**40-50% of students getting >60% marks**	**30-40% of students getting >60% marks**
B	**60% of studentsgetting >60% marks**	**40-60% of students getting >60% marks**	**30-40% of students getting >60% marks**
C	**80% of studentsgetting >60% marks**	**60-80% of students getting >60% marks**	**40-60% of students getting >60% marks**

Forthe specificCO/LOattainment levelsof your respective courseplease usetheabove tablesasreferenceaccording yoursubject difficulty levelandpreparefollowing table.

S. No.	CourseType	Attainment Level=1	Attainment Level=2	Attainment Level=3
1	**TheoryCourses** Mid Semester Exams			
2	**TheoryCourses** UniversityExam			
4	**PracticalCourses** –Internal Exams			
5	**PracticalCourses** -UniversityExam			
6	**Assignments/UnitTest**			
7.	**Anyother**			

10. COwiseAssessmentActivities (asMentionedin SessionPlan):
Youcanplan for each CO,activities/assessment toolsto beconducted/usedfor its achievement. UseXtothoseyouselect forspecificCO. Removeallunusedcolumns.

	Activities															
CO	**Pre MidI Test**	**Post MidI Test**	**Quiz1**	**Quiz 2**	**PreMid II Test**	**Post MidII Test**	**Assignment1**	**Assignment2**	**Workshop**	**Seminar**	**Project**	**Training**	**Discussion**	**Mid1**	**Mid2**	**Ind. visit**
CO1																
CO2																
CO3																
CO4																
CO5																
CO6																

IncaseofLabcoursesomeactivitiesareasfollows:

LO	Internal Practical exams	Laboratory Tests	Viva	Records	Project Presentation	Project Evaluation	External practical exams
LO1							
LO2							
LO3							
LO4							

11. COwiseAssessmentActivities:

Basedon CO-POmapping,determinetargetsfor each COasaverageof targetsof all relevant POs.

CO	PO												Avg.	PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	CO Targets	PSO1	PSO2	PSO3
CO1																
CO2																
CO3																
CO4																
CO5																

12. Activity wiseAssessment Tools:

Thisgivesyougeneralizedviewofdifferent direct andindirect toolsthose canbe usedforassessment /achievementof CO/PO.(Decidewhichtoolsarerequiredforassessing aparticularCO/LOandinreferencetoCourseA, B, Cdifficulty level).

Sr. No.	Activity	Assessment Method	Tools	Weightage Marks	Recommendation
1.	Pre-MidTerm1	Direct	Marks	10	ForCO
2.	Post-MidTerm1	Direct	Marks	10	ForCO
3.	Quiz1	Direct	Marks	10	ForCO
4.	Quiz2	Direct	Marks	10	ForCO
5.	PreMidTerm2	Direct	Marks	10	ForCO
6.	Post MidTerm2	Direct	Marks	10	ForCO
7.	MidTerm1	Direct	Marks	20	ForCO
8.	MidTerm2	Direct	Marks	20	ForCO
9.	Assignment 1	Direct	Marks	10	ForCO
10.	Assignment 2	Direct	Marks	10	ForCO
11.	Workshop	Indirect	Rubrics	5	ForLO
12.	Seminar/SPL	Indirect	Rubrics	5	ForCO/LO
13.	Project (MiniorNSP)	Indirect	Rubrics	20	ForLO
14.	Discussion	Indirect	Rubrics	5	ForLO
15.	Training	Indirect	Rubrics	20	ForLO
16.	IndustrialVisit	Indirect	Rubrics	20	ForLO
17.	Oranyotheractivity	Direct/ Indirect	Marks/ Rubrics	any	ForLO
18.					
Notethat for every rubricsyou needto decideassessment criteria,rangeofmarksorweightage–abovevaluesare indicative					

13. COAssessment Process:

After everyactivity(Ideallyasperabovetable): (Frequencyof Assessment- Canbe takenasmonthly). Sotheassessment canbeforallactivities heldduring themonth. Dothefollowing.

13.1 AttainmentofCOs

13.1.1 AttainmentTableforCO1: 3CSA101.1

CO1:3CSA101.1: Attainment Table(Columns) AsApplicableCO wise-Monthly									
Student	**PreMidI Test 10**	**Quiz1 10**	**Assignment 10**	**Quiz1 10**	**WS 10**	**Training 10**	**Total (60)**	**%0f Marks**	**Levelof Attainment**
Name1									**3**
Name2									**2**
Name3									**1**
Name4									**2**
Name5									**1**
Name6									**2**
----									**--**
------									**--**
	No.ofStudents attainedlevel3=					**%ofStudents AttainedLevel3=**			
	No.ofStudents attainedlevel2=					**%ofStudents AttainedLevel2=**			
	No.ofStudents attainedlevel1=					**%ofStudents AttainedLevel1=**			
	TargetAchieved= ?(Check Level3%attainment-IfNoFindGap)								
	MarkXforabsent-Takeavg.ofallpresent								

(Repeat it forall otherCOs, (CO2– CO5))

13.1.2CO-GapIdentifications

COs	CO1	CO2	CO3	CO4	CO5
Target					
Achieved					
Gap					

13.1.3 GapsIdentified:

Describewhat the reasons for gaps are

i.

ii.

OverallCOAttainmentTable: Example

COs	CO1	CO2	CO3	CO4	CO5	Co6
Attainmentlevel asper rules set	3	1	3	3	3	3
AverageCOattainment through internal assessment	**2.67**					

13.1.4: Activities Decidedto bridgethegap

Pleasedoanalyzewhetheryoucouldget improvement throughactivities decidedand conductedforimprovements. Reason shouldbenotedwhy /howit isimprovedornot.

13.2 Attainmentof POs&PSO:

13.2.1 Target-ExpectedAttainmentof PObyattainmentof CO- Put allmappingsof 3, 2 and1.BasedonCO-POmapping,determinetargetsfor eachPOasaverageof targets of all relevantCOs.

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
4CSA101.1															
4CSA101.2															
4CSA101.3															
4CSA101.4															
4CSA101.5															
Obtain Average-PO/PSO Targets	Targets	Targets	Targets	Targets	Targets	Targets	Targets	Targets	Targets	Targets	Targets	Targets	Targets	Targets	Targets

13.2.2 Attainmentof POs&PSOthroughCOasContinuousEvaluation:

Put allattainment valuesofCOaspermappingswith3, 2, 1asevaluatedin13.1.1 (Frequency- Monthly)

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
4CSA101.1															
4CSA101.2															
4CSA101.3															
4CSA101.4															
4CSA101.5															
ObtainAvg. PO/PSO Attainment	Achieved	Achieved	Achieved	Achieved	Achieved	Achieved	Achieved	Achieved	Achieved	Achieved	Achieved	Achieved	Achieved	Achieved	Achieved

13.2.3 POGapIdentification:

	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Targets															
Achieved															
Gap															

13.2.4 GapsIdentified:

Describewhat the reasons for gap (for PO) are.

i.
ii.

13.2.5 Activities Decidedto bridgethegap

Pleasedoanalyzewhetheryoucouldget improvement throughactivities decidedand conductedforimprovements. Reason shouldbenotedwhy /howit isimprovedornot.

Repeat wholeprocessafteronemonth,Two months,andthreemonths. Plotbar chart forimprovement in CO,PO&PSO. (Everymonth)

13.3 AttainmentofCOthrough RTUExam:

Thismay be possible for previoussemesterresultssooverallattainment. Iffaculty ischanged, datawillbeevaluatedby concernedfacultywhotaughtandhandedoverto current faculty.If facultynot available, thencurrent faculty willdothesame.

AttainmentofCO: 4CSA101:Subject:			
Student	**RTUMarks (80)**	**%0f Marks**	**Levelof Attainment**
Name1			**3**
Name2			**2**
Name3			**1**
Name4			**2**
Name5			**1**
Name6			**2**
----			**--**
------			**--**
No.ofStudentsattainedlevel3=		**% of StudentsAttainedLevel3=**	
No.ofStudentsattainedlevel2=		**% of StudentsAttainedLevel2=**	
No.ofStudentsattainedlevel1=		**% of StudentsAttainedLevel1=**	
COAttainment= ?(Check Level3%attainment-IfNoFindGap)			
MarkXforabsent-Takeavg.ofallpresent			

13.3.1 AttainmentofCOthrough RTUComponent:

CO: Course Code: CourseName					
Target					
Achieved					
Gap					

13.3.1 GapsforCOattainmentthroughRTUComponent:

AnalyzeRTUQuestion paperwithrespecttoCOsformulated,contentsdeliveredand studentsexamined,findout reasonsforgaps

i.
ii.

13.3.2 Actionto betaken:

Prepare recommendationsforimprovement inplanning & teaching forgapsidentified.

13.4 Attainmentof POthroughCO(RTU) Component

Put RTU Resultsaspertarget achievedonlyandmapping level, infollowing table

Attainmentof POthroughCO(RTU) Component															
CO	**PO**												**PSO**		
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
4CSA101															

Attainmentof POthroughCO(RTU) Component															
4CSA101	**PO**												**PSO**		
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
Targets															
Achieved															
Gap															

13.4.1 GapsinPOthroughCOfromRTUcomponent:

Analyze RTU Question paper with respect to COs formulated &mapped, contents deliveredandstudentsexamined,findout reasonsforgaps

Describewhat arethereasonsforgap i.

ii.

13.4.2 Actionto betaken:

Prepare recommendationsforimprovement in planning & teaching forgapsidentified.

13.5 Overall Attainment of PO&PSO: Through Continuous Assessment &RTU

While combining attainment through Continuous evaluation and RTU component, following weightagebe considered.

1. **Internal Assessment– Totalweightage-40%**
2. **RTU Component------- Weightage– 60 %**

Put all attainments in the following table and compute.

13.5.1: Table1

	RTUComponent			**InternalAssessment**				
Student	**RTUMarks (80)**	**%of Marks**	**60% Weightage X6/100 (A)**	**Overall CO (-----)**	**%of Marks**	**Weightage X4/100 (B)**	**Total (A+B)**	**Levelof Attainment**
Name1								**3**
Name2								**2**
Name3								**1**
Name4								**2**
Name5								**1**
Name6								**2**
----								**--**
------								**--**
No.ofStudentsattainedlevel3=					**% of StudentsAttainedLevel3=**			
No.ofStudentsattainedlevel2=					**% of StudentsAttainedLevel2=**			
No.ofStudentsattainedlevel1=					**% of StudentsAttainedLevel1=**			
POAttainment= ?(Check Level3%attainment-IfNoFindGap)								
MarkXforabsent-Takeavg.ofallpresent								

OR

13.5.2: Table2

	RTU			**Internal CO1/Activity1 (Weightage%)**			**Internal CO2/Activity2 (Weightage%)**			**Internal CO3/Activity3 (Weightage%)**				
Student	**RTU Marks (80)**	**%0f Marks**	**60% Weightage X-----/100 A**	**Overall CO (-----)**	**%0f Marks**	**Weightage X--/100 B**	**Overall CO (-----)**	**%0f Marks**	**Weightage X--/100 C**	**Overall CO (-----)**	**%0f Marks**	**Weightage X--/100 D**	**Total (A+B+C+D)**	**Level of Attainment**
Name1														**3**
Name2														**2**
Name3														**1**
Name4														**2**
Name5														**1**
Name6														**2**
----														**--**
------														**--**

No.of Students attainedlevel3= StudentsAttainedLevel3=	**%of**
No.of Students attainedlevel2= StudentsAttainedLevel2=	**% of**
No.of Students attainedlevel1= StudentsAttainedLevel1=	**% of**
POAttainment= ?(Check Level3%attainment-IfNoFindGap)	
MarkXforabsent-Takeavg.ofallpresent	

13.5.3: OverallPO&PSOAttainment through Course:

Put Overall PO&PSOattainment aspermapping 3,2,1above:

Attainmentof Overall POforSession2018-2019															
CO	**PO**												**PSO**		
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
4CSA101															
PO Attainment															

13.5.4: Overall Gaps for Attainment of PO and PSO from the Course

Put Overall PO & PSO targets & attainment as per mapping 3,2,1 above:

Attainment & Gap of Overall PO Session----------															
4CSA101	**PO**												**PSO**		
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
Targets															
Achieved															
Gap															

13.5.5. Overall Gaps for Course taught:

Go through all gaps identified above and summarize. Describe what the reasons are.

i.

ii.

13.5.6 Action to be taken:

Prepare recommendations for improvement in planning & teaching (Internal & RTU) for gaps identified. Decide Activities to be conducted to bridge the gaps in COs.

Repeat whole process after One year before, Two year before, and three year before. Plot bar charts for Continuous improvements checkin CO, PO&PSO. (Every Year).

14 File Formats

14.1 List of File Formats

i. Front Page of Course File
ii. ABC Analysis Format
iii. Blown-up Format
iv. Deployment Format
v. Zero Lecture Format
vi. Tutorial Format
vii. Assignment Format
viii. Lecture Note Format
ix. Mid Term Question Paper Format
x. Mid Term Practical Exam Format
xi. Evaluation Sheets Format
xii. Activity Report Format

14.2 Front Page of Course File

POORNIMA
COLLEGE OF ENGINEERING

TEACHING MANUAL

COURSE: _____

SEMESTER: _____

SUBJECT: _____

SUB. CODE: _____

CONTENT: **Syllabus, Blown-up, Deployment, Zero Lectures,**
Detailed lecture notes with cover page, Tutorial/Home-Assignment Sheets

_____

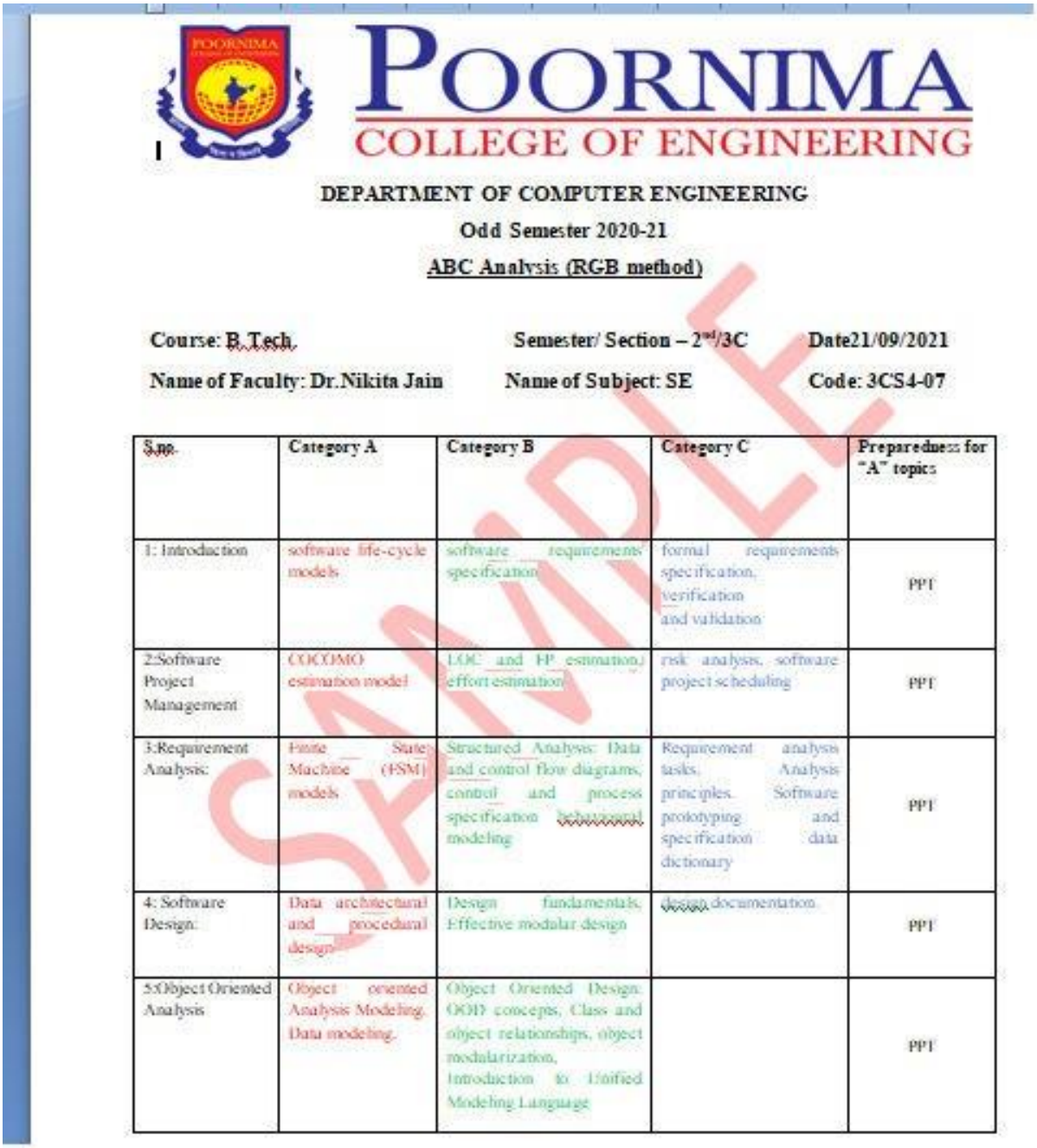
SESSION: 20__-__

NAME OF FACULTY: _____

DEPARTMENT: _____

CAMPUS: _____

14.3 ABC Analysis Format



POORNIMA
COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER ENGINEERING

Odd Semester 2020-21

ABC Analysis (RGB method)

Course: B.Tech **Semester/ Section – 2nd/3C** **Date21/09/2021**

Name of Faculty: Dr.Nikita Jain **Name of Subject: SE** **Code: 3CS4-07**

S.no	Category A	Category B	Category C	Preparedness for "A" topics
1: Introduction	software life-cycle models	software requirements specification	formal requirements specification, verification and validation	PPT
2:Software Project Management	COCOMO estimation model	LOC and FP estimation, effort estimation	risk analysis, software project scheduling	PPT
3:Requirement Analysis:	Finite State Machine (FSM) models	Structured Analysis: Data and control flow diagrams, control and process specification, behavioural modeling	Requirement analysis tasks, Analysis principles, Software prototyping and specification, data dictionary	PPT
4: Software Design:	Data architectural and procedural design	Design fundamentals, Effective modular design	design documentation	PPT
5:Object Oriented Analysis	Object oriented Analysis Modeling, Data modeling.	Object Oriented Design: OOD concepts, Class and object relationships, object modularization, Introduction to Unified Modeling Language		PPT

14.4 Blown-up Format

POORNIMA
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DEPARTMENT OF COMPUTER ENGINEERING

COURSE BLOWN UP

Course: B.Tech. | **Semester/ Section – 3 C** | **Date: 9 Aug2022**

Name of Faculty: Dr.Nikita Jain | **Name of Subject: Software Engineering** | **Code: 3CS4-07**

S. No.	TOPIC AS PER SYLLABUS	BLOWN UP TOPICS (up to 10 Times Syllabus)
1.	**Introduction :** Objective, Scope and Outcome of subject	Zero Lecture
2.	**Software development models**: Software life-cycle models, software requirements specification, formal requirements specification, verification and validation.	1.1 Software Development life cycle Phases 1.2 Waterfall model 1.2.1 Phases, Need 1.2.2 Advantages, Disadvantages 1.3 Prototype model and spiral model 1.3.1 Phases, Need 1.3.2 Advantages, Disadvantages 1.4 Iterative Enhancement Model 1.4.1 Phases, Need 1.4.2 Advantages, Disadvantages 1.5 Verification and Validation Model 1.5.1 Phases, Need 1.5.2 Advantages, Disadvantages 1.6 SRS, FRS 1.6.1 SRS Components

14.5 Deployment Format

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SYLLABUS DEPLOYMENT

Campus: PCE	Course: B.Tech.	Class/Section: VIth sem./A	Date: 05/01/2022
Name of Faculty: XYZ		Name of Subject: Cloud Computing	Code: 6CS04-05

S.No.	TOPIC AS PER BLOWNUP SYLLABUS	LECT. NO.	CO/LO	Target Date of Coverage	Actual Date of Coverage	Teaching method	Ref. Book/Journal with Page No.
1	**ZERO LECTURE**	L-1	CO1	11/01/2022	11/01/2022	PPT	
	Introduction to Unit :1						
2	**Introduction of the lecture**						
	Conclusion of the lecture						
	Brief of next lecture						
3	**Introduction of the lecture**						
	Conclusion of the lecture						
	Brief of next lecture						
4	**Introduction of the lecture**						
	Conclusion of the lecture						
	Brief of next lecture						
5	**Introduction of the lecture**						
	Conclusion of the lecture						
	Brief of next lecture						
6	**Introduction of the lecture**						

14.6 Zero Lecture Format

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ZERO LECTURE

Session: 20 - (Sem.)

Campus: …… Course: …… Class/Section: ……

Name of Faculty: ……

Zero Lecture

1). Name of Subject: …….. Code: ……

2). Self-Introduction:

a). Name:
b). Qualification:
c). Designation:
d). Research Area:
e). E-mail Id: ……@poornima.org
f). Other details: Information about areas of proficiency/ expertise such as subject taught, laboratory taken, Member of Professional body, Academic Proficiency, Book Authored, Paper published in National and International Conference/Journals etc.

3). Introduction of Students:

a). *Records of students in 12th*

Sr. No.	Average result of 12th	Name of student scored highest marks	Marks 60% above (No. of students)	Marks between 40%-60% (No. of students)	English Medium Students (No.)	Hindi Medium Students (No.)	No. of Hostellers	No. of Day Scholar

b). *Name of 05 best students based on previous results: ……, ……, ……, …… ……, ……*

4). Instructional Language: - ……%English; ……..% Hindi (English not less than 60%)

5). Introduction to subject: - (Pl. separate out subject specific matter and general matter valid for all subjects and group/place them appropriately)

a). Relevance to Branch:
b). Relevance to Society:
c). Relevance to Self:
d). Relation with laboratory:
e). Connection with previous year and next year:

6). Syllabus

a). Unit Name:
b). ABC analysis (RGB method) of unit & topics

7). Books/ Website/Journals & Handbooks/ Association & Institution:

a). Recommended Text & Reference Books and Websites:

S. No.	Title of Book	Authors	Publisher	Cost (Rs.)	No. of books in Library
Text Books					
T1					
T2					
T3					
Reference Books					
R1					
R2					
R3					
Websites related to subject					
1					
2					

b). Journals & Handbooks: - To give information about different Journals & Handbooks available in library related to the subject and branch.

c). Associations and Institutions: - To give information about different Associations and Institutions related to the subject and branch.

8). Syllabus Deployment: -

a). Total weeks available for academics (excluding holidays) as per Poornima Foundation calendar-

Semester	
No. of Working days available(Approx.)	
No. of Weeks (Approx.)	

- Total weeks available for special activities (as mentioned below)- 02 weeks (Approx.)

Note: Individual faculty must calculate the exact no. of lectures available according to time table etc. after consultation with HOD.

b). Special Activities (To be approved by HOD & Dean & must be mentioned in deployment):

- Open Book Test- Once in a semester
- Quiz - Once in a semester
- Special Lectures (SPL)- Minimum 10% of total no. of lectures including following
  - i. Smart Class by the faculty, who is teaching the subject
  - ii. SPL by expert faculty at PGC level
  - iii. SPL by expert from industry/academia (other institution)
- Revision classes (Solving Important Question Bank):- 1 class before Mid Term and 2 classes before End Term Exam

c). Lecture schedule per week

i). University scheme (L+T+P) = ...+....+.....

Sr. No.	Name of Unit	No. of lectures	Broad Area	Degree of difficulty (High/Medium/Low)	Text/ Reference books
1.					
2.					
3.					
4.					
5.					

d). Introduction & Conclusion: Each subject, unit and topic shall start with introduction & close with conclusion. In case of the subject, it is Zero lecture.

e). Time Distribution in lecture class: - Time allotted: 60 min.

i. First 5 min. should be utilized for paying attention towards students who were absent for last lecture or continuously absent for many days + taking attendance by calling the names of the students and also sharing any new/relevant information.

ii. Actual lecture delivery should be of 50 min.
iii. Last 5 min. should be utilized by recapping/ conclusion of the topic. Providing brief introduction of the coming up lecture and suggesting portion to read.
iv. After completion of any Unit/Chapter a short quiz should be organized.
v. During lecture student should be encouraged to ask questions.

Note: Pl. ensure that each student is having Lecture Note Book. Also, write on the black board day and date, name of the teacher, name of subject with code, unit and lecture no. and topics to be covered at the beginning of each lecture and ensure that students write in lecture note book. Ask students to leave 4/5 pages blank for copying the note from fellow students in case of their absenteeism.

9). Tutorial: - An essential component of Teaching- Learning process in Professional Education.

Objective: - To enhance the recall mechanism.
To promote logical reasoning and thinking of the students.
To interact personally to the students for improve numerical solving ability.

a). *Tutorial processing:* - Tutorial sheet shall be provided to each students

Ist Phase: - It is consisting of questions to be solved in the class assignment session in test mode on perforated sheet given in tutorial notebook and to be collected & kept by respective faculty for review & analysis (20 minutes).

IInd Phase: - Indicating/Initializing the weak issues/ drawback and Evaluating and providing the grade. Making a group with good student for assisting the weak students to explain/solve questions by every student on plain papers given in tutorial note book (20 minutes).

IIIrd Phase: - Solving/ explaining difficulties of lecture class and providing the new home assignment (20 minutes). To be done in tutorial note book.

b). *Home assignment shall comprise of two parts:*

Part (i) Minimum essential questions, which are to be solved and submitted by all with in specified due date.

Part (ii) Other important questions, which may also be solved and submitted for examining and guidance by teacher.

10). Examination Systems:

A. FOR ALL THEORY COURSES:-

a. Continuous Internal Evaluation (CIE)	**20%**
-Assignment / Project / Papers / Essays / Class Participation	10%
-Quiz / Class Test (Announced / Unannounced)	5%
- Attendance and Discipline	5%
b. Mid Semester Exams (MSE) – Two	**20%**
c. End Semester Exam (ESE) - One	**60%**
TOTAL	**100 %**

B. FOR ALL PRACTICAL (LABORATORY) COURSES:-

a. Continuous Internal Evaluation (CIE)	**40%**
-Performance (Lab Record, Viva,)	30%
-Attendance and Participation in laboratory work	10%
b. Mid Semester Exam (MSE)– Two	**20 %**
c. End Semester Exam (ESE) - One	**40%**
TOTAL	**100 %**

11). Any other important point:

Place & Date: Name of Faculty with Designation

14.7 Lecture Note Front page Format

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LECTURE NOTES

Campus: …….. Course: ……..…….. Class/Section: ……..… Date: ……..……..

Name of Faculty: ……..…….. Name of Subject: …….. Code: ……..…

Date (Prep.): ……..…….. Date (Del.): ……..……Unit No.:……..…..…..Lect. No: ……..…..……..

OBJECTIVE: To be written before taking the lecture (Pl. write in bullet points the main topics/concepts etc., which will be taught in this lecture)

_____

_____

_____

_____

IMPORTANT & RELEVANT QUESTIONS:

_____

_____

_____

_____

FEED BACK QUESTIONS (AFTER 20 MINUTES):

_____

_____

_____

_____

_____

OUTCOME OF THE DELIVERED LECTURE: To be written after taking the lecture (Pl. write in bullet points about students' feedback on this lecture, level of understanding of this lecture by students etc.)

_____

_____

_____

_____

REFERENCES: Text/Ref. Book with Page No. and relevant Internet Websites:

_____

_____

13.7.82 Detailed Lecture Note Format-

POORNIMA
COLLEGE OF ENGINEERING

DETAILED LECTURE NOTES

Campus:	Course:	Class/Section:	Date: .....
Name of Faculty:		Name of Subject:	Code: .....

13.7.83 Detailed Lecture Note Format-

POORNIMA
COLLEGE OF ENGINEERING
DETAILED LECTURE NOTES

PAGE NO. .....

13.8 Assignment Format

POORNIMA
COLLEGE OF ENGINEERING

Assignment Sheet-1

Campus: PCE **Course:** B.Tech. **Class/Section:** III **Date:** .....

Name of Faculty: **Name of Subject:** **Code:**

Date of Preparation: ..... **Scheduled Date of Submission:** .....

Q. No.	Questions	COs	POs	PSOs

13.9 Tutorial Format

POORNIMA
COLLEGE OF ENGINEERING

TUTORIAL SHEET

TUTORIAL SHEET SHEET No.....

Campus: ..... Course: ..... Class/Section: ..... Date: .....

Name of Faculty: ..... Name of Subject: ..... Code: .....

Date of Tut. Sheet Preparation:..... Scheduled Date of Tut.:.....Actual Date of Tut. :.....

Name of Student:.....Scheduled & Actual Date of H.A. Submission:.....&.....

	Questions	CO	PO
FIRST 20 MT. CLASS QUESTIONS			
2 HRS. SOLVABLE HOME ASSIGNMENT (H.A.) QUESTIONS			
OTHER IMPORTANT QUESTIONS			

13.10 Mid Term/ End Term Practical Question Paper Format

POORNIMA COLLEGE OF ENGINEERING, JAIPUR

III B.TECH. (VI Sem.) **SET- A**

FIRST MID TERM PRACTICAL EXAMINATION 2021-22

Code: 3CS4-07 Category: PCC Subject Name: Software Engineering

(BRANCH – Computer Engineering

Max. Time: 60 Minutes **Max. Marks: 22 + 8 (Viva) = 30**

NOTE: - All questions are compulsory. Use of Design Data Book is allowed.

Q. No.	Question	Marks	LO	PO
Q.1				
Q.2				
Q.3				

POORNIMA COLLEGE OF ENGINEERING, JAIPUR

III B.TECH. (VI Sem.) **SET- B**

FIRST MID TERM PRACTICAL EXAMINATION 2021-22

Code: 3CS4-07 Category: PCC Subject Name: Software Engineering

(BRANCH – Computer Engineering

Max. Time: 60 Minutes **Max. Marks: 22 + 8 (Viva) = 30**

NOTE: - All questions are compulsory. Use of Design Data Book is allowed.

Q. No.	Question	Marks	LO	PO
Q.1				
Q.2				
Q.3				

13.11 Mid Term Theory Question Paper Format

POORNIMA COLLEGE OF ENGINEERING, JAIPUR

II B.TECH. (III Sem.) **Roll No. _____**

SECOND MID TERM EXAMINATION 2021-22

Code: 3CS1-01 Category: PCC Subject Name–ADVANCE ENGINEERING MATHEMATICS -I

(BRANCH – Computer Engineering)

Course Cred

Max. Time: 2 hrs. **Max. Mark**

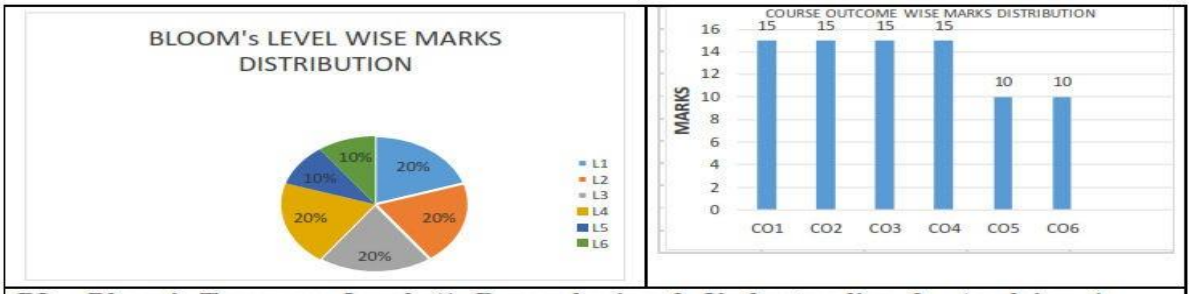
NOTE:- Read the guidelines given with each part carefully.

Course Outcomes (CO):

At the end of the course the student should be able to:

CO1:
CO2:
CO3:
CO4:
CO5:
CO6:

	PART - A: (All questions are compulsory) Max. Marks (10)			
		Marks	CO	BL
Q.1		2		
Q.2		2		
Q.3		2		
Q.4		2		
Q.5		2		
	PART - B: (Attempt 4 questions out of 6) Max. Marks (20)			
Q.6		5		
Q.7		5		
Q.8		5		
Q.9		5		
Q.10		5		
Q.11		5		
	PART - C: (Attempt 3 questions out of 4) Max. Marks (30)			
Q.12		10		
Q.13		10		
Q.14		10		
Q. 15		10		



BL – Bloom's Taxonomy Levels (1- Remembering, 2- Understanding, 3 – Applying, 4 – Analyzing, 5 – Evaluating, 6 - Creating)

CO – Course Outcomes; PO – Program Outcomes

13. List of Important Links

List of Important Links		
Sr. No.	**Link**	**Particulars**
1	https://www.rtu.ac.in/index/	Rajasthan Technical University
2	http://www.pce.poornima.org	Institute Website
3	http://www.pce.poornima.org/Downloads.html	Format of Students & Employees
4	https://www.turnitin.com/login_page.asp?lang=en_us	Plagiarism Checker
5	http://pcelibrary.poornima.org/	PCE Digital Library
6	https://ndl.iitkgp.ac.in/	National Digital Library of India (NDLI)
7	https://swayam.gov.in/	SWAYAM MOOCs platform
8	https://www.vlab.co.in/	Virtual Labs
9	https://spoken-tutorial.org/	Spoken Tutorial
10	https://fossee.in/	FOSSEE (Free/Libre and Open Source Software for Education)
11	https://www.sih.gov.in/	Smart India Hackathon
12	https://www.swayamprabha.gov.in/	32 high quality educational channels through DTH on 24X7 basis.
13	https://ieeexplore.ieee.org/Xplore/home.jsp.You	IEEE All Society Periodicals Package
14	https://booksc.org/	Link for Free for book and articles
15	https://jgateplus.com/home/	J-gate Plus (JOURNALS -GATE) subscriptions
16	http://www.delnet.nic.in/	Developing Library Network
17	https://dst.rajasthan.gov.in/content/dst-gov/en/home.html	Department of Science & Technology, Government of Rajasthan

18	https://ipindia.gov.in/index.htm	Official website of Intellectual Property India
19	http://pce.poornima.org/Downloads.html	Academic Formats Word File
Note:- Required Credentials can be taken from Respective Department Heads		