POORNIMA
COLLEGE OF ENGINEERING

Department of Computer Engineering

CURRICULUM DELIVERY PLAN (CDP)
EVEN 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. (Computer Engineering)

2.2.1 Vision of Department

Evolve as a centre of excellence with wider recognition and to adapt the rapid innovation in Computer Engineering.

2.2.2 Mission of Department

- To provide a learning-centered environment that will enable students and faculty members to achieve their goals empowering them to compete globally for the most desirable careers in academia and industry.

- To contribute significantly to the research and the discovery of new arenas of knowledge and methods in the rapid developing field of Computer Engineering.

- To support society through participation and transfer of advanced technology from one sector to another.

2.2.3 PEO of the Department

Program Educational Objectives (PEOs

PEO1: Graduates will work productively as skillful engineers playing the leading roles in multifaceted teams

PEO2: Graduates will identify the solutions for challenging issues inspiring the upcoming generations leading them towards innovative, creative, and sophisticated technologies.

PEO3: Graduates will implement their pioneering ideas practically to create products and the

feasible solutions of research oriented problems

2.2.4 Program Specific Outcome (PSOs)

PSO1: The ability to understand and apply knowledge of mathematics, system analysis & design, Data Modeling, Cloud Technology, and latest tools to develop computer based solutions in the areas of system software, Multimedia, Web Applications, Big data analytics, IOT, Business Intelligence and Networking systems.

PSO2: The ability to understand the evolutionary changes in computing, apply standards and ethical practices in project development using latest tools & Technologies to solve societal problems and meet the challenges of the future.

PSO3: The ability to employ modern computing tools and platforms to be an entrepreneur, lifelong learning and higher studies.

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 Computer Engineering, 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.	Name of Members	Designation	Category	Address
1	Dr. Mahesh Bundele	Principal	Chairman, DAB-CE	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
2	Dr. Nikita Jain	Professor and Head, CE	Member Secretary	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
3	Dr. Veena Yadav	Professor, CE	Member	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
4	Mr. Manish Dubey	Assistant Professor, CE	Member	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur

5	**Mr. Shirish Mohan Dubey**	**Assistant Professor, CE**	**Member**	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
6	**Dr. Abhishek Sharma**	**Associate Professor, CE**	**Member**	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
7	**Ms. Harshita Virwani**	**Assistant Professor, CE**	**Member**	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
8	**Ms. Neha Shrotriya**	**Assistant Professor, CE**	**Member**	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
9	**Dr. Rekha Nair**	**Dean, First Year**	**Member**	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
10	**Ms. Aish Joshi**	**Alumni Representative-1**	**Member**	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
11	**Mr. Abhay Agarwal**	**Alumni Representative-2**	**Member**	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
12	**Mr. Riyank A. Nair**	**Student Representative**	**Member**	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
13	**Ms. Nisha Gupta**	**Industry Representative**	**Member**	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
14	**Mr. Om Prakash Sikhwal F/O Ms. Divyanshi Sikhwal (III A)**	**Parents Representative-1**	**Member**	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
15	**Mr. Rohitash Singh Shsodiya F/O Ranjeet Singh Shisodhiya (III C)**	**Parents Representative-2**	**Member**	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur

3.1.4 Meeting Frequency & Objectives

Meeting No.	Meeting Code	Meeting Month-Week	Meeting Objective
1.	DAB-1	January 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	March Second Week	● Approval / Suggestions of proposals from last PAC Meeting. ● Revision of DAB Drafts for being proposed in upcoming GC
3	DAB-3	April First Week	● Draft preparation for DAC and CDP for upcoming semesterafter considering inputs from PAC. ● Review Semester closure draft from PAC.
4.	DAB-4	June 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	Nominated by	Name of Members	Address
1	**Chairman, PAC-CE**	**Chairman, IQAC / Head of Institution**	**Dr. Nikita Jain (Associate Professor)**	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
2	**Member Secretary**	**Chairman, PAC - CE**	**Mr. Manish Dubey (Assistant Professor)**	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
3	**Faculty representative-1**	**Chairman, PAC - CE**	**Dr. Veena Yadav (Professor)**	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
4	**Faculty representative-2**	**Chairman, PAC - CE**	**Ms. Harshita Virwani (Assistant Professor)**	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
5	**Faculty representative-3**	**Chairman, PAC - CE**	**Ms. Geeta Tiwari (Assistant Professor)**	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
6	**Faculty representative-4**	**Chairman, PAC - CE**	**Mr. Shirish Mohan Dubey (Assistant Professor)**	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
7	**Faculty representative-5**	**Chairman, PAC - CE**	**Ms. Archana Soni (Assistant Professor)**	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
8	**Faculty representative-6**	**Chairman, PAC - CE**	**Mr. Neha Shrotriya (Assistant Professor)**	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur

3.2.4 Meeting Frequency & Objectives

Meeting No.	Meeting Code	Meeting Month-	Meeting Objective

		Week	
1.	PAC-1	Jan 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	February First 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
3	PAC-3	March 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	April 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	April 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	May 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	June 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	July 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.	EMP. ID.	Name Of Faculty	Designation	Department	Date of Joining
1	1212	MR. SANJAY KUMAR GUPTA	ASST PROFESSOR	COMPUTER ENGINEERING	1-Jul-06
2	2820	DR. MAHESH BUNDELE	PRINCIPAL	COMPUTER ENGINEERING	1-Sep-18
3	4548	Dr. VEENA YADAV	PROFESSOR	COMPUTER ENGINEERING	22-Dec-14
4	6148	MS. NEHA SHROTRIYA	ASST PROFESSOR	COMPUTER ENGINEERING	22-Jul-19
5	6179	DR. NIKITA JAIN	ASSOCIATE PROFESSOR	COMPUTER ENGINEERING-HoD	1-Oct-19
6	6242	MR. MANISH DUBEY	ASST PROFESSOR	COMPUTER ENGINEERING	9-Sep-19
7	6857	MS. HARSHITA VIRWANI	ASST PROFESSOR	COMPUTER ENGINEERING	19-Dec-22
8	6875	Ms. BARKHA NARANG	ASST PROFESSOR	COMPUTER ENGINEERING	2-Apr-21
9	6877	Ms. ARCHANA SONI	ASST PROFESSOR	COMPUTER ENGINEERING	5-Jul-14
10	7111	Dr. ABHISHEK SHARMA	ASSOCIATE PROFESSOR	COMPUTER ENGINEERING	25-Jul-20
11	7129	MR. SHIRISH MOHAN DUBEY	ASST PROFESSOR	COMPUTER ENGINEERING	1-Jul-21
12	7208	MS.GEETA TIWARI	ASST PROFESSOR	COMPUTER ENGINEERING	1-Aug-22
13	7227	MS. SHILPA KALRA SAHANI	ASST PROFESSOR	COMPUTER ENGINEERING	22-Aug-22
14	7266	MR. SARANSH SHARMA	ASST PROFESSOR	COMPUTER ENGINEERING	16-Aug-22
15	7271	MR. DEVENDRA NATH PATHAK	ASST PROFESSOR	COMPUTER ENGINEERING	16-Aug-22
16	7274	MR. SUCHIT BHAI PATEL	ASST PROFESSOR	COMPUTER ENGINEERING	1-Sep-22
17	7275	MR. ROHIT SINGH RAJPUT	ASST PROFESSOR	COMPUTER ENGINEERING	17-Aug-22
18	7492	MS. ANJULI DUBEY	ASST PROFESSOR	COMPUTER ENGINEERING	18-Feb-23
19	7489	DR. RAJESH KUMAR BATHIJA	PROFESSOR	COMPUTER ENGINEERING	18-Feb-23
20	8038	MS. CHITRA THINGER	ASST PROFESSOR	COMPUTER ENGINEERING	17-Apr-23
21	8036	MR. SHUBHAM PATEL	ASST PROFESSOR	COMPUTER ENGINEERING	15-Apr-23
22	7509	MS. ANJALI SINGH	ASST PROFESSOR	COMPUTER ENGINEERING	1-Jul-23
23	8248	MS. AMRITPAL KAUR	ASST PROFESSOR	COMPUTER ENGINEERING	17-Aug-23
24	8358	MS. RITU SHARMA	ASST PROFESSOR	COMPUTER ENGINEERING	9-Oct-23
25	1133	Ms. GARIMA ANGIRA	ASST PROFESSOR	COMPUTER ENGINEERING	2-Jan-22
26	6149	MS. UPMA KUMARI	ASST PROFESSOR	COMPUTER ENGINEERING	22-Jul-19

27	1293	MR. AMITESH KUMAR	ASST PROFESSOR	COMPUTER ENGINEERING	3-Jul-17
28	8532	DR. AMIT PANDEY	PROFESSOR	COMPUTER ENGINEERING	21-Mar-24
29	7017	DR. SURENDRA HANS	**ASSOCIATE PROFESSOR**	ELECTRONICS & COMMUNICATION ENGG	1-Jun-21
30	7499	DR. GEETIKA MATHUR	**ASSOCIATE PROFESSOR**	ELECTRONICS & COMMUNICATION ENGG	18-Feb-23

4 Institute Academic Calendar

JANUARY 2024

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			

FEBRUARY 2024

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		

MARCH 2024

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

APRIL 2024

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				

MAY 2024

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	

JUNE 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30						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

JULY 2024

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			

POORNIMA
COLLEGE OF ENGINEERING

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

ACADEMIC CALENDAR 2023-24*#

EVEN SEMESTER

January 2024

Monday, 8	First Day, B. Tech. VIII Sem.
Thursday, 26	Republic Day Celebration
	RTU THEORY EXAMINATION FOR III & V SEMESTER [ODD SEMESTER 2023-24]

February 2024

Monday, 19	First Day, B. Tech. IV & VI Sem.
	RTU THEORY EXAMINATION FOR I SEMESTER [ODD SEMESTER 2023-24]
Monday, 26	First Day, B. Tech. II Sem.

March 2024

Monday, 04 to Wednesday, 06	First Mid Term Examination for B.Tech VIII Sem
Thursday, 14 to Saturday 16	Aarohan -2024
During Second/Third Week	Wise Activity

April 2024

Monday, 15 to Saturday, 20	First Mid Term Examination for B.Tech IV & VI Sem
Wednesday, 24	Last Teaching Day for B.Tech VIII Sem
Thursday, 25 to Saturday, 27	Second Mid-Term Examination for B.Tech VIII Sem
Monday, 29 to Wednesday 01 (May)	End-Term Practical Exams for B.Tech VIII Sem
Monday, 29 to Saturday, 04 (May)	First Mid Term Examination for B.Tech II Sem
	Farewell Function Batch 2020-24

May 2024

As Per RTU Schedule	End-Term Theory Exams for B.Tech VIII Sem
Saturday, 25 to Sunday, 26	Students' Council Meet

June 2024

Saturday, 8	Last Teaching Day for B.Tech IV & VI Sem
Monday, 10 to Saturday, 15	Second Mid-Term Examination for B.Tech IV & VI Sem
Monday, 17 to Wednesday 19	End-Term Practical Examination for B.Tech IV & VI Sem
As Per RTU Schedule	End-Term Theory Examination for B.Tech IV & VI Sem
Friday, 21	Last Teaching Day for B.Tech II Sem
Monday, 24 to Saturday, 29	Second Mid-Term Examination for B.Tech II Sem

July 2024

Monday, 01 to Wednesday 03	End-Term Practical Examination for B.Tech II Sem
As Per RTU Schedule	End-Term Theory Examination for B.Tech II Sem

HOLIDAYS IN EVEN SEMESTER

➢ New Year	-	01 January, Monday - 02 January, Tuesday
➢ Makar Sakranti	-	14 January, Sunday, 2024
➢ Republic Day Celebration	-	26 January, Friday - 27 January, Saturday, 2024
➢ Holi	-	23 March, Saturday - 26 March, Tuesday, 2024
➢ Eid-ul-Fiter	-	11 April , Thursday - 13 April, Saturday, 2024
➢ Ambedkar Jayanti	-	13 April, Saturday - 14 April, Sunday, 2024
➢ Eid-al-Adha	-	15 June, Saturday - 17 June, Monday, 2024

*Subject to revision as per RTU notifications

#Annual Alumni Meet in December 28, 2024

5 Department Activity Calendar

Poornima College of Engineering, Jaipur			
Activity Calendar : Even Semester - Session 2024-24			
(A) Academic Processes			
S. No.	**Activity/ Process**	**B.Tech. IV Sem.**	**B.Tech. VI Sem.**
A11	Date of Registration & start of regular classes for students	Monday, February 19, 24	Monday, February 19, 24
A2	Orientation programme		
A3	Date of submission of question papers by faculty members to secrecy for 1st Mid-term	Thursday, April 11, 24	Thusday, April 11, 24
A4	I Mid Term Theory & Practical Exam	Monday, April 15, 24 to Saturday, April 20, 24	Monday, April 15, 24 to Saturday, April 20, 24
A5	Showing evaluated answer books of 1st Mid-term exam to students in respective classes	Upto Tuesday, April 23, 24	Upto Tuesday, April 23, 24
A6	Last date of submission of Evaluated Answer Books and Mark of First Mid-term Theory & Practical exam to Exam and Secrecy Cell respectively	Upto Thursday, April 25, 24	Upto Thursday, April 25, 24
A7	Date of submission of question papers by faculty members to secrecy for 2nd Mid-term	Tuesday, June 04, 2024	Tuesday, June 04, 2024
A8	Revision classes	Thursday, June 05, 24 - June Friday 06, 24	Thursday, June 05, 24 - June Friday 06, 24
A9	Last Teaching Day	Saturday, June 08, 2024	Saturday, June 08, 2024
A10	2nd Mid-term theory & Practical Exams	Monday, June 10- Saturday June 15, 2024	Monday, June 10- Saturday June 15, 2024
A11	End-Term Practical Exams	Monday, June 17- Wednesday June 19, 2024	Monday, June 17- Wednesday June 19, 2024
(B) Events and Activities			
B1	Orientation Program		

B2	ICT and Computing Skill	ICT Tools for Active Learning: Promoting Student-Centered Instruction
B3	Career Counseling	NA
B4	MoU Activities	Natural Language Processing (NLP) and Text Mining: Extracting Insights from Text Data- Celebal Technologies
		Ethical Horizons: Navigating Integrity, Responsibility, and Impact in Professional Practice"
		Technology and Innovation: Exploring the impact of emerging technologies on various industries and professions. : Coding ninjas
		Career Paths in Data Science: Roles, Skills, and Professional Development: Rapid OPS
B5	Alumni Session/Industry Interaction	Carrer in Artificial intellegence and machine learning
		Career paths in data science: Roles,Skills and prefessional Development
		Natural language processing and text minning: Extracting insights from text data
		Expert lecture on building scalable python applications
		Emerging trends and challenges of cyber security
		IoT applications in medical and healthcare settings.
		Technology and inovation: Exploring the impact of emerging technologies on various industries and professionals
B6	Industrial Visit	
B7	Seminar/Webinar	
B8	Expert Talk	Expert Lecture on: Beyond devices: The Evolution of Everyday Wearables
B9	FDP and Technical Training Program for Technical Assistant	FDP: A comprihensive exploration of cognitronics by unraveling technologies

		STTP: Microsoft Tools for Creating Effective Teaching and Learning Environment
B10	Conference	
B11	Professional Ethics	Ethical Horizons: Navigating Integrity, Responsibility, and Impact in Professional Practice"
	Human Values and UHV activity	Self-Reflection and Growth: Personal Development through Human Values
B13	Soft Skill	Active Listening and Feedback Skills for Computer Engineers: Improving Team Dynamics and Performance
B14	Gender Equity	Expert Lecture: Gender Equity in Entrepreneurship and Business: Supporting Women-Owned Businesses and Closing the Funding Gap
B15	COE Activity	
(C) Holidays		
C1	New Year	January Monday 01, 2024-Tuesday 02, 2024
C2	Makar Sakranti	Saturday, January 14, 2024
C3	Celebration of Republic Day	Friday, January 26, 2024-Saturday, January 27, 2024
C4	Holi	Saturday, March 23,2024-Tuesday, March, 26, 2024
C5	Eid-ul-Fiter	Thursday, April 11,2024-Saturday, April 13, 2024
C6	Ambedkar Jayanti	Saturday, April 13,2024-Sunday, April 14, 2024
C7	Eid-al-Adha	Saturday, June 15,2024-Monday, June 17, 2024
"स्वच्छ भारत.. सम्पन्न भारत.."		

6 Teaching Scheme

6.1 RTU Teaching Scheme

RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Teaching & Examination Scheme
B.Tech. : Computer Science & Engineering
2nd Year - IV Semester

SN	Category	Course Code	Course Title	Contact hrs/week L	T	P	Marks Exm Hrs	IA	ETE	Total	Cr
THEORY											
1	BSC	4CS2-01	Discrete Mathematics Structure	3	0	0	3	30	120	**150**	**3**
2	HSMC	4CS1-03/ 4CS1-02	Managerial Economics and Financial Accounting /Technical Communication	2	0	0	2	20	80	**100**	**2**
3	ESC	4CS3-04	Microprocessor & Interfaces	3	0	0	3	30	120	**150**	**3**
4	PCC	4CS4-05	Database Management System	3	0	0	3	30	120	**150**	**3**
5		4CS4-06	Theory of Computation	3	0	0	3	30	120	**150**	**3**
6		4CS4-07	Data Communication and Computer Networks	3	0	0	3	30	120	**150**	**3**
			Sub Total	**17**	**0**	**0**		**170**	**680**	**850**	**17**
PRACTICAL & SESSIONAL											
7	PCC	4CS4-21	Microprocessor & Interfaces Lab	0	0	2		30	20	**50**	**1**
8		4CS4-22	Database Management System Lab	0	0	3		45	30	**75**	**1.5**
9		4CS4-23	Network Programming Lab	0	0	3		45	30	**75**	**1.5**
10		4CS4-24	Linux Shell Programming Lab	0	0	2		30	20	**50**	**1**
11		4CS4-25	Java Lab	0	0	2		30	20	**50**	**1**
12	SODECA	4CS8-00	Social Outreach, Discipline & Extra Curricular Activities							**25**	**0.5**
			Sub- Total	**0**	**0**	**12**		**180**	**120**	**325**	**6.5**
			TOTAL OF IV SEMEESTER	**17**	**0**	**12**		**350**	**800**	**1175**	**23.5**

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
3rd Year – VI Semester

THEORY												
SN	Category	Course		Contact hrs/week			Marks				Cr
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total	
1	ESC	6CS3-01	Digital Image Processing	2	0	0	3	30	70	**100**	**2**
2	PCC/ PEC	6CS4-02	Machine Learning	3	0	0	3	30	70	**100**	**3**
3		6CS4-03	Information Security System	2	0	0	3	30	70	**100**	**2**
4		6CS4-04	Computer Architecture and Organization	3	0	0	3	30	70	**100**	**3**
5		6CS4-05	Artificial Intelligence	2	0	0	3	30	70	**100**	**2**
6		6CS4-06	Cloud Computing	3	0	0	3	30	70	**100**	**3**
7		Professional Elective 1 (any one)		2	0	0	3	30	70	**100**	**2**
		6CS5-11	Distributed System								
		6CS5-12	Software Defined Network								
		6CS5-13	Ecommerce and ERP								
			Sub-Total	**17**	**0**	**0**					**17**
PRACTICAL & SESSIONAL												
8	PCC	6CS4-21	Digital Image Processing Lab	0	0	3	2	60	40	**100**	**1.5**
9		6CS4-22	Machine Learning Lab	0	0	3	2	60	40	**100**	**1.5**
10		6CS4-23	Python Lab	0	0	3	2	60	40	**100**	**1.5**
11		6CS4-24	Mobile Application Development Lab	0	0	3	2	60	40	**100**	**1.5**
12	SODECA	6CS8-00	Social Outreach, Discipline &Extra Curricular Activities						100	**100**	**0.5**
			Sub- Total	**0**	**0**	**12**					**6.5**
			TOTAL OF VI SEMESTER	**17**	**0**	**12**					**23.5**

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

Scheme & Syllabus

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

Teaching & Examination Scheme
B.Tech. : Computer Science & Engineering
4th Year – VIII Semester

SN	Category	Course		Contact hrs/week			Marks				Cr
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total	
THEORY											
1	PCC/ PEC	8CS4-01	Big Data Analytics	3	0	0	3	30	70	**100**	**3**
2	OE		Open Elective - II	3	0	0	3	30	70	**100**	**3**
			Sub Total	**6**	**0**	**0**	**6**	**60**	**140**	**200**	**6**
PRACTICAL & SESSIONAL											
3	PCC	8CS4-21	Big Data Analytics Lab	0	0	2	2	60	40	**100**	**1**
4	PCC	8CS4-22	Software Testing and Validation Lab	0	0	2	2	60	40	**100**	**1**
5	PSIT	8CS7-50	Project	3	0	0		60	40	**100**	**7**
6	SODECA	8CS8-00	Social Outreach, Discipline &Extra Curricular Activities							**100**	**0.5**
			Sub- Total	**0**	**0**	**4**	**4**	**180**	**120**	**400**	**9.5**
			TOTAL OF VIII SEMESTER	**6**	**0**	**4**	**10**	**180**	**120**	**600**	**15.5**

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 Computer Engineering, Jaipur
Teaching Scheme of ODD Semester 2022-23 (CSE)

Poornima College of Engineering, Jaipur																	
Format for Teaching Scheme of Even Semester 2023-24																	
Working Group	Year	Sem	Deptt.	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	CSE	3	1	0	3	Discrete Mathematics Structure	4CS2-01	4	8	F	12	8	0	20	Maths	BSC
CS/IT	2	4	CSE	2	0	0	2	Technical Communication	4CS1-02	4	8	F	8	0	0	8	English	HSMC
CS/IT	2	4	CSE	3	0	0	3	Microprocessor & Interfaces	4CS3-04	4	8	F	12	0	0	12	ECE	ESC
CS/IT	2	4	CSE	3	0	0	3	Database Management System	4CS4-05	4	8	F	12	0	0	12	CS	PCC
CS/IT	2	4	CSE	3	0	0	3	Theory of Computation	4CS4-06	4	8	F	12	0	0	12	CS	PCC
CS/IT	2	4	CSE	3	0	0	3	Data Communication and Computer Networks	4CS4-07	4	8	F	12	0	0	12	CS	PCC
CS/IT	2	4	CSE	0	0	2	1	Microprocessor & Interfaces Lab	4CS4-21	4	8	T	0	0	16	16	ECE	ESC
CS/IT	2	4	CSE	0	0	3	1.5	Database Management System Lab	4CS4-22	4	8	T	0	0	24	24	CS	PCC
CS/IT	2	4	CSE	0	0	3	1.5	Network Programming Lab	4CS4-23	4	8	T	0	0	24	24	CS	PCC
CS/IT	2	4	CSE	0	0	2	1	Linux Shell Programming	4CS4-	4	8	T	0	0	16	16	CS	NA

								Lab	24								
CS/IT	2	4	CSE	0	0	2	1	Java Lab	4CS4-25	4	8	T	0	0	16	16	CS	NA
																172		
CS/IT	3	6	CSE	2	0	0	2	Digital Image Processing	6CS3-01	3	6	F	6	0	0	6	CS	PCC/ PEC
CS/IT	3	6	CSE	3	0	0	3	Machine Learning	6CS4-02	3	6	F	9	0	0	9	CS	PCC/ PEC
CS/IT	3	6	CSE	3	0	0	2	Information Security System	6CS4-03	3	6	F	9	0	0	9	CS	PCC/ PEC
CS/IT	3	6	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	CSE	2	0	0	2	Artificial Intelligence	6CS4-05	3	6	F	6	0	0	6	CS	PCC/ PEC
CS/IT	3	6	CSE	3	0	0	3	Cloud Computing	6CS4-06	3	6	F	9	0	0	9	CS	PCC/ PEC
CS/IT	3	6	CSE	2	0	0	2	Distributed System (Elective-1) / Ecommerce and ERP (Elective-2)	6CS5-11	3	6	F	6	0	0	6	CS	PCC/ PEC
CS/IT	3	6	CSE	0	0	3	1.5	Digital Image Processing Lab	6CS4-21	3	6	T	0	0	18	18	CS	PCC/ PEC
CS/IT	3	6	CSE	0	0	3	1.5	Machine Learning Lab	6CS4-22	3	6	T	0	0	18	18	CS	PCC
CS/IT	3	6	CSE	0	0	3	1.5	Python Lab	6CS4-23	3	6	T	0	0	18	18	CS	PCC
CS/IT	3	6	CSE	0	0	3	1.5	Mobile Application Development Lab	6CS4-24	3	6	T	0	0	18	18	CS	PCC
																126		
CS/IT	4	8	CSE	3	0	0	3	Big Data	8CS4-	3	6	F	9	0	0	9	CSE	PCC/

								Analytics	01									PEC
CS/IT	4	8	CSE	3	0	0	3	Open Elective - II (8CS6-60.1 Big Data Analytics) & 8CS6-60.2 IPR, Copyright and Cyber Law of India		2		F	6	0	0	6	CSE	OE
CS/IT	4	8	CSE	0	0	3	1	Big Data Analytics Lab	8CS4-21	3	6	T	0	0	18	18	CSE	PCC
CS/IT	4	8	CSE	0	0	3	1	Software Testing and Validation Lab	8CS4-22	3	6	T	0	0	18	18	CSE	PCC
CS/IT	4	8	CSE	0	0	6	7	Project	8CS7-0	3	6	T	0	0	36	36	CSE	PSIT
																87		
														Total Load		385		

7.1 Marking Scheme

MARKING SCHEME FOR PRACTICAL EXAM, EVEN SEM., 2023-24,		EXAM & SECRECY CELL, PCE							
		I & II Mid Term Exam			Atten & Performance.	End Term Exam			Max.
Code	SUBJECT	Exp.	Viva	Total	Total	Exp.	Viva	Total	Marks
2FY2-21	Engineering Chemistry Lab	30	10	40	40	30	10	40	100
2FY2-20	Engineering Physics Lab	30	10	40	40	30	10	40	100
2FY1-23	Human Values Activities and Sports	30	10	40	40	30	10	40	100
2FY1-22	Language Lab	30	10	40	40	30	10	40	100
2FY3-25	Manufacturing Practices Workshop	30	10	40	40	30	10	40	100
2FY3-24	Computer Programming Lab	30	10	40	40	30	10	40	100
2FY3-27	Basic Civil Engineering Lab	30	10	40	40	30	10	40	100
2FY3-26	Basic Electrical Engineering Lab	30	10	40	40	30	10	40	100
2FY3-29	Computer Aided Machine Drawing	30	10	40	40	30	10	40	100
4AID4-21	Microprocessor & Interfaces Lab	30	10	40	40	30	10	40	100
4AID4-22	Database Management System Lab	30	10	40	40	30	10	40	100
4AID4-23	Network Programming Lab	30	10	40	40	30	10	40	100
4AID4-24	Linux Shell Programming Lab	30	10	40	40	30	10	40	100
4AID4-25	Java Lab	30	10	40	40	30	10	40	100
4CAI4-21	Microprocessor & Interfaces Lab	30	10	40	40	30	10	40	100
4CAI4-22	Database Management System Lab	30	10	40	40	30	10	40	100
4CAI4-23	Network Programming Lab	30	10	40	40	30	10	40	100
4CAI4-24	Linux Shell Programming Lab	30	10	40	40	30	10	40	100
4CAI4-25	Java Lab	30	10	40	40	30	10	40	100
4CSR4-21	Microprocessor & Interfaces Lab	30	10	40	40	30	10	40	100
4CSR4-22	Database Management System Lab	30	10	40	40	30	10	40	100
4CSR4-23	Network Programming Lab	30	10	40	40	30	10	40	100
4CSR4-24	Linux Shell Programming Lab	30	10	40	40	30	10	40	100
4CSR4-25	Java Lab	30	10	40	40	30	10	40	100
4CCS4-21	Microprocessor & Interfaces Lab	30	10	40	40	30	10	40	100
4CCS4-22	Database Management System Lab	30	10	40	40	30	10	40	100
4CCS4-23	Network Programming Lab	30	10	40	40	30	10	40	100
4CCS4-24	Linux Shell Programming Lab	30	10	40	40	30	10	40	100
4CCS4-25	Java Lab	30	10	40	40	30	10	40	100
4CE4-21	Material Testing Lab	30	10	40	40	30	10	40	100
4CE4-22	Hydraulics Engineering Lab	30	10	40	40	30	10	40	100
4CE4-23	Building Drawing	30	10	40	40	30	10	40	100
4CE4-24	Advanced Surveying Lab	30	10	40	40	30	10	40	100
4CE4-25	Concrete Lab	30	10	40	40	30	10	40	100
4CS4-21	Microprocessor & Interfaces Lab	30	10	40	40	30	10	40	100
4CS4-22	Database Management System Lab	30	10	40	40	30	10	40	100
4CS4-23	Network Programming Lab	30	10	40	40	30	10	40	100
4CS4-24	Linux Shell Programming Lab	30	10	40	40	30	10	40	100
4CS4-25	Java Lab	30	10	40	40	30	10	40	100
4EC4-21	Analog and Digital Communication Lab	30	10	40	40	30	10	40	100
4EC4-22	Analog Circuits Lab	30	10	40	40	30	10	40	100
4EC4-23	Microcontrollers Lab	30	10	40	40	30	10	40	100
4EC4-24	Electronics Measurement & Instrumentation Lab	30	10	40	40	30	10	40	100
4EE4-21	Electrical Machine - II Lab	30	10	40	40	30	10	40	100
4EE4-22	Power Electronics Lab	30	10	40	40	30	10	40	100
4EE4-23	Digital Electronics Lab	30	10	40	40	30	10	40	100
4EE3-24	Measurement Lab	30	10	40	40	30	10	40	100
4IT4-21	Linux Shell Programming Lab	30	10	40	40	30	10	40	100
4IT4-22	Database Management System Lab	30	10	40	40	30	10	40	100
4IT4-23	Network Programming Lab	30	10	40	40	30	10	40	100
4IT4-24	Java Lab	30	10	40	40	30	10	40	100
4IT4-25	Web Technology Lab	30	10	40	40	30	10	40	100
4ME3-21	Digital Electronics lab	30	10	40	40	30	10	40	100
4ME4-22	Fluid Mechanics lab	30	10	40	40	30	10	40	100
4ME4-23	Production practice lab	30	10	40	40	30	10	40	100
4ME4-24	Theory of machines Lab	30	10	40	40	30	10	40	100
6CE4-21	Environmental Engineering Design and Lab	30	10	40	40	30	10	40	100
6CE4-22	Steel Structure Design	30	10	40	40	30	10	40	100
6CE4-23	Quantity Surveying and Valuation	30	10	40	40	30	10	40	100
6CE4-24	Water and Earth Retaining Structures Design	30	10	40	40	30	10	40	100
6CE4-25	Foundation Design	30	10	40	40	30	10	40	100
6CS4-21	Digital Image Processing Lab	30	10	40	40	30	10	40	100
6CS4-22	Machine Learning Lab	30	10	40	40	30	10	40	100
6CS4-23	Python Lab	30	10	40	40	30	10	40	100
6CS4-24	Mobile Application Development Lab	30	10	40	40	30	10	40	100
6EC 4-21	Computer Network Lab	30	10	40	40	30	10	40	100
6EC 4-22	Antenna and wave propagation Lab	30	10	40	40	30	10	40	100
6EC 4-23	Electronics Design Lab	30	10	40	40	30	10	40	100
6EC 4-24	Power Electronics Lab	30	10	40	40	30	10	40	100
6EE4-21	Power System - II Lab	30	10	40	40	30	10	40	100
6EE4-22	Electric Drives Lab	30	10	40	40	30	10	40	100
6EE4-23	Power System Protection Lab	30	10	40	40	30	10	40	100
6EE4-24	Modelling and simulation lab	30	10	40	40	30	10	40	100
6IT4-21	Digital Image Processing Lab	30	10	40	40	30	10	40	100
6IT4-22	Machine Learning Lab	30	10	40	40	30	10	40	100
6IT4-23	Python Lab	30	10	40	40	30	10	40	100
6IT4-24	Mobile Application Development Lab	30	10	40	40	30	10	40	100
6ME4-21	CIMS Lab	30	10	40	40	30	10	40	100
6ME4-22	Vibration Lab	30	10	40	40	30	10	40	100
6ME4-23	Machine Design Practice II	30	10	40	40	30	10	40	100
6ME4-24	Thermal Engineering Lab I	30	10	40	40	30	10	40	100
8CE4-21	Project Planning & Construction Management	30	10	40	40	30	10	40	100
8CE4-22	Pavement Design	30	10	40	40	30	10	40	100
8CE7-50	Project			60			40		100
8CS4-21	Big Data Analytics Lab	30	10	40	40	30	10	40	100
8CS4-22	Software Testing and Validation Lab	30	10	40	40	30	10	40	100
8CS7-50	Project			60			40		100
8EC4-21	Internet of Things (IOT) Lab	30	10	40	40	30	10	40	100
8EC4-22	Skill Development Lab	30	10	40	40	30	10	40	100
8EC7-50	Project			60			40		100
8EE4-21	Energy Systems Lab	30	10	40	40	30	10	40	100
8EE7-50	Project			60			40		100
8IT4-21	Internet of Things Lab	30	10	40	40	30	10	40	100
8IT4-22	Software Testing and Validation Lab	30	10	40	40	30	10	40	100
8IT7-50	Project			120			80		200
8ME4-21	Industrial Engineering Lab	30	10	40	40	30	10	40	100
8ME4-22	Metrology Lab	30	10	40	40	30	10	40	100
8ME7-50	Project *#			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.									

8 Department Load Allocation

9. Time Table

9.1 Academic Time Table

POORNIMA COLLEGE OF ENGINEERING, JAIPUR									
Department of Computer Engineering									
Load Sheet of Session 2023-24 (ODD Semester)									
Sr. No.	**Faculty Name**	**Subject(s)**	**Subject Code**	**Section**	**L**	**T**	**P**	**Load Per Week**	**Total Load**
1	MR. SANJAY KUMAR GUPTA	Compiler Design	5CS4-02	A	3	0	0	3	16
		Compiler Design Lab	5CS4-22	A	0	0	2	4	
		Adv Java Lab	5CYS4-24	D2	0	0	2	2	
		Adv Java Lab	5CS4-24	C	0	0	4	4	
		Data MiningConcepts and Techniques	5AID3-01	E(AIDS)	3	0	0	3	
2	DR. MAHESH BUNDELE								
3	Dr. VEENA YADAV	Computer Graphics & Multimedia	5CAI4-04	D	3	0	0	3	10
		Computer Graphics & Multimedia Lab	5CAI4-21	D	0	0	2	4	
		Computer Architecture	5EC 3-01	ECE-DEPT	3	0	0	3	
4	MS. NEHA SHROTRIYA	Cyber Security Lab	7CS4-22	B2	0	0	4	4	17
		Data Structures and Algorithms	3CAI4-05	D	0	0	3	3	
		Data Structures and Algorithms Lab	3CAI4-21	D	0	0	3	6	
		Quality Management/ISO 9000	7CS6.60.1	BATCH	4	0	0	4	
5	DR. NIKITA JAIN	Operating Systems	5CS4-03	C	4	0	0	4	13
		Software Engineering	3CS4-07	B	3	0	0	3	
		Software Engineering Lab	3CS4-23	B	0	0	3	6	
6	MR. MANISH DUBEY	Operating Systems	5CS4-03	B	4	0	0	4	15
		Computer Graphics	5CS4-04	C	3	0	0	3	
		Computer Graphics & Multimedia Lab	5CS4-21	C	0	0	2	4	

		Cyber Security Lab	**7CS4-22**	**B1**	**0**	**0**	**4**	**4**	
7	**MS. HARSHITA VIRWANI**	**Operating Systems**	**5CS4-03**	**A**	**4**	**0**	**0**	**4**	**17**
		Object Oriented Programming	**3CS4-06**	**A**	**3**	**0**	**0**	**3**	
		Object Oriented Programming Lab	**3CS4-22**	**A**	**0**	**0**	**3**	**6**	
		Operating Systems	**5CAI-03**	**D**	**4**	**0**	**0**	**4**	
8	**Ms. BARKHA NARANG**	**Object Oriented Programming**	**3CS4-06**	**C**	**3**	**0**	**0**	**3**	**16**
		Object Oriented Programming Lab	**3CS4-22**	**C**	**0**	**0**	**3**	**6**	
		Analysis Of Algorithm	**5CS4-05**	**A**	**3**	**0**	**0**	**3**	
		Analysis Of Algorithm Lab	**5CS4-23**	**A**	**0**	**0**	**2**	**4**	
9	**Ms. ARCHANA SONI**	**Software Engineering**	**3CYS4-07**	**F**	**3**	**0**	**0**	**3**	**16**
		Software Engineering Lab	**3CYS4-23**	**F**	**0**	**0**	**3**	**6**	
		Computer Graphics & Multimedia	**5CYS4-04**	**F**	**3**	**0**	**0**	**3**	
		Computer Graphics & Multimedia Lab	**5CYS4-21**	**F**	**0**	**0**	**2**	**4**	
10	**Dr. ABHISHEK SHARMA**	**Internet of Things**	**7CS4-01**	**B**	**4**	**0**	**0**	**4**	**13**
		Internet of Things Lab	**7CS4-21**	**B**	**0**	**0**	**8**	**8**	
		Industrial Training	**5CYS7-30**	**F**	**0**	**0**	**1**	**1**	
11	**MR. SHIRISH MOHAN DUBEY**	**Object Oriented Programming**	**3CS4-06**	**B**	**0**	**0**	**3**	**3**	**15**
		Object Oriented Programming Lab	**3CS4-22**	**B**	**0**	**0**	**3**	**6**	
		Fundamentals of Blockchain	**5CAI5-11**	**Batch-1-**	**3**	**0**	**0**	**3**	
		Industrial Training	**5CS7-30**	**C**	**0**	**0**	**1**	**1**	
		Adv Java Lab	**5CAI4-24**	**D1**	**0**	**0**	**2**	**2**	
12	**MS.GEETA TIWARI**	**Data Structures and Algorithms**	**3CSR4-05**	**R**	**3**	**0**	**0**	**3**	**16**
		Data Structures and Algorithms Lab	**3CSR4-21**	**R**	**0**	**0**	**3**	**6**	
		Compiler Design	**5CS4-02/**	**B**	**3**	**0**	**0**	**3**	
		Compiler Design Lab	**5CS4-22**	**B**	**0**	**0**	**2**	**4**	
13	**MS. SHILPA KALRA SAHANI**	**Object Oriented Programming**	**3CS4-06**	**R**	**3**	**0**	**0**	**3**	**16**
		Object Oriented Programming Lab	**3CS4-22**	**R**	**0**	**0**	**3**	**6**	
		Analysis Of Algorithm	**5CS4-05**	**B**	**3**	**0**	**0**	**3**	
		Analysis Of Algorithm Lab	**5CS4-23**	**B**	**0**	**0**	**2**	**4**	

14	MR. SARANSH SHARMA	Analysis Of Algorithm	5AID4-05	E	3	0	0	3	16
		Analysis Of Algorithm Lab	5AID4-23	E	0	0	2	4	
		Data Structures and Algorithms	3CCY4-05	F	3	0	0	3	
		Data Structures and Algorithms Lab	3CCY4-21	F	0	0	3	6	
15	Mr. Devendra Nath Pathak	Data Structures and Algorithms	3CS4-05	C	3	0	0	3	16
		Data Structures and Algorithms Lab	3CS4-21	C	0	0	3	6	
		Analysis Of Algorithm	5CAI4-05	D	3	0	0	3	
		Analysis Of Algorithm Lab	5CAI4-23	D	0	0	2	4	
16	Mr. Rohit Singh Rajput	Data Structures and Algorithms	3CS4-05	A	3	0	0	3	16
		Data Structures and Algorithms Lab	3CS4-21	A	0	0	3	6	
		Analysis Of Algorithm	5CS4-05	C	3	0	0	3	
		Analysis Of Algorithm Lab	5CS4-23	C	0	0	2	4	
17	Mr. Suchit Bhai Patel	Data MiningConcepts and Techniques	5CAI3-01	F	3	0	0	3	15
		Industrial Training	7CS7-30	A	0	0	4	4	
		Adv Java Lab	5CS4-24	B	0	0	4	4	
		Information Theory & Coding	5CS3-01	B	3	0	0	3	
		Industrial Training	3CS7-30	A	0	0	1	1	
18	Ms. Anjuli Dubey	Digital Electronics	3AID4-04	E	3	0	0	3	15
		Digital Electronics Lab	3AID4-24	E	0	0	2	4	
		Information Theory & Coding	5CS3-01	C	3	0	0	3	
		Digital Electronics	3CYS3-04	F	3	0	0	3	
		Digital Electronics Lab	3CYS4-24	F	0	0	2	4	
19	DR. RAJESH KUMAR BATHIJA	Fundamentals of Blockchain	5CAI5-11	Batch-2	3	0	0	3	9
		NSP- 7CS7-PROJECT		B	0	0	2	2	
		Adv Java Lab	5CS4-24	F	0	0	2	4	
20	Ms. Chitra Thinger	Software Engineering	3CS4-07	A	3	0	0	3	16
		Software Engineering Lab	3CS4-23	A	0	0	3	6	
		Computer Graphics & Multimedia	5CS4-04	B	3	0	0	3	
		Computer Graphics & Multimedia Lab	5CS4-21	B	0	0	2	4	

21	Mr. Shubham Patel	Software Engineering	3CAI4-07/3CAI4-23	D	3	0	0	3	16
		Software Engineering Lab	3CAI4-07/3CAI4-23	D	0	0	3	6	
		Analysis Of Algorithm	5CYS4-05/5CYS4-23	F	3	0	0	3	
		Analysis Of Algorithm Lab	5CYS4-05/5CYS4-23	F	0	0	2	4	
22	MS. ANJALI SINGH	NSP- 7CS7-PROJECT		A	0	0	2	2	6
		Industrial Training	3CYS7-30	F	0	0	1	1	
		Industrial Training	3CSR7-30	R	0	0	1	1	
		Industrial Training	5CS7-30	B	0	0	1	1	
		Industrial Training	3CS7-30	C	0	0	1	1	
23	Ms. AmritPal Kaur	Human-Computer Interaction	5CS5-12	BATCH-2	3	0	0	3	12
		Software Engineering	3CS4-07	C	3	0	0	3	
		Software Engineering Lab	3CS4-23	C	0	0	3	6	
24	Dr. Surender Hans (ECE)	Digital Electronics	3CS3-04	B	3	0	0	3	14
		Digital Electronics Lab	3CS4-24	B	0	0	2	4	
		Information Theory & Coding	5CS3-01	A	3	0	0	3	
		Digital Electronics Lab	3AI4-04	D	0	0	2	4	
25	Dr. Geetika Mathur (ECE)	Digital Electronics	3CS3-04	A	3	0	0	3	10
		Digital Electronics Lab	3CS4-24	A	0	0	2	4	
		Digital Electronics Lab	3CS4-24	C	0	0	2	4	

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER ENGINEERING
IV-A

Class Location: 2107
WEF: 19.02.2024
Tutor Name:Ms. Shilpa Kalra

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:20	4 12:20 - 13:20	5 13:20 - 14:20	6 14:20 - 15:20
Mon	**4CS4-07 DCCN** Dr Abhishek Sharma	**4CS4-06 TOC** Prof. Nikita Jain	**4CS1-02 TC** Dr. Shalini Shah	LUNCH	BATCH-A1 **4CS4-23 NP LAB** 1208lab Dr Abhishek Sharma BATCH-A2 **4CS4-22 DBMS LAB** 1101Alab Ms Shilpa Kalra Sahani		
Tues	**4CS4-06 TOC** Prof. Nikita Jain	BATCH-A1 **4CS4-21 MPI LAB** 1110lab Prof Geetika Mathur BATCH-A2 **4CS4-25 JAVA LAB** 1201Alab Ms. Ritu Sharma			**4CS4-07 DCCN** Dr Abhishek Sharma	**4CS3-04 MPI** Prof Geetika Mathur	**4CS2-01 DMS** Prof. Shilpi Jain
Wed	**4CS4-06 TOC** Prof. Nikita Jain	**4CS2-01 DMS** Prof. Shilpi Jain	**4CS4-05 DBMS** Ms Shilpa Kalra Sahani		BATCH-A1 **4CS4-22 DBMS LAB** 1101Alab Ms Shilpa Kalra Sahani BATCH-A2 **4CS4-23 NP LAB** 1107lab Dr Abhishek Sharma		
Thur	**4CS4-07 DCCN** Dr Abhishek Sharma	BATCH-A1 **4CS4-25 JAVA LAB** 1101Alab Ms. Ritu Sharma BATCH-A2 **4CS4-24 LSP LAB** 1201Alab Mr Rohit Singh Rajput			**4CS3-04 MPI** Prof Geetika Mathur	**4CS2-01 DMS** Prof. Shilpi Jain	**4CS4-05 DBMS** Ms Shilpa Kalra Sahani
Fri	BATCH-A1 **4CS2-01 DMS tut.** Prof. Shilpi Jain BATCH-A2 **4CS4-21 MPI LAB** 1109lab Prof Geetika Mathur	BATCH-A1 **4CS4-24 LSP LAB** 1201Alab Mr Rohit Singh Rajput	BATCH-A2 **4CS2-01 DMS tut.** Prof. Shilpi Jain		**4CS1-02 TC** Dr. Shalini Shah	**4CS3-04 MPI** Prof Geetika Mathur	**4CS4-05 DBMS** Ms Shilpa Kalra Sahani
Sa							

Time Table Coordinators: Dr.Abhishek Sharma & Ms. Harshita Virwani, HOD, Dy.HoD
Vice Principal, PCE, Director, PCE

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER ENGINEERING
IV-B

Class Location: 1104
WEF: 19.02.2024
Tutor Name:Dr. Neha Mahala

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:20	4 12:20 - 13:20	5 13:20 - 14:20	6 14:20 - 15:20
Mon	BATCH B1 **4CS4-21 MPI LAB** 1110lab Prof Geetika Mathur BATCH B2 **4CS4-24 LSP LAB** 2209Flab Ms Barkha Narang		**4CS2-01 DMS** Prof. Shilpi Jain		BATCH B1 **4CS4-22 DBMS LAB** 1201lab Mr Manish Dubey BATCH B2 **4CS4-21 MPI LAB** 1109lab Prof Geetika Mathur		BATCH B2 **4CS2-01 DMS tut.** Prof. Shilpi Jain
Tues	BATCH B1 **4CS4-23 NP LAB** 1101Alab Dr Neha Mahala BATCH B2 **4CS4-22 DBMS LAB** 1201lab Mr Manish Dubey				**4CS1-02 TC** Dr. Shalini Shah	BATCH B1 **4CS4-24 LSP LAB** 1201Alab Ms Barkha Narang BATCH B2 **4CS4-25 JAVA LAB** 1101Alab Ms Neetu	
Wed	**4CS3-04 MPI** Prof Geetika Mathur	**4CS4-06 TOC** Prof. Nikita Jain	**4CS4-05 DBMS** Mr Manish Dubey	LUNCH	**4CS2-01 DMS** Prof. Shilpi Jain	**4CS1-02 TC** Dr. Shalini Shah	**4CS3-04 MPI** Prof Geetika Mathur
Thur	**4CS4-06 TOC** Prof. Nikita Jain	**4CS4-07 DCCN** Dr Neha Mahala	**4CS4-05 DBMS** Mr Manish Dubey		**4CS4-07 DCCN** Dr Neha Mahala	**4CS3-04 MPI** Prof Geetika Mathur	**4CS2-01 DMS** Prof. Shilpi Jain
Fri	**4CS4-06 TOC** Prof. Nikita Jain	**4CS4-05 DBMS** Mr Manish Dubey	**4CS4-07 DCCN** Dr Neha Mahala		BATCH B1 **4CS4-25 JAVA LAB** 1102lab Ms Harshita Virwani BATCH B2 **4CS4-23 NP LAB** 1101Alab Dr Neha Mahala		BATCH B1 **4CS2-01 DMS tut.** Prof. Shilpi Jain
Sa							

Time Table Coordinators: Dr.Abhishek Sharma & Ms. Harshita Virwani, HOD, Dy.HoD
Vice Principal, PCE, Director, PCE

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER ENGINEERING
IV-C

Class Location: 1105
WEF: 19.02.2024
Tutor Name:Mr. Devendra Nath Pathak

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:20	4 12:20 - 13:20	5 13:20 - 14:20	6 14:20 - 15:20
Mon	**4CS2-01 DMS** Dr. Shuchi Dave	**4CS4-06 TOC** Ms Geeta Tiwari	**4CS4-07 DCCN** Mr Devendra Nath Pathak	LUNCH	BATCH C1 **4CS4-23 NP LAB** 1201Alab Mr Devendra Nath Pathak BATCH C2 **4CS4-22 DBMS LAB** 1207lab Ms Harshita Virwani		
Tues	**4CS1-02 TC** Dr. Shalini Shah	**4CS4-05 DBMS** Ms Harshita Virwani	**4CS3-04 MPI** Ms Anjuli Dubey		BATCH C1 **4CS2-01 DMS tut.** Dr. Shuchi Dave BATCH C2 **4CS4-23 NP LAB** 1102lab Ms Sonam Gour	BATCH C1 **4CS4-24 LSP LAB** 2209Flab Mr Shubham Patel	
Wed	BATCH C1 **4CS4-25 JAVA LAB** 1101Alab Ms. Ritu Sharma BATCH C2 **4CS4-21 MPI LAB** 1109lab Ms Anjuli Dubey		**4CS4-05 DBMS** Ms Harshita Virwani		**4CS3-04 MPI** Ms Anjuli Dubey	**4CS2-01 DMS** Dr. Shuchi Dave	**4CS4-07 DCCN** Mr Devendra Nath Pathak
Thur	**4CS4-06 TOC** Ms Geeta Tiwari	**4CS4-05 DBMS** Ms Harshita Virwani	**4CS1-02 TC** Dr. Shalini Shah		BATCH C1 **4CS4-22 DBMS LAB** 1207lab Ms Harshita Virwani BATCH C2 **4CS4-25 JAVA LAB** 1101Alab Ms. Ritu Sharma	BATCH C2 **4CS2-01 DMS tut.** 1209Btut Dr. Shuchi Dave	
Fri	**4CS2-01 DMS** Dr. Shuchi Dave	**4CS4-07 DCCN** Mr Devendra Nath Pathak	**4CS4-06 TOC** Ms Geeta Tiwari		BATCH C1 **4CS4-21 MPI LAB** 1109lab Ms Anjuli Dubey BATCH C2 **4CS4-24 LSP LAB** 1202lab Mr Shubham Patel	**4CS3-04 MPI** Ms Anjuli Dubey	
Sa							

Time Table Coordinators: Dr.Abhishek Sharma & Ms. Harshita Virwani, HoD, Dy.HoD
Vice Principal, PCE, Director, PCE

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER ENGINEERING
IV-R

Class Location: 2104
WEF: 19.02.2024
Tutor Name:Mr. Saransh Sharma

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:20	4 12:20 - 13:20	5 13:20 - 14:20	6 14:20 - 15:20
Mon	BATCH-R1 **4CSR4-23 NP LAB** 1208lab Prof. Veena Yadav				BATCH-R1 **4CSR2-01 DMS tut.** Dr. Shuchi Dave	BATCH-R1 **4CSR4-25 JAVA LAB** 2209Flab Mr Saransh Sharma	
	BATCH-R2 **4CSR4-25 JAVA LAB** Mr Saransh Sharma		BATCH-R2 **4CSR2-01 DMS tut.** Dr. Shuchi Dave		BATCH-R2 **4CSR4-22 DBMS LAB** 1105 Prof Saurabh Sandilya		
Tues	**4CSR4-06 TOC** Ms Neha Shrotriya	**4CSR3-04 MPI** HEMANT KAUSHIK	**4CSR4-07 DCCN** Prof. Veena Yadav		**4CSR3-04 MPI** HEMANT KAUSHIK	**4CSR4-05 DBMS** Prof Saurabh Sandilya	**4CSR1-02 TC** Dr. Shalini Shah
Wed	BATCH-R1 **4CSR4-22 DBMS LAB** 1201Alab Prof Saurabh Sandilya			LUNCH	**4CSR2-01 DMS** Dr. Shuchi Dave	**4CSR4-05 DBMS** Prof Saurabh Sandilya	**4CSR4-06 TOC** Ms Neha Shrotriya
	BATCH-R2 **4CSR4-23 NP LAB** 1110lab Prof. Veena Yadav						
Thur	**4CSR4-07 DCCN** Prof. Veena Yadav	**4CSR2-01 DMS** Dr. Shuchi Dave	**4CSR3-04 MPI** HEMANT KAUSHIK		BATCH-R1 **4CSR4-24 LSP LAB** Ms Neha Shrotriya		**4CSR4-05 DBMS** Prof Saurabh Sandilya
					BATCH-R2 **4CSR4-21 MPI LAB** 1109lab HEMANT KAUSHIK		
Fri	**4CSR1-02 TC** Dr. Shalini Shah	**4CSR4-07 DCCN** Prof. Veena Yadav	**4CSR2-01 DMS** Dr. Shuchi Dave		BATCH-R1 **4CSR4-21 MPI LAB** 1110lab HEMANT KAUSHIK		**4CSR4-06 TOC** Ms Neha Shrotriya
					BATCH-R2 **4CSR4-24 LSP LAB** 1201Alab Ms Neha Shrotriya		
Sa							

Time Table Coordinators: Dr.Abhishek Sharma & Ms. Harshita Virwani, HoD, Dy.HoD
Vice Principal, PCE, Director, PCE

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

Class Location: 2307
WEF: 19.02.2024
Tutor Name:Dr. K.D Gupta

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:20	4 12:20 - 13:20	5 13:20 - 14:20	6 14:20 - 15:20
Mon	**4CAI2-01 DMS** Mr Pradeep Kumar	**4CAI4-07 DCCN** Dr Keshav Dev Gupta	**4CAI4-05 DBMS** Ms Chitra Thinger	LUNCH	BATCH D1 **4CAI4-22 DBMS LAB** 1210Clab Ms Chitra Thinger BATCH D2 **4CAI4-23 NP LAB** 1107lab Dr Keshav Dev Gupta		
Tues	**4CAI3-04 MPI** Prof Geetika Mathur	**4CAI4-05 DBMS** Ms Chitra Thinger	**4CAI1-02 TC** Dr. Shalini Shah		**4CAI4-06 TOC** Mr Saransh Sharma	BATCH D1 **4CAI4-24 LSP LAB** 1202lab Ms Reena Sharma BATCH D2 **4CAI4-21 MPI LAB** 1110lab HEMANT KAUSHIK	
Wed	**4CAI2-01 DMS** Mr Pradeep Kumar	**4CAI1-02 TC** Dr. Shalini Shah	**4CAI4-05 DBMS** Ms Chitra Thinger		BATCH D1 **4CAI2-01 DMS tut.** 1113tut Mr Pradeep Kumar BATCH D2 **4CAI4-22 DBMS LAB** 1201Alab Ms Chitra Thinger	BATCH D1 **4CAI4-25 JAVA LAB** 1207lab Ms Harshita Virwani	
Thur	BATCH D1 **4CAI4-23 NP LAB** 1201lab Dr Keshav Dev Gupta BATCH D2 **4CAI4-24 LSP LAB** 1202lab Ms Reena Sharma	BATCH D2 **4CAI2-01 DMS tut.** 1113tut Mr Pradeep Kumar			**4CAI4-07 DCCN** Dr Keshav Dev Gupta	**4CAI4-06 TOC** Mr Saransh Sharma	**4CAI2-01 DMS** Mr Pradeep Kumar
Fri	BATCH D1 **4CAI4-21 MPI LAB** 1110lab HEMANT KAUSHIK BATCH D2 **4CAI4-25 JAVA LAB** 1207lab Ms Harshita Virwani	**4CAI3-04 MPI** Prof Geetika Mathur			**4CAI4-07 DCCN** Dr Keshav Dev Gupta	**4CAI4-06 TOC** Mr Saransh Sharma	**4CAI3-04 MPI** Prof Geetika Mathur
Sa							

Time Table Coordinators: Dr.Abhishek Sharma & Ms. Harshita Virwani, HoD, Dy.HoD
Vice Principal, PCE, Director, PC

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF ADVANCE COMPUTING
IV-E(AID)

Class Location: 1305
WEF: 19.02.2024
Tutor Name:Ms. Neetu Joshi

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:20	4 12:20 - 13:20	5 13:20 - 14:20	6 14:20 - 15:20
Mon	BATCH E1 **4AID4-22 DBMS LAB** 1201lab Ms Neetu BATCH E2 **4AID4-23 NP LAB** 1102lab Mr Gaurav Sharma				BATCH E1 **4AID4-23 NP LAB** 1102lab Mr Gaurav Sharma BATCH E2 **4AID2-01 DMS tut.** 1112tut Mr Pradeep Kumar	BATCH E2 **4AID4-24 LSP LAB** 1202lab Ms Reena Sharma	
Tues	BATCH E1 **4AID4-21 MPI LAB** 1109lab Ms Anjuli Dubey BATCH E2 **4AID4-22 DBMS LAB** 1207lab Ms Neetu		BATCH E1 **4AID2-01 DMS tut.** Mr Pradeep Kumar		**4AID4-05 DBMS** Ms Neetu	BATCH E1 **4AID4-25 JAVA LAB** 1209lab Ms Shilpa Kalra Sahani BATCH E2 **4AID4-21 MPI LAB** 1109lab Ms Anjuli Dubey	
Wed	BATCH E1 **4AID4-24 LSP LAB** 1202lab Ms Reena Sharma BATCH E2 **4AID4-25 JAVA LAB** 1209lab Ms Shilpa Kalra Sahani		**4AID4-07 DCCN** Mr Gaurav Sharma	LUNCH	**4AID4-06 TOC** Ms. Ritu Sharma	**4AID2-01 DMS** Mr Pradeep Kumar	**4AID3-04 MPI** Ms Anjuli Dubey
Thur	**4AID1-02 TC** Dr. Shalini Shah	**4AID4-07 DCCN** Mr Gaurav Sharma	**4AID4-05 DBMS** Ms Neetu		**4AID2-01 DMS** Mr Pradeep Kumar	**4AID3-04 MPI** Ms Anjuli Dubey	**4AID4-06 TOC** Ms. Ritu Sharma
Fri	**4AID3-04 MPI** Ms Anjuli Dubey	**4AID4-06 TOC** Ms. Ritu Sharma	**4AID2-01 DMS** Mr Pradeep Kumar		**4AID4-05 DBMS** Ms Neetu	**4AID4-07 DCCN** Mr Gaurav Sharma	**4AID1-02 TC** Dr. Shalini Shah
Sa							

Time Table Coordinators: Dr.Abhishek Sharma & Ms. Harshita Virwani, HoD, Dy.HoD
Vice Principal, PCE, Director, PCE

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF ADVANCE COMPUTING
IV-F(CCS)

Class Location: 1204
WEF: 19.02.2024
Tutor Name:Ms. Anjuli Dubey

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:20	4 12:20 - 13:20	5 13:20 - 14:20	6 14:20 - 15:20
Mon	BATCH F1 **4CCS4-21 MPI LAB** 1109lab Ms Anjuli Dubey BATCH F2 **4CCS4-24 LSP LAB** 1202lab Mr Shubham Patel		**4CCS4-06 TOC** Mr Saransh Sharma		BATCH F1 **4CCS4-22 DBMS LAB** 1209lab Mr Shirish Mohan Dubey BATCH F2 **4CCS4-23 NP LAB** 1108lab Ms Sonam Gour		
Tues	**4CCS4-07 DCCN** Ms Sonam Gour	BATCH F1 **4CCS4-24 LSP LAB** 1202lab Mr Shubham Patel BATCH F2 **4CCS4-25 JAVA LAB** 1107lab Dr Keshav Dev Gupta			BATCH F1 **4CCS4-25 JAVA LAB** 1201lab Dr Keshav Dev Gupta BATCH F2 **4CCS4-22 DBMS LAB** 1210Clab Mr Shirish Mohan Dubey	BATCH F1 **4CCS2-01 DMS tut.** 1113tut Mr Pradeep Kumar	
Wed	**4CCS4-05 DBMS** Mr Shirish Mohan Dubey	**4CCS4-07 DCCN** Ms Sonam Gour	**4CCS2-01 DMS** Mr Pradeep Kumar	LUNCH	**4CCS1-02 TC** Dr. Shalini Shah	**4CCS3-04 MPI** Ms Anjuli Dubey	**4CCS4-06 TOC** Mr Saransh Sharma
Thur	BATCH F1 **4CCS4-23 NP LAB** 1108lab Ms Sonam Gour BATCH F2 **4CCS2-01 DMS tut.** Mr Pradeep Kumar	BATCH F2 **4CCS4-21 MPI LAB** 1109lab Ms Anjuli Dubey			**4CCS3-04 MPI** Ms Anjuli Dubey	**4CCS4-05 DBMS** Mr Shirish Mohan Dubey	**4CCS1-02 TC** Dr. Shalini Shah
Fri	**4CCS2-01 DMS** Mr Pradeep Kumar	**4CCS4-05 DBMS** Mr Shirish Mohan Dubey	**4CCS3-04 MPI** Ms Anjuli Dubey		**4CCS4-07 DCCN** Ms Sonam Gour	**4CCS2-01 DMS** Mr Pradeep Kumar	**4CCS4-06 TOC** Mr Saransh Sharma
Sa							

Time Table Coordinators: Dr.Abhishek Sharma & Ms. Harshita Virwani, HoD, Dy.HoD
Vice Principal, PCE, Director, PCE

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER ENGINEERING
VI-A

Class Location: 1205
WEF: 19.02.2024
Tutor Name:Ms. Sonam Gaur

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:20	4 12:20 - 13:20	5 13:20 - 14:20	6 14:20 - 15:20
Mon	**6CS4-02 ML** Dr Neha Mahala	**6CS4-05 AI** Ms Harshita Virwani	**6CS3-01 DIP** Ms Sonam Gour		**6CS4-04 CAO** Mr Shubham Patel	**6CS4-02 ML** Dr Neha Mahala	**6CS4-03 ISS** Mr Rohit Singh Rajput
Tues	**6CS4-03 ISS** Mr Rohit Singh Rajput	**6CS4-06 CC** Ms Barkha Narang	**6CS3-01 DIP** Ms Sonam Gour		**Dept. Elective** Mr Shubham Patel / Prof Saurabh Sandilya / Mr Rohit Singh Rajput	**6CS4-05 AI** Ms Harshita Virwani	**6CS4-02 ML** Dr Neha Mahala
Wed	BATCH A1 **6CS4-24 MAD LAB** 2209Flab Dr Abhishek Sharma BATCH A2 **6CS4-22 ML LAB** 2209Dlab Dr Neha Mahala			LUNCH	BATCH A1 **6CS4-22 ML LAB** 2209Dlab Dr Neha Mahala BATCH A2 **6CS4-21 DIP LAB** 2209Alab Ms Sonam Gour		
Thur	**6CS4-04 CAO** Mr Shubham Patel	**6CS4-06 CC** Ms Barkha Narang	**6CS4-05 AI** Ms Harshita Virwani		**6CS4-06 CC** Ms Barkha Narang	**Dept. Elective** Mr Shubham Patel / Prof Saurabh Sandilya / Mr Rohit Singh Rajput	**6CS4-04 CAO** Mr Shubham Patel
Fri	BATCH A1 **6CS4-21 DIP LAB** 2209Alab Ms Sonam Gour BATCH A2 **6CS4-24 MAD LAB** 2209Flab Dr Abhishek Sharma				BATCH A1 **6CS4-23 PYTHON LAB** 1208lab Prof. Nikita Jain BATCH A2 **6CS4-23 PYTHON LAB** 1209lab Mr Devendra Nath Pathak		
Sa							

Time Table Coordinators: Dr.Abhishek Sharma & Ms. Harshita Virwani, HoD, Dy.HoD
Vice Principal, PCE, Director, PCE

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER ENGINEERING
VI-B

Class Location: 2203
WEF: 19.02.2024
Tutor Name:Ms. Geeta Tiwari

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:20	4 12:20 - 13:20	5 13:20 - 14:20	6 14:20 - 15:20
Mon	**6CS4-06 CC** Ms Shilpa Kalra Sahani	**6CS4-03 ISS** Mr Rohit Singh Rajput	**6CS4-04 CAO** Ms. Ritu Sharma	LUNCH	BATCH B1 **6CS4-24 MAD LAB** 2209Elab — Ms Amritpal Kaur BATCH B2 **6CS4-21 DIP LAB** 2209Alab — Ms Geeta Tiwari		
Tues	**6CS4-06 CC** Ms Shilpa Kalra Sahani	**6CS4-05 AI** Ms Amritpal Kaur	**6CS4-02 ML** Mr Devendra Nath Pathak		1205 **Dept. Elective** Mr Shubham Patel / Prof Saurabh Sandilya / Mr Rohit Singh Rajput	**6CS4-05 AI** Ms Amritpal Kaur	**6CS3-01 DIP** Ms Geeta Tiwari
Wed	BATCH B1 **6CS4-21 DIP LAB** 2209Alab — Ms Geeta Tiwari BATCH B2 **6CS4-22 ML LAB** 1102lab — Mr Devendra Nath Pathak				**6CS3-01 DIP** Ms Geeta Tiwari	**6CS4-02 ML** Mr Devendra Nath Pathak	**6CS4-04 CAO** Ms. Ritu Sharma
Thur	BATCH B1 **6CS4-22 ML LAB** 2209Dlab — Mr Devendra Nath Pathak BATCH B2 **6CS4-23 PYTHON LAB** 2209Alab — Ms Chitra Thinger				**6CS4-05 AI** Ms Amritpal Kaur	1205 **Dept. Elective** Mr Shubham Patel / Prof Saurabh Sandilya / Mr Rohit Singh Rajput	**6CS4-02 ML** Mr Devendra Nath Pathak
Fri	BATCH B1 **6CS4-23 PYTHON LAB** 1209lab — Ms Chitra Thinger BATCH B2 **6CS4-24 MAD LAB** 2209Elab — Ms Amritpal Kaur				**6CS4-06 CC** Ms Shilpa Kalra Sahani	**6CS4-03 ISS** Mr Rohit Singh Rajput	**6CS4-04 CAO** Ms. Ritu Sharma
Sa							

Time Table Coordinators: Dr.Abhishek Sharma & Ms. Harshita Virwani, HoD, Dy.HoD
Vice Principal, PCE, Director, PCE

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER ENGINEERING
VI-C

Class Location: 2204
WEF: 19.02.2024
Tutor Name:Mr. Shrish Mohan Dubey

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:20	4 12:20 - 13:20	5 13:20 - 14:20	6 14:20 - 15:20
Mon	**6CS4-03 ISS** Prof. Nikita Jain	**6CS4-05 AI** Ms Amritpal Kaur	**6CS4-06 CC** Mr Manish Dubey		**6CS4-02 ML** Ms Appoorva Bansal	**6CS3-01 DIP** Ms Archana Soni	**6CS4-04 CAO** Mr Shubham Patel
Tues	**6CS4-04 CAO** Mr Shubham Patel	**6CS4-03 ISS** Prof. Nikita Jain	**6CS4-02 ML** Ms Appoorva Bansal		1205 **Dept. Elective** Mr Shubham Patel / Prof Saurabh Sandilya / Mr Rohit Singh Rajput	**6CS3-01 DIP** Ms Archana Soni	**6CS4-05 AI** Ms Amritpal Kaur
Wed	**6CS4-05 AI** Ms Amritpal Kaur	**6CS4-06 CC** Mr Manish Dubey	**6CS4-04 CAO** Mr Shubham Patel	LUNCH	BATCH C1 **6CS4-22 ML LAB** 1108lab — Ms Appoorva Bansal BATCH C2 **6CS4-23 PYTHON LAB** 1208lab — Mr Shirish Mohan Dubey		
Thur	BATCH C1 **6CS4-24 MAD LAB** 2209Flab — Ms Amritpal Kaur BATCH C2 **6CS4-21 DIP LAB** 2209Elab — Ms Archana Soni				**6CS4-06 CC** Mr Manish Dubey	1205 **Dept. Elective** Mr Shubham Patel / Prof Saurabh Sandilya / Mr Rohit Singh Rajput	**6CS4-02 ML** Ms Appoorva Bansal
Fri	BATCH C1 **6CS4-21 DIP LAB** 1201lab — Ms Archana Soni BATCH C2 **6CS4-22 ML LAB** 2209Dlab — Ms Appoorva Bansal				BATCH C1 **6CS4-23 PYTHON LAB** 2209Alab — Mr Shirish Mohan Dubey BATCH C2 **6CS4-24 MAD LAB** 2209Elab — Ms Amritpal Kaur		
Sa							

Time Table Coordinators: Dr.Abhishek Sharma & Ms. Harshita Virwani, HoD, Dy.HoD
Vice Principal, PCE, Director, PCE

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

Class Location: 2207
WEF: 19.02.2024
Tutor Name:Ms. Reena Sharma

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:20	4 12:20 - 13:20	5 13:20 - 14:20	6 14:20 - 15:20
Mon	**6CAI4-02 ML** Ms Reena Sharma	**6CAI4-05 AI** Dr Kamlesh Gautam	**6CAI4-06 CC** Ms Shilpa Kalra Sahani	LUNCH	**6CAI4-02 ML** Ms Reena Sharma	**6CAI3-01 DIP** Ms Neetu	**6CAI4-03 ISS** Ms. Archana Bhardwaj
Tues	BATCH D1 **6CAI4-22 ML LAB** 1102lab Ms Reena Sharma BATCH D2 **6CAI4-24 MAD LAB** 2209Flab Prof Saurabh Sandilya				**Dept. Elective** Ms Reena Sharma / Ms Appoorva Bansal	**6CAI4-05 AI** Dr Kamlesh Gautam	**6CAI4-04 CAO** Mr Saransh Sharma
Wed	BATCH D1 **6CAI4-23 PYTHON LAB** 1207lab Dr Keshav Dev Gupta BATCH D2 **6CAI4-21 DIP LAB** 1201lab Ms Neetu				BATCH D1 **6CAI4-21 DIP LAB** 1201lab Ms Neetu BATCH D2 **6CAI4-22 ML LAB** 1102lab Ms Reena Sharma		
Thur	**6CAI4-03 ISS** Ms. Archana Bhardwaj	**6CAI3-01 DIP** Ms Neetu	**Dept. Elective** Ms Reena Sharma / Ms Appoorva Bansal		**6CAI4-06 CC** Ms Shilpa Kalra Sahani	**6CAI4-02 ML** Ms Reena Sharma	**6CAI4-04 CAO** Mr Saransh Sharma
Fri	BATCH D1 **6CAI4-24 MAD LAB** 1102lab Prof Saurabh Sandilya BATCH D2 **6CAI4-23 PYTHON LAB** 1101Alab Dr Keshav Dev Gupta				**6CAI4-04 CAO** Mr Saransh Sharma	**6CAI4-06 CC** Ms Shilpa Kalra Sahani	**6CAI4-05 AI** Dr Kamlesh Gautam
Sa							

Time Table Coordinators: Dr.Abhishek Sharma & Ms. Harshita Virwani, HoD, Dy.HoD
Vice Principal, PCE, Director, PCE

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF ADVANCE COMPUTING
VI-E (AID)

Class Location: 2103
WEF: 19.02.2024
Tutor Name:Mr. Gaurav Sharma

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:20	4 12:20 - 13:20	5 13:20 - 14:20	6 14:20 - 15:20
Mon	**6AID4-02 ML** Ms. Archana Bhardwaj	**6AID4-03 ISS** Ms Archana Soni	**6AID3-01 DIP** Ms Geeta Tiwari	LUNCH	**6AID4-05 AI** Dr Kamlesh Gautam	**6AID4-06 CC** Ms Barkha Narang	**6AID4-04 CAO** Ms. Ritu Sharma
Tues	BATCH E1 **6AID4-24 MAD LAB** 2209Elab Mr Gaurav Sharma BATCH E2 **6AID4-23 PYTHON LAB** 1209lab Mr Saransh Sharma				2207 **Dept. Elective** Ms Reena Sharma / Ms Appoorva Bansal	**6AID3-01 DIP** Ms Geeta Tiwari	**6AID4-04 CAO** Ms. Ritu Sharma
Wed	**6AID4-02 ML** Ms. Archana Bhardwaj	**6AID4-05 AI** Dr Kamlesh Gautam	**6AID4-03 ISS** Ms Archana Soni		BATCH E1 **6AID4-23 PYTHON LAB** 1210Clab Mr Shubham Patel BATCH E2 **6AID4-24 MAD LAB** 1209lab Mr Gaurav Sharma		
Thur	**6AID4-06 CC** Ms Barkha Narang	**6AID4-05 AI** Dr Kamlesh Gautam	2207 **Dept. Elective** Ms Reena Sharma / Ms Appoorva Bansal		BATCH E1 **6AID4-21 DIP LAB** 2209Alab Ms Geeta Tiwari BATCH E2 **6AID4-22 ML LAB** 2209Dlab Ms. Archana Bhardwaj		
Fri	**6AID4-04 CAO** Ms. Ritu Sharma	**6AID4-06 CC** Ms Barkha Narang	**6AID4-02 ML** Ms. Archana Bhardwaj		BATCH E1 **6AID4-22 ML LAB** 2209Dlab Ms. Archana Bhardwaj BATCH E2 **6AID4-21 DIP LAB** 1207lab Ms Geeta Tiwari		
Sa							

Time Table Coordinators: Dr.Abhishek Sharma & Ms. Harshita Virwani, HoD, Dy.HoD
Vice Principal, PCE, Director, PCE

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF ADVANCE COMPUTING
VI-F (CCS)

Class Location: 2208
WEF: 19.02.2024
Tutor Name:Ms. Archana Soni

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:20	4 12:20 - 13:20	5 13:20 - 14:20	6 14:20 - 15:20
Mon	**6CCS4-06 BCCS** Mr Shirish Mohan Dubey	Group 1 **6CCS5-13 EHDF** Mr Manish Dubey Group 2 **6CCS5-11 CF** 1113tut Dr Abhishek Sharma	**6CCS4-02 ML** Dr Kamlesh Gautam	LUNCH	**6CCS4-04 CAO** Mr Saransh Sharma	**6CCS4-03 ISS** Ms. Ritu Sharma	**6CCS3-01 DIP** Ms Archana Soni
Tues	BATCH F1 **6CCS4-22 ML LAB** 2209Dlab Dr Kamlesh Gautam BATCH F2 **6CCS4-21 DIP LAB** 2209Alab Ms Archana Soni				**6CCS4-03 ISS** Ms. Ritu Sharma	**6CCS4-04 CAO** Mr Saransh Sharma	**6CCS4-05 AI** Ms Neha Shrotriya
Wed	BATCH F1 **6CCS4-24 MAD LAB** 2209Elab Ms Appoorva Bansal BATCH F2 **6CCS4-23 PYTHON LAB** 1210Clab Ms Barkha Narang				BATCH F1 **6CCS4-21 DIP LAB** 2209Elab Ms Archana Soni BATCH F2 **6CCS4-22 ML LAB** 2209Flab Dr Kamlesh Gautam		
Thur	**6CCS4-05 AI** Ms Neha Shrotriya	Group 1 **6CCS5-13 EHDF** Mr Manish Dubey Group 2 **6CCS5-11 CF** 2307 Dr Abhishek Sharma	**6CCS4-02 ML** Dr Kamlesh Gautam		**6CCS4-04 CAO** Mr Saransh Sharma	**6CCS3-01 DIP** Ms Archana Soni	**6CCS4-06 BCCS** Mr Shirish Mohan Dubey
Fri	**6CCS4-05 AI** Ms Neha Shrotriya	**6CCS4-02 ML** Dr Kamlesh Gautam	**6CCS4-06 BCCS** Mr Shirish Mohan Dubey		BATCH F1 **6CCS4-23 PYTHON LAB** 1210Clab Ms Barkha Narang BATCH F2 **6CCS4-24 MAD LAB** 2209Flab Ms Appoorva Bansal		
Sa							

Time Table Coordinators: Dr.Abhishek Sharma & Ms. Harshita Virwani, HoD, Dy.HoD
Vice Principal, PCE, Director, PCE

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER ENGINEERING
VIII

Class Location: 1103
WEF: 19.02.2024
Tutor Name:Mr. Rohit Singh Rajput,
Ms. Barkha Narang, Ms. Neha Shrotriya

	1 8:30 - 9:30	2 9:30 - 10:30	3 10:30 - 11:30	LUNCH 11:30 - 12:20	4 12:20 - 13:20	5 13:20 - 14:20	6 14:20 - 15:20
Mon	**Open Elective - II** Ms Chitra Thinger	Group 1 **8CS7-50 PROJECT** 1203 P lab Ms. Archana Bhardwaj Group 2 **8CS4-21 BDA LAB** 1108lab Ms Neha Shrotriya		LUNCH	Group 1 **8CS4-21 BDA LAB** 1104 Ms Neha Shrotriya Group 2 **8CS7-50 PROJECT** 1203 P lab Ms. Archana Bhardwaj		**8CS4-01 BDA** Ms Barkha Narang
Tues	**Open Elective - II** Ms Chitra Thinger	Group 1 **8CS4-21 BDA LAB** 1108lab Ms Neha Shrotriya Group 2 **8CS4-22 STV LAB** Mr Rohit Singh Rajput			**8CS4-01 BDA** Ms Barkha Narang	Group 1 **8CS4-22 STV LAB** 1207lab Mr Rohit Singh Rajput Group 2 **8CS7-50 PROJECT** 1203 P lab Ms. Archana Bhardwaj	
Wed	**Open Elective - II** Ms Chitra Thinger	Group 1 **8CS4-22 STV LAB** 1107lab Mr Rohit Singh Rajput Group 2 **8CS4-21 BDA LAB** 1108lab Ms Neha Shrotriya			**8CS4-01 BDA** Ms Barkha Narang	Group 1 **8CS7-50 PROJECT** 1203 P lab Ms. Archana Bhardwaj Group 2 **8CS4-22 STV LAB** 1202lab Mr Rohit Singh Rajput	
Thur							
Fri							
Sa							

Time Table Coordinators: Dr.Abhishek Sharma & Ms. Harshita Virwani, HoD, Dy.HoD
Vice Principal, PCE, Director, PCE

9 Course Outcome Attainment Process:

9.1 Course Outcome Attainment Process

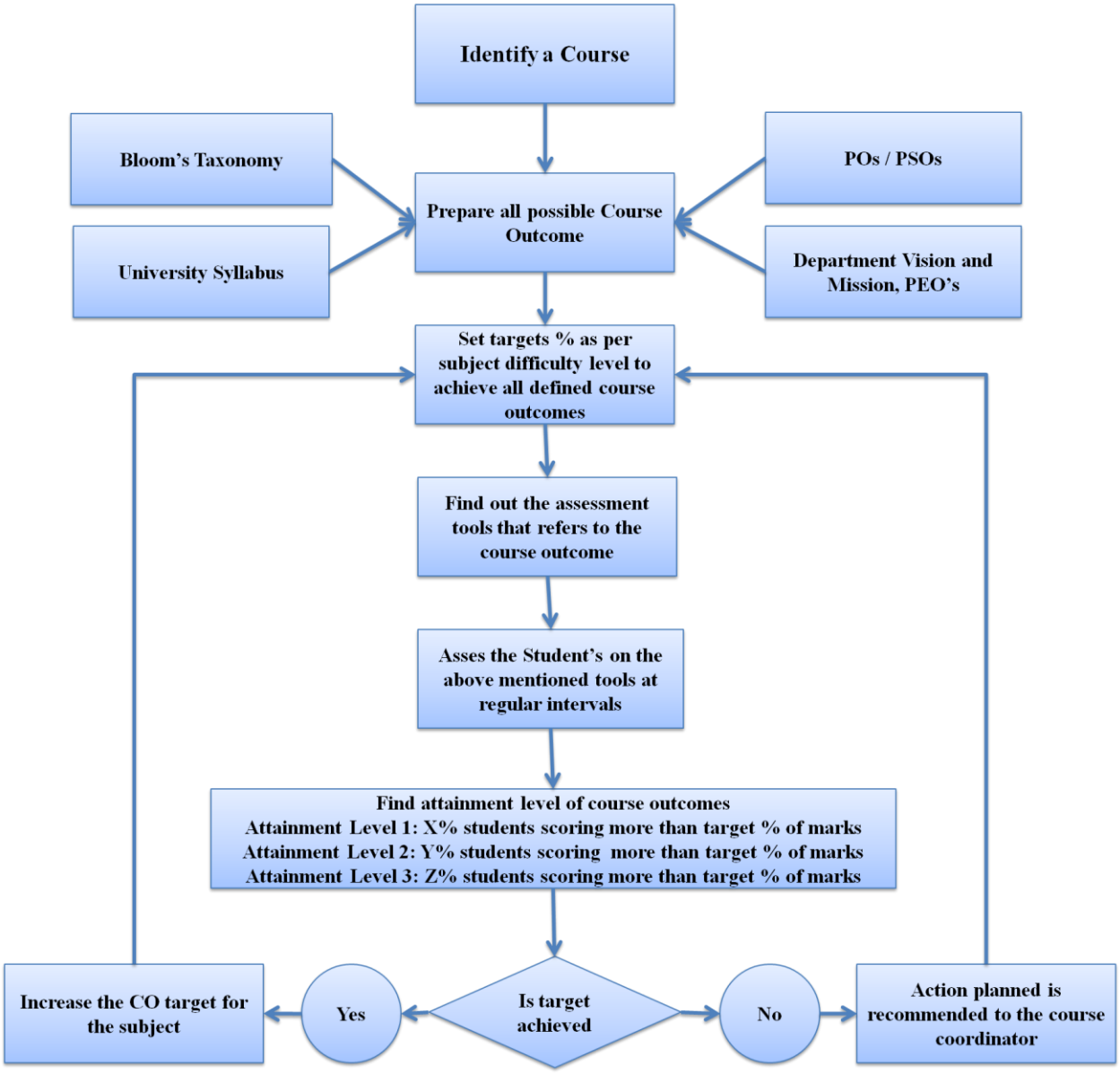


Figure. Course Outcome Attainment Process

9.2 List of CO & CO mapping with PO

Department of Computer Engineering

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	1FY2-03	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	1FY1-04	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	1FY3-07	Basic Mechanical Engineering	CO 1	Students will be able to retrieve basic concepts of thermal and manufacturi	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-

				ng process.															
			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	1FY3-08	Basic Electrical Engineering	CO 1	Identify basic components of electrical engineering and connect them to form different circuits to verify basic laws.Understanding	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			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	1FY2-21	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	-	-	-	-	-	-	**2**	-	-	-	-	-	-	-	-

				enviornmental problems														
			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	-	-	-	-	-	-	-	**2**	**3**	-	-	-	-	-	-

				member ethically														
					1.5	**2**	**-**	**-**	**-**	**-**	**-**	**2**	**3**	**-**	**-**	**-**	**1**	**-**	**-**
9	1FY3-26	Basic Electrical Engineering Lab	CO 1	Discuss measurement of electrical quantites	**1**	-	-	-	-	-	-	-	-	-	-	-	**1**	**2**	-
			CO 2	Compare different connections of transformer	**2**	-	-	-	-	-	-	-	-	-	-	-	**1**	**2**	-
			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	1FY3-28	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	3CS2-01	Advanced Engineering	CO 1	To Define probability models using probability	**1**	-	-	-	-	-	-	-	-	-	-	-	2	-	-

		Mathematics		mass (density) functions, need and classification of optimization terminology.															
			CO 2	To Explain the probability distributions of discrete and continuous random variables and work binomial, Poisson, uniform, exponential, normal distribution and their statistical measures.	**2**	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-
			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	3CS1-03	Managerial Economics and	CO 1	To Describe the fundamental concepts of Economics	-	-	-	-	-	1	-	-	-	2	3	1	-	-	-

		Financial Accounting		and Financial Management and define the meaning of national income, demand, supply, cost, market structure, and balance sheet.														
			CO 2	To Calculate the domestic product, national product and elasticity of price on demand and supply.	-	-	-	-	-	2	-	-	-	-	3	-	-	-	-
			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 Families and its realization.	-	-	-	2	-	-	-	-	-	-	-	-	-	**2**	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					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 programs.	-	-	3	-	-	-	-	-	-	-	-	-	-	2	-
			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 deletion operations on Linear and non linear data structures	-	-	-	-	-	-	2	-	-	-	-	2	-	2	-
			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	-	-	-	-	-	2	-	-	-	-	-	2	-	2	-

				programs														
			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 requirements specifications for a particular problem.	-	-	-	3	-	-	-	-	-	-	-	-	-	3	-
			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	**2**	-	-	-	-	-	-	-	-	-	-	-	**2**	-	-

				verifying the truth tables.															
			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 suitable solution.	-	-	-	-	-	-	-	-	-	-	-	**2**	-	-	**2**
			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	-	-	-	-	3	-	-	-	-	-	3	-	3	-	3

				with all the latest changes in 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**	**2.1 667**	**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	-	2	-	-	-	-	-	-	-	-	-	-	2	-	-

				techniques for efficient communication.														
			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 the code in I.C.G.	-	-	3	-	-	-	-	-	-	-	-	-	-	-	2
			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	3	-	-	-	-	-	-	-	-	-	-	-	3	-	2

				services including Memory, Device & File Management.														
			CO 2	To categorize the Process management in terms of inter process communication 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, branch and bound and pattern matching algorithm	-	-	3	-	-	-	-	-	-	-	-	-	2	-	-
			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	5CS5-11	Wireless Communication	CO 1	To Classify the challenges with transmission of signals in wireless communication 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 communication sytem.	-	-	3	-	-	-	-	-	-	-	-	-	-	2	-
			CO 4	To Distinguish digital signaling techniques for lossy channels.	-	-	-	2	-	-	-	-	-	-	-	-	2	-	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	**3**	**3**	**2**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2.5**	**2**	**-**
28	5CS5-12	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	-	-	-	-	-	3	3	3	3	3	3	3	3	2	3

				team working skill b. Improve communicati on skill c. Improve ethics (i.e. plagiarism, copy others results) d. Lifelong learning attitude														
					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 and converted into optimzed code	-	-	-	-	-	-	-	-	3	-	-	-	2	-	-
			LO 4	To demostrate hands on experience of working on system software.	-	-	-	-	-	3	-	-	-	-	-	-	-	3	-
			LO 5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					-	**-**	**-**	**-**	**3**	**3**	**-**	**-**	**3**	**-**	**-**	**-**	**2.3 333**	**3**	**-**

31	5CS4-23	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 shortest path to other vertices	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	**3**
			LO 6	Demonstrate minimum cost spanning tree of a given undirected graph using	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	**3**

				kruskal's algorithm														
					3	**-**	**2**	**3**	**2**	**-**	**-**	**-**	**-**	**-**	**-**	**2**	**3**	**2.6667**	**3**
32	5CS4-24	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	5CS7-30	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	-	-	-	-	-	-	-	-	3	-	-	-	2	2	3

				engineer with good technical knowledge, management, leadership and entrepreneurship skills.															
			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**
34	7CS4-01	Internet of Things	CO 1	To demostrate concepts IOT plateform and conectivity with devices like Ardinuo, Rasberry pi etc.	2	-	-	-	-	-	-	-	-	-	-	-	**2**	**-**	**-**
			CO 2	To Analyse IOT communication models like push-pull, publish & subscribe model.	-	2	-	-	-	-	-	-	-	-	-	-	**-**	**-**	**3**
			CO 3	To Design prototypes for Internet of Things in real time	-	-	3	-	-	-	-	-	-	-	-	-	**-**	**3**	**-**

				applications.															
			CO 4	To investigate solutions of complex problems using advance concepts of IOT & Big Data.	-	-	-	3	-	-	-	-	-	-	-	-	-	**2**	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	**2**	**3**	**3**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2**	**2.5**	**3**
35	7CS 6-60.1	Quality Management / ISO 9000 (Open Elective-1)	CO 1	To apply Quality Tools to monitor the overall operation and continuous process improvement.	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-
			CO 2	To Analyse systematic methods in identifying where and how it might fail and relative impacts of different failures	-	3	-	-	-	-	-	-	-	-	-	-	2	-	-
			CO 3	To formulate effectively customer requirements and convert them into detailed engineering	-	-	2	-	-	-	-	-	-	-	-	-	2	-	-
			CO 4	To Measure themselves against internal or external standards and to improve the capability of their business processes.	-	-	-	2	-	-	-	-	-	-	-	-	2	-	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					3	**3**	**2**	**2**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2**	**-**	**-**
36	7CS 6-	Cyber Security	CO 1	To Apply basic concepts	2	-	-	-	-	-	-	-	-	-	-	-	2	-	-

	60.2	(Open Elective-1)		of Cybercrime and legal Perspectives of Security Implications for Organizations in respect to the Mobile and Wireless Devices.														
			CO 2	To Analyze offences, attacks and Criminals plan for the cyber space.	-	3	-	-	-	-	-	-	-	-	-	-	-	2	-
			CO 3	To Compose the cyber security solutions and cyber security Tools in Cybercrime.	-	-	2	-	-	-	-	-	-	-	-	-	-	2	-
			CO 4	To Select the Management Perspective human role in security systems with an Organizational , emphasis on ethics, social engineering vulnerabilities and training.	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	**3**	**2**	**2**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2**	**2**	**2**
37	7CS 4-21	Internet of Things Lab	LO 1	to Define the various terminal commands used in developing IOT applications.	3	-	-	-	-	-	-	-	-	-	-	-	**2**	-	-
			LO 2	to develop the python scripts used in IOT applications.	-	3	-	-	-	-	-	-	-	-	-	-	-	-	**3**
			LO 3	to apply the logics of IOT for designing IOT applications	-	-	3	-	-	-	-	-	-	-	-	-	-	**3**	-

			LO 4	to make a project to solve real life socity based problem and demonstrate following PO related capabilities: a. Improve team working skill b. Improve communicatio n skill c. Improve ethics (i.e. plagiarism, copy others results) d. Lifelong learning attitude	-	-	3	-	3	3	3	3	3	3	3	3	3	2	3
			LO 5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					3	**3**	**3**	**-**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**2.5**	**2.5**	**3**
38	7CS 4-22	Cyber Security Lab	LO 1	to analyse the data transferred and protocol using different security-based tools like Wire shark, tcpdump, rootkits, snort etc.	-	3	-	-	-	-	-	-	-	-	-	-	3	-	2
			LO 2	to design the substitution and transposition techniques for plain text encryption and decryption.	-	-	3	-	-	-	-	-	-	-	-	-	2	-	3
			LO 3	to observe ARP Poisoning, encryption and decryption techniques for secure data transmission across network using	-	-	-	2	-	-	-	-	-	-	-	-	2	-	-

				snort and digital signatures															
			LO 4	to Install appropriate tools for network protocol analyze security-based tools like Wire shark, tcpdump etc.	-	-	-	-	3	-	-	-	-	-	-	-	3	-	2
			LO 5	to identify and describe a variety of ethical factors that may be relevant to understanding and assessing in cyber space.	-	-	-	-	-	-	-	3	-	-	-	-	2	3	-
			LO 6	To Improve team working skill for desiging a solution for Key Exchange problem and general attacks on system like Diffie-Hellman Key Exchange, Brute Force Attack etc	-	-	-	-	-	-	-	-	3	-	-	-	3	2	-
			LO 7	to implement a small project for Server-Client technology using a File Transfer Protocol mechanism and through socket programming and make report.	-	-	-	-	-	-	2	-	-	3	3	3	-	2	3
					-	**3**	**3**	**2**	**3**	**-**	**2**	**3**	**3**	**3**	**3**	**3**	**2.5**	**2.3333**	**2.5**
39	7CS7-30	Industrial Training	LO 1	Capability to acquire and apply fundamental	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-

				principles of engineering.															
			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 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**	**2.1 667**	**2**	**3**

40	7CS7-40	Seminar	CO 1	Establish motivation for any topic of interest and develop a thought process for technical seminar	-	-	3	-	-	-	-	-	-	-	-	2	2	-	-
			CO 2	Organize a detailed literature survey and build a document with respect to technical publications and effective presentation	-	-	-	3	-	-	-	-	-	3	-	-	-	3	-
			CO 3	Analysis and comprehension of proof-of-concept and related data to access social, health, legal and environment issues for sustainable development.	-	3	-	-	-	3	3	-	-	-	-	-	2	-	-
			CO 4	Develop strategies for identifying and dealing with typical ethical issues, both personal and organizational	-	-	-	-	-	-	-	3	2	-	-	-	3	3	-
			LO 5	Make use of new and recent technology including perdition and modeling to complex activities.	-	-	-	-	3	-	-	-	-	-	-	-	-	2	2
					-	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**2**	**3**	**-**	**2**	**2.3333**	**2.6667**	**2**

Course File Sample

Outcome Based ProcessImplementationGuidelinesforFaculty

9.3 Labellingyourcoursefile

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

9.4 List ofDocuments:

1. **Vision&MissionStatementsoftheInstitute**
2. **Vision&MissionStatementsoftheDepartment**
3. **List of PEO, PSOandPOofdepartment**
4. **PersonalTimeTable**
5. **RTU Syllabus**
6. **Documentasperpointno. 1-4 inguidelines**
7. **Course Plan**
8. **Document asperpointno6-12 inguidelines**
9. **Document forCOAssessmentStage1: Asperpointno13, upto13.2.5**
10. **Document forCOAssessmentStage2: Asperpointno13, upto13.2.5, with comparisontoprevious**
11. **Document forCOAssessmentStage3: Asperpointno13, upto13.2.5, with comparisontoprevious**
12. **DocumentforCOAttainmentthroughRTUComponent: PreviousRTUResult:pointno. 13.3 upto13.3.2**
13. **Document forPOattainmentthroughRTUComponent:PreviousRTUResult:poi ntno. 13.4 upto13.4.2**
14. **Document forOverallAttainmentofPOthroughCO:Asperpointno13.5**
15. **Document for last threeyears(Repeatprocessfrom6-14 above): Comparativedatashouldbeincludedincoursefile**
16. **LectureNotes**
17. **CopyofAssignmentsquestionsgivenfromtimetotime**
18. **CopyofTutorialSheetsgiven (if applicable)**
19. **RTUQuestionPaperswithanswer**
20. **InternalAssessmentQuestionPaperswithanswerfromtimetotime**
21. **Topicscoveredbeyond syllabus-References**
22. **Detailsofanyotheractivityanditsassessmentthroughrubricbe included**

23. Mappingdepartmentlevel/focus activitieswithyourCOs

10 Outcome BasedProcessImplementationGuidelinesforFaculty

CourseCO-PO,Preparation,AssessmentFormats

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

NameoftheFaculty:

Subject: **Subject Code:**

Thisdocumentismeantasguidelinesfor implementing Outcomebasededucationsystemasapartof NBAprocess.

1. **Vision&MissionofDepartment:StatementandMappingwith Institute Mission** **Hereyouhavetoincludedepartmentmission&visionstatementsandshowmappingofkeywordswithinstitutemission.**
2. **ProgramEducationalObjectives(PEOs): Statement andMappingwith Department Vision&Mission** **HereyouhavetoincludedepartmentPEOstatementsandshowmappingofkeywordswithdepartment vision&mission.**
3. **ProgramSpecificOutcome(PSOs): Statement andMappingwith Department Vision&Mission** **HereyouhavetoincludedepartmentPSOstatementsandshowmappingofkeywordswithdepartmentvision&mission.**
4. **ProgramOutcome(POs): Statement andMappingwithPEOandPSO** **HereyouhavetoincludePOstatementsandshowmappingofkeywordswithdepartmentPEOs &PSOs.**
5. **CoursePlan(Deployment):**

(Pleasewritehowyouintendto cover thecontents:i.e., coverageofUnitsbylectures, guest lectures, design exercises, solvingnumericalproblems, demonstration of models, model preparation, or byassignments, etc.), **for example**

- O**coverageofUnitsbylectures**
- 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:PrinciplesofOS, ByRameshSoni, TataMGHill, Edition 2019

6. **CourseOutcomes:**Lookforstrongmappingofcoursewithspecific PO(2-3).Define GenericCourseOutcomes(max4to6)usingBloomsTaxonomy.(IncaseofLabCoursedefinegen ericLabOutcomesLOand refer COasLOinthisdocument).

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

7. **CO-PO-PSO Mapping: Mapping Levels: 1- Low, 2- Moderate, 3-Strong**
   Firsttrytofindout2-3POthosearestronglyrelated toyoursubjectcontents.Gothroughthecontentsandtrytoformulate4-5CourseOutcomeasperbloom taxonomy.MapeachCOwithPOandPSOasabove.Whilemappingpleaserethinkifyoumapany PO with3,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: Writefullstatementwithkeywords highlighted oPO3: Writefullstatementwithkeywords highlighted oPO4: Writefullstatementwithkeywords highlighted

7.2 PO Moderately Mapped:(Example)
O PO1: Writefullstatementwithkeywords highlighted
O PO11: Writefullstatementwithkeywordshighlighted
7.3POLowMapped:(Example)
OPO12: Writefullstatementwithkeywordshighlighted

7.4 PSOStronglyMapped:(Example)
OPSO1 :Writefullstatementwithkeywordshighlighted

7.5 P S O ModeratelyMapped:(Example)
O PSO2: Writefullstatementwithkeywordshighlighted

6.6 PSOLowMapped:(Example)
OPSO3: Writefullstatementwithkeywordshighlighted

8. **RulesforCO/LOAttainmentLevels:(Targets)**

Allthecoursesofyourdepartmentshouldbedividedintothreecategories A-MostDifficultcourse, B-MediumlevelofDifficulty, C-LowlevelofDifficulty–(Easy)
Accordingtodifficultylevel,youcandecidespecificrangeforCOattainmenttargetsfor Continuousassessmentfromthefollowing table.
Rememberthattargetsforinternalassessmentshouldbehigher.

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

AllthecoursesofyourdepartmentshouldbedividedintothreecategoriesA-Most Difficult course, B-MediumlevelofDifficulty, C-LowlevelofDifficulty–(Easy)
According to difficultylevelandtheresultsofpast 3-5 years, youcandecidespecific range forCOattainmenttargetsforRTUcomponentfromthefollowing 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**

ForthespecificCO/LOattainmentlevelsofyour respectivecoursepleaseusetheabovetablesasreferenceaccordingyoursubjectdifficulty 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 (asMentionedinSessionPlan):
YoucanplanforeachCO,activities/assessment toolstobeconducted/usedfor its achievement.
UseXtothoseyouselectforspecificCO.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,determinetargetsforeachCOasaverageoftargetsof 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 wiseAssessmentTools:

Thisgivesyougeneralizedviewofdifferentdirectandindirecttoolsthosecanbeusedforassessmen t /achievementofCO/PO.(DecidewhichtoolsarerequiredforassessingaparticularCO/LOandinreferencetoCourseA, B, Cdifficultylevel).

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.					
Notethatfor every rubricsyouneedtodecideassessmentcriteria,rangeofmarks orweightage–abovevaluesareindicative					

13. COAssessmentProcess:

Aftereveryactivity(Ideallyasperabovetable): (FrequencyofAssessment-Canbetakenasmonthly).

Sotheassessmentcanbeforallactivitiesheldduringthemonth.Dothefollowing.

13.1 AttainmentofCOs

13.1.1 AttainmentTableforCO1: 3CSA101.1

CO1:3CSA101.1: Attainment Table(Columns) AsApplicableCOwise-Monthly									
Student	**PreMidITest 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 forallotherCOs, (CO2– CO5))

13.1.2CO-GapIdentifications

COs	CO1	CO2	CO3	CO4	CO5
Target					
Achieved					
Gap					

13.1.3 GapsIdentified:

Describewhatthe reasons for gaps are

i.

ii.

OverallCOAttainmentTable: Example

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

13.1.4: Activities Decidedtobridgethegap

Pleasedoanalyzewhetheryoucouldgetimprovementthroughactivitiesdecidedandconducted forimprovements.Reasonshouldbenotedwhy /howitisimprovedornot.

13.2 AttainmentofPOs&PSO:

13.2.1 Target-ExpectedAttainmentofPObyattainmentofCO- Put allmappingsof 3, 2 and1.BasedonCO-POmapping,determinetargetsforeachPOasaverageof targets ofallrelevantCOs.

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

13.2.2 AttainmentofPOs&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
3CSA101.1															
3CSA101.2															
3CSA101.3															
3CSA101.4															
3CSA101.5															
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:

Describewhatthe reasons for gap (for PO) are.

i.
ii.

13.2.5 Activities Decidedtobridgethegap

Pleasedoanalyzewhetheryoucouldgetimprovementthroughactivitiesdecidedandconductedforimprovements.Reasonshouldbenotedwhy /howitisimprovedornot.

Repeat wholeprocessafteronemonth,Twomonths,andthreemonths. Plotbar chart forimprovementin CO,PO&PSO. (Everymonth)

13.3 AttainmentofCOthroughRTUExam:

Thismay be possible for previoussemesterresultssooverallattainment. Iffacultyischanged, datawillbeevaluatedbyconcernedfacultywhotaughtandhandedovertocurrent faculty.Iffacultynot available, thencurrent faculty willdothesame.

AttainmentofCO: 3CSA101:Subject:			
Student	**RTUMarks (80)**	**%0f Marks**	**LevelofAttainment**
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 AttainmentofCOthroughRTUComponent:

CO: Course Code: CourseName					
Target					
Achieved					
Gap					

13.3.1 GapsforCOattainmentthroughRTUComponent:

AnalyzeRTUQuestionpaperwithrespecttoCOsformulated,contentsdeliveredandstudentsexamined,findoutreasonsforgaps

i.
ii.

13.3.2 Actiontobetaken:

Preparerecommendationsforimprovementinplanning& teaching forgapsidentified.

13.4 AttainmentofPOthroughCO(RTU) Component

Put RTUResultsaspertargetachievedonlyandmappinglevel, infollowing table

AttainmentofPOthroughCO(RTU) Component															
CO	**PO**												**PSO**		
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
3CSA101															

AttainmentofPOthroughCO(RTU) Component															
3CSA101	**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,findoutreasonsforgaps

Describewhatarethereasonsforgapi.

ii.

13.4.2 Actiontobetaken:

Preparerecommendationsforimprovementinplanning& teaching forgapsidentified.

13.5 OverallAttainmentofPO&PSO: ThroughContinuous Assessment &RTU

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

1. **InternalAssessment– Totalweightage-40%**
2. **RTUComponent------- Weightage– 60 %**

Put allattainmentsinthefollowingtableandcompute.

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 Mark s (80)**	**%0f Marks**	**60% Weightage X----- /100 A**	**Over all CO (-----)**	**%0f Marks**	**Weightage X-- /100 B**	**Overall CO (-----)**	**%0f Marks**	**Weightage X-- /100 C**	**Overal l CO (-----)**	**%0f Mark s**	**Weightage X--/100 D**	**Total (A+B+C+ D)**	**Level of Attainmen t**
Name1														**3**
Name2														**2**
Name3														**1**
Name4														**2**
Name5														**1**
Name6														**2**
----														**--**
------														**--**

No.ofStudentsattainedlevel3= StudentsAttainedLevel3=	**%of**
No.ofStudentsattainedlevel2= StudentsAttainedLevel2=	**% of**
No.ofStudentsattainedlevel1= StudentsAttainedLevel1=	**% of**
POAttainment= ?(Check Level3%attainment-IfNoFindGap)	
MarkXforabsent-Takeavg.ofallpresent	

13.5.3: OverallPO&PSOAttainmentthroughCourse:
Put OverallPO&PSOattainmentaspermapping 3,2,1above:

AttainmentofOverall POforSession2018-2019															
CO	**PO**												**PSO**		
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
3CSA101															
PO Attainment															

13.5.4: OverallGapsforAttainmentofPOandPSOfromtheCourse
Put OverallPO&PSOtargets&attainmentaspermapping 3,2,1above:

Attainment &GapofOverallPOSession----------															
3CSA101	**PO**												**PSO**		
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
Targets															
Achieved															
Gap															

13.5.5. OverallGapsforCoursetaught:
Gothroughallgapsidentifiedaboveandsummarize.Describewhatthe reasons are.
i.
ii.

13.5.6 Actiontobetaken:
Preparerecommendationsforimprovementinplanning&teaching(Internal&RTU)for gapsidentified.DecideActivitiestobeconductedtobridgethegapsinCOs.

Repeat wholeprocessafterOneyearbefore, Twoyearbefore, andthreeyearbefore. PlotbarchartsforContinuousimprovementscheckin CO, PO&PSO.(EveryYear).

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

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**

_____

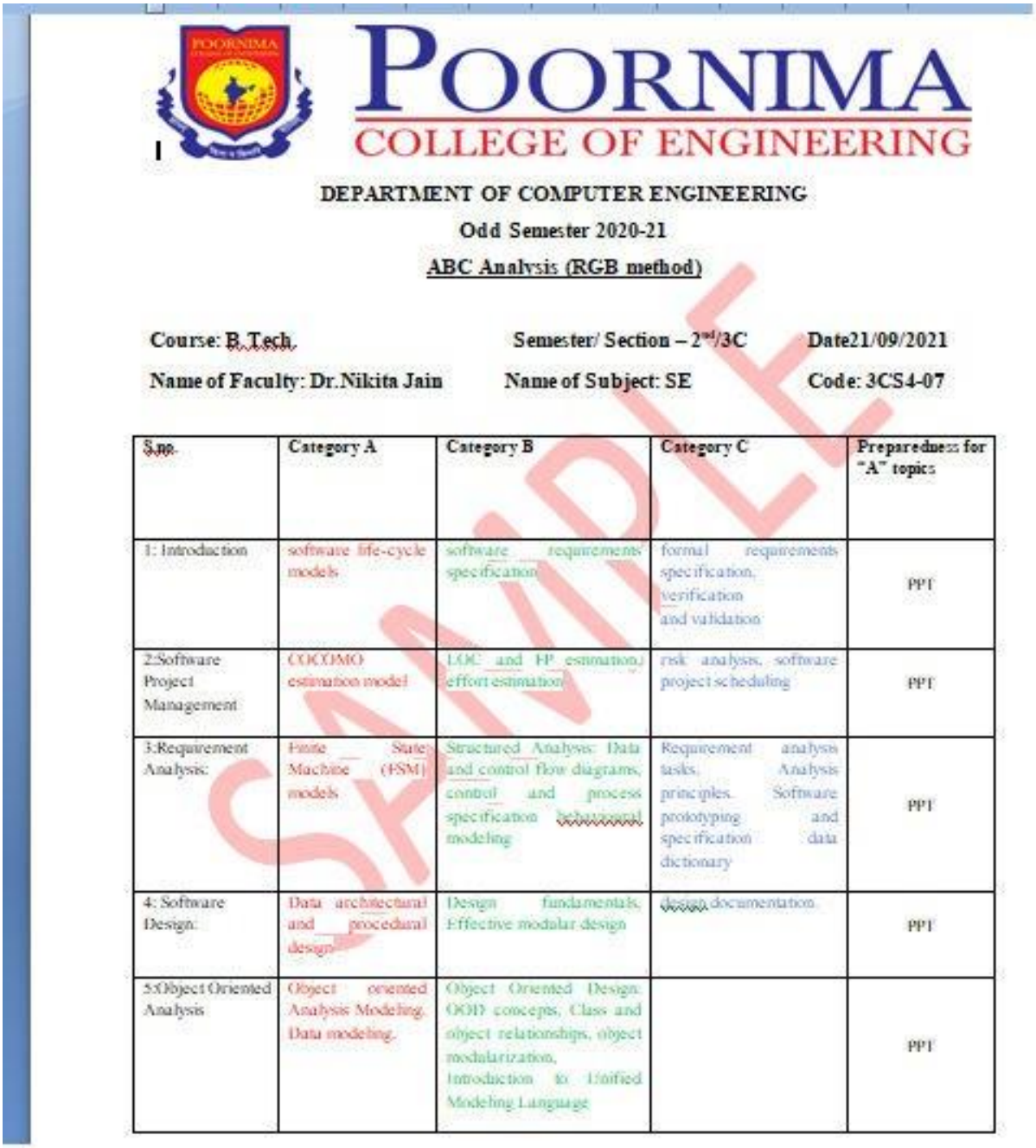
SESSION: 20__-__

NAME OF FACULTY: _____

DEPARTMENT: _____

CAMPUS: _____

14.2 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

14.3 Blown-up Format

POORNIMA
COLLEGE OF ENGINEERING

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

14.4 Deployment Format

POORNIMA
COLLEGE OF ENGINEERING
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	
2	***Introduction to Unit :1*** **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**						

14.5 Zero Lecture Format

POORNIMA
COLLEGE OF ENGINEERING

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

14.6 Lecture Note Front page Format

POORNIMA
COLLEGE OF ENGINEERING

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:

14.7.75 Detailed Lecture Note Format-1

POORNIMA
COLLEGE OF ENGINEERING

DETAILED LECTURE NOTES

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

14.7.97 Detailed Lecture Note Format-2

POORNIMA
COLLEGE OF ENGINEERING
DETAILED LECTURE NOTES

PAGE NO. .....

14.8 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

14.9 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			

14.10 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				

14.11 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**

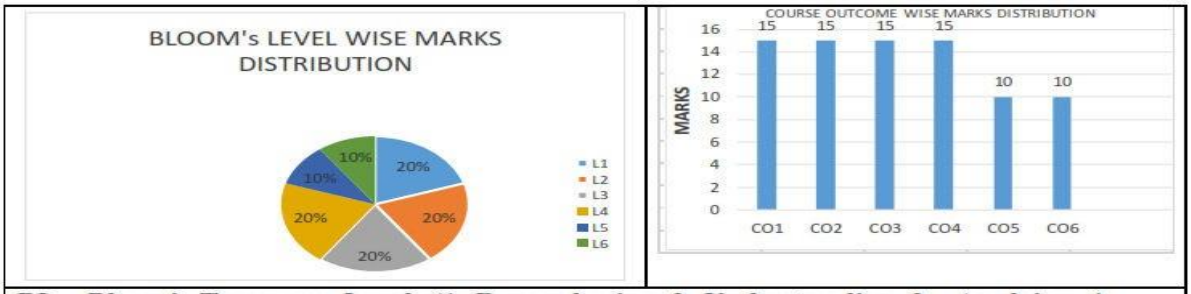
NOTE:- Read the guidelines given with each part carefully.

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

15. 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		