

Programme and course outcomes for all Programmes offered by our institute are stated and displayed on website and communicated to teachers and students.

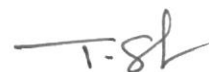
PSO 1: An ability to formulate and analyse a problem, and define the computing requirements to its solution using basic principles of mathematics, science and computer engineering and ability to design, implement, and evaluate a computer based system, process, component, or software to meet the desired needs.

PSO 2: An ability to design and conduct research based experiments, perform analysis and interpretation of data and provide valid conclusions and ability to use current techniques, skills, and tools necessary for computing practice, and understanding and commitment towards the professional and ethical responsibilities of an engineer

Program Outcomes as defined by NBA (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.



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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.

Establish the correlation between the courses and the Program Outcomes (POs) and Program Specific Outcomes (25 M)

Course Outcomes:

II YEAR-I SEM: A.Y- 2019-20

S. No	Subject	Course Outcomes
1	DATA STRUCTURES THROUGH C++ (C215)	C215.1: Distinguish between procedures and object oriented programming.
		C215.2: Apply advanced data structure strategies for exploring complex data structures.

		<p>C215.3: Compare and contrast various data structures and design techniques in the area of Performance.</p>
		<p>C215.4: Implement data structure algorithms through C++. • Incorporate data structures into the applications such as binary search trees, AVL and B Trees</p>
		<p>C215.5: Implement all data structures like stacks, queues, trees, lists and graphs and compare their Performance and trade offs</p>

II YEAR-II SEM: A.Y- 2019-20

S. No	Subject	Course Outcomes
1	Formal Language And Automata Theory(C225)	<p>C225.1: Classify machines by their power to recognize languages.</p>
		<p>C225.2: Employ finite state machines to solve problems in computing</p>
		<p>C225.3: _Explain deterministic and non-deterministic machines</p>
		<p>C225.4: Comprehend the hierarchy of problems arising in the computer science</p>

III YEAR-I SEM: A.Y- 2020-21

S. No	Subject	Course Outcomes
1	Database Management System (C314)	C314.1: Describe a relational database and object-oriented database.
		C314.2: Create, maintain and manipulate a relational database using SQL
		C314.3: Describe ER model and normalization for database design.
		C314.4: Examine issues in data storage and query processing and can formulate appropriate solutions.
		C314.5: Understand the role and issues in management of data such as efficiency, privacy, security, ethical responsibility, and strategic advantage.
		C314.5: Design and build database system for a given real world problem

III YEAR-II SEM: A.Y- 2020-21

S. No	Subject	Course Outcomes
1	Computer Networks (C321)	C321.1: Understand OSI and TCP/IP models
		C321.2:

	Analyze MAC layer protocols and LAN technologies
	C321.3: Design applications using internet protocols
	C321.4: Understand routing and congestion control algorithms
	C321.5: Understand how internet works

IV YEAR-I SEM: A.Y- 2021-22

S. No	Subject	Course Outcomes
1	<p style="text-align: center;">WEB TECHNOLOGIES (C413)</p>	C413.1: Analyze a web page and identify its elements and attributes.
		C413.2 Create web pages using XHTML and Cascading Styles sheets.
		C413.3: Build dynamic web pages.
		C413.4: Build web applications using PHP.
		C413.5: Programming through PERL and Ruby
		C413.6: Write simple client-side scripts using AJAX

IV YEAR-II SEM: A.Y- 2021-22

S. No	Subject	Course Outcomes
1	Distributed Systems(C421)	C421.1: Develop a familiarity with distributed file systems.
		C421.2: Describe important characteristics of distributed systems and the salient architectural features of such systems.
		C421.3: Describe the features and applications of important standard protocols which are used in distributed systems.
		C421.4: Gaining practical experience of inter-process communication in a distributed environment

II YEAR-ISEM: A.Y- 2019-20

Subject DATA STRUCTURES THROUGH C++A.Y- 2019-20

CO PO MAPPING

CO NO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 1	PO1 1	PO1 2	PSO 1	PSO 2
C215.1	2	1	1	2									3	2
C215.2	3	2	1										2	2
C215.3	2	2	2	1	1								3	2
C215.4	3	2	2	1									3	2
C215.5	3	2	2	2	2								3	2

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II YEAR-ISEM: A.Y- 2019-20**Subject DATA STRUCTURES THROUGH****C++A.Y- 2019-20****CO PO MAPPING**

CO NO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 11	PO 11	PO 12	PS O1	PS O2
C215 .1	2	1	1	2									3	2
C215 .2	3	2	1										2	2
C215 .3	2	2	2	1	1								3	2
C215 .4	3	2	2	1									3	2
C215 .5	3	2	2	2	2								3	2

II YEAR-IISEM: A.Y- 2019-20**Subject: Formal Language And Automata Theory****CO PO MAPPING**

CO NO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 1	PO1 1	PO1 2	PSO 1	PSO 2
C225. 1	3	3	3	3	2								2	2
C225. 2	2	2	3	3	3								2	2
C225. 3	3	2	3	3	3								2	2
C225. 4	3	3	2	3	2								2	2

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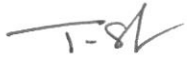
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III YEAR-I SEM: A.Y- 2020-21**Subject: DataBaseManagementSystem****CO PO MAPPING**

CO NO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 1	PO1 1	PO1 2	PSO 1	PSO 2
C314.1	3	3	3	3	3								2	3
C314.2	2	2	3	2	3								2	3
C314.3	2	2	2	2	2								2	2
C314.4	2	2	2	2	2								2	2
C314.5	2	2	2	2	2								2	2
C314.6	2	2	2	2	2								2	2

III YEAR-II SEM: A.Y- 2020-21**Subject: Computer Networks****CO PO MAPPING**

CO NO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 1	PO1 1	PO1 2	PS O1	PS O2
C321.1	3	3	3	3	3								2	3
C321.2	2	2	3	2	3								2	3
C321.3	2	2	2	2	2								2	2
C321.4	2	2	2	2	2								2	2
C321.5	2	2	2	2	2								2	2


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IV YEAR-I SEM: A.Y- 2021-22

Subject: Web Technologies

CO PO MAPPING

CO NO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 1	PO1 1	PO1 2	PS O1	PS O2
C413.1	3	3	3	3	3								2	3
C413.2	2	2	3	2	3								2	3
C413.3	2	2	2	2	2								2	2
C413.4	2	2	2	2	2								2	2
C413.5	2	2	2	2	2								2	2
C413.6	2	2	2	2	2								2	2

IVYEAR-ISEM: A.Y- 2021-22

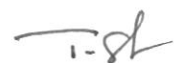
Subject: Distributed Systems

CO NO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 1	PO1 1	PO1 2	PS O1	PS O2
C421.1	3	3	3	3	3								2	3
C421.2	2	2	3	2	3								2	3
C421.3	2	2	2	2	2								2	2
C421.4	2	2	2	2	2								2	2

Course Articulation Matrix

Course Code	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	PS01	PS02
C111	0								1.58	2.96		0.99		
C112	1.624	1.76	0.68										1.09	0.68
C113	2	1.31				0.68	0.65							
C114	2.246	2.25	2.1	1.65	1.35							1.47		
C115	1.79	1.43	1.08	0.96	0.96	2.15		1.79			0.72	1.43	1.43	0
C116			0.93					2.8	0.93	1.87				

C117	2.34	1.87	1.4	0.93	1.24	1.24	2.8		2.34			0.93		
C118	2.58	2.53	2.07	1.84	1.61								2.39	2.53
C121	1.88533	1.75										1.48	0.67	
C122	1.222	1.22										0.85	0.47	
C123	1.46267	1.34	0.93											
C124	1.994	1.33	1.6	2.02									1.99	0.66
C125	1.55267	1.7	1.56	1.31	1.31								1.56	1.56
C126	1.83	1.65	1.83											
C127									2.79	2.79		1.3		
C128	2.22	2.22	2.78	2.55								2.08	2.59	0
C129					0.92	0.92			2.76				1.84	1.84
C211	1.86667	1.87										1.34	0.67	1.34
C212	0.51	0.51	0.56	0.56	0.51	0.47	0.37	0.43	0.48	0.48	0.36	0.52	0.61	0.47
C213	0.67	0.67	0.59	0.44	0.44								0.61	0.44
C214	2.78	2.78	2.08	1.38	1.81								2.54	1.83
C215	2.01	1.51	1.68	1.34	1.34								1.84	1.34
C216	0.48	0.44	0.29	0.22									0.62	0.44
C217	2.51	2.23	2.51	2.09								2.51	1.26	0
C218	2.95	2.95	2.95		1.97								2.95	1.97
C221		1.98												
C222	0.53	1.60	1.47	1.07	1.07								1.49	1.07
C223	0.52	0.46	0.51	0.35	0.46	0.34	0.29		0.30	0.34	0.22	0.44	0.65	0.45
C224	1.52	1.20	1.20	0.87	1.20	0.54	0.91		0.54	0.54	0.54	0.54	1.52	1.09
C225	1.60	1.60	1.47	1.07	1.07								1.49	1.07
C226	2.96	2.96	2.96		1.97								2.96	1.97
C227	1.96	2.16	2.16	1.76	2.16	0.98	0.98	1.31	1.47	1.37	1.31	1.76	2.35	1.57
C228	2.94	2.94	2.61	1.96	1.96								2.70	1.96
C229	2.95	2.95	2.29	2.62	1.31	2.29	2.62	1.97	2.29	1.97	0.98	2.29	2.29	1.31
C311	2.00	1.73	1.83	1.33	1.33								1.87	1.33
C312	1.47	1.47	1.35	0.98	0.98								1.37	0.98
C313	1.42	1.42	1.42	0.82	0.93								1.32	0.69
C314	1.08	0.98	1.08	1.35	1.10	0.74	0.49	0.98	0.98	0.78	0.74	0.98	1.08	0.98

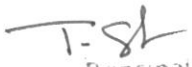


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C315	2.73	2.55	2.55	2.73	2.18									
C316	2.41	2.41	2.14	1.61	1.61							2.21	1.61	
C317	2.95	1.97		2.95	2.95							1.97	1.97	1.97
C318	2.36	1.97		2.36	2.16							1.18	2.16	1.57
C321	2.85	2.85	2.61	1.90	1.90								2.66	1.90
C322	1.21	1.13	1.21	1.21	0.86	0.86	1.04	0.44	1.21	1.29	0.86	0.79	1.22	1.12
C323	2.01				1.34									
C324	2.00	2.67	2.37	1.78	1.78								2.45	1.78
C325	0.43	0.43				0.86	0.86		0.69	0.72	1.08	0.43		
C326	2.36		1.97	2.16	2.36	0.98				1.48		0.66	2.16	1.57
C327	3.0	2.5	2.0	2.7									2.7	2.4
C328														
C411	1.71	1.71	1.50	1.03	1.37								1.71	0.68
C412	0.99	0.99	0.99		0.66								0.94	0.49
C413	0.76	0.68	0.68	0.70	0.70					0.25		0.51	0.70	0.51
C414	0.74	0.74	1.26	0.92	0.92								1.28	0.92
C415	1.61	1.88	1.84	1.07	0.98		1.34							
C416	0.98	0.73	0.79	0.75	0.00								0.92	0.47
C417	1.97	1.97	1.57	0.98	0.66								1.80	1.31
C418														
C421	0.89				0.89	0.89			1.34	1.34	2.68	0.89		
C422	1.01	1.01	0.83	0.78	0.00								0.93	0.48
C423	2.73	2.73		2.73	1.82	1.82	0.91	2.73	2.55		2.185	1.7		
C424	0.00	2.36	1.57	1.31	0.98								1.80	1.31


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A.Y: 2022-23

ANNUAL REPORT

S.No	Branch	Number of students Registered	Number of students passed	Pass percentage(%)
1	CE	45	37	82
2	EEE	27	21	78
3	ME	57	46	81
4	ECE	66	51	77
5	CSE	66	61	92

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