

	<p>CO3: Use concepts of timers and interrupts of PIC 18.</p> <p>CO4: Demonstrate real life applications using PIC 18.</p> <p>CO5: Analyze architectural details of ARM processor.</p>
8	<b>214452: Database Management System</b>
	<p>CO1: Apply fundamental elements of database management systems.</p> <p>CO2: Design ER-models to represent simple database application scenarios.</p> <p>CO3: Formulate SQL queries on data for relational databases.</p> <p>CO4: Improve the database design by normalization &amp; to incorporate query processing.</p> <p>CO5: Apply ACID properties for transaction management and concurrency control.</p> <p>CO6: Analyze various database architectures and technologies</p>
9	<b>214453: Computer Graphics</b>
	<p>CO1: Apply mathematical and logical aspects for developing elementary graphics operations like scan conversion of points, lines, circle, and apply it for problem solving.</p> <p>CO2: Employ techniques of geometrical transforms to produce, position and manipulate Objects in 2 dimensional and 3-dimensional space respectively.</p> <p>CO3: Describe mapping from a world coordinates to device coordinates, clipping, and projections in order to produce 3D images on 2D output device.</p> <p>CO4: Apply concepts of rendering, shading, animation, curves and fractals using computer graphics tools in design, development and testing of 2D, 3D modeling applications.</p> <p>CO5: Perceive the concepts of virtual reality.</p>
10	<b>214454: Software Engineering</b>
	<p>CO1: Classify various software application domains.</p> <p>CO2: Analyze software requirements by using various modeling techniques.</p> <p>CO3: Translate the requirement models into design models.</p> <p>CO4: Apply planning and estimation to any project.</p> <p>CO5: Use quality attributes and testing principles in software development life cycle.</p> <p>CO6: Discuss recent trends in Software engineering by using CASE and agile tools.</p>

### Third Year Information Technology

Course Outcome	
Sr. No	Name of Subject
1	<b>314441: Theory of Computation</b>
	<p>CO1: Construct finite automata and its variants to solve computing problems.</p> <p>CO2: Write regular expressions for the regular languages and finite automata.</p> <p>CO3: Identify types of grammar, design and simplify Context Free Grammar.</p> <p>CO4: Construct Pushdown Automata machine for the Context Free Language.</p> <p>CO5: Design and analyze Turing machines for formal languages.</p> <p>CO6: Understand decidable and undecidable problems and analyze complexity classes.</p>

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	<p><b>CO1:</b> Explain Responsibilities, services offered and protocol used at application layer of network</p> <p><b>CO2:</b> Apply concepts of wireless network and different wireless standards.</p> <p><b>CO3:</b> Recognize the Adhoc Network's MAC layer, routing protocol and Sensor network architecture. <b>CO4:</b> Implement the principal concepts of network security and Understand network security threats, security services, and countermeasures</p> <p><b>CO5:</b> Apply basic cryptographic techniques in application development.</p> <p><b>CO6:</b> Gain a good comprehension of the landscape of cyber security Vulnerabilities &amp; describe typical threats to modern digital systems.</p>
7	<b>314452: Data Science and Big Data Analytics</b>
	<p><b>CO1:</b> Understand Big Data primitives.</p> <p><b>CO2:</b> Learn and apply different mathematical models for Big Data.</p> <p><b>CO3:</b> Demonstrate Big Data learning skills by developing industry or research applications.</p> <p><b>CO4:</b> Analyze and apply each learning model comes from a different algorithmic approach and it will perform differently under different datasets.</p> <p><b>CO5:</b> Understand, apply and analyze needs, challenges and techniques for big data visualization.</p> <p><b>CO6:</b> Learn different programming platforms for big data analytics.</p>
8	<b>314453: Web Application Development</b>
	<p><b>CO1:</b> Develop Static and Dynamic website using technologies like HTML, CSS, Bootstrap.</p> <p><b>CO2:</b> Demonstrate the use of web scripting languages.</p> <p><b>CO3:</b> Develop web application with Front End &amp; Back End Technologies.</p> <p><b>CO4:</b> Develop mobile website using JQuery Mobile.</p> <p><b>CO5:</b> Deploy web application on cloud using AWS.</p>
9	<b>314454 (C): Elective-II- ( Cloud Computing)</b>
	<p><b>CO1:</b> Articulate the main concepts, key technologies and fundamentals of cloud computing.</p> <p><b>CO2:</b> Understand cloud enabling technologies and virtualization.</p> <p><b>CO3:</b> Analyze various cloud programming models and apply them to solve problems on the cloud.</p> <p><b>CO4:</b> Explain data storage and major security issues in the cloud.</p> <p><b>CO5:</b> Understand trends in ubiquitous cloud and internet of things.</p> <p><b>CO6:</b> Explore future trends of cloud computing.</p>
10	<b>314455: Internship</b>
	<p><b>CO1:</b> Develop professional competence through industry internship.</p> <p><b>CO2:</b> Apply academic knowledge in a personal and professional environment</p> <p><b>CO3:</b> Build the professional network and expose students to future employees.</p> <p><b>CO4:</b> Apply professional and societal ethics in their day-to-day life.</p> <p><b>CO5:</b> Become a responsible professional having social, economic and administrative considerations.</p>

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