

ET Bhujbal Knowledge City

Institute of Engineering Department of Computer Engineering - UG

Course Outcomes

| | | FE Semester – I |
|-----------------------------|----------|--|
| FE Computer, Course-2015 | COs | Course Outcome |
| 110003 Fundamentals | 110003.1 | Ability to use modular programming approach in diversified problem domains. |
| of Programming | 110003.2 | Ability to apply programming logic to solve real world problems. |
| Language – I | 110003.3 | Ability to decide effectiveness of computer based solutions. |
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| | | FE Semester – II |
| FE Computer, Course-2015 | COs | Course Outcome |
| | 110010.1 | Ability to develop programs using object oriented concepts. |
| 110010 Fundamentals | 110010.2 | Ability to design and develop web pages using HTML. |
| of Programming | 110010.3 | Ability to design and develop mobile application using Android SDK. |
| Language – II | 110010.4 | Ability to design and develop simple application using Embedded Programming. |

| | | SE Semester – I |
|------------------------------|----------|--|
| SE Computer Course - 2015 | COs | Course Outcome |
| 210241 Discrete | 210241.1 | Solve real world problems logically using appropriate set, function, and relation models and interpret the associated operations and terminologies in context. |
| Mathematics | 210241.2 | Analyze and synthesize the real world problems using discrete mathematics. |
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| | 210242.1 | Realize and simplify Boolean Algebraic assignments for designing digital circuits using K-Maps. |
| 210242 Digital | 210242.2 | Design and implement Sequential and Combinational digital circuits as per the specifications. |
| Electronics & Logic Design | 210242.3 | Apply the knowledge to appropriate IC as per the design specifications. |
| | 210242.4 | Design simple digital systems using VHDL. |
| | 210242.5 | Develop simple embedded system for simple real world application |

| 210243 Data Structures and Algorithms | 210243.2 210243.3 210243.4 | problem solution. To design the algorithms to solve the programming problems. To use effective and efficient data structures in solving various |
|---------------------------------------|----------------------------------|---|
| Data Structures | | To use effective and efficient data structures in solving various |
| and Algorithms — | 210243.4 | Computer Engineering domain problems |
| | | To analyse the problems to apply suitable algorithm and data structure. |
| | 210243.5 | To use appropriate algorithmic strategy for better efficiency |
| | | |
| 210244 | 210244.1 | Demonstrate computer architecture concepts related to design of modern processors, memories and I/Os. |
| Computer Organization | 210244.2 | Analyze the principles of computer architecture using examples drawn from commercially available computers. |
| and Architecture | 210244.3 | Evaluate various design alternatives in processor organization |
| | 210245.1 | Analyze the strengths of object oriented programming |
| 210245 | 210245.2 | Design and apply OOP principles for effective programming |
| Object Oriented Programming | 210245.3 | Develop programming application using object oriented programming language C++ |
| | 210245.4 | Percept the utility and applicability of OOP |
| | | |
| | 210246.1 | Realize and simplify Boolean Algebraic assignments for designing digital circuits using K-Maps. |
| 210246 Digital | 210246.2 | Design and implement Sequential and Combinational digital circuits as per the specifications. |
| Electronics Lab | 210246.3 | Apply the knowledge to appropriate IC as per the design specifications. |
| | 210246.4 | Design simple digital systems using VHDL. |
| | 210246.5 | Develop simple embedded system for simple real world application |
| | 210247.1 | To discriminate the usage of various structures in approaching the problem solution. |
| 210247 | 210247.2 | To design the algorithms to solve the programming problems. |
| Data Structures Lab | 210247.3 | To use effective and efficient data structures in solving various Computer Engineering domain problems |
| Lab | 210247.4 | To analyze the problems to apply suitable algorithm and data structure. |
| | 210247.5 | To use appropriate algorithmic strategy for better efficiency |
| Т | 240249.4 | Analyzo the atropaths of chiest evicated an array are |
| 210248 | 210248.1 210248.2 | Analyze the strengths of object oriented programming Design and apply OOP principles for effective programming |
| Object Oriented | | Develop programming application using object oriented programming |
| Programming Lab | 210248.3 | language C++ |
| | 210248.4 | Percept the utility and applicability of OOP |
| | 210249.1 | Effectively communicate through verbal/oral communication and improve the listening skills |
| 210249 | 210249.2 | Write precise briefs or reports and technical documents. |
| Soft Skills | 210249.3 | Actively participate in group discussion / meetings / interviews and prepare & deliver presentations. |

| | 210249.4 | Become more effective individual through goal/target setting, self- motivation and practicing creative thinking. |
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| | 210249.5 | Function effectively in multi-disciplinary and heterogeneous teams through the knowledge of team work, Inter-personal relationships, conflict management and leadership quality. |
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| | 210246.1 | Better understanding of the dynamic behaviour of the urban system by going beyond the physical appearance and by focusing on representations, properties and impact factors |
| 210250 Audit Course 1 | 210246.2 | Exploration of the city as the most complex human-made organism with a metabolism that can be modelled in terms of stocks and flows |
| AC1-IV: Smart Cities | 210246.3 | Knowledge about data-informed approaches for the development of the future city, based on crowd sourcing and sensing |
| Cities | 210246.4 | Knowledge about the latest research results in for the development and management of future cities |
| | 210246.5 | Understanding how citizens can benefit from data-informed design to develop smart and responsive cities |
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| | | SE Semester – II |
| SE Computer, Course-2015 | COs | Course Outcome |
| | 207003.1 | Solve higher order linear differential equation using appropriate techniques for modelling and analysing electrical circuits. |
| | 207003.2 | Solve problems related to Fourier transform, Z-Transform and applications to Signal and Image processing. |
| 207003 Engineering Mathematics III | 207003.3 | Apply statistical methods like correlation, regression analysis and probability theory for analysis and prediction of a given data as applied to machine intelligence. |
| wathematics in | 207003.4 | Perform vector differentiation and integration to analyze the vector fields and apply to compute line, surface and volume integrals. |
| | | Analyze conformal mappings, transformations and perform contour |
| | 207003.5 | integration of complex functions required in Image processing, Digital filters and Computer graphics. |
| | 207003.5 | integration of complex functions required in Image processing, Digital filters and Computer graphics. Apply mathematics and logic to develop Computer programs for |
| 210251 Computer | | integration of complex functions required in Image processing, Digital filters and Computer graphics. Apply mathematics and logic to develop Computer programs for elementary graphic operations Develop scientific and strategic approach to solve complex problems |
| 210251 Computer Graphics | 210251.1 | integration of complex functions required in Image processing, Digital filters and Computer graphics. Apply mathematics and logic to develop Computer programs for elementary graphic operations Develop scientific and strategic approach to solve complex problems in the domain of Computer Graphics Develop the competency to understand the concepts related to |
| Computer | 210251.1 210251.2 | integration of complex functions required in Image processing, Digital filters and Computer graphics. Apply mathematics and logic to develop Computer programs for elementary graphic operations Develop scientific and strategic approach to solve complex problems in the domain of Computer Graphics |
| Computer | 210251.1 210251.2 210251.3 | integration of complex functions required in Image processing, Digital filters and Computer graphics. Apply mathematics and logic to develop Computer programs for elementary graphic operations Develop scientific and strategic approach to solve complex problems in the domain of Computer Graphics Develop the competency to understand the concepts related to Computer Vision and Virtual reality |
| Computer Graphics | 210251.1 210251.2 210251.3 210251.4 | integration of complex functions required in Image processing, Digital filters and Computer graphics. Apply mathematics and logic to develop Computer programs for elementary graphic operations Develop scientific and strategic approach to solve complex problems in the domain of Computer Graphics Develop the competency to understand the concepts related to Computer Vision and Virtual reality Apply the logic to develop animation and gaming programs To apply appropriate advanced data structure and efficient algorithms to approach the problems of various domain. To design the algorithms to solve the programming problems. |
| Computer | 210251.1 210251.2 210251.3 210251.4 210252.1 | integration of complex functions required in Image processing, Digital filters and Computer graphics. Apply mathematics and logic to develop Computer programs for elementary graphic operations Develop scientific and strategic approach to solve complex problems in the domain of Computer Graphics Develop the competency to understand the concepts related to Computer Vision and Virtual reality Apply the logic to develop animation and gaming programs To apply appropriate advanced data structure and efficient algorithms to approach the problems of various domain. To design the algorithms to solve the programming problems. To use effective and efficient data structures in solving various Computer Engineering domain problems. |
| Computer Graphics | 210251.1 210251.2 210251.3 210251.4 210252.1 210252.2 | integration of complex functions required in Image processing, Digital filters and Computer graphics. Apply mathematics and logic to develop Computer programs for elementary graphic operations Develop scientific and strategic approach to solve complex problems in the domain of Computer Graphics Develop the competency to understand the concepts related to Computer Vision and Virtual reality Apply the logic to develop animation and gaming programs To apply appropriate advanced data structure and efficient algorithms to approach the problems of various domain. To design the algorithms to solve the programming problems. To use effective and efficient data structures in solving various |

| 210253 Microprocessor | 210253.1 | To apply the assembly language programming to develop small real life embedded application. |
|---------------------------|----------|---|
| | 210253.2 | To understand the architecture of the advanced processor thoroughly to use the resources for programming |
| | 210253.3 | To understand the higher processor architectures descended from 80386 architecture |
| | | |
| 210254 | 210254.1 | To analyze the strengths and weaknesses of programming languages for effective and efficient program development. |
| Principles of Programming | 210254.2 | To inculcate the principles underlying the programming languages enabling to learn new programming languages. |
| Languages | 210254.3 | To grasp different programming paradigms |
| Languages | 210254.4 | To use the programming paradigms effectively in application development. |
| | | |
| | 210255.1 | Apply mathematics and logic to develop Computer programs for elementary graphic operations |
| 210255 Computer | 210255.2 | Develop scientific and strategic approach to solve complex problems in the domain of Computer Graphics |
| Graphics Lab | 210255.3 | Develop the competency to understand the concepts related to Computer Vision and Virtual reality |
| | 210255.4 | Apply the logic to develop animation and gaming programs |
| | | |
| | | To apply appropriate advanced data structure and efficient algorithms |
| | 210256.1 | to approach the problems of various domain. |
| | 210256.1 | To design the algorithms to solve the programming problems. |
| 210256 Advanced Data | 210256.1 | To use effective and efficient data structures in solving various Computer Engineering domain problems. |
| Structures Lab | 210256.1 | To analyze the algorithmic solutions for resource requirements and optimization |
| | 210256.1 | To use appropriate modern tools to understand and analyze the functionalities confined to the data structure usage. |
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| 210257 Microprocessor | 210257.1 | To apply the assembly language programming to develop small real life embedded application. |
| | 210257.2 | To understand the architecture of the advanced processor thoroughly to use the resources for programming |
| Lab | 210257.3 | To understand the higher processor architectures descended from 80386 architecture |
| | 210257.4 | |
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| | | TE Semester – I |
|------------------------------------|----------|--|
| TE Computer, Course-2015 | Cos | Course Outcomes |
| | 310241.1 | Design Deterministic Turing Machine for all inputs and all outputs |
| 310241 Theory of Computation | 310241.2 | Subdivide problem space based on input subdivision using constraints |
| | 310241.3 | Apply linguistic theory |
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| | 310242.1 | Design E-R Model for given requirements and convert the same into database tables |
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| 240040 | 310242.2 | Use database techniques such as SQL & PL/SQL. |
| 310242 Database | 310242.3 | Use modern database techniques such as NOSQL. |
| Management Systems | 310242.4 | Explain transaction Management in relational database System. |
| | 310242.5 | Describe different database architecture and analyses the use of appropriate architecture in real time environment. |
| | 310242.6 | Use advanced database Programming concepts |
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| | 310243.1 | Decide on a process model for a developing a software project |
| 310243 Software | 310243.2 | Classify software applications and Identify unique features of various domains |
| Engineering and | 310243.3 | Design test cases of a software system. |
| Project | 310243.4 | Understand basics of IT Project management. |
| Management | 310243.5 | Plan, schedule and execute a project considering the risk management. |
| | 310243.6 | Apply quality attributes in software development life cycle. |
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| | 310244.1 | Understand the need, usage and importance of an Information System to an organization. |
| | | Understand the activities that are undertaken while managing, designing, |
| | 310244.2 | planning, implementation, and deployment of computerized information system in an organization. |
| 310244 Information Systems and Engineering | 310244.3 | Further the student would be aware of various Information System solutions like ERP, CRM, Data warehouses and the issues in successful implementation of these technology solutions in any organizations |
| Economics | 310244.4 | Outline the past history, present position and expected performance of a company engaged in engineering practice or in the computer industry. |
| | 310244.5 | Perform and evaluate present worth, future worth and annual worth analyses on one of more economic alternatives. |
| | 310244.6 | Be able to carry out and evaluate benefit/cost, life cycle and breakeven analyses on one or more economic alternatives. |
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| | 310245.1 | Analyze the requirements for a given organizational structure to select the most appropriate networking architecture |
| | 310245.2 | Demonstrate design issues, flow control and error control |
| 310245 Computer | 310245.3 | Analyze data flow between TCP/IP model using Application, Transport and Network Layer Protocols. |
| Networks | 310245.4 | Illustrate applications of Computer Network capabilities, selection and usage for various sectors of user community |
| | 310245.5 | Illustrate Client - Server architectures and prototypes by the means of correct standards and technology. |
| [| 310245.6 | Demonstrate different routing and switching algorithms |
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| 310246 | 310246.1 | Evaluate problems and analyze data using current technologies in a wide variety of business and organizational contexts. |
| Skill | 310246.2 | Create data - driven web applications |
| Development Lab | 310246.3 | Incorporate best practices for building applications |
| | 310246.4 | Employ Integrated Development Environment(IDE) for implementing and |

| | | testing of software solution |
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| | 310246.5 | Construct software solutions by evaluating alternate architectural patterns. |
| 310247: Database | 310247.1 | Develop the ability to handle databases of varying complexities |
| Management System Lab | 310247.2 | Use advanced database Programming concepts |
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| _ | 310248.1 | Demonstrate LAN and WAN protocol behavior using Modern Tools. |
| 310248 Computer | 310248.2 | Analyze data flow between peer to peer in an IP network using Application, Transport and Network Layer Protocols. |
| Networks Lab | 310248.3 | Demonstrate basic configuration of switches and routers. |
| | 310248.4 | Develop Client - Server architectures and prototypes by the means of correct standards and technology |
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| 310249 Audit Course 3 | 310249.1 | Compare the interrelationships among security roles and responsibilities in a modern information - driven enterprise — to include interrelationships across security do mains (IT, physical, classification, personnel, and so on) |
| AC3 –I: Cyber Security | 310249.2 | Assess the role of strategy and policy in determining the success of information security; |
| | 310249.3 | Estimate the possible consequences of misaligning enterprise strategy, security policy, and security plans; |
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| 310249 | 310249.1 | Understand the basic perception of profession, professional ethics, various moral issues & uses of ethical theories |
| Audit Course 3 AC3 – II: | 310249.2 | Understand various social issues, industrial standards, code of ethics and role of professional ethics in engineering field. |
| Professional Ethics and | 310249.3 | Follow Ethics as an engineering professional and adopt good standards & norms of engineering practice. |
| Etiquettes | 310249.4 | Apply ethical principles to resolve situations that arise in their professional lives |
| | 0400404 | |
| _ | 310249.1 | Expand your knowledge of emotional patterns in yourself and others |
| 310249 Audit Course 3 | 310249.2 | Discover how you can manage your emotions, and positively influence yourself and others |
| AC3 – III: | 310249.3 310249.4 | Build more effective relationships with people at work and at home Positively influence and motivate colleagues, team members, managers |
| Emotional – Intelligence | 310249.4 | Increase your leadership effectiveness by creating an atmosphere that engages others |
| _ | 310249.6 | Apply EI behaviors and supports high performance |
| | 010240.0 | riphy El Bellaviere and supporte high performance |
| 040040 | | |
| 310249 Audit Course 3 AC3 – IV: MOOC - learn New Skill | 310249.1 | On completion of the course, learner will acquire additional knowledge and skill. |
| Audit Course 3 AC3 – IV: MOOC - learn New Skill | | and skill. |
| Audit Course 3 AC3 – IV: MOOC - learn New Skill 310249 Audit Course 3 | 310249.1 | and skill. Have ability of basic communication. |
| Audit Course 3 AC3 – IV: MOOC - learn New Skill 310249 Audit Course 3 AC3 – V: | 310249.1 310249.2 | Have ability of basic communication. Have the knowledge of Japanese script. |
| Audit Course 3 AC3 – IV: MOOC - learn New Skill 310249 Audit Course 3 | 310249.1 | and skill. Have ability of basic communication. |

| | | TE Semester – II |
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| 310250 | 310250.1 | Formulate the problem |
| Design and | 310250.2 | Analyze the asymptotic performance of algorithms |
| Analysis of | 310250.3 | Decide and apply algorithmic strategies to solve given problem |
| Algorithms | 310250.4 | Find optimal solution by applying various methods |
| 310251 Systems | 310251.1 | Analyze and synthesize system software |
| Programming and | 310251.2 | Use tools like LEX & YACC. |
| Operating System | 310251.3 | Implement operating system functions. |
| 310252 | 310252.1 | Implement an architectural design for IoT for specified requirement |
| Embedded Systems and | 310252.2 | Solve the given societal challenge using IoT |
| Internet of Things | 310252.3 | Choose between available technologies and devices for stated IoT challenge |
| | 310253.1 | Analyze the problem statement (SRS) and choose proper design technique for designing web - based/ desktop application |
| 310253 Software | 310253.2 | Design and analyze an application using UML modeling as fundamental tool |
| Modeling and | 310253.3 | Apply design patterns to understand reusability in OO design |
| Design | 310253.4 | Decide and apply appropriate modern tool for designing and modeling |
| | 310253.5 | Decide and apply appropriate modern testing tool for testing web - based/desktop application |
| | | Analysis siyas assissment to coloct systemable yeak days language and |
| | 310254.1 | Analyze given assignment to select sustainable web development and design methodology |
| 310254 Web Technology | 310254.2 | develop web based application using suitable client side and server side web technologies |
| | 310254.3 | develop solution to complex problems using appropriate method, technologies, frameworks, web services and content management |
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| 310255 Seminar and | 310255.1 | Be able to be familiar with basic technical writing concepts and terms, such as audience analysis, jargon, format, visuals, and presentation. |
| Technical Communication | 310255.2 | Be able to improve skills to read, understand, and interpret material on technology. |
| Communication | 310255.3 | improve communication and writing skills |
| 310256 | 310256.1 | Develop web based application using suitable client side and server side web technologies |
| Web Technology- Lab | 310256.2 | Develop solution to complex problems using appropriate method, technologies, frameworks, web services and content management |
| 310257 | 240257.4 | Understand the internals of law success translators |
| System | 310257.1 310257.2 | Understand the internals of language translators Handle tools like LEX & YACC. |
| Programming & | 310231.2 | |
| Operating System Lab | 310257.3 | Understand the Operating System internals and functionalities with implementation point of view |
| 310258 Embedded | 310258.1 | Design the minimum system for sensor based application |
| Embedded Systems & | 310258.2 | Solve the problems related to the primitive needs using IoT |

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| Internet of Things Lab | 310258.3 | Develop full fledged IoT application for distributed environment |
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| 310259 Audit Course 4 | 310259.1 | Create editorial calendars to manage content distribution. |
| AC4 – I: Digital | 310259.2 | Use Social Listening tools to create timely, relevant content. |
| & Social Media Marketing | 310259.3 | Create Social Media policies that combine business objectives with appropriate use of social media channels and content. |
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| 310259 | 310259.1 | Understand the concept of green IT and relate it to sustainable development. |
| Audit Course 4 | 310259.2 | Apply the green computing practices to save energy. |
| AC4 – II: Green Computing | 310259.3 | Discuss how the choice of hardware and software can facilitate a more sustainable operation, |
| | 310259.4 | Use methods and tools to measure energy consumption |
| 310259 | | |
| Audit Course 4 AC4 – III: | 310259.1 | Demonstrate an overview of the main sources of renewable energy. |
| Sustainable Energy Systems | 310259.2 | Understand benefits of renewable and sustainable energy systems. |
| | | |
| 310259 Audit Course 4 AC4 – IV: Leadership and Personality Development | 310259.1 | Enhance holistic development of students and improve employability skills |
| | 310259.1 | Possess ability of basic communication. |
| 310259 Audit Course 4 AC4 –V: Foreign Language(Japan | 310259.1 | Possess the knowledge of Japanese script. |
| | 310259.2 | Get introduced to reading, writing and listening skills for language Japanese. |
| ese Module 4) | 310259.4 | Develop interest to pursue professional Japanese Language course |
| | 01020014 | 2010.00 interest to parous professional superiose Early days course |

| | | BE Semester – I |
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| BE Computer, Course-2012 | COs | Course Outcome |
| | 410441.1 | To survey algorithmic strategies give presentations using open source documentation tools like Latex and soft skill methodologies. |
| 410441 Design & | 410441.2 | To write mathematical modeling of algorithms for problem solving. |
| Analysis of Algorithms. | 410441.3 | To develop SRS in the UG projects; |
| - | 410441.4 | To solve problems for multi-core or distributed or concurrent/Parallel/Embedded environments; |
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| 410442 Principles of | 410442.1 | To write symbol tables, different types of grammars to solve problem of parsing. |
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| Modern Compiler Design. | 410442.2 | To design and write simple compiler using FOSS tools. |
| | 410442.3 | To practice compiler tools in basic, concurrent, distributed and embedded environments. |
| | 410442.4 | To survey and use latest trends and advances in compilers |
| 410443 | 410443.1 | To write and survey solution for multidisciplinary case-study using mathematical modeling give presentations using soft skills methodologies; |
| Smart System Design & Applications. | 410443.2 | To write and survey embedded systems applications using machine learning; |
| | 410443.3 | To solve problems for multi-core or distributed, concurrent and embedded environments; |
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| 410444D | 410444D.1 | To present survey on different learning, classification and data mining foundations. |
| (Elective - I) Data Mining Techniques and | 410444D.2 | To write programs and methods for data Mining applications. |
| Applications. | 410444D.3 | To solve problems for multi-core or distributed, concurrent/Parallel environments. |
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| 410445B | 410445B.1 | To present a survey on pervasive computing building blocks. |
| (Elective - II) Pervasive | 410445B.2 | To create presentations using pervasive computing techniques and devices. |
| Computing | 410445B.3 | To solve problems for multi-core or distributed, concurrent/Parallel environments. |
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| | 410446.1 | To write efficient mathematical design, analysis and testing of algorithmic assignments. |
| 410446 Computer | 410446.2 | To debug and demonstrate the Testing of functioning using Software Engineering for OO-programming. |
| Laboratory-I | 410446.3 | To write programs using advanced FOSS tools and technologies |
| | 410446.4 | To write test case using multi-core or distributed, concurrent/Parallel environments. |

| | 410447.1 | To write mathematical modelling for problem solving. | | | |
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| | 410447.2 | To write programs for smart devices using FOSS Tools. | | | |
| 410447 | 410447.3 | To write Programs for gamifications. | | | |
| Computer Laboratory - II | 410447.4 | To write test cases to solve problems for pervasiveness embedded security and NLP applications. | | | |
| | 410447.5 | To write test cases for multi-core or distributed, concurrent/Parallel environments. | | | |
| | 410448.1 | To write problem solutions in projects using mathematical modelling, using FOSS programming tools and devices or commercial tools; | | | |
| 410448 Project | 410448.2 | To write SRS and other software engineering documents in the project report using mathematical models developed and NP-Hard analysis; | | | |
| | 410448.3 | To write test cases using multi-core, distributed, embedded, concurrent/Parallel environments; | | | |
| | 410448.4 | To write conference paper; | | | |
| | 410448.5 | To demonstrate presentation, communication and team-work skills. | | | |
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| | | BE Semester – II | | | |
| BE Computer, Course-2012 | COs | Course Outcome | | | |
| 410449 Software Design | 410449.1 | To present a survey on design techniques for software system. | | | |
| | 410449.2 | To present a design and model using UML for a given software syste | | | |
| Methodologies and Testing. | 410449.3 | To present a design of test cases and implement automated testing fo client server, Distributed, mobile applications. | | | |
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| | 410450.1 | To transform algorithms in the computational area to efficient programming code for modern computer architectures. | | | |
| 440450 | | programming code for modern computer architectures. | | | |
| 410450 High Performance | 410450.1 410450.2 410450.3 | programming code for modern computer architectures. To write, organize and handle programs for scientific computations. To create presentation of using tools for performance optimization and | | | |
| High | 410450.2 | programming code for modern computer architectures. To write, organize and handle programs for scientific computations. To create presentation of using tools for performance optimization and debugging | | | |
| High Performance | 410450.2 410450.3 | programming code for modern computer architectures. To write, organize and handle programs for scientific computations. To create presentation of using tools for performance optimization and debugging To present analysis code with respect to performance and suggest and | | | |
| High Performance | 410450.2 410450.3 410450.4 410450.5 | programming code for modern computer architectures. To write, organize and handle programs for scientific computations. To create presentation of using tools for performance optimization and debugging To present analysis code with respect to performance and suggest and implement performance improvements. To present test cases to solve problems for multi-core or distributed, concurrent/Parallel environments. | | | |
| High Performance Computing. | 410450.2 410450.3 410450.4 | programming code for modern computer architectures. To write, organize and handle programs for scientific computations. To create presentation of using tools for performance optimization and debugging To present analysis code with respect to performance and suggest and implement performance improvements. To present test cases to solve problems for multi-core or distributed, concurrent/Parallel environments. To write a survey on cyber security concepts. | | | |
| High Performance | 410450.2 410450.3 410450.4 410450.5 | programming code for modern computer architectures. To write, organize and handle programs for scientific computations. To create presentation of using tools for performance optimization and debugging To present analysis code with respect to performance and suggest and implement performance improvements. To present test cases to solve problems for multi-core or distributed, concurrent/Parallel environments. | | | |

| Elective - IV | 410452C.1 | To write a survey on tools and architectures for Mobile Applications. | | | |
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| 410452C Mobile Applications | 410452C.2 | To write using mathematical models the problem solutions using Mobile Applications. | | | |
| | 410452C.3 | To write develop mobile applications using open source tools. | | | |
| | 1404504 | | | | |
| | 410453.1 | To write problem solutions using mathematical modelling. | | | |
| 410453 | 410453.2 | To write reports of application of software design methods and testing. | | | |
| Computer | 410453.3 | To write programs using FOSS tools. | | | |
| Laboratory - III | 410453.4 | To write problem solutions using multi-core or distributed, concurrent/Parallel environments. | | | |
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| | 410454.1 | To write programs to develop applications using BIA Technologies using mathematical modelling. | | | |
| 410454 Computer Laboratory - IV | 410454.2 | To write programs using OR and Mobile Programming Technologies using mathematical modelling. | | | |
| | 410454.3 | To write programs using FOSS tools and devices. | | | |
| | 410454.4 | To write problem solutions using multi-core or distributed, concurrent/Parallel environments | | | |
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| 410455 Project | 410455.1 | To write review SRS, reliability testing reports, and other software engineering documents in the project report; | | | |
| | 410455.2 | To write problem solution using multi-core, distributed, embedded, concurrent/Parallel environments; | | | |
| | 410455.3 | To write the test cases to demonstrate the results of the project; | | | |
| | 410455.4 | To write conference paper; | | | |
| | 410455.5 | To write code using FOSS tools and technologies or propitiatory Tools as per requirements; | | | |
| | 410455.6 | To practice presentation, communication and team-work skills | | | |