Curriculum & Syllabus

of

B.Tech. Information Technology

(For the batch admitted in 2009-10)



K.S.RANGASAMY COLLEGE OF TECHNOLOGY TIRUCHENGODE – 637 215

(An Autonomous Institution affiliated to Anna University of Technology Coimbatore and approved by AICTE New Delhi)

| K.S.Rangasamy Colle Autonomous | R 2008 | | | | | |
|-----------------------------------|------------------------|--|--|--|--|--|
| Department | Information Technology | | | | | |
| Programme Code & Name | mation / | | | | | |

| | K.S.Rangasamy College of | Technolo | gy, Tiru | chengo | de - 637 2 | 15 | | |
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| | Curriculum for the Progr | ammes un | der Auto | nomous | Scheme | | | |
| Regulation | R 2008 | | | | | | | |
| Department | B.Tech. Inform | ation Techr | nology | | | | | |
| Programme C | ode & Name 21: B.Tech. Info | ormation To | echnolog | у | | | | |
| | | Semester | I | | | | | |
| Course | | Ho | ours / We | eek | Credit | Max | imum M | larks |
| Code | Course Name | L | Т | Р | С | CA | ES | Total |
| | THEORY | | | | | | | |
| 08210101G | Technical English | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210102G | Engineering Mathematics I | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| 08210103G | Applied Physics | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210104G | Applied Chemistry | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210105S | Basics of Electrical Engineering(Common to CSE,IT) | 3 | 1 | 0 | 3 | 50 | 50 | 100 |
| 08210106S | Basics of Electronics Engineering (Common to CSE,IT) | 3 | 1 | 0 | 3 | 50 | 50 | 100 |
| | PRACTICAL | | | | | | | |
| 08210107P | Applied Physics Laboratory | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210108P | Electrical Engineering Laboratory | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210109P | Electronics Engineering Laborator | у О | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210110P | Engineering Practices Laboratory | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| | Total | 18 | 03 | 12 | 27 | | 1000 | |
| | | Semester I | I | | | • | | |
| Course | Course Name | Ho | ours / We | eek | Credit | Max | imum M | larks |
| Code | | L | Т | Р | С | CA | ES | Total |
| | THEORY | | | | | | | |
| 08210201G | Communication Skills | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210202G | Engineering Mathematics II | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| 08210203G | Materials Science | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210204G | Environmental Science | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210205S | Fundamentals of Programming (Common to CSE,EEE, ECE,IT) | 3 | 1 | 0 | 3 | 50 | 50 | 100 |
| 08210206S | Basics of Civil and Mechanical Engineering (Common to CSE and IT) | d 4 | 0 | 0 | 4 | 50 | 50 | 100 |
| | PRACTICAL | | | | | | | |
| 08210207P | Engineering Graphics Laboratory | 1 | 0 | 3 | 3 | 50 | 50 | 100 |
| 08210208P | Applied Chemistry Laboratory | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210209P | Programming Laboratory | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210210P | Comprehension I | 0 | 0 | 3 | 0 | 100 | 00 | 100 |
| | Total | 20 | 02 | 12 | 27 | | 1000 | |

| | | K.S.Rangasamy College o | f Techr | ology, T | Tiruchei | ngode – 6 | 37 215 | | |
|---|-------------|------------------------------|----------|-----------|----------|-----------|--------|----------|-------|
| Department B. Tech. Information Technology Programme Code & Name 21: B. Tech. Information Technology Semester III Semester III Course Code Course Name Hours / Week Credit Maximum Marks Code Course Name L T P C CA ES Total 08210301G Engineering Mathematics III 3 1 0 4 50 50 100 08210303C Computer Architecture 3 0 0 3 50 50 100 08210303C Denuter Architecture 3 0 0 3 50 50 100 08210303C Principles of Communication 3 1 0 4 50 50 100 08210303P Digital and Hardware Laboratory 0 0 3 2 50 50 100 08210303P Advanced C & C++ Laboratory 0 0 3 2 50 50 100 0821030 | | Curriculum for the Prog | rammes | s under A | Autonom | ous Scher | ne | | |
| Programme Code & Name 21: B.Tech. Information Technology Semester III Course Course Name Letter Veek Credit Maximum Marks Code Course Name L P C CA ES Total 08210302 Signals and Systems 3 1 0 4 50 50 100 08210302 Computer Architecture 3 0 0 3 50 50 100 08210302 Computer Architecture 3 0 0 3 50 50 100 08210302 Control & Computer Architecture 3 0 0 3 50 50 100 082103026 Advanced C & C++ 3 0 0 3 2 50 100 082103027 Digital and Hardware Laboratory 0 0 3 2 50 100 082103030P Advanced C & C + Laboratory <td>Regulation</td> <td>R 2008</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | Regulation | R 2008 | | | | | | | |
| Course Code Course Name Hours / Week Credit Maximum Marks 08210301G Engineering Mathematics III 3 1 0 4 50 50 100 08210302C Signals and Systems 3 1 0 4 50 50 100 08210302C Signals and Systems 3 1 0 4 50 50 100 08210303C Computer Architecture 3 0 0 3 50 50 100 08210305C Principles of Communication 3 1 0 4 50 50 100 08210305C Principles of Communication 3 1 0 4 50 50 100 08210307P Digital and Hardware Laboratory 0 0 3 2 50 50 100 08210309P Advanced C & C++ Laboratory 0 0 2 0 100 00 100 08210400F Detals Structures Laborator | Department | B.Tech. Informa | tion Tec | hnology | | | | | |
| Course Code Course Name Hours / Veek Credit Maximum Marks THEORY I T P C CA ES Total 08210302C Engineering Mathematics III 3 1 0 4 50 50 100 08210302C Signals and Systems 3 1 0 4 50 50 100 08210302C Computer Architecture 3 0 0 3 50 50 100 08210302C Principles of Communication 3 1 0 4 50 50 100 08210302C Advanced C & C++ 3 0 0 3 2 50 50 100 0821030P Data Structures Laboratory 0 0 3 2 50 50 100 0821030P Advanced C & C++ Laboratory 0 0 3 2 50 50 100 08210403D Career Competency Development I 0 < | Programme C | code & Name 21: B.Tech. Info | rmation | Technol | ogy | | | | |
| Code Course Name L T P C CA ES Total 08210301G Engineering Mathematics III 3 1 0 4 50 50 100 08210302C Signals and Systems 3 1 0 4 50 50 100 08210303C Computer Architecture 3 0 0 3 50 50 100 08210303C Data Structures 3 0 0 3 50 50 100 08210304C Data Structures 3 0 0 3 50 50 100 08210306C Advanced C & C++ 3 0 0 3 2 50 50 100 08210307P Digital and Hardware Laboratory 0 0 3 2 50 50 100 08210308P Advanced C & C++ Laboratory 0 0 2 0 100 00 100 08210401C | | - | Semes | ter III | | - | | | |
| Load T P C CA ES Total THEORY I | | Course Name | He | ours / W | eek | Credit | Ma | ximum Ma | arks |
| 08210301G Engineering Mathematics III 3 1 0 4 50 50 100 08210302C Signals and Systems 3 1 0 4 50 50 100 08210303C Computer Architecture 3 0 0 3 50 50 100 08210304C Data Structures 3 0 0 3 50 50 100 08210305C Principles of Communication 3 1 0 4 50 50 100 08210306C Advanced C & C++ 3 0 0 3 2 50 50 100 08210307P Digital and Hardware Laboratory 0 0 3 2 50 50 100 08210309P Advanced C & C++ Laboratory 0 0 3 1 0 100 00 100 08210400P Career Competency 0 0 2 1 07 100 00 | Code | | L | Т | Р | С | CA | ES | Total |
| 08210302C Signals and Systems 3 1 0 4 50 50 100 08210303C Computer Architecture 3 0 0 3 50 50 100 08210304C Data Structures 3 0 0 3 50 50 100 08210305C Principles of Communication 3 1 0 4 50 50 100 08210306C Advanced C & C++ 3 0 0 3 2 50 50 100 08210307P Digital and Hardware Laboratory 0 0 3 2 50 50 100 08210309P Advanced C & C++ Laboratory 0 0 3 2 50 50 100 08210309P Career Competency Development 1 0 0 2 0 100 00 100 08210401C Probability and Statistics 3 1 0 4 50 50 100 | | | | | | | | | |
| OB210302C Computer Architecture 3 0 0 3 50 50 100 08210304C Data Structures 3 0 0 3 50 50 100 08210305C Principles of Communication 3 1 0 4 50 50 100 08210306C Advanced C & C++ 3 0 0 3 50 50 100 08210307P Digital and Hardware Laboratory 0 0 3 2 50 50 100 08210308P Data Structures Laboratory 0 0 3 2 50 50 100 08210309P Advanced C & C++ Laboratory 0 0 3 2 50 50 100 08210309P Development I 18 03 11 27 100 100 08210401C Probability and Statistics 3 1 0 4 50 50 100 08210402C | 08210301G | | - | 1 | 0 | 4 | 50 | 50 | 100 |
| 08210304C Data Structures 3 0 0 3 50 50 100 08210305C Principles of Communication 3 1 0 4 50 50 100 08210306C Advanced C & C++ 3 0 0 3 50 50 100 PRACTICAL 00 3 50 50 100 0 0 3 2 50 50 100 0 0 3 2 50 50 100 0 0 3 2 50 50 100 0 0 3 2 50 50 100 0 0 3 1 0 1 10 10 10 10 10 | | а , | - | 1 | 0 | - | 50 | 50 | 100 |
| 08210305C Principles of Communication 3 1 0 4 50 50 100 08210306C Advanced C & C++ 3 0 0 3 50 50 100 08210307P Digital and Hardware Laboratory 0 0 3 2 50 50 100 08210308P Data Structures Laboratory 0 0 3 2 50 50 100 08210309P Advanced C & C++ Laboratory 0 0 3 2 50 50 100 08210310P Career Competency Development I 0 0 0 2 0 100 00 100 Total 18 03 11 27 1000 100 Total 18 03 11 27 1000 100 08210401C Probability and Statistics 3 1 0 4 50 50 100 08210402C Software Engineering | 08210303C | Computer Architecture | - | | | 3 | 50 | 50 | 100 |
| OB210306C Advanced C & C++ 3 0 0 3 50 50 100 PRACTICAL < | | | | | | | | | |
| OCCURRENT PRACTICAL Image: constraint of the second secon | | | | - | - | | | | |
| 08210307P Digital and Hardware Laboratory 0 0 3 2 50 50 100 08210308P Data Structures Laboratory 0 0 3 2 50 50 100 08210309P Advanced C & C++ Laboratory 0 0 3 2 50 50 100 08210310P Career Competency Development I 0 0 0 2 0 100 00 100 08210310P Career Competency Development I 0 0 0 2 0 100 00 100 08210400E Career Course Name Hours / Week Credit Maximum Marks Course Code Course Name I P C CA ES Total 08210401C Probability and Statistics 3 1 0 4 50 50 100 08210402C Software Engineering 3 0 0 3 50 50 100 08210403C | 08210306C | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210308P Data Structures Laboratory 0 0 3 2 50 50 100 08210309P Advanced C & C++ Laboratory 0 0 3 2 50 50 100 08210310P Career Competency Development I 0 0 2 0 100 00 100 Total 18 03 11 27 1000 100 Course Course Name Hours / Week Credit Maximum Marks Code Course Name Hours / Week Credit Maximum Marks 08210401C Probability and Statistics 3 1 0 4 50 50 100 08210402C Software Engineering 3 0 0 3 50 50 100 08210404C Java Programming 3 0 0 3 50 50 100 08210404C Java Programming 3 0 0 3 50 50 100 | | | | | | | | | |
| 08210309P Advanced C & C++ Laboratory 0 0 3 2 50 50 100 08210310P Career Competency Development I 0 0 2 0 100 00 100 | | | - | - | | | | | |
| 08210310P Career Competency Development I 0 0 2 0 100 00 100 Total 18 03 11 27 1000 5 Semester IV Course Code Course Name Hours / Week Credit Maximum Marks 08210401C Probability and Statistics 3 1 0 4 50 50 100 08210402C Software Engineering 3 0 0 3 50 50 100 08210402C Software Engineering 3 0 0 3 50 50 100 08210403C Information Coding Techniques 3 0 0 3 50 50 100 08210404C Java Programming 3 0 0 3 50 50 100 08210406C Microprocessors and Microcontrollers 3 0 0 3 50 50 100 08210407P Java Programming Laborato | | , | | | - | | | | |
| OB210310P Development I | 08210309P | | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Semester IV Course Code Course Name Hours / Week Credit Maximum Marks 08210401C THEORY I P C CA ES Total 08210401C Probability and Statistics 3 1 0 4 50 50 100 08210402C Software Engineering 3 0 0 3 50 50 100 08210403C Information Coding Techniques 3 0 0 3 50 50 100 08210404C Java Programming 3 0 0 3 50 50 100 08210405S Digital Signal Processing (Common to CSE, IT) 3 1 0 4 50 50 100 08210406C Microprocessors and Microcontrollers 3 0 0 3 2 50 50 100 08210400F Java Programming Laboratory 0 0 3 2 50 50 100 <tr< td=""><td>08210310P</td><td></td><td>0</td><td>0</td><td>2</td><td>0</td><td>100</td><td>00</td><td>100</td></tr<> | 08210310P | | 0 | 0 | 2 | 0 | 100 | 00 | 100 |
| Course Code Course Name Hours / Week Credit Maximum Marks THEORY T P C CA ES Total 08210401C Probability and Statistics 3 1 0 4 50 50 100 08210402C Software Engineering 3 0 0 3 50 50 100 08210403C Information Coding Techniques 3 0 0 3 50 50 100 08210404C Java Programming 3 0 0 3 50 50 100 08210405S Digital Signal Processing (Common to CSE, IT) 3 1 0 4 50 50 100 08210406C Microprocessors and Microcontrollers 3 0 0 3 50 50 100 08210406C Microprocessors and Microcontrollers 3 0 0 3 2 50 50 100 08210408P Digital Signal Processing Laboratory< | | Total | | | 11 | 27 | | 1000 | |
| Code Course Name L T P C CA ES Total THEORY Image: Course Name Image: Course | | | Semes | ter IV | | | | | |
| Code L T P C CA ES Total THEORY - | | Course Name | He | ours / W | eek | Credit | Ma | ximum Ma | arks |
| 08210401C Probability and Statistics 3 1 0 4 50 50 100 08210402C Software Engineering 3 0 0 3 50 50 100 08210402C Software Engineering 3 0 0 3 50 50 100 08210403C Information Coding Techniques 3 0 0 3 50 50 100 08210404C Java Programming 3 0 0 3 50 50 100 08210405S Digital Signal Processing (Common to CSE, IT) 3 1 0 4 50 50 100 08210406C Microprocessors and Microcontrollers 3 0 0 3 50 50 100 08210407P Java Programming Laboratory 0 0 3 2 50 50 100 08210408P Digital Signal Processing Laboratory 0 0 3 2 50 50 <td< td=""><td>Code</td><td></td><td>L</td><td>Т</td><td>Р</td><td>С</td><td>CA</td><td>ES</td><td>Total</td></td<> | Code | | L | Т | Р | С | CA | ES | Total |
| 08210402C Software Engineering 3 0 0 3 50 50 100 08210403C Information Coding Techniques 3 0 0 3 50 50 100 08210404C Java Programming 3 0 0 3 50 50 100 08210404C Java Programming 3 0 0 3 50 50 100 08210405S Digital Signal Processing (Common to CSE, IT) 3 1 0 4 50 50 100 08210406C Microprocessors and Microcontrollers 3 0 0 3 50 50 100 08210407P Java Programming Laboratory 0 0 3 2 50 50 100 08210408P Digital Signal Processing Laboratory 0 0 3 2 50 50 100 08210409P Microprocessors and Microcontrollers Laboratory 0 0 3 2 50 50 | | | | | | | | | |
| 08210403C Information Coding Techniques 3 0 0 3 50 50 100 08210404C Java Programming 3 0 0 3 50 50 100 08210404C Java Programming 3 0 0 3 50 50 100 08210405S Digital Signal Processing (Common to CSE, IT) 3 1 0 4 50 50 100 08210406C Microprocessors and Microcontrollers 3 0 0 3 50 50 100 08210406C Microprocessors and Microcontrollers 3 0 0 3 50 50 100 08210407P Java Programming Laboratory 0 0 3 2 50 50 100 08210408P Digital Signal Processing Laboratory 0 0 3 2 50 50 100 08210409P Microprocessors and Microcontrollers Laboratory 0 0 3 2 50 <td></td> <td></td> <td></td> <td>1</td> <td>0</td> <td></td> <td>50</td> <td>50</td> <td>100</td> | | | | 1 | 0 | | 50 | 50 | 100 |
| 08210404C Java Programming 3 0 0 3 50 50 100 08210405S Digital Signal Processing (Common to CSE, IT) 3 1 0 4 50 50 100 08210406C Microprocessors and Microcontrollers 3 0 0 3 50 50 100 08210406C Microprocessors and Microcontrollers 3 0 0 3 50 50 100 08210407P Java Programming Laboratory 0 0 3 2 50 50 100 08210407P Java Programming Laboratory 0 0 3 2 50 50 100 08210408P Digital Signal Processing Laboratory 0 0 3 2 50 50 100 08210409P Microprocessors and Microcontrollers Laboratory 0 0 3 2 50 50 100 08210410P Career Competency Development II 0 0 2 0 | | | | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210405S Digital Signal Processing (Common to CSE, IT) 3 1 0 4 50 50 100 08210406C Microprocessors and Microcontrollers 3 0 0 3 50 50 100 08210406C Microprocessors and Microcontrollers 3 0 0 3 50 50 100 08210407P Java Programming Laboratory 0 0 3 2 50 50 100 08210407P Java Programming Laboratory 0 0 3 2 50 50 100 08210408P Digital Signal Processing Laboratory 0 0 3 2 50 50 100 08210409P Microprocessors and Microcontrollers Laboratory 0 0 3 2 50 50 100 08210409P Career Competency Development II 0 0 2 0 100 00 100 | | C . | | | 0 | | 50 | 50 | 100 |
| 08210405S (Common to CSE, IT) 3 1 0 4 50 50 100 08210406C Microprocessors and Microcontrollers 3 0 0 3 50 50 100 08210406C Microprocessors and Microcontrollers 3 0 0 3 50 50 100 08210407P Java Programming Laboratory 0 0 3 2 50 50 100 08210407P Java Programming Laboratory 0 0 3 2 50 50 100 08210408P Digital Signal Processing Laboratory 0 0 3 2 50 50 100 08210409P Microprocessors and Microcontrollers Laboratory 0 0 3 2 50 50 100 08210410P Career Competency Development II 0 0 2 0 100 00 100 | 08210404C | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210400C Microcontrollers 3 0 0 3 30 30 30 100 08210400P Java Programming Laboratory 0 0 3 2 50 50 100 08210407P Java Programming Laboratory 0 0 3 2 50 50 100 08210408P Digital Signal Processing Laboratory 0 0 3 2 50 50 100 08210409P Microprocessors and Microcontrollers Laboratory 0 0 3 2 50 50 100 08210409P Career Competency Development II 0 0 2 0 100 00 100 | 08210405S | (Common to CSE, IT) | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| 08210407P Java Programming Laboratory 0 0 3 2 50 50 100 08210408P Digital Signal Processing Laboratory 0 0 0 3 2 50 50 100 08210408P Digital Signal Processing Laboratory 0 0 3 2 50 50 100 08210409P Microprocessors and Microcontrollers Laboratory 0 0 3 2 50 50 100 08210410P Career Competency Development II 0 0 2 0 100 00 100 | 08210406C | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210408PDigital Signal Processing Laboratory0032505010008210409PMicroprocessors and Microcontrollers Laboratory0032505010008210410PCareer Competency Development II002010000100 | | PRACTICAL | | | | | | | |
| 08210408P Laboratory 0 0 0 3 2 50 50 100 08210409P Microprocessors and Microcontrollers Laboratory 0 0 3 2 50 50 100 08210409P Microprocessors and Microcontrollers Laboratory 0 0 3 2 50 50 100 08210410P Career Competency Development II 0 0 2 0 100 00 100 | 08210407P | Java Programming Laboratory | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210409PMicrocontrollers Laboratory0032505010008210410PCareer Competency Development II002010000100 | 08210408P | Laboratory | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210410P Career Competency Development 0 0 2 0 100 00 100 | 08210409P | Microprocessors and | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Total 18 02 11 26 1000 | 08210410P | Career Competency Developmen | t 0 | 0 | 2 | 0 | 100 | 00 | 100 |
| | | Total | 18 | 02 | 11 | 26 | | 1000 | |

| | K.S.Rangasamy College | of Techn | ology, 1 | Firucher | ngode – 6: | 37 215 | | |
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| | Curriculum for the Pro | grammes | under A | Autonom | ous Schen | ne | | |
| Regulation | R 2008 | - | | | | | | |
| Department | B.Tech. Inf | ormation | Technol | ogy | | | | |
| Programme C | Code & Name 21: B.Tech | . Informat | tion Tecl | nnology | | | | |
| | | Semes | ter V | | | | | |
| Course | | Ho | ours / W | eek | Credit | Ma | ximum Ma | arks |
| Code | Course Name | L | Т | Р | С | CA | ES | Total |
| | THEORY | | | | | | | |
| 08210501G | Professional Ethics | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210502C | Object Oriented Analysis and Design | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210503C | Operating Systems | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| 08210504C | Computer Networks | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| 08210505S | Database Management Systems (Common to CSE and IT) | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| 08210506C | Telecommunication Systems | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| | PRACTICAL | | | | | | | |
| 08210507P | Case Tools Laboratory | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210508P | Operating System and Open Source Laboratory | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210509P | Database Management Systems Laboratory | ° 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210510P | Career Competency Development III | 0 | 0 | 2 | 0 | 100 | 00 | 100 |
| | Total | 18 | 03 | 11 | 27 | | 1000 | |
| | | Semest | ter VI | | | | | |
| Course | Course Name | Ho | ours / W | eek | Credit | Ma | ximum Ma | arks |
| Code | Course Name | L | Т | Р | С | CA | ES | Total |
| | THEORY | | | | | | | |
| 08210601G | Principles of Management | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210602S | Numerical Methods (Common to CSE and IT) | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| 08210603C | TCP / IP and Socket Programming | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210604C | Visual Programming | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| 08210605C | Web Technology | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| 082106**E | Elective I | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| | PRACTICAL | | | | | | | |
| 08210607P | Visual Programming Laboratory | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210608P | Network Laboratory | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210609P | Design Project | 0 | 0 | 3 | 2 | 100 | 00 | 100 |
| | Career Competency | | | 1 | I | | | 1 |
| 08210610P | Development IV | 0 | 0 | 2 | 0 | 100 | 00 | 100 |

| | K.S.Rangasa | my College | of Techr | nology, | Tiruche | ngode – 63 | 7 215 | | |
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| Regulation | | R 2008 | | | | | | | |
| Department | | Department | of B.Tec | h. Inforn | nation Te | echnology | | | |
| Programme C | ode & Name | 21: B.Tech. | Informati | ion Tech | nology | | | | |
| | | | Semes | ter VII | | | | | |
| Course | Course Na | | Hours / Week Credit | | | | Maximum Marks | | |
| Code | Course Na | ime | L | Т | Р | С | CA | ES | Total |
| | THEORY | | | | | | | | |
| 08210701G | Total Quality Mana | gement | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210702C | Component Based | Technology | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| 08210703C | Mobile Computing | | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| 08210704C | Graphics and Multi | media | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| 082107**E | Elective II | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 082107**E | Elective III | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| | PRACTICAL | | | | | | | | |
| 08210707P | Software Compone Laboratory | | 0 | 0 | 3 | 2 | 50 50 | | 100 |
| 08210708P | Graphics and Multi Laboratory | media | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210709P | Project Work - Pha | se l | 0 | 0 | 4 | 2 | 100 | 00 | 100 |
| 08210710P | Career Competenc Development V | У | 0 | 0 | 2 | 0 | 100 | 00 | 100 |
| | Total | | 18 | 03 | 11 | 27 | | 1000 | |
| | | | Semest | er VIII | | | | | |
| Course | Course Na | me | Ho | ours / We | ek | Credit | Ma | aximum N | larks |
| Code | | une | L | Т | Р | С | CA | ES | Total |
| | THEORY | | | | | | | | |
| 08210801C | System Software | | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| 082108**E | Elective IV | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 082108**E | Elective V | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| | PRACTICAL | | | | | | | | |
| 08210804P | Project Work - Pha | se II | 0 | 0 | 20 | 10 | 50 | 50 | 100 |
| | Total | | 09 | 01 | 20 | 20 | | 400 | |

| | K.S.Rangasa | my College o | f Techno | ology, T | iruchen | gode – 63 | 37 215 | | |
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| | Curriculu | m for the Prog | rammes | under A | utonomo | ous Schem | ne | | |
| Regulation | | R 2008 | | | | | | | |
| Department | | Department o | f Informa | ation Teo | chnology | / | | | |
| Programme Co | ode & Name | 21: B.Tech. In | formatio | n Techn | ology | | | | |
| Course | 0 | | Ho | ours / We | ek | Credit | Ma | ximum Ma | arks |
| Code | Course N | ame | L | Т | Р | С | CA | ES | Total |
| | | | Electiv | ve I | | | | | |
| 08210641E | Compiler Design | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210642E | Discrete Mathema | tics | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210643E | Embedded System | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210644E | Software Quality N | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210645E | Cryptography and Security | Network | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210646E | Advanced Java Pr | ogramming | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210647E | Fundamentals of I | Т | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| | | | Electiv | e II | | | | | |
| 08210751E | Client / Server Co | mputing | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210752E | Distributed Compu | ıting | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210753E | Grid Computing | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210754E | High Performance | Networks | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210755E | IT Essentials | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| | | | Elective | e III | | | | | |
| 08210761E | Cloud Computing | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210762E | C# and .Net | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210763E | Cyber Laws and Ir Property Rights | ntellectual | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210764E | 3G Wireless Netw | orks | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| | | | Elective | e IV | | | | | |
| 08210871E | Information Syster | n Design | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210872E | User Interface Des | sign | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210873E | Software Testing | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210874E | Digital Image Proc | essing | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| | | | Electiv | e V | | | | | |
| 08210881E | Data Warehousing | and Mining | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| | | | | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210882E | E-Commerce | | 3 | 0 | 0 | 3 | 50 | 30 | 100 |
| 08210882E 08210883E | E-Commerce Open Source Arch | itecture | 3 | 0 | 0 | 3 | 50 | 50 | 100 |

| K.S.Ra | angasamy College of Te | chnology - | - Autono | omous | Regul | ation | | R 20 | 800 |
|---|---|---|--------------------------------------|----------------------------------|-------------------------------------|---|----------------------------------|-------------------------------------|--|
| Department | Information Technology | Progra | mme Co | de & N | ame | In | | B.Tech. n Techno | ology |
| | | S | Semestei | r I | | | | | |
| Course Code | Course Name | | Hou | rs/We | ek | Credit | М | aximum l | Marks |
| Course Coue | | | L | Т | Р | С | CA | ES | Total |
| TECHNICAL ENGLISH (Common to all B.E./B.Tech.30035050100programmes)To help learners improve their vocabulary and to enable them to use words appropriately | | | | | | | | | |
| Objective(s) | To help learners impro- different academic and functions of Technical I reading texts, help lear career related situations | d professio English, he ners acquir | nal cont Ip learne re the at | texts, f ers dev pility to | amiliar elop s speak | ize learne trategies th c effectively | rs with nat could / in Eng | different be ado lish in re | rhetorica pted while al-life and |
| 1 GRAMM | AR AND VOCABULARY | | | | | otal Hrs | | 9 | |
| compounds – a British and Am 2 LISTENI Extensive liste listening for sp | of conditionals – comp articles – use of prepositi erican vocabulary. NG ning – listening for gene pecific information: retriev ion, attitude, etc. – globa | ons - phras | sal verbs t – lister al inform | ning to ation - | monly To fill up | mispronou tal Hrs gapped te ing to iden | exts – ir | 9 ntensive c, contex | elt words – listening – t, function, |
| | ote-taking: guided and un | | | | | tal Hrs | | 9 | |
| oral practice - | | - introducin | ng onese | elf – as | king fo ing op | or or elicitir | ng inforn | nation - | describing |
| Exposure to d skimming the Identifying lexinote-making – | ifferent reading techniqu text – identifying the top cal and contextual meani understanding discourse | oic sentenc ngs – readi | e and it ing for st | s role i ructure | globa in eac and d f sente | l meaning h paragrap etail – tran ences. | oh – sca | cting the anning – nformatic | inferring , |
| (topic sentence sequencing co formal letter w works in indust | o the characteristics of te e and its role, unity, cohe nnectives) – comparison riting (letter to the editor ries) – editing (punctuation | erence and and contras , letter for s | use of c st – clas seeking | ohesive sifying practica | nitions e expre the dat | essions) – ta – analyz | process ing / inte | descripti erpreting undertaki | on (use of the data - |
| Total hours to | be taught | | | | | | | 45 | |
| Text book (s) : | | | | | | Toto McG | rawhil P | ublishina | |
| Ltd., Nev | Ashraf, "Effective Techni w Delhi, 2005. | cal Commu | unication | ", 1 st E | dition, | | | | Company |
| Ltd., Nev Reference(s) : | w Delhi, 2005. | | | | | | | | |
| Ltd., New Reference(s) : 1 Dr.M.Ba Kumbak | v Delhi, 2005. Iasubraminian and Dr. onan, 2007. | G.Anbalaga | an, "Pe | rformar | nce ir | n English' | ' Anura | adha Pu | blications |
| Ltd., New Reference(s) : Dr.M.Ba Kumbak 2 Sharon Educatio | w Delhi, 2005. Iasubraminian and Dr. | G.Anbalaga erson, "Tec ew Delhi, 20 | an, "Pe chinical V 204. | rformar Vriting | nce ir – Proc | n English' cess & Pro | ' Anura | adha Pu ^{ra} Editior | iblications |

| K.S.Ran | gasamy College of Techno | ology - Au | itonor | nous | Regulatio | n | | R 200 | 8 |
|---|--|--------------------------------------|--------------------------|-------------------|--------------------------|---------------------------|---------------------|-----------------------|-----------------------|
| Department | Information Technology | Progra | amme | Code | & Name | In | | B.Tech. n Technc | logy |
| | | Seme | ester I | | | | | | |
| Course Code | Course Name | | H | ours / | Week | Credi t | Ma | ximum M | arks |
| | | | L | Т | Р | С | CA | ES | Total |
| 08210102G | ENGINEERING MATHEM/ (Common to all B.E./B.Tec programmes) | h. | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| Objective(s) | The course is aimed at dev are imperative for effective serve as basic tools for sp mechanics, field theory and | understa becialized | nding studie | of eng es in n | jineering s nany engi | subjects. | The topi | cs introdu | uced will |
| I MATRICE | S | | | | Tota | l Hrs | | 12 | |
| values and Eigen theorem (without transformation of orthogonal transfo | | Properties ormation gonal form | of eig (conc n – R | jen va ept o | lues and o nly) – Or | eigenvec thogona | tors – C matrice | ayley – ł es – Ort | lamilton hogonal |
| CALCULU | | | | | | l Hrs | | 12 | |
| | esian and polar co-ordinates | | | | | | | | nvolutes |
| | velopes – Properties of enve NS OF SEVERAL VARIABLE | | a evoi | utes – | | <u>s enveio</u> Il Hrs | be of nor | mais 12 | |
| | variables – Partial derivatives | | differe | ntial – | | - | l na – Cor | | maxima |
| | range's multiplier method – | | | | | | | | |
| 4 ORDINAR | Y DIFFERENTIAL EQUATIO | ONS | | | Tota | l Hrs | | 12 | |
| e^{ax} , \mathbf{x}^n $n > 0$, S | I equations of Second an $\sin ax$, $\cos ax$, $e^{ax}x^n$, e^{ax} riable coefficients (Cauchy's | Sinβx, e | ^{ox} Co | sβx, x | x^n Sin αx | and \mathbf{x}^{n} | | | R.H.S is ferential |
| | NTIAL EQUATIONS AND ITS | | | | | l Hrs | | 12 | |
| Solution of speci harmonic motion | t order linear equations wit ified differential equations of (Differential equations and as | connected | l with | electi | ric circuits | s, bendir | | ams and | |
| Total hours to be | taught | | | | | | | 60 | |
| Text book (s) : | | | | | | | | | |
| Company I | l. T., "Engineering Mathemat _imited, New Delhi, 2005. | tics (for fi | rst yea | ar)", F | ourth Edit | ion, Tata | McGrav | v- Hill Pu | ıblishing |
| Reference(s) : | | | | | | | | | |
| S.Chand a | y. P, Thilagavathy. K and (nd Co. – New Delhi 2007. | | • | 0 | • | | | | |
| | S., "Higher Engineering Math | | • | • | | | | | |
| Singapore | | | | - | | - | | | |
| | man.M.K, "Engineering Math ub. Co., Chennai, 2004. | nematics, | Volum | nel& | II Revise | d Enlarg | ed", Fou | irth Editio | on", The |

| K.S.Rang | asamy College of Techr | nology | - Autor | nomou | is Regula | tion | | R 20 | 08 |
|--|--|--|--|--|---|---|--|---|--|
| Department | Information | Pro | ogramm | | e & | | 21: B. | | |
| | Technology | | Na | | | Inforr | nation | Fechnolo | gy |
| | | 3 | emeste | | A/ I | O | | | |
| Course Code | Course Name | | | ours / \ | 1 | Credit | | aximum I | |
| | APPLIED PHYSICS | | L | Т | P | С | CA | ES | Total |
| 08210103G | 3210103G (Common to all B.E./B.Tech. 3 0 0 3 rogrammes) | | | | | | | | 100 |
| Objective(s) Design of acoustically good buildings, Structural identification of engineering materials Non destructive Techniques, Application of Quantum Physics and Application of Lasers Engineering and Technology. | | | | | | | | | |
| I LASERS | | - 07 | | | Tot | al Hrs | | 9 | |
| Types of Lasers Microelectronics, W 2 FIBER OPTIC | ciples of spontaneous em s:He-Ne,CO ₂ ,Nd-YAG,Rut /elding, Heat Treatment a CS AND APPLICATIONS | by La nd Cutt | sers, ting-Hol | Semico ograph | onductor iy. Tot | Laser- A | Applicati | ons: La | asers in |
| index and modes of optical Communication | of Propagation-Crucible-C of propagation-Splicing-Lo ation Links-Fiber optic Ser | osses ir nsors: T | n Optica | l fiber- | Light Sou | urces for fib | re optic | s-Detect | |
| 3 QUANTUM P | HYSICS AND APPLICAT | | | | Tot | al Hrs | | 9 | oortointy |
| 3 QUANTUM P Introduction to qu principle and its Schrodinger's equa Scanning electron | antum theory-Dual Natu applications-Compton e ation (Time dependent a microscope. | ure of effect-E | Matter xpressi | and I on for | Tot Radiation r Comptont) - Part | al Hrs -De-Broglie on Shift-Ea ticle in a b | wavel xperime | 9 ength-Ur ntal Ve tron mic | rification- |
| 3 QUANTUM P Introduction to qu principle and its Schrodinger's equa Scanning electron i 4 ULTRASONI | antum theory-Dual Natu applications-Compton e ation (Time dependent a microscope. CS | ure of effect-E and Tin | Matter xpressione inde | and I on for pender | Tot Radiation r Compto nt) - Part Tot | al Hrs -De-Broglie on Shift-E: ticle in a b al Hrs | wavel kperime ox-Elec | 9 ength-Ur ntal Ve tron mic 9 | rification- croscope- |
| 3 QUANTUM P Introduction to qu principle and its Schrodinger's equa Scanning electron in 4 ULTRASONIC Introduction of Ultr effect, Piezoelectri drilling, welding, so Resonance system | antum theory-Dual Natu applications-Compton e ation (Time dependent a microscope. CS rasonic Waves - Magneto c generator-Detection of Idering and cleaning- Non | ure of effect-E and Tin ostrictic | Matter Expression on ende on effectonic wa | and I on for pender t, Mag aves-P | Tot. Radiation r Comptont) - Part netostrict roperties- Pulse ech | al Hrs -De-Broglie on Shift-Ex ticle in a b al Hrs al Hrs ion genera - Cavitatior o system, T | wavel xperime ox-Elec tor, Inve | 9 ength-Ur ntal Ve ttron mic 9 erse piez strial Ap transmis | rification- croscope- zoelectric plications |
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| Depart | ment | Information Technology | Prog | gramme | e Coo | de & Nar | ne | Infor | 21: B.T mation T | ech. echnology |
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| Course | Codo | Course Name | | Hou | ırs / V | Veek | Credit | | Maxim | um Marks |
| Course | Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 082101 | 104G | APPLIED CHEMISTRY (Common to all B.E./B.Teo programmes) | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objecti | | The student should be cc and its inhibition treatmen devices knowledge with re | nt of w | vater fo | or ind | ustrial p d combu | urposes a stion polyr | nd the | concept | of energy storage |
| 1 WA | ATER T | REATMENT | | | | Tota | al Hrs | | | 9 |
| Water- caustic deminer | Hardne embrit ralizatio | r, acidity, alkalinity, nitroge ess- Estimation of hardnes tlement, priming and form on – desalination – electro d O CHEMISTRY | is by ning- | EDTA softer | meth ning | nod- Boi of water se osmos | ler feed v r- lime so | vater- s | scale form | nation, corrosion |
| | | al cells – reversible and irre | | | | | | | المتعامة المتعاد | • |
| batteries 3 CO | s.)RROS | ectrochemical series – signi | | | otenti | | titrations - | - Batter | ies – Lea | |
| aeration | n – gran | Electrochemical and chemica nular - pitting – corrosion co tings – Preliminary treatm | al – N ontrol | lechan – Sacr | ificial | - corrosic anode a | on reaction and Impres | ssed cu | irrent met | thod – Inhibitors – |
| aeration Protectiv | n – gran ve coa | | al – N ontrol | lechan – Sacr | ificial | - corrosic anode a | on reaction and Impres | ssed cu | irrent met | osion – differentia thod – Inhibitors - |
| aeration Protectiv <u>function</u> 4 FU | n – gran ve coa <u>s – me</u> ELS AN | nular - pitting – corrosion co tings – Preliminary treatm chanism of drying. ND COMBUSTION | al – N ontrol nent - | 1echan – Sacr – Elect | ificial ropla | - corrosic anode a ting (Cr Tota | on reactior and Impres & Ni) – al Hrs | ssed cu Paints | irrent met – Cons | osion – differentia thod – Inhibitors - tituents and thei 9 |
| aeration Protectin function 4 FU Fuels – Coal – p and poly octane r | n – gran ve coa <u>s – me</u> ELS AN Calorifi proxima ymer p | nular - pitting – corrosion co tings – Preliminary treatm chanism of drying. ND COMBUSTION ic values – Gross and Net - ate and ultimate analysis – etrol – Synthetic petrol – F by additives – Diesel – Cet | al – N ontrol hent - - The their i Fisher | lechan – Sacr – Elect oretica importa r- Trop | ificial ropla l air f ince - sch a | - corrosic anode a ting (Cr Tota or comb – metallu and Berg ater gas | on reactior and Impres & Ni) – al Hrs ustion – fl urgical cok gius metho | ssed cu Paints ue gas te – Pe od – O | analysis ctane nur | osion – differentia thod – Inhibitors - tituents and thei 9 – Orsat method - aight run, cracked |
| aeration Protectin function 4 FU Fuels – Coal – p and poly octane r 5 PO Polymer Nylon6- Compou Total ho | a – gran ve coa <u>s – me</u> ELS AN Calorifio proxima ymer p humber hLYMEF r struct rization 6, Bak unding a purs to t | nular - pitting – corrosion co tings – Preliminary treatm chanism of drying. ND COMBUSTION ic values – Gross and Net - ate and ultimate analysis – etrol – Synthetic petrol – F by additives – Diesel – Cet | al – M ontrol nent – The their i Fisher tane r ymeriz al pol Polyu | lechan – Sacr – Elect oretica importa r- Trop number zation ymers urethan | ificial ropla I air f ince - sch a - W - typ - Po e - | - corrosic anode a ting (Cr Tota or comb – metallu and Berg ater gas Tota es – me olyethyle Structu | on reaction and Impres & Ni) – al Hrs ustion – fl urgical cok jius metho producer al Hrs chanism (ne, Polyp re, Prepa | sed cu Paints ue gas e – Pe od – O gas an (free ra ropyler ration, | analysis analysis trol – Stra ctane nui d LPG. dical only ne, PVC, Properti | psion – differentia thod – Inhibitors – tituents and their 9 – Orsat method – aight run, cracked mber – improving 9 y) – co-ordinatior Teflon, Acrylics es and Uses – |
| aeration Protectivi function 4 FU Fuels – Coal – p and poly octane r 5 PO Polymer Nylon6- Compou Total ho Text boo | a – gran ve coa <u>s – mer</u> ELS AN Calorifi proxima ymer p humber phumber phumber phumber phumber phumber phumber phumber phumber phumber phumber phumber of a struct ization 6, Bak unding a phurs to b ok (s) : | nular - pitting – corrosion co tings – Preliminary treatm chanism of drying. ND COMBUSTION ic values – Gross and Net - ate and ultimate analysis – by additives – Diesel – Cer S ure – Nomenclature – Poly – mechanism – individua kelite, Polyester, Epoxy, and fabrication – Compress be taught | al – M ontrol hent - The their i Fisher tane r ymeriz al pol Polyu sion, li | lechan – Sacr – Elect oretica importa r- Trop number zation ymers urethan njectior | ificial ropla I air f nce - sch a - typ - typ - typ - typ - typ - typ | - corrosic anode a ting (Cr Tota or comb – metallu and Berg ater gas Tota es – me olyethyle Structur trusion a | on reaction and Impres & Ni) – al Hrs ustion – fl urgical cok gius metho , producer al Hrs chanism (ne, Polyp re, Prepa nd Blow m | ssed cu Paints ue gas e – Pe od – O gas an (free ra ropyler ration, noulding | analysis analysis trol – Stra ctane nut d LPG. dical only ne, PVC, Properti g– Foame | psion – differentia thod – Inhibitors – tituents and their 9 – Orsat method – aight run, cracked mber – improving 9 y) – co-ordinatior Teflon, Acrylics es and Uses – ed plastics. |
| aeration Protectiv function 4 FU Fuels – Coal – p and poly octane r 5 PO Polymer polymer Nylon6- Compou Total ho Text boo 1 A | a – gran ve coa s – me ELS AN Calorifi proxima ymer p number prumber r struct rization 6, Bak unding a burs to b ok (s) : | nular - pitting – corrosion co tings – Preliminary treatm chanism of drying. ND COMBUSTION ic values – Gross and Net - ate and ultimate analysis – etrol – Synthetic petrol – F by additives – Diesel – Cel RS ure – Nomenclature – Poly – mechanism – individua kelite, Polyester, Epoxy, and fabrication – Compress | al – M ontrol hent - The their i Fisher tane r ymeriz al pol Polyu sion, li | lechan – Sacr – Elect oretica importa r- Trop number zation ymers urethan njectior | ificial ropla I air f nce - sch a - typ - typ - typ - typ - typ - typ | - corrosic anode a ting (Cr Tota or comb – metallu and Berg ater gas Tota es – me olyethyle Structur trusion a | on reaction and Impres & Ni) – al Hrs ustion – fl urgical cok gius metho , producer al Hrs chanism (ne, Polyp re, Prepa nd Blow m | ssed cu Paints ue gas e – Pe od – O gas an (free ra ropyler ration, noulding | analysis analysis trol – Stra ctane nut d LPG. dical only ne, PVC, Properti g– Foame | psion – differentia thod – Inhibitors - tituents and thei 9 – Orsat method - aight run, cracked mber – improving 9 y) – co-ordinatior Teflon, Acrylics es and Uses - ed plastics. 45 |
| aeration Protectiv function 4 FU Fuels – Coal – p and poly octane r 5 PO Polymer polymer Nylon6- Compou Total ho Text boo 1 / Referen | a – gran ve coa <u>s – me</u> ELS AN Calorifi proxima ymer p number pLYMEF r struct rization 6, Bak unding a purs to b ok (s) : Applied ice(s) : | Aular - pitting – corrosion co tings – Preliminary treatm chanism of drying. ND COMBUSTION ic values – Gross and Net - ate and ultimate analysis – tetrol – Synthetic petrol – F by additives – Diesel – Cet S ure – Nomenclature – Poly – mechanism – individua kelite, Polyester, Epoxy, and fabrication – Compress be taught Chemistry by R.Palanivelu, | al – M ontrol nent - - The their i Fisher tane r ymeriz al pol Polyu sion, li | lechan – Sacr – Elect oretica importa r- Trop number zation ymers yrethan njectior | ificial ropla I air f nnce - sch a sch a sch a - typ - typ - Pc e - y - Pc e - n, Ext | - corrosic anode a ting (Cr Tota or comb – metallu and Berg ater gas Tota es – me olyethyle Structur trusion a | on reaction and Impres & Ni) – al Hrs ustion – fl urgical cok gius metho ing producer al Hrs chanism (ne, Polyp re, Prepa nd Blow m a, K.Tamil | sed cu Paints ue gas ue gas e – Pe od – O gas an (free ra ropyler ration, noulding arasu a | analysis analysis trol – Stra ctane nur d LPG. dical only ne, PVC, Properti g– Foame | psion – differentia thod – Inhibitors - tituents and thei 9 – Orsat method - aight run, cracked mber – improving 9 y) – co-ordination Teflon, Acrylics es and Uses - ed plastics. 45 |
| aeration Protectivi function 4 FU Fuels – Coal – p and poly octane r 5 PO Polymer Nylon6- Compou Total ho Text boo 1 / Referen 1 J | a – gran ve coa <u>s – me</u> ELS AN Calorifi proxima ymer p humber pLYMEF r struct rization 6, Bak unding a purs to t ok (s) : Applied ice(s) : Jain P.0 2002. | Aular - pitting – corrosion co tings – Preliminary treatm chanism of drying. ND COMBUSTION ic values – Gross and Net - ate and ultimate analysis – etrol – Synthetic petrol – F by additives – Diesel – Cer RS ure – Nomenclature – Poly – mechanism – individua kelite, Polyester, Epoxy, and fabrication – Compress be taught Chemistry by R.Palanivelu, C. & Monica Jain, "Enginee | al – M ontrol nent - - The their i Fisher tane r ymeriz al pol Polyu sion, lu , R.Pa ring C | Aechan – Sacr – Elect oretica importa r- Trop number zation ymers urethan njectior arimala Chemis | ificial ropla I air f sch a sch a sch a sch a - W - W - W - W - Yp - Pc e – A , Ext m, B. | - corrosic anode a ting (Cr Tota or comb - metallu and Berg ater gas Tota es - me olyethyle Structur trusion a Srividhy | on reaction and Impres & Ni) – al Hrs ustion – fl urgical cok gius metho producer al Hrs chanism of ne, Polyp re, Prepa nd Blow m a, K.Tamil | sed cu Paints ue gas e – Pe od – O gas an ffree ra ropyler ration, noulding arasu a | analysis analysis trol – Stra ctane nut d LPG. dical only ne, PVC, Properti g– Foame and P.Pad | psion – differentia thod – Inhibitors - tituents and thei 9 – Orsat method - aight run, cracked mber – improving 9 y) – co-ordination Teflon, Acrylics es and Uses - ed plastics. 45 dmanaban |
| aeration Protectivi function 4 FU Fuels – Coal – p and poly octane r 5 PO Polymer polymer Nylon6- Compou Total ho Text boo 1 A Referen 1 2 2 0 | a – gran ve coa <u>s – mer</u> ELS AN Calorifi proxima ymer p humber phumbe | Aular - pitting – corrosion co tings – Preliminary treatm chanism of drying. ND COMBUSTION ic values – Gross and Net - ate and ultimate analysis – tetrol – Synthetic petrol – F by additives – Diesel – Cer RS ure – Nomenclature – Poly – mechanism – individua celite, Polyester, Epoxy, and fabrication – Compress be taught Chemistry by R.Palanivelu, C. & Monica Jain, "Enginee Sawyer and Perry L Mc Car | al – M ontrol nent - - The their i Fisher tane r ymeriz al pol Polyu sion, lu , R.Pa ring C | Aechan – Sacr – Elect oretica importa r- Trop number zation ymers urethan njectior arimala Chemis | ificial ropla I air f sch a sch a sch a sch a - W - W - W - W - Yp - Pc e – A , Ext m, B. | - corrosic anode a ting (Cr Tota or comb - metallu and Berg ater gas Tota es - me olyethyle Structur trusion a Srividhy | on reaction and Impres & Ni) – al Hrs ustion – fl urgical cok gius metho producer al Hrs chanism of ne, Polyp re, Prepa nd Blow m a, K.Tamil | sed cu Paints ue gas e – Pe od – O gas an ffree ra ropyler ration, noulding arasu a | analysis analysis trol – Stra ctane nut d LPG. dical only ne, PVC, Properti g– Foame and P.Pad | psion – differentia thod – Inhibitors - tituents and thei 9 – Orsat method - aight run, cracked mber – improving 9 y) – co-ordination Teflon, Acrylics es and Uses - ed plastics. 45 dmanaban |
| aeration Protectivi function 4 FU Fuels – Coal – p and poly octane r 5 PO Polymer polymer Nylon6- Compou Total ho Text boo 1 A Referen 1 2 2 0 | a – gran ve coa <u>s – mer</u> ELS AN Calorifi proxima ymer p humber pLYMEF r struct ization 6, Bak unding a burs to b ok (s) : Applied ice(s) : Jain P.C 2002. Clair N S Compar | Aular - pitting – corrosion co tings – Preliminary treatm chanism of drying. ND COMBUSTION ic values – Gross and Net - ate and ultimate analysis – etrol – Synthetic petrol – F by additives – Diesel – Cer RS ure – Nomenclature – Poly – mechanism – individua kelite, Polyester, Epoxy, and fabrication – Compress be taught Chemistry by R.Palanivelu, C. & Monica Jain, "Enginee | al – M pontrol nent - The their i Fisher tane r ymeriz al pol Polyu sion, lu non, lu ring C | Aechan – Sacr – Elect oretica importa r- Trop number zation ymers urethan njectior arimala Chemisti hemisti | ificial ropla I air f sch a - w - typ - Pc e - W - Pc e - R n, Ext | - corrosic anode a ting (Cr Tota or comb - metallu and Berg ater gas Tota es – me olyethyle Structur trusion a Srividhy | on reaction and Impres & Ni) – al Hrs ustion – fl urgical cok jius metho jius metho producer al Hrs chanism (ne, Polyp re, Prepa nd Blow m a, K.Tamil on, Dhanp mental En | ssed cu Paints ue gas e – Pe od – O gas an (free ra ropyler ration, noulding arasu a pat Rai | analysis analysis trol – Stra ctane nut d LPG. dical only ne, PVC, Properti g– Foame and P.Pad | psion – differentia thod – Inhibitors - tituents and thei 9 – Orsat method - aight run, cracked mber – improving 9 y) – co-ordination Teflon, Acrylics es and Uses - ed plastics. 45 dmanaban |

| K.S | Rangasamy College of Techn | ology - Au | tono | mous | Regul | ation | | R 20 | 008 |
|--|---|--|------------------------------------|--|-----------------|--|------------------------------|-------------------|---------------|
| Department | Information Technology | Progr | amm | e Code | e &Nar | ne | | 21: B.Tech | |
| • | | Semeste | | | | | Inioma | ation Tech | nology |
| | | Semesi | - | urs / W | ook | Credit | Ma | avimum M | arke |
| Course Code | Course Name | | | | C | CA | Maximum Mark | | |
| 08210105S | BASICS OF ELECTRICAL ENGINEERING (Common to CSE & IT) | 1 | 0 | 3 | 50 | 50 | 100 | | |
| Objective(s) | To improve the basic knowled understand the concepts of v electronic device. | arious elec | | | | | | | |
| 1 FUNDAI | MENTALS OF DC AND AC CIR | CUITS | | | | Total F | Irs | 12 | |
| Fundamentals AC circuits – Ir 2 FUNDAI Ohm's law of factor – fring | Mesh and Nodal analysis – S of AC circuits: RMS and Averag npedance, Power and Power Fa MENTALS OF MAGNETIC CIR magnetic circuit, Simple and ing effect – Simple problems. | e values o ctor – RL, F CUITS d compos Faraday | f sine RC, R ite n y's la | e wave, <u>RLC circ</u> nagneti aw of | c circ elect | Simple A Total H uits, Effe romagneti | C circuit Irs ct of ai | ts – proble 12 | ms leakage |
| | ed EMF – Statically and Dyna CHINES AND TRANSFORMERS | | lucec | EMF - | - Simp | Total F | 1 | 12 | |
| Characteristics Transformer: Instrumentation | Construction - EMF equati | | • | | | | pes of | | |
| Torque Charac | Induction Motor: Construction, teristics of Cage and wound rote nduction Motor: Principle of Oper | or. | | • | • | | Forque E | Equation – | Slip Vs |
| | SUPPLIES | | | | | Total F | Irs | 12 | |
| | nd Full Wave Rectifiers – SMPS and UPS | Bridge Re | ctifie | r – T | ypes | of filters | – Vo | ltage Reg | ulator – |
| Total hours to | be taught | | | | | | | 60 | |
| Reference (s) : | | | | | | | | | |
| 1 B.L.The | raja and A.K.Theraja, "Electrical | Technology | /", S.(| Chand | & Con | npany LTE | D, New I | Delhi, 2005 | 5. |
| | el, "Basic Electrical Engineering" | | | | | | | | |
| 3 V. Del 1 | oro, "Electrical Engineering Fu | Indamental | s", P | rentice | Hall | of India, | New D | elhi, 1993 | |

| K.S | Rangasamy College of Techn | ology - A | Auton | omou | s Regu | lation | | R 20 | 800 |
|--------------------------------|--|-----------|--------|---------|----------------------|------------|------------|--------------|-----------|
| Department | Information Technology | Pro | aramr | ne Co | de &Na | ame | | 21: B.Tech | |
| | | | • | | | | Informa | ation Tech | nology |
| | | Seme | | | | | | | |
| Course Code | Course Name | | | urs / V | Veek | Credit | | aximum Ma | arks |
| | BASICS OF ELECTRONICS | | L | Т | Р | С | CA | ES | Total |
| 08210106S | 3 | 50 | 50 | 100 | | | | | |
| Objective(s) | To have an overview of e combinational and sequential c | | | | | | | Oscillators, | study |
| 1 INTRO | DUCTION TO SEMICONDUCTO | ORS AND | DIOD | ES | | Total H | Irs | 12 | |
| Introduction : | Semiconductors - N-Type ar | nd P-Typ | e – | Major | ity and | Minority | Carriers | s – PN J | lunction |
| Characteristics Regulators. | For a strain of the strain | ower Sup | plies | – Re | ctifier - | Filters – | Voltage | Multiplier - | - Zener |
| 2 TRANS AMPLIF | ISTORS-INTRODUCTION TO S | MALL SI | GNAL | | | Total F | lrs | 12 | |
| | Transistor Characteristic Common Emitter Amplifie | | | | | | | | vitch – |
| | SIGNAL AMPLIFICATION - OS | | | | | Total H | | 12 | |
| | Amplifier classification – C and Relaxation Oscillators – | | 3, AB, | Са | nd Sw | itched Mo | de Ampl | ifiers – Os | cillators |
| | LLOGIC AND COMBINATION | | UITS | | | Total H | Irs | 12 | |
| Binary number | System and Codes - Basic Log | ic Gates | and Ti | uth T | ables – | Boolean A | Algebra | and De-M | organ's |
| | ogic Circuits – Sum of Proc Logic Networks – Digital Arithme | | | | | | | | |
| 5 SEQUE | ENTIAL LOGIC CIRCUITS | | | | | Total H | lrs | 12 | |
| | R Flip Flop, Clocked SR, Master counters – Synchronous and A | | | | | | | | pes of |
| Total hours to | • | | | | | | | 60 | |
| Reference (s) | | | | | | 1 | | | |
| 1 Charles | A Schuler, "Electronics Principle | es and Ap | plicat | ions", | 6 th edit | ion, McGra | aw Hill, 2 | 2003. | |
| | Alvino, David J Bates, "Electron | • | • | | | | | | |
| | m Kal, "Basic Electronics", PHI, 2 | | - , - | - | - , - | , | | | |
| | | | | | | | | | |

| K.S | Rangasamy College of Techn | nology - A | Autono | mou | s Reg | ulation | | R 20 | 800 |
|--|--|---|---|--|---|---|-------------------------------|--|-------|
| Department | Information Technology | Progra | mme C | Code | &Nam | ne In | | .Tech. Technol | ogy |
| | | Seme | ster I | | | | | Imation Technology Maximum Ma CA ES 50 50 a's in optics, accations, determined | |
| Course Code | Course Name | | Hour | s / W | eek | Credit | Max | kimum M | arks |
| Course Code | Course Name | | L | Т | Ρ | С | CA | ES | Total |
| 08210107P | APPLIED PHYSICS LABORA | TORY | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Objective(s) | material science and prope fundamental constants like ac of bad conductor etc., | | | | | | | | |
| LIST OF E | XPERIMENTS | | | | | | | | |
| Detern | nination of rigidity modulus of a winination of Young's modulus of the nination of Young's modulus of the nination of Viscosity of liquid by I nination of acceleration due to granination of wavelength of mercurnination of thickness of fiber by Anination of velocity of ultrasonic winination of band gap energy of a nination of radius of curvature of nination of thermal conductivity of the set of | he materia he materia Poiseuille ravity by c ry spectru Air-wedge sing gratii waves and semicono a Plano c | al of a u al of a u 's meth compou m by S metho ng and d comp ductor. convex | unifor unifor nod. und (t pectro parti pressione | rm bar rm bar oar) pe comete cle siz bility u by Ne | by uniform endulum. er grating. e determina using ultraso wton rings r | bending tion nic interf | method. erometer | |
| Detern | nination of rigidity modulus of a winination of Young's modulus of the nination of Young's modulus of the nination of Viscosity of liquid by I nination of acceleration due to granination of wavelength of mercurnination of thickness of fiber by Anination of velocity of ultrasonic winination of band gap energy of a nination of radius of curvature of nination of thermal conductivity of the set of | he materia he materia Poiseuille ravity by c ry spectru Air-wedge sing gratii waves and semicono a Plano c | al of a u al of a u 's meth compou m by S metho ng and d comp ductor. convex | unifor unifor nod. und (t pectro parti pressione | rm bar rm bar oar) pe comete cle siz bility u by Ne | by uniform endulum. er grating. e determina using ultraso wton rings r | bending tion nic interf | method. erometer | |

| K.S | Rangasamy College of Tech | nology - Aut | tonom | nous I | Regula | ation | | | R 2 | 800 |
|--|---|--|--------|---------|--------|---------|--------|-------------------|---------------------|---------|
| Department | Information Technology | Program | ime C | ode & | Name | | Inf | 21: E ormatior | 3.Tech. n Techno | ology |
| | | Semeste | r I | | | | | | | |
| Course Code | Course Name | | | irs / W | /eek | Cre | dit | Max | imum M | arks |
| Course Code | Course Name | | L | Т | Р | C | ; | CA | ES | Total |
| 08210108P | ELECTRICAL ENGINEERIN LABORATORY | G | 0 | 0 | 3 | 2 | | 50 | 50 | 100 |
| Objective(s) | To import the practical know applications of Electrical and | | | | and e | lectror | nics d | devices, | underst | and the |
| Verifica Measur Open C Load Te Load Te Load Te Load Te Single F Study of | EXPERIMENTS tion of Ohm's law and Kirchho ement of Power and Impedance ircuit and Load Characteristics est on DC Shunt motor est on Single Phase Transform est on Single Phase and Three Phase Half Wave Full Wave Re f Passive Filters | ce in RL, RC a s of Separatel ner e Phase Induc | y Exci | ited D | | nerator | r | | | |
| | f Voltage Regulator Circuits f SMPS and UPS | | | | | | | | | |

| n., | S.Rangasamy College of Techr | ology - Auto | onomo | ous R | egula | tion | | R 2 | 800 |
|---|---|--|--------------------------------------|--------------------|------------------|--------------------------|------------------------|--|------------------|
| Department | Information Technology | Program | me Co | ode & | Name | Inf | | | ology |
| | | Semester I | | | | | | | |
| Course Code | Course Name | | Hou | rs / W | 'eek | Credit | Maxi | : B.Tech. ion Techn aximum M A ES) 50 semi corn volving d amplifiers | arks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Tota |
| 08210109P | ELECTRONICS ENGINEERING | 3 | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Objective(s) | To obtain and study the char devices, obtain the performan components, study the applicat and implement the combination | ce parameter | rs of ted ci | simple rcuit ti | e elec mers a | tronic circ and opera | uits invo tional am | lving d plifiers | iscret , stud |
| Forward Implem Input ar Frequer Observ power ar Implem Charac Relaxat Verifica Half additional | KPERIMENTS d and Reverse characteristics of entation of HW & FW Rectifier wind of Output characteristics of BJT in ncy response of Common Emitte ation of output waveform with cro amplifier entation of RC/LC Oscillator and teristics of UJT and SCR ion Oscillator using UJT tion of truth table or various TTL der, Full adder, Half subtractor ar entation and Verification of truth | th simple Cap n CE configu r Amplifier ss over disto study the wa Logic Gates nd Full subtra | ration ration u veforn ctor | r Filter | class E | | | ymmetr | у |

| K.S.R | angasamy College of Techno | logy - Ai | utono | mous | Regu | lation | | R 2 | 2008 |
|--|--|----------------|---------|---------|----------|------------|-------------------|---------------------|-----------|
| Department | Information Technology | Progra | amme | Code | &Nam | ie | 21: Informatio | B.Tech. on Techn | ology |
| | 1 | Semes | | | | | 1 | | |
| Course Code | Course Name | | | irs / W | | Credit | | ximum M | |
| | ENGINEERING PRACTICES | | L | Т | Р | С | CA | ES | Total |
| 08210110P | LABORATORY | | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Objective(s) | To provide exposure to the st practices in Mechanical Engin | | vith ha | nds o | n expe | erience on | various | basic en | gineering |
| LIST OF EXERC | DISES | | | | | | | | |
| Plumbing | | | | | | | | | |
| Cutting a Study of Measuri | i tools and equipments – prepar and Threading of G.I. Pipes f valves, taps and repairing. ng and marking practice of PVC | | | | ection | to service | line | | |
| Sheet Metal | | | | | | | | | |
| Drawing Differer | of Tools, Equipments and Safety g of tools and accessories nt types of joints making – knocł making –Trays, Baskets and Fu | ked up, c | | groov | ring joi | nts | | | |
| Electrical Wiring | | | | | | | | | |
| Study of Wiring c Wiring c | spects of Electrical wiring Electrical materials and wiring ircuit for a lamp using single and ircuit for fluorescent lamps ion of power and energy. | | | itches | | | | | |
| Welding and Sc | oldering | | | | | | | | |
| Study of Welding | spects of Welding and Soldering Gas and Arc Welding Equipme of Lap, Butt, T-joints & Corner of Small Electrical and Electro | ents Joints | uits | | | | | | |

| K.S.Rai | ngasamy College of Tech | nology - Autonor | nous | Regu | latior | | | R 2008 | 8 |
|---|---|--|---------------------|------------------|--------------------------|--|----------------------|-----------------------------|------------------------|
| Department | Information Technology | Programme Cod | e & N | ame | | | 21: B.Te ation Te | | ду |
| | | Semeste | r II | | | | | | |
| Course Code | Course N | ame | Ηοι | rs / W | /eek | Credit | Ma | ximum | Marks |
| | | | L | Т | Р | С | CA | ES | Total |
| 08210201G | COMMUNICATION SK (Common to all B.E./B. programmes) | Tech. | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(s) | To equip students of English, help them der from college to workp performance at placem | velop their soft ski lace smoother, he | ills an elp th | d peo em to | ople s o exc on an | kills, whicl el in their d other rec | h will ma jobs, e | ake the nhance exerci | transition students |
| 1 LISTEN | | | | | | otal Hrs | | 9 | |
| | tening, Listening to acade to news on the radio / TV, | | | | | | | | s, airports, |
| | UNICATION | | 00111 | orouti | 1 · · · | otal Hrs | | 9 | |
| for permission Giving direction Describing pe | etween spoken and - writte n - giving / denying permis ons - Art of small talk - T ople - place - things and ev | sion - Offering hel aking part in cas | lp - a | ccepti | ng / c sation | leclining h - Making | elp - Giv | ring ins | tructions - |
| 3 CONVE | RSATION SKILLS | | | | Тс | otal Hrs | | 9 | |
| repetitions - S -Leaving mes Reminding - responding to | ephone - Preparing for a pelling out names or word sages on answering ma Agreeing / disagreeing – instructions. DIAL GRAMMAR & VOCAE | s. Giving information chines - Making Listening - Listen | on on / cha | the pl anging | hone g app aking | Making repointments | equests - Maki | - Answ ng con | ering calls |
| | agreement - Tenses - 'D | | nd Da | eeivo | | | negative | • | nositions - |
| Phrasal verbs | - Correct use of words - ds - Common errors & rem | Use of formal wor | | | | | | | |
| | EN COMMUNICATION & (| | | | To | otal Hrs | | 9 | |
| | s - Writing Reports - Note g an interview - Presentation | | | | - Pre | paring cur | riculum | vitae a | nd cover - |
| Total Hours to | be taught | | | | | | | 45 | |
| | | | | | | | | | |
| Text book(s): | | | | | | | | | |
| Ltd., Ne | Ashraf, "Effective Technic w Delhi, 2005. | cal Communication | າ", 1 st | Editio | on, Ta | ata McGra | whil Pub | lishing | Company |
| Reference(s) | | | | | | | | | |
| Cambrid | ai Dutt P, Geetha Rajeeva dge University Press India | Pvt. Ltd., | | | | | | Skills", I | by Ebek - |
| • | , cup "Telephoning in Engl | • | | | | | | | |
| | , "New Interchange Servic dge University Press India | | ok)" – | Intro | ductio | n, Level - | 1, Leve | el <u>–</u> 2, | Level – 3, |

| K.S.Ran | gasamy College of Techno | ology - Αι | utonom | ous | Regu | lation | | | 2008 |
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| Department | Information Technology | Program | nme Co | ode 8 | k Nam | е | Inforr | 21: B.Te nation Te | ch. chnology |
| | | Se | emester | · II | | | | | |
| Course Code | Course Nome | | Hour | s/W | eek | Credit | | Maximu | m Marks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210202G | ENGINEERING MATHEM (Common to all B.E./B.Teo programmes) | ch. | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| Objective(s) | The course is aimed at d are imperative for effectiv serve as basic tools for mechanics, field theory an | ve understa specialized | anding d studie | of er es in | nginee man <u>y</u> neerir | ering subj y enginee 1g. | ects. T | he topics elds, signi | introduced will ificantly in fluid |
| I MULTIPL | E INTEGRALS | | | | Tc | otal Hrs | | 1 | 2 |
| curves – Area (Simple proble | ation in Cartesian and Pola as double integrals – Trip ms only). CALCULUS | | | | sian (| | | olume as | |
| | rgence and curl – Line, sur | | | | | | | | |
| | out proof) – Verification of t | he above t | theoren | ns an | | | integra | | |
| | C FUNCTIONS | | | | - | otal Hrs | | | 2 |
| Sufficient conc | complex variable – Analytic litions (excluding proof) – P ons - Conformal mapping: w | roperties of | of analy | rtic fu | inctior | n – Harmo | nic cor | | |
| | LEX INTEGRATION | <u> </u> | 1/2 an | | 1 | tal Hrs | | 1 | 2 |
| Singularities - | rem (without proof) – Cauc Classification – Cauchy's uding poles on real axis). | | | | | | | | |
| | E TRANSFORM | | | | Тс | otal Hrs | | 1 | 2 |
| Derivatives an theorems – Tr Convolution th | form – Conditions for exi- ad integrals of transforms ransform of unit step funct neorem – Solution of linea equations with constant coe | – Transfo ion – Trar ar ODE of | rms of nsform f secon | deriv of pe id or | vative eriodio der w | s and intentions functions with consta | egrals s. Inve | – Initial a rse Lapla | and final value ce transform – |
| Total hours to | | | | | | | | 6 | 0 |
| Text book(s):: | | | | | | | | | |
| | an. T., "Engineering Mather / Limited, New Delhi, 2005. | matics (for | r first y | ear)" | , Fou | rth Editior | n Tata | McGraw- | Hill Publishing |
| Reference(s) : | | | | | | | | | |
| Delhi 200 | | | | 0 | | | | | |
| | 3.S., "Higher Engineering M | | | | | | | | |
| Singapor | | | | 0 | | • | , | | |
| | aman.M.K, "Engineering M Pub. Co., Chennai, 2004. | athematic | s", Volu | ume | & | Revised | Enlarg | ed Fourtl | h Edition", The |

| | K.S.Rang | asamy College of Technology - Aut | onom | ous R | egulati | ion | | | R 200 | 8 |
|-----------------------|---|---|-------------------|------------------|-------------------------------|---------------------|------------------------|---------------------|-----------------------|---------------------------|
| Dep | partment | Information Technology | Pro | • | ne Cod ame | le & | | | 1: B.Tec ition Tec | |
| | | Se | meste | er II | | | | | | |
| Cou | rse Code | Course Name | Ho | urs / V | /eek | Cree | dit | Μ | laximum | Marks |
| Cou | | Course Maine | L | Т | Р | С | | CA | ES | Total |
| 082 | 210203S | MATERIALS SCIENCE (Common to all B.E./B.Tech. programmes except Nano) | 3 | 0 | 0 | 3 | | 50 | 50 | 100 |
| - | ective(s) | To impart fundamental knowledge ir of conducting, superconducting a engineering materials and nanomate | nd ma rials ir | agneti n mode | c mate ern tech | erials, nnology | appl /. | | of diele | |
| | | TING AND SUPERCONDUCTING MA Free electron theory - Electrical cond | | | | tal Hrs | | | 9 | |
| Veril supe supe | fication of erconducto | Expression for thermal conductivity Ohm's law - Classical free electric rs - Critical field - Meissner's effect rs - Josephson effect (qualitative) - H tion. | on the t - Is | eory - otope | Advar effect | ntages - BCS | anc S the | d drawb eory - T | acks. P Fype I a | roperties o and Type I |
| 2 | SEMICON | IDUCTING MATERIALS | | | То | tal Hrs | | | 9 | |
| Clas - Ha and | sification c rd and So readout- B | C MATERIALS of magnetic materials - Properties - He ft magnetic materials - Ferrites - Stru- subble memory - Magnetic tape - Flopp | ucture, | , Prep | d Doma aration /lagneti | and A c hard | ory o pplic disc | ations - | Magnet | |
| | | RIC MATERIALS | | | - | tal Hrs | | | 9 | |
| depe - Die | endence of electric loss | Polarization: Electronic , Ionic, Orient polarization - Active and Passive diel ses - Dielectric breakdown mechanism | ectric · | - Interr | nal field ric mat | l - Clau erials: | sius Prop | -Mosott | i relation | (derivation |
| - | | BINEERING MATERIALS | | | | tal Hrs | | | 9 | |
| Prep and | baration, Pi Nanolithog | y Alloys (SMA): Characteristics, Pro roperties and Applications. Nanomate graphy - Bottom-up process: Vapor p on and applications. | rials: F | abrica | ation m | ethods | - To | p-down | process | : Ball Milling |
| | I hours to I | | | | | | | | 45 | |
| Text | book(s): | | | | | | | | | |
| 1 | "Material S | Science",1 st Editon, Authored by Dept. | of Phy | ysics k | SRCT, | 2008. | | | | |
| Refe | erence(s) : | | | | | | | | | |
| 1 | Raghavan | V,"Materials Science and Engineering | g", Pre | ntice I | Hall of I | ndia, N | lewd | lelhi, 200 | 01. | |
| 2 | Rajendran | V., "Materials Science", Tata McGraw | / Hill, I | Newde | elhi, 200 |)5. | | | | |
| 3 | - | ny P.K., "Materials Science", SCITECH | | | | |)02. | | | |
| 4 | | gam M., "Materials Science", Anuradha | | | | | |)3. | | |
| 5 | Dr. S. Mu | ithukumaran, V. Mohan, S. Masilam ns, Chennai 2007. | - | | | | | | Edtion, | Sri Krishna |

| K.S | Rangasamy College of Technology | - Auton | omous | s Regul | ation | | | 2008 |
|---|--|--|--|--|---|---|---|--|
| Department | Information Technology | Program | nme Co | ode & N | lame I | 21: nformatio | B.Tech on Tech | |
| | Se | mester II | | | | | | |
| Course Code | Course Name | Hou | rs / We | ek | Credit | Max | kimum r | narks |
| Course Code | Course Name | L | Т | Р | С | CA | ES | Total |
| _ | ENVIRONMENTAL SCIENCE | | | | | | | |
| 08210204G | (Common to all B.E./B.Tech. | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Atmosphere - Atmosphere - Dzone and oz warming - Clii ecosystem - s Ecological su reatures-struct Studies in curr WATER I WATER I Water - hydro pollution - Oc Tsunamis - Gl Thermal pollut 3 LAND RE Land - weath | RESOURCES AND ITS TREATMENT logic cycle – ground water – water she eans and fisheries – salinity – tempe aciers – Water pollution – dissolved or ion, noise pollution and control - Case SOURCES AND ITS DEGRADATION ering and erosion - types of weathering | natural ection of ational co sphere, s rces, effe th – Bios produce Ecologio nd and a ed – wate erature – xygen – s Studies i g – types | resou bio div prventi stratos ects ar sphere rs, con cal py quatic r use a densit surface n curre of soil | arces a persity a ons an To phere, ad contr – Hydr sumers ramids- ecosys Tot nd qua ry – pre water t nt scen To _ soil e | and the c and various d protocol tal Hrs mesospher rol – Gree osphere – and decol Introductio stems (por tal Hrs ity – point essure – liq reatment – ario. tal Hrs | re and t n house Lithosph mposers n, types ads and and non- ght – bio waste w | hreats of enviro e prote 9 hermos effect ere. Co - Energ s, char rivers) 9 point so lumines ater tre 9 s - Wet | to their commentation ection of - Globa oncept of gy flow - acteristi) - Case ources of scence - atment - land and |
| | deserts – types – desertification – land ardous waste, chemical waste, radio | | | | | | | |
| | POLICY AND ALTERNATIVES | | | Tot | al Hrs | | 9 | |
| energy – geot policy Case | and alternatives – fossil fuels – nucl hermal energy – tidal energy – susta Studies in current scenario. RSITY AND HUMAN POPULATION | | | n powei | | | | |
| Biogeographic biodiversity in environment p | Bio diversity-Definition, genetic speci al classification of India – Biodiversit India – threats to biodiversity – endem protection act – issues and possible nd human health - Case Studies in cur be taught | y in India ic and er solutior | a – Ind dange – po | lia as n red- hal | nega diver pitat – cons | servation | of biod | iversity - |
| Text book : | | | | | | | 73 | |
| | nental Science by R.Palanivelu, R.Par | imalam r | nd P C | Srividb." | 2 | | | |
| References : | nentai Science by K.Falanivelu, K.Pal | iniaiaiii, è | | niviuny | a. | | | |
| 1. Linda D. 2005. | Williams – "Environmental Science E | - | | | raHill Publi | ishing Co | ompany | Limited |
| - | Miller, JR _ "Environmental Science ", | | | | | | | |
| | P. Cunningham – "Principles of Enviror | | | | | | | |
| 4. Bharuch | a Erach –"The Biodiversity of INDIA", I | Mapin Pu | blishing | g Privat | e Limited, / | Ahameda | abad, In | dia. |
| | | | | | | | · | |

| | K.S.Ra | ngasamy College of Techno | ology - Auto | onomoi | us Re | gula | tion | | R 2 | 800 |
|------|-------------------------------|--|---------------|-----------|-----------|---------|------------|------------|------------|-------------|
| De | partment | Information Technology | Progra | mme Co | ode & | Nam | ne | | 21: B.Tec | |
| | • | | Semes | | | | | Informa | ation Tec | nnology |
| | | | Semes | | . / \ \ / | | One dit | | | Maulua |
| Cοι | urse Code | Course Name | | Hours | | 1 | Credit | | laximum | |
| | | | | L | Т | Р | С | CA | ES | Total |
| 08 | 210205S | FUNDAMENTALS OF PROGRAMMING | | 3 | 1 | 0 | 3 | 50 | 50 | 100 |
| 00 | 2102000 | (Common to ECE,EEE,CSE | ,IT) | 0 | • | Ŭ | Ŭ | 00 | 00 | 100 |
| Ob | jective(s) | To impart knowledge in the devices. | fundament | als of o | comp | uter a | and prog | ramming | languag | ge, storage |
| Ι | COMPUT | ER BASICS | | | | To | otal Hrs | | 12 | |
| | | omputers- Generations of co | | | | | | | | |
| | | Output Media - Algorithm- Flo | | | | | am contro | ol structu | ires Pr | ogramming |
| | | omputer Software- Definition- | Categories | s of Soft | ware. | | | 1 | 40 | |
| 2 | • • • • • • • | MENTALS | | | | | otal Hrs | <u> </u> | 12 | |
| | | C- Constants- Variables- Dat cision Making and Branching- | | perators | and | Expr | essions- | Managir | ng Input a | and Output |
| 3 | | AND FUNCTIONS | Looping. | | | Тс | otal Hrs | | 12 | |
| Arra | iys- Charac | ter Arrays and Strings- User c | lefined funct | ions- St | orage | e Cla | sses | 1 | | |
| 4 | STRUCTU | JRES AND FILES | | | | Тс | otal Hrs | | 12 | |
| Stru | ctures- Def | inition- Initialization- Array of | Structures- | Structur | es wi | ithin : | structures | s- Struct | ures and | Functions- |
| | ons- File Ma | 0 | | | | 1 | | | | |
| 5 | POINTER | - | | | | | otal Hrs | | 12 | |
| | | Pointer Arithmetic – Pointer | s and array | Pointer | s and | d cha | racter str | ing Poin | ters and | functions – |
| | nters and st al hours to b | | | | | | | T | 60 | |
| | t book (s) : | | | | | | | 1 | 00 | |
| 1 | Dr.K.Dura | isamy, R.Nallusamy, R. | Kanagavalli | SF | onm | athar | nai D | Muthusa | nkar | P.Kaladevi |
| | | ntals of Programming", Tech | | | | anai | '9', D. | | innar, | |
| 2. | | usamy, "Programming in ANS | | | | 002. | | | | |
| Refe | erence(s): | | | | | | | | | |
| 1 | Rajarama | n V, "Fundamentals of Compu | uters", Fourt | h Editio | n, PH | I 200 | 6. | | | |
| | | tfried, "Programming with C", | | | | | | | | |

| | K.S.Rangasamy College of Techno | ology - A | utono | mous | Regu | lation | | R 2 | 2008 |
|------------------------------|--|------------------------|---------------------|------------------|---------------------|-------------------------|------------------------|-------------------------|------------|
| Departme | nt Information Technology | Pro | gramm | e Cod | e & Na | ame | Inform | 21: B.Tec nation Tec | |
| | | Semes | ster II | | | | | | |
| Course Co | de Course Name | | Hou | rs / W | eek | Credit | N | laximum N | /larks |
| | | | L | Т | Р | С | CA | ES | Total |
| 08210206 | (Common TO CSE&IT) | | 4 | 0 | 0 | 4 | 50 | 50 | 100 |
| Objective(| (s) At the end of this semester, components of structures and b | | | | | nversant | in prope | erties of I | naterials, |
| 1 IN | NTRODUCTION | | | | | Total H | Irs | 10 | |
| | n – Civil Engineering – Materials – br ions. Bearing capacity – loads – Req | | | | | | | steel secti | ons – site |
| | UPERSTRUCTURE | | | | | Total H | | 10 |) |
| valuation n of Interior a | ture – brick masonry – stone masonr nechanics – internal and external for and Landscaping. | ry – bear ces – str | ns – co rain – e | lumns elastic | s – lint ity – T | els – roof ypes of E | ing – flo Bridges a | oring – pla and Dams | – Basics |
| | URVEYING | | | | | Total H | - | 10 | |
| | Objects – types – classification – ion of areas – illustrative examples. | principle | es – m | easure | ement | s of dista | nces – a | angles – I | eveling - |
| 4 P | OWER PLANT ENGINEERING | | | | | Total H | Irs | 10 |) |
| Nuclear Po | n, Classification of Power Plants – ower Plants – Merits and Demerits – ing and double acting) – Centrifugal F | Pumps a | | | | | | | |
| 5 10 | | · | | | | Total F | Irs | 10 |) |
| | mbustion engines as automobile pow two stroke cycles – Comparison of fo | | | | | | | | |
| | EFRIGERATION AND AIR CONDITI | | | | | Total H | | 10 | |
| | gy of Refrigeration and Air condition ypical domestic refrigerator – Window | | | | | | | osorption | system – |
| Total hours | s to be taught | | | | | | | 60 |) |
| Reference | | | | | | | | | |
| N | hanmugam G. and M.S. Palanisamy, lew Delhi, 1996. | | | | | • | • | | hing Co., |
| | amamrutham S. "Basic Civil Enginee | | | | | | | Edition. | |
| | hanmugam G., Basic Mechanical Er | | | - | | | | | |
| | enugopal K. and Prabu Raja V umbakonam, 2000. | - | ic Me | chanic | al E | ngineering | g", Anu | radha P | ublishers, |
| | hantha Kumar S.R.J., "Basic Mechan | | | | | | | | |

| K.S. | Rangasamy College of Technology | ogy - Au | Itono | mous | Reg | ulation | | | 2008 |
|---|--|---|---|---|---|--|--|--|---|
| Department | Information Technology | Pro | gramr | ne Co | de & | Name | Inforn | 21: B.Te nation Te | ch. chnology |
| | | Semes | ter II | | | | - | | |
| Course Code | Course Name | | Hou | rs/W | eek | Credit | N | laximum | Marks |
| Course Coue | Course Marile | | L | Т | Р | С | CA | ES | Total |
| 08210207P | ENGINEERING GRAPHICS LABORATORY | | 1 | 0 | 3 | 3 | 50 | 50 | 100 |
| Objective(s) | Use of drawing board and mini communication of concepts and obtained by training them to simple engineering objects and o | l ideas ir unders | n the stand | des obje | ign c cts b | of enginee y making | ring pr free | oducts a | are to be |
| 1 CONCEI | PTS AND CONVENTIONS | | | | | Total F | lrs | | 4 |
| techniques - drawing sheet 2 CURVES Primitive and I interpretations | onventional and computer met relative merits and demerits – 2 s – Lettering and dimensioning S AND SHAPES USED IN ENGINE Prismatic shapes - Conics – ellips – ellipsoid, paraboloid and normals – mathematical requi | 2D and <u>- conve</u> EERING se, parat hyperbo | 3d m entions PRO bola a bola a | nodeli s follo DUCT nd hy – inv | ng - s owed. S vperbo volute | Total F Total F bla – equat s and c | ns of s Irs ions us ycloids | size and ed and – appl | layout of 4 parametric lications - |
| 0 | 1 | | | | • | | | | 0 0 |
| products. 3 FREE H | AND SKETCHING PRACTICES | | | | imp | Total F | Irs | | 7 |
| products. 3 FREE H, Representation orientations – multiple views multiple views | AND SKETCHING PRACTICES n of Three Dimensional objects Concept of orthographic projes from pictorial views of objects – simple exercises to practice. | s – Nee ection - ects – | ed for | ⁻ and elopir | ng sk | Total H prtance of ills through prial) repres | Irs multip h free sentatio | le views hand sk n of obj | 7 and their etching of ects from |
| products. 3 FREE H, Representation - orientations - multiple views multiple views 4 DEVELC | AND SKETCHING PRACTICES n of Three Dimensional objects Concept of orthographic projes from pictorial views of obj simple exercises to practice. OPMENT OF SURFACES – PRAC | s – Nee ection - ects – TICES | ed for Dev isom | - and elopir etric | ng sk (picto | Total H ortance of ills throug orial) repres | Irs multip h free sentatio | le views hand sk n of obj | 7 and their etching of ects from 5 |
| products. 3 FREE H, Representation - orientations - multiple views multiple views 4 DEVELC Development 0 | AND SKETCHING PRACTICES n of Three Dimensional objects Concept of orthographic proje s from pictorial views of obj – simple exercises to practice. OPMENT OF SURFACES – PRAC of lateral surfaces of simple an | s – Nee ection - ects – TICES d trunca | ed for Dev isom | - and elopir etric | ng sk (picto | Total H ortance of ills throug orial) repres | Irs multip h free sentatio | le views hand sk n of obj | 7 and their etching of ects from 5 |
| products. 3 FREE H, Representation - orientations - multiple views multiple views 4 DEVELC Development 0 | AND SKETCHING PRACTICES n of Three Dimensional objects Concept of orthographic projes from pictorial views of obj – simple exercises to practice. OPMENT OF SURFACES – PRAC of lateral surfaces of simple an ching practices - simple exercises to | s – Nee ection - ects – TICES d trunca | ed for Dev isom | - and elopir etric | ng sk (picto | Total H ortance of ills throug orial) repres | Irs multip h free sentatio Irs ids, cyl | le views hand sk n of obj inders ar | 7 and their etching of ects from 5 |
| products. 3 FREE H, Representation - orientations - multiple views 4 DEVELC Development 0 freehand sketc 5 2D DRAI Importance of wiring diagrar | AND SKETCHING PRACTICES n of Three Dimensional objects Concept of orthographic projes from pictorial views of obj – simple exercises to practice. OPMENT OF SURFACES – PRAC of lateral surfaces of simple an ching practices - simple exercises to | s – Nee ection - ects – TICES d trunca to practic | ed for Dev isom ited so ce. | and elopir etric olids | ng sk (picto – pris | Total H prtance of ills through prial) repres Total H ms, pyram Total H simple and | Irs multip multip h free sentatio Irs ids, cyl Irs d multip | le views hand sk n of obj inders ar 2 Dle) dime | 7 and their etching of ects from 5 nd cones - 20 nsioning - |
| products. 3 FREE H, Representation - orientations - multiple views 4 DEVELC Development 0 freehand sketc 5 2D DRAI Importance of wiring diagrar using appropriate | AND SKETCHING PRACTICES n of Three Dimensional objects Concept of orthographic projects s from pictorial views of objects - simple exercises to practice. DPMENT OF SURFACES – PRAC of lateral surfaces of simple and hing practices - simple exercises to FTING 2D drafting – sketching, mirror n and piping layout drawings | s – Nee ection - ects – TICES d trunca to practic | ed for Dev isom ited so ce. | and elopir etric olids | ng sk (picto – pris | Total H prtance of ills through prial) repres Total H ms, pyram Total H simple and | Irs multip h free sentatio Irs ids, cyl Irs d multip Drafting | ile views hand sk n of obj inders ar 2 ble) dime g and din | 7 and their etching of ects from 5 nd cones - 20 nsioning - |
| products. 3 FREE H, Representation orientations – multiple views 4 DEVELC Development of freehand sketc 5 2D DRAI Importance of wiring diagrar using appropria 6 SOLID M 3D modeling techniques - s flange coupling | AND SKETCHING PRACTICES n of Three Dimensional objects Concept of orthographic projects from pictorial views of objects - simple exercises to practice. OPMENT OF SURFACES – PRAC of lateral surfaces of simple and hing practices - simple exercises to FTING 2D drafting – sketching, mirror n and piping layout drawings ate software packages. IODELING techniques - constructive solits solid modeling of simple and mode g (one) half, bolts and nuts, con | s – Nee ection - ects – TICES d trunca to practic pring, sc - Pract id geon erately co omputer | ed for Dev isom tted so ce. caling, tice of netry omple moni | copy of C (CSC tor, sl | ying (picto - pris ving (ompu G) ar jineer otted | Total H prtance of ills through prial) repress Total H ms, pyram Total H simple and ter Aided Total H nd bounda ing product angle rack | Irs multip h free sentatio ids, cyl ids, cyl Irs d multip Drafting Irs any rep s – tab and su | inders ar inders ar indera | 7 and their etching of ects from 5 nd cones - 20 nensioning - nensioning 20 on (BRep) r, V-block, |
| products. 3 FREE H, Representation orientations – multiple views 4 DEVELC Development of freehand sketc 5 2D DRAI Importance of wiring diagrar using appropria 6 SOLID M 3D modeling techniques - s flange coupling | AND SKETCHING PRACTICES n of Three Dimensional objects Concept of orthographic projects from pictorial views of objects s from pictorial views of objects performed by the second structure of the seco | s – Nee ection - ects – TICES d trunca to practic pring, sc - Pract id geon erately co omputer | ed for Dev isom tted so ce. caling, tice of netry omple moni | copy of C (CSC tor, sl | ying (picto - pris ving (ompu G) ar jineer otted | Total H prtance of ills through prial) repress Total H ms, pyram Total H simple and ter Aided Total H nd bounda ing product angle rack | Irs multip h free sentatio ids, cyl ids, cyl Irs d multip Drafting Irs any rep s – tab and su | inders ar inders ar indera | 7 and their etching of ects from 5 nd cones - 20 nensioning - nensioning 20 on (BRep) r, V-block, |
| products. 3 FREE H, Representations - orientations - multiple views - 4 DEVELC Development - freehand sketc - 5 2D DRAI Importance of wiring diagrar using appropria - 6 SOLID M 3D modeling techniques - flange coupling Practice of sol | AND SKETCHING PRACTICES n of Three Dimensional objects Concept of orthographic projects from pictorial views of objects s from pictorial views of objects performed by the service of objects | s – Nee ection - ects – TICES d trunca to practic pring, sc - Pract id geon erately co omputer | ed for Dev isom tted so ce. caling, tice of netry omple moni | copy of C (CSC tor, sl | ying (picto - pris /ing (ompu G) ar jineer otted | Total H prtance of ills through prial) repress Total H ms, pyram Total H simple and ter Aided Total H nd bounda ing product angle rack | Irs multip h free sentatio ids, cyl ids, cyl Irs d multip Drafting Irs any rep s – tab and su | inders ar inders ar indera | 7 and their etching of ects from 5 nd cones - 20 nsioning - nensioning 20 on (BRep) r, V-block, products - |
| products. 3 FREE H, Representation orientations – multiple views 4 DEVELC Development of freehand sketor 5 2D DRAI Importance of wiring diagrar using appropriation 6 SOLID M 3D modeling techniques - statice of sol Total hours to Reference (s) | AND SKETCHING PRACTICES n of Three Dimensional objects Concept of orthographic projects from pictorial views of objects s from pictorial views of objects performed by the service of objects | s – Nee ection - ects – TICES d trunca to practic oring, sc - Pract id geon erately co omputer views us | ed for Dev isom ated so ce. caling, tice of metry omple monifising a | r and elopir etric olids copy of C (CSC x eng tor, sl pprop | eg sk (picto – pris ving (ompu G) ar jineer otted oriate | Total H ortance of ills through orial) represe Total H ms, pyram Total H simple and ter Aided Total H nd bounda ing product angle rack software pa | Irs multip h free sentatio ids, cyl ids, cyl Irs d multip Drafting Irs and su and su ackages | inders ar inders ar indera | 7 and their etching of ects from 5 nd cones - 20 nsioning - nensioning 20 on (BRep) r, V-block, products - |
| products. 3 FREE H, Representation orientations - multiple views 4 DEVELC Development of freehand sketc 5 2D DRAI Importance of wiring diagrar using appropria 6 SOLID M 3D modeling techniques - s flange coupling Practice of sol Total hours to Reference (s) ± 1 | AND SKETCHING PRACTICES n of Three Dimensional objects Concept of orthographic projects s from pictorial views of obje- simple exercises to practice. DPMENT OF SURFACES – PRAC of lateral surfaces of simple and thing practices - simple exercises to FTING 2D drafting – sketching, mirror n and piping layout drawings ate software packages. 10DELING techniques - constructive solid solid modeling of simple and model g (one) half, bolts and nuts, co id modeling and extraction of 2D be taught | s – Nee ection - ects – TICES d trunca to practic pring, sc - Pract id geon erately co prately co pring us views us ", Tata M | ed for Dev isom tted se ce. caling, tice of metry omple moni sing a | r and elopir etric olids copy of C (CSC x eng tor, si pprop w Hill | ying (picto picto prise prise prineer otted priate Publi | Total H prtance of ills through prial) represe Total H ms, pyram Total H simple and ter Aided Total H nd boundat angle rack software pa | Irs multip h free sentatio ids, cyl ids, cyl Irs d multip Drafting Irs and su ackages | inders ar inders ar indera | 7 and their etching of ects from 5 nd cones - 20 nsioning - nensioning 20 on (BRep) r, V-block, products - 60 |
| products. 3 FREE H, Representations - multiple views - 4 DEVELC Development 6 5 2D DRAI Importance of wining diagrar using appropriation 6 6 SOLID M 3D modeling techniques - sol flange couplin Practice of sol Total hours to Reference (s) 1 Dhananja 2 K.V.Nata | AND SKETCHING PRACTICES n of Three Dimensional objects Concept of orthographic projects from pictorial views of objects - simple exercises to practice. DPMENT OF SURFACES – PRAC of lateral surfaces of simple and thing practices - simple exercises to FTING 2D drafting – sketching, mirror n and piping layout drawings ate software packages. MODELING techniques - constructive solid solid modeling of simple and model g (one) half, bolts and nuts, col id modeling and extraction of 2D be taught ay.A. Jolhe, "Engineering Drawing | s – Nee ection - ects – TICES d trunca to practic oring, sc - Pract id geon erately co omputer views us ", Tata M ring Gra | ed for Dev isom ited so ce. caling, tice o metry omple moni sing a McGra phics' | r and elopir etric olids copy of C (CSC x eng tor, sl pprop w Hill ', Dha | eg sk (picto – pris /ing (ompu G) ar jineer otted priate Publi analal | Total H prtance of ills through orial) represent Total H ms, pyram Total H simple and ter Aided Total H nd boundat ing product angle rack software pa | Irs multip h free sentatio ids, cyl ids, cyl Irs d multip Drafting Irs and su ackages | inders ar inders ar indera | 7 and their etching of ects from 5 nd cones - 20 nsioning - nensioning 20 on (BRep) r, V-block, products - 60 |
| products.3FREE H,Representation-orientationsmultiple views4DEVELCDevelopment ofDevelopment of-freehand sketor52D DRA-Importance of-wiring diagrar-using appropriation66SOLID M3Dmodelingtechniques - s-flange coupling-Practice of sol-Total hours to-Reference (s) =-1Dhananja2K.V.Nata3M.B. Sha4Luzadde2001 | AND SKETCHING PRACTICES n of Three Dimensional objects Concept of orthographic projects from pictorial views of objects s from pictorial views of objects performed by the service objects performed by the service of objects per | s – Nee ection - ects – TICES d trunca to practic oring, sc - Pract id geon erately co omputer views us ", Tata M ing Gra rawing", gineering | ed for Dev isom ated so ce. caling, tice of motry omple monination sing a AcGra phics' Pears g Drav | r and elopir etric olids copy of C (CSC x eng tor, sl pprop w Hill ', Dha ion Ec wing" | eg sk (picto – pris /ing (ompu G) ar jineer otted oriate Publi analal ducati Prent | Total H prtance of ills through prial) represent Total H ms, pyram Total H simple and ter Aided Total H nd boundating product angle rack software pations shing Co., 2 (shmi Public) on, 2005. ice Hall of | Irs multip h free sentatio lrs ids, cyl lrs d multip Drafting Irs d multip Drafting ary rep s – tab and su ackages 2007. lishers, India F | inders ar inders ar inders ar 2 ble) dime g and din 2 resentati ble, chain ich other 5. (Chennai, | 7 and their etching of ects from 5 nd cones - 20 nsioning - nensioning 20 on (BRep) r, V-block, products - 50 , 2006. |

| | K.S. | Rangasamy College of Techn | ology - Auto | onom | ious F | Regul | ation | | R 2 | 800 |
|-------------|---------------------|---|-----------------------|---------|---------|--------|-----------|----------|------------|---------|
| Departi | ment | Information Technology | Progra | mme | Code | &Nai | ne | | : B.Tech | - |
| | | | Semester | 11 | | | | moma | | nology |
| | | | | 1 | urs / W | /eek | Credit | Max | kimum M | arks |
| Course | Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 082102 | 208P | APPLIED CHEMISTRY LABO | RATORY | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Objec | tive | Educate the theoretical conce | pts Experime | entally | /. | | | • | | • |
| | | A) | ny 10 experi | ment | s) | | | | | |
| 1. | Estim | ation of hardness of water by E | DTA. | | | | Тс | otal Hrs | | 3 |
| 2. | | ation of alkalinity of water samp | | | | | Тс | otal Hrs | | 3 |
| 3. | | ation of chloride content in wate | • | | | | Тс | otal Hrs | | 3 |
| 4. | | mination of dissolved oxygen in | | | | | Тс | otal Hrs | | 3 |
| 5. | | mination of water of crystallization | | | | | Тс | otal Hrs | | 3 |
| 6. | Cond | uctometric titration of strong aci | d with strong |) base | Э. | | Тс | otal Hrs | | 3 |
| 7. | | uctometric titration of mixture of | | | | | Тс | otal Hrs | | 3 |
| 8. | Preci | pitation titration by conductome | tric method. | | | | Тс | otal Hrs | | 3 |
| 9. | | mination of strength of HCI by p | | | | | Тс | otal Hrs | | 3 |
| 10. | | ation of ferrous ion by potentior | | | | | | otal Hrs | | 3 |
| 11. | photo | mination of sodium and potassi metry (Demo only). | | | | / flam | e To | otal Hrs | | 3 |
| 12. | | ation of ferric ion by spectropho | otometry (De | mo oi | nly). | | Тс | otal Hrs | | 3 |
| Total ho | | e taught | | | | | | | 30 | |
| Lab Man | | | | | | | | | | |
| | • | Lab Manual by R.Palanivelu, | R.Parimalam | and | B.Sriv | idhya | | | | |
| Reference | | | | | | | | | | |
| 1. J. An | Mendha alysis, (| am, R.C. Denney, J.D. Barnes 6 th Edition, Pearson Education, | and N.J.K. T 2004. | homa | as, Vo | gel's | Text book | of Quan | titative C | hemical |

| | Rangasamy College of Techn | ology - A | Auton | omou | s Reg | ulation | | R 20 | 008 |
|--|---|---|---|-------------------------|--------|-------------|-------------------|---------------------|----------|
| Department | Information Technology | Prog | gramm | e Coc | le &Na | ime | 21: Informatio | B.Tech. on Techn | ology |
| | | Seme | ster II | | | | | | |
| Course Code | Course Name | | Hou | rs / W | eek | Credit | Max | imum M | arks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Tota |
| 08210209P | PROGRAMMING LABORATO | ORY | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Write a Write a Write a Write a Write a the length Write a | C program to print Pascal's tria C program to print the sine and C program to perform Matrix m C program to prepare and print C program to perform string ma gth and string copy without using C program to arrange names in C program to calculate the mea C program to perform sequenti | l cosine s ultiplication the sales anipulation g library f n alphabe | on. s repoi n func unctio tical o | tions I ns. rder. | | ing concate | | | on, finc |

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| Department | Information Technology | Program | m coc | de & N | Vame | | | 21: B.Tec ation Tec | |
|--------------|--|---|---|---|---|---|---|-------------------------------|---------|
| | | Semeste | er II | | | | | | mology |
| · | | | Но | urs/W | /eek | Credit | Ν | /laximum | Marks |
| Course Code | Course Nan | ne | L | Т | Р | С | CA | ES | Tota |
| 08210210P | COMPREHENSION - I | | 0 | 0 | 3 | 0 | 100 | 00 | 100 |
| Objective(s) | i) To comprehend t ii) To improve the te | chnical knowled | ge of | the s | tudent | | _ | | |
| Methodology | For each subject 200 are to be prepared. These 200 keywords pages and is to be ha The staff who is hand respective discussion The staff will explain a linking the keywords. In a similar way, the staff | are to be printed nded over to eac ling the subject in period (3 period and question the tudents have to | in do ch stu n the s/sem stude prepa | dent i dent i previo nester ents u are the | colum for all ous se r) as g ising '\ emsel ^v | n (2 x 50 the subje emester w iven belo <i>N</i> ' and 'H | words) a cts. vill handl w. ' type qu | and in 2 e the uestions | |
| | The Schedule for Conduc | t of Comprehens | sion S | Subjea | ct. | | | | |
| | Week | | | | Ac | tivity | | | |
| | | First 1½ Period (No. of unit | | ect | | xt 1½ per bject (No. units) | | Ηοι | urs |
| | W1 | S1 (2) | | | | S2 (2) | | 3 | |
| | W2 | S3 (2) | | | | S4 (2) | | 3 | |
| | W3 | S5 (2) | | | | S6 (2) | | 3 | |
| Execution | W4 | Test-I (Portic | n:2 u | nits ir | n each | subject) | | 1 | |
| | W5 | S1 (3) | | | | S2 (3) | | 3 | |
| | W6 | S3 (3) | | | | S4 (3) | | 3 | |
| | W7 | S5 (3) | | | | S6 (3) | | 3 | |
| | W8 | Test-II (Porti | on:3 เ | units i | in eac | h subject) |) | 1 | |
| | W9 | | Disc | ussio | n | | | 3 | |
| | W10 | Test-III (Al | 5 un | its an | d all s | ubject) | | 1 | |
| | | Total | | | | | | 24 | 4 |
| Evaluation | It is a two credit (Only continuous / Each test will carr Component Test – I Test – II | Assessment (CA |) and | No E | ind Se <u>amon</u> Wei | mester e | | | e units |
| | Test – III | | | | | 50 | | | |
| | Total | | | | | 100 | | | |
| S1 | 08210101G - Technica | al English | | | | | | | |
| \$2 | 08210102G - Enginee | | :1 | | | | | | |
| S3 | 08210103G - Applied I | * | , , | | | | | | |
| S4 | 08210103G - Applied 08210104G - Applied 0 | • | | | | | | | |
| S5 | 08210104G - Applied 08210105S - Basics of | | eerin | a | | | | | |
| S6 | 08210106S - Basics of | | | - | | | | | |

| K.S.F | Rangasamy College of Te | echnology - Aut | onon | nous | Regu | lation | | | 2008 |
|--------------|---|---|--|---|--|--|---|--------------------------------|-----------|
| Department | Information Technology | Program | | & Na | me | In | | B.Tech. In Techn | ology |
| | | Semeste | | | | | | | |
| Course Code | Course Na | mo | Но | urs/W | 'eek | Credit | | aximum I | Marks |
| Course Coue | Course na | | L | Т | Р | С | CA | ES | Total |
| 08210210P | COMPREHENSION - | l | 0 | 0 | 3 | 0 | 100 | 00 | 100 |
| Objective(s) | iv) To improve the | nd the semester s e technical knowl | edge | of the | e stud | | | | |
| Methodology | For each subject 2 are to be prepared These 200 keyword pages and is to be The staff who is had respective discuss The staff will explat linking the keyword In a similar way, th | ds are to be print handed over to e andling the subject ion period (3 peri in and question the ds. | ed in each s ot in th ods/s he stu | doub stude he cu semes udents | le col nt for rrent s ster) a s usin | umn (2 x 50 all the subj semester wi s given belo g 'W' and 'H |) words) ects. II handl ow. I' type o | and in 2 e the questions | 2 |
| | The Schedule for Cond | duct of Comprehe | ensio | n Sub | ject. | | | 2 | |
| | Week | | | | Ac | tivity | | | |
| | | First 1½ Period (No. of unit | | ct | | xt 1½ perio bject (No. c units) | | Ηοι | Irs |
| | W1 | S1 (2) | | | | S2 (2) | | 3 | |
| | W2 | S3 (2) | | | | S4 (2) | | 3 | |
| | W3 | S5 (2) | | | | S6 (2) | | 3 | |
| Execution | W4 | Test-I (Portio | n:2 u | nits ir | n each | n subject) | | 1 | |
| | W5 | S1 (3) | | | | S2 (3) | | 3 | |
| | W6 | S3 (3) | | | | S4 (3) | | 3 | |
| | W7 | S5 (3) | | | | S6 (3) | | 3 | |
| | W8 | Test-II (Portion | วท:3 เ | units i | n eac | h subject) | | 1 | |
| | W9 | | Disc | ussio | n | | | 3 | |
| | W10 | Test-III (All | 5 un | its an | d all s | subject) | | 1 | |
| | | Total | | | | | | 24 | ł |
| | Only continuou | lit (3 hrs /week) L us Assessment (0 carry100 question | CA) a | nd No | o End ed an | Semester e | | | ive units |
| Evaluation | Test – I | | | | 110 | 25 | | | |
| | Test – II | | | | | 25 | | | |
| | Test – III | | | | | 50 | | | |
| | Total | | | | | 100 | | | |
| S1 | | viontion Okilla | | | | 100 | | | |
| S1 S2 | 08210201G - Commu | | . 11 | | | | | | |
| | 08210202G - Enginee | • | 5 11 | | | | | | |
| | 08210203G - Material | | | | | | | | |
| S4 S5 | 08210204G - Environr | | · · · · | | | | | | |
| 30 | 08210205G - Fundam | entals of Program | nming | J | | | | | |

(For the candidates admitted from 2009-2010 onwards)

| K.S.F | Rangasamy College of Techn | ology - A | utonom | ous R | egulat | tion | | R 20 | 08 |
|---------------------------------|--|------------------------------------|----------------------------------|------------------------------|-------------------|-------------------------|------------|-----------------------|--------------------------|
| Department | Information Technology | Progr | amme c | ode & I | Name | | | B.Tech. | |
| | | Sem | ester III | | | | Iormalio | n Techno | blogy |
| | | | | rs/We | ek | Credit | Ма | ximum N | larks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210301G | ENGINEERING MATHEMA | TICS III | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| Objective(s) | The course objective is to value problems and transfor large number of engineerin optics and electromagnetic graduate and specialized st | m technic g subjects theory. | ues. Thi s like he The cou | s will b at con irse w | e nece ductior | essary for n, commur | their effe | ective stu systems | idies in a , electro- |
| 1 PARTIAL | DIFFERENTIAL EQUATIONS | | | | То | tal Hrs | | 12 | |
| of standard ty differential equ | artial differential equations by pes of first order partial diffentiations of second and higher or pations of second and be second and higher or pations of second and be second and higher or pations of second and be second an | erential e | quations | – Lag | grange ients. | 's linear e | | ı – Linea | |
| 2 FOURIEF | | | | | - | tal Hrs | | 12 | |
| cosine series - | ditions – General Fourier serie -Parseval's Identity – Harmonio | | | n functi | ons – | Half range | e sine se | eries – H | alf range |
| 3 BOUNDA | RY VALUE PROBLEMS | | | | To | tal Hrs | | 12 | |
| | of second order quasi linear e dimensional heat equation - I | | | | | | | limensior | nal wave |
| 4 FOURIEF | R TRANSFORM | | | | To | tal Hrs | | 12 | |
| | orm pair- Sine and Cosine trans eval's Identity – Problems. | sforms– P | roperties | s – Tra | nsform | ns of simpl | e functio | ons – Co | nvolution |
| 5 Z -TRAN | SFORM AND DIFFERENCE E | QUATION | IS | | To | tal Hrs | | 12 | |
| | Elementary properties – Initial due method - Convolution theo | | | | | | | | |
| Total hours to | be taught | | | | | | | 60 | |
| Text book(s): : | | | | | | | | | |
| - | n.T., "Engineering mathematic | | | | | | - | | |
| 2 Grewal, E | B.S., "Higher Engineering Mathe | ematics", | Thirty Si | xth Edi | ition, K | lhanna Pu | blishers, | Delhi, 2 | 001. |
| References : | | | | | | | | | |
| Students' | n, S., Manicavachagom Pillay , Volumes II and III, S. Viswan | athan (Pri | nters an | d Publi | ishers) | Pvt. Ltd. (| Chennai | , 2002. ` | , _, |
| 2 Kandasa | ny, P., Thilagavathy, K., and C Itd., New Delhi, 1996. | | | | | | | | Chand & |

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| Depa | artment | Information Technology | Prog | gramm | e Coc | le &Na | ame | | 1: B.Tech. tion Techr | |
|---------|-------------|--|--------------------------------------|-------------------|--------------------|-------------------|---------------------------|-------------------------|--------------------------|---------------------|
| | | | Semes | ster III | | | | IIIIUIIIIa | | lology |
| | | | 0011100 | | rs / W | eek | Credit | M | aximum M | arks |
| Cours | se Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 0821 | 0302C | SIGNALS AND SYSTEMS | | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| Obje | ctive(s) | To understand the representa analysis using transforms, ar Transforms and state equation transforms, find the frequence FFT and Z-transform analysis | nalyze the ns, study sy respon | e linea the ar | ar time nalysis | e inva s of Di | riant syste screte Tim | ems using ie signals | Fourier, using DF | Laplace F and Z- |
| 1 | CLASS | FICATION OF SIGNALS AND | | S | | Т | otal Hrs | | 12 | |
| Expon | ential, Cla | e signals (CT signals), discre assification of CT and DT signa fication of systems – Linear Tim | ls - perio | dic and | d aper | iodic, | | | | |
| 2 | | SIS OF CT SIGNALS | | | | | otal Hrs | | 12 | |
| Fourie | r series a | nalysis, Spectrum of CT signals | s, Fourier | Trans | form a | and La | place Tra | nsform in | Signal An | alysis. |
| 3 | LTI-CT | SYSTEMS | | | | Т | otal Hrs | | 12 | |
| | | ation, Block diagram represe er Methods and Laplace transfo | | | | | | | egral, Fre | equency |
| 4 | | SIS OF DT SIGNALS | | | , | | otal Hrs | | 12 | |
| | rties of Z- | DT Signals, Discrete Time Forter transform in signal analysis. | ourier Tra | ansfor | m (D | - | | Fourier | Transform | (DFT), |
| 5 | LTI-DT | SYSTEMS | | | | Т | otal Hrs | | 12 | |
| | | ations, Block diagram repre and Z-transform analysis, State | | | | | | volution | SUM, Fre | equency |
| Total h | nours to b | e taught | | | | | | | 60 | |
| Text b | ook : | | | | | | | • | | |
| 1 | of India | Oppenheim, Alan S. Willsky wit Pvt. Ltd., 2003. | th S.Ham | id Nav | vab, " | Signal | s & Syster | ms", Pear | son / Pren | tice Hall |
| Refere | ence (s) : | | | | | | | | | |
| 1 | | er, "Signals and Systems", McC | | | | | | | | |
| 2 | | Haykin and Barry Van Veen, "Si | - | - | | | - | | | |
| 3 | P.Rame | esh Babu, R.Ananda Natarajan, | "Signals | and S | ystem | s", Sc | itech publi | ications, 2 | 006. | |
| | | | | | | | | | | |

| | K.S. | Rangasamy College of Techn | ology - A | Auton | omou | s Reg | ulation | | | R 2 | 008 |
|--|---|--|---|---|---|--|---|--|---|--|---|
| Depart | tment | Information Technology | Progra | amme | Code | &Narr | e | Inf | | 3.Tech. n Technol | ogy |
| | | | Semes | ster III | | | | | | | |
| Course | Codo | Course Name | | Hou | rs / W | eek | Credit | t | Ma | ximum M | arks |
| Course | Code | Course Name | | L | Т | Р | С | | CA | ES | Total |
| 08210 | 303C | COMPUTER ARCHITECTUR | | 3 | 0 | 0 | 3 | | 50 | 50 | 100 |
| Object | | To have a thorough understar discuss in detail the operation of fixed-point and floating-poin the different types of control system including cache memo and standard I/O interfaces. | of the ar nt additio and the ries, stuc | ithmet n, sub conce ly the | ic unitotraction itraction pt of | t inclu on, mi pipeli ent wa | ding the ultiplication ning, stu ys of con | algo on 8 Idy | orithms & & division the hier | & implem n, study archical with I/O | entation in detail memory |
| 1 | BASIC | STRUCTURE OF DIGITAL CO | OMPUTE | RS | | Т | otal Hrs | | | 10 | |
| Boolear | n circuite ons, coc | Basic Operational Concepts using K – map and tabulation le conversion – Design of Syr | methods | – Des | ign of | simp | e combir | natio | onal circu | uits for ar | ithmetic |
| 2 | ARITH | IMETIC | | | | Т | otal Hrs | | | 8 | |
| | | btraction of signed numbers - [| Jacian of | 1 1 - | ddara | _ mul | tiplication | ∫ ∩f | naaitiiya | and the second | - signod |
| | | | | | | | | | | | - signeu |
| | d multipl | cation and fast multiplication – PROCESSING UNIT | | | | ting p | | | | | - signed |
| operance 3 Fundam micropre | d multipl BASIC nental co ogramm | ication and fast multiplication – C PROCESSING UNIT procepts – Execution of a compl red control - Pipelining – Basic | Integer d ete Instru concept | ivision iction · s – da | <u>– floa</u> – Mult ata ha | ting p T tiple b zards | oint numl otal Hrs us organ – instruc | bers izat | ion – Ha | erations. 9 Irdwired o | control – |
| operance 3 Fundam micropre | d multipl BASIC nental co ogramm ion sets | ication and fast multiplication – PROCESSING UNIT procepts – Execution of a compl | Integer d ete Instru concept | ivision iction · s – da | <u>– floa</u> – Mult ata ha | ting p T tiple b zards opera | oint numl otal Hrs us organ – instruc | bers izat | ion – Ha | erations. 9 Irdwired o | control – |
| operand 3 Fundam micropro Instructi 4 Basic co | d multipl BASIC nental co ogramm ion sets MEMC oncepts | ication and fast multiplication – C PROCESSING UNIT procepts – Execution of a compl red control - Pipelining – Basic – Data path and control conside DRY SYSTEM – decoders and encoders – m | Integer d ete Instru concept eration – ultiplexer | ivision uction - s – da Super | - floa - Mult ata ha scalar demu | iting p T iple b zards opera T ultiple | oint num otal Hrs us organ – instruc ation. otal Hrs | izat | ion – Ha hazard | erations. 9 Irdwired o Is – influo 9 | control – ence on |
| operand 3 Fundam micropro Instructi 4 Basic co | d multipl BASIC nental co ogramm ion sets MEMC oncepts size and | ication and fast multiplication – C PROCESSING UNIT oncepts – Execution of a compl led control - Pipelining – Basic – Data path and control conside DRY SYSTEM | Integer d ete Instru concept eration – ultiplexer | ivision uction - s – da Super | - floa - Mult ata ha scalar demu | iting p T iple b zards opera opera Itiples n. | oint num otal Hrs us organ – instruc ation. otal Hrs | izat | ion – Ha hazard | erations. 9 Irdwired o Is – influo 9 | control – ence on |
| operand 3 Fundam micropre Instructi 4 Basic cd Speed, 5 Accessi | d multipl BASIC ogramm ion sets MEMC oncepts size and I/O OF | ication and fast multiplication – C PROCESSING UNIT procepts – Execution of a compl red control - Pipelining – Basic – Data path and control conside DRY SYSTEM – decoders and encoders – m d cost – cache memories - Perfor RGANIZATION levices – Enabling and disabling | Integer d ete Instru concept eration – uultiplexer | ivision iction - s – da Super s and consid | – floa – Muli ata ha scalar demu eratio | iting p T iple b zards opera opera Ultipley n. | oint num otal Hrs us organ – instruc ation. otal Hrs cers - sei | bers izat ctior mico | ion – Ha hazard | erations. 9 irdwired c ls – influc 9 [•] RAMs, I 9 | control – ence on ROMs – |
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| operand 3 Fundam micropre Instructi 4 Basic cc Speed, 5 Accessi – Stand Total ho Text bo | a multipl BASIC ogramm ion sets MEMC oncepts size and I/O OF ing I/O c lard I/O ours to b ok (s) : Carl H 2002. | ication and fast multiplication – C PROCESSING UNIT procepts – Execution of a compl red control - Pipelining – Basic – Data path and control conside DRY SYSTEM – decoders and encoders – m d cost – cache memories - Perfo RGANIZATION levices – Enabling and disabling Interfaces (PCI, SCSI, USB). e taught | Integer d ete Instru concept eration – ultiplexen prmance o g Interrup d Safwa | ivision iction - s - da Super rs and consid ts - D | – floa – Mult ata ha scalar demu eratio irect N | ting p T iple b zards opera opera n. T Memor | oint num otal Hrs us organ – instruc otal Hrs cers - ser otal Hrs y Access r Organia | bers izat ctior mico | ion – Ha hazard | erations. 9 irdwired o ls – influe 9 [•] RAMs, I 9 Interface 45 | control – ence on ROMs – Circuits |
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| operand 3 Fundam micropru Instructi 4 Basic cu Speed, 5 Accessi – Stand Total ho Text bou 1 2 Referen | d multipl BASIC oncental co ogramm ion sets MEMC oncepts size and I/O OF ing I/O co ard I/O ours to b ok (s) : Carl H 2002. M.Mor nce (s) : Willian Pearso David | ication and fast multiplication – C PROCESSING UNIT oncepts – Execution of a compl led control - Pipelining – Basic – Data path and control conside ORY SYSTEM – decoders and encoders – m d cost – cache memories - Perfor RGANIZATION levices – Enabling and disabling Interfaces (PCI, SCSI, USB). e taught lamacher, Zvonko Vranesic an ris Mano," Digital Design," third | Integer d ete Instru concept eration – ultiplexen ormance o g Interrup d Safwa edition, F zation & ssy, "Cor | ivision iction - s - da Super rs and consid ts - D t Zaky Pearso Archi mputer | - floa - Multa ta ha scalar demu eratio irect N | ting p T T iple b zards opera opera T ultiple> n. T Memor ncatior e – [| oint numi otal Hrs us organ – instruc ation. otal Hrs ers - ser otal Hrs y Access r Organia , 2002. | bers izat ctior mico s - I | s and op ion – Ha hazard onductor Buses – on" 5 th E | erations. 9 Indwired c Is – influe 9 RAMs, I 9 Interface 45 Ed, McGi mance", | control – ence on ROMs – Circuits raw Hill, 6 th Ed., |
| operand 3 Fundam micropro- Instructi 4 Basic co Speed, 5 Accessi – Stand Total ho Text boo 1 2 Referen 1 | a multipl BASIC ogramm ion sets MEMC oncepts size and I/O OF ing I/O c ard I/O ours to b ok (s) : Carl H 2002. M.Mor nce (s) : Willian Pearse David interfa | ication and fast multiplication – C PROCESSING UNIT procepts – Execution of a compl red control - Pipelining – Basic – Data path and control conside DRY SYSTEM – decoders and encoders – m d cost – cache memories - Perfor RGANIZATION levices – Enabling and disabling Interfaces (PCI, SCSI, USB). e taught lamacher, Zvonko Vranesic an ris Mano," Digital Design," third n Stallings, "Computer Organi on Education, 2003 reprint. A.Patterson and John L.Henne | Integer d ete Instru concept eration – ultiplexen ormance o g Interrup d Safwa edition, F zation & ssy, "Cor 2002 rep | ivision iction - s - da Super rs and consid ts - D t Zaky Pearso Archi mputer rint. | - floa - Multa tata ha scalar demu eratio irect N irect N , "Col n Edu | ting p T iple b zards opera opera n. T Jultiple> n. T Aemor icatior | oint numi otal Hrs us organ – instruc- otal Hrs ers - ser otal Hrs y Access r Organia , 2002. | bers izat ctior mico s - I zati | s and op ion – Ha hazard onductor Buses – on" 5 th E r Perfore | erations. 9 Indwired c Is – influe 9 RAMs, I 9 Interface 45 Ed, McGi mance", | control – ence on ROMs – Circuits raw Hill, 6 th Ed., |
| operand 3 Fundam micropri Instructi 4 Basic cc Speed, 5 Accessi – Stand Total ho Text boo 1 2 Referen 1 2 | a multipl BASIC ogramm ion sets MEMC oncepts size and I/O OF ing I/O of ard I/O ours to b ok (s) : Carl H 2002. M.Mor nce (s) : Willian Pearso David interfa John F | ication and fast multiplication – C PROCESSING UNIT procepts – Execution of a compl red control - Pipelining – Basic – Data path and control conside DRY SYSTEM – decoders and encoders – m d cost – cache memories - Perfor RGANIZATION levices – Enabling and disabling Interfaces (PCI, SCSI, USB). e taught lamacher, Zvonko Vranesic an ris Mano," Digital Design," third n Stallings, "Computer Organi on Education, 2003 reprint. A.Patterson and John L.Henne ce", 2 nd Ed, Morgan Kaufmann, | Integer d ete Instru concept eration – nultiplexer ormance o g Interrup d Safwa edition, F zation & ssy, "Cor 2002 rep e & Orga | ivision iction - s - da Super rs and consid ts - D t Zaky Pearso Archi mputer rint. nizatio | - floa - Multa ta ha scalar demu eratio irect M r, "Con n Edu tectur tectur | ting p T T Siple b zards opera opera T Ultiple> n. T Memor Memor catior e – [unization | oint num otal Hrs us organ – instruc- instruc- otal Hrs ers - ser otal Hrs y Access r Organia , 2002. | zati zati mico zati zati | s and op ion – Ha hazard onductor Buses – on" 5 th E r Perfor , the har | erations. 9 ardwired c ls – influe 9 • RAMs, I 9 Interface 45 Ed, McGi mance", | control – ence on ROMs – Circuits raw Hill, 6 th Ed., software |

| K.S. | Rangasamy College of Techn | ology - A | Autone | omou | s Reg | ulation | | R 20 | 800 |
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| Department | Information Technology | Progra | imme | Code | &Nam | e laf | | .Tech. | |
| · | | Semes | tor III | | | Ini | ormation | Technol | ogy |
| | | Semes | | rs / W | ool | Credit | Mov | imum Ma | orko |
| Course Code | Course Name | | L | T T | eek P | Credit | | | |
| 000100010 | DATA STRUCTURES | | L 3 | | | 3 | CA | ES | Total |
| 08210304C | To learn the systematic wa | w of ool | - | 0 roble | 0 | - | 50 bo diffor | 50 | 100 |
| Objective(s) | organizing large amounts of data structures, efficiently imp | data, lea | rn to | progra | am in | C, efficiently | | | |
| 1 PRO | BLEM SOLVING | | | | Т | otal Hrs | | 9 | |
| Problem solving | – Top-down Design – Impleme | entation - | Efficie | ency – | Analy | /sis – Sampl | e algorith | ims. | |
| 2 LIST | 6, STACKS AND QUEUES | | | | T | otal Hrs | | 8 | |
| Abstract Data T | ype (ADT) – The List ADT – Th | e Stack A | DT – | The Q | ueue | ADT | | | |
| 3 TREE | S | | | | Т | otal Hrs | | 10 | |
| Queues (Heaps 4 SOR Preliminaries – | eral Idea – Hash Function – Se) – Model – Simple implementa TING AND SEARCHING Insertion Sort – Shellsort – F ary Search – Complexity Analys | tions – Bi leapsort | inary H | leap | T | otal Hrs | | 9 | |
| 5 GRA | | 510. | | | Т | otal Hrs | | 9 | |
| | pological Sort – Shortest-Path ning Tree – Prim's Algorithm | | | | | | | | |
| Text book (s) : | e taught | | | | | | | 45 | raphs – |
| | e taught | | | | | | | 45 | raphs – |
| | e taught Dromey, "How to Solve it by C | omputer" | (Chap | s 1-2) | , Pren | tice-Hall of I | ndia, 200 | | raphs – |
| 1 R. G. 2 M. A (chap | | Algorithm 6, 5.1-5.4 | Analy .1, 6.1 | sis in -6.3.3 | C", 2 | nd ed, Pears | on Educ | 06 ation Asi | a, 2004 |
| 1 R. G. 2 M. A (chap | Dromey, "How to Solve it by C Weiss, "Data Structures and s 3, 4.1-4.4 (except 4.3.6), 4.6 | Algorithm 6, 5.1-5.4 | Analy .1, 6.1 | sis in -6.3.3 | C", 2 | nd ed, Pears | on Educ | 06 ation Asi | a, 2004 |
| 1 R. G. 2 M. A. (chap 7.7.5 Reference (s) : 1 Y. La Asia, | Dromey, "How to Solve it by C Weiss, "Data Structures and 5 3, 4.1-4.4 (except 4.3.6), 4.6 7.7.6), 7.11, 9.1-9.3.2, 9.5-9.5 ngsam, M. J. Augenstein and A 2004. | Algorithm 6, 5.1-5.4 .1, 9.6-9.6 | Analy .1, 6.1 5.2, 9. enbau | /sis in -6.3.3 7). m, "Da | C", 2 3, 7.1- | nd ed, Pears 7.7 (except | on Educ 7.2.2, 7.4 |)6 ation Asi 4.1, 7.5.1 | a, 2004 I, 7.6.1, |
| 1 R. G. 2 M. A. (chap 7.7.5 Reference (s) : 1 Y. La Asia, | Dromey, "How to Solve it by C Weiss, "Data Structures and os 3, 4.1-4.4 (except 4.3.6), 4.6 , 7.7.6), 7.11, 9.1-9.3.2, 9.5-9.5 ngsam, M. J. Augenstein and A | Algorithm 6, 5.1-5.4 .1, 9.6-9.6 | Analy .1, 6.1 5.2, 9. enbau | /sis in -6.3.3 7). m, "Da | C", 2 3, 7.1- | nd ed, Pears 7.7 (except | on Educ 7.2.2, 7.4 |)6 ation Asi 4.1, 7.5.1 | a, 2004 I, 7.6.1, |

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| Departm | nent | Information Technology | Progra | amme | Code | &Nam | ne Inf | | 3.Tech. 1 Technol | 001/ |
| | | | Semes | ster III | | | | onnation | TECHNO | Ugy |
| | | | | | rs / W | eek | Credit | Ma | ximum M | arks |
| Course C | Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 0821030 | 05C | PRINCIPLES OF COMMUNIC | ATION | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| Objective | | To have understanding about Receivers), study in detail t Transmitters and Receivers, g digital transmission, have kno base band transmission, kno multiple access methods. | he differ gain know owledge ow the s | ent ty vledge about pread | pes o abou base | of FM t diffe band | transmitter rent digital r transmissio modulation | s & Re nodulatio n ISI ar | ceivers a on technio nd distort es and o | and PM ques for ion free |
| | 1PLITU CEPT | IDE MODULATION: TRANSMI | SSION A | ND | | | Total Hrs | | 9+3 | |
| Principles percent m modulator AM recep | s of an nodula r, AM t otion: A | nplitude modulation – AM enve tion, AM power distribution, AM transmitters – low level transmit M receivers – TRF, Superheter | modulate ters, high odyne re | or circ level ceiver | uits – transr s, Dou | low le nitters | vel AM mod , Receiver p onversion Al | ulator, m aramete | edium po rs. ers. | |
| | | IODULATION: TRANSMISSIO | | | | | Total Hrs | | 9+3 | |
| frequency modulator | y spec rs – Di | on – FM and PM waveforms strum of a angle modulated v rect FM and PM, Direct FM trar virect FM demodulators, Frequ | waves, E smitters, | Bandw Angle | idth r modu | equire Jatior | ment, Avera Vs. amplitu | age pov | ver FM a | |
| | | MODULATION TECHNIQUES | | | | | Total Hrs | | 9+3 | |
| | | K, Binary PSK, DPSK, Differer | | | | QPS | K, Binary FS | K, Duob | inary end | oding – |
| | | mparison of various systems of ND DATA TRANSMISSION | Digital IV | lodula | tion. | | Total Hrs | | 9+3 | |
| Sampling Aliasing, | theor Discr | em, Quadrature sampling of b ete PAM signals, ISI Nyquist nd M-ary PAM systems. | | | | | uction of me | | rom its s | |
| | READ | SPECTRUM AND MULTIPLE | ACCESS | | | | Total Hrs | | 9+3 | |
| Introductio | on, Ps pectrur | eudo-noise sequence, DS spr n, multiple access techniques, | | | | | | | | |
| Total hou | | | | | | | | | 60 | |
| Text book | . , | | | | | | | | | |
| | | Tomasi, "Electronic Communic n, 2007. (UNIT I Chapters – 3, 4 | | | | | | | anced", I | Pearson |
| 2 Sin Cha | non Ha apters | aykin, Digital Communications, | | | | | | | 4; UNIT \ | / |
| Reference | | | | | | , th | | | | |
| | | aykin, Communication Systems | | • | | | | | | |
| | | chilling, Principles of Communi | | | | | | | | |
| | | Roden, Analog and Digital Com | | | | | | | | |
| 4 Bla | ake, El | ectronic Communication Systen | ns, Thom | son D | elman | , 2 e | edn., 2005. | | | |

| | K.S.R | angasamy College of Tecl | nnology | - Auto | nomo | us Re | gulation | | R 20 | 800 |
|---------------------|-----------|---|------------|---------|---------|---------|----------------|-------------|------------|-----------|
| Depart | ment | Information Technology | Progra | amme | Code | &Nam | e . | | 3.Tech. | |
| 2 0 0 0.1 | | | | | | | In | formation | Technol | ogy |
| | | 1 | Sem | nester | | | | | | - |
| Course | Code | Course Name | | Ηοι | ırs / W | | Credit | | ximum Ma | arks |
| 000.00 | | | | L | Т | Р | С | CA | ES | Total |
| 08210 | 306C | ADVANCED C & C++ | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Object | ive(s) | Since C and C++ play a pl objectives can be achieve understand the concepts C++. | ed after s | studyin | ig this | subje | ct, review of | advance | ed feature | es of C, |
| 1 | ADVAN | NCED C | | | | ٦ | otal Hrs | | 9 | |
| Review | of Pointe | ers, Structures, Unions and F | ile Opera | ations | – Simp | ole Ap | olications. | | | |
| 2 | OVER | /IEW OF C++ | · · | | | 1 | otal Hrs | | 9 | |
| Principle | | ect-Oriented Programming - | - Beginnir | ng with | n C++ | - Toke | ns, Expressio | ons and C | Control St | ructures |
| 3 | | EPTS OF OBJECT-ORIENT RAMMING | ED | | | 1 | otal Hrs | | 9 | |
| | | bjects – Function Overloa neritance | ading, C | ору С | Constru | uctors | and Defaul | t argume | ents (| Operator |
| 4 | POINT | ERS AND FILE OPERATIO | NS | | | ٦ | otal Hrs | | 9 | |
| | | nces and Dynamic Memory cs: C++ Streams , Formattee | | | | - Virtu | al Functions | and Poly | morphisr | n – C++ |
| 5 | | IONAL FEATURES | | | | ٦ | otal Hrs | | 9 | |
| Templat Strings. | es – Ex | cception handling – Standa | rd Temp | late Li | ibrary: | Over | view, Contai | ner Clas | s, Vector | s, Lists, |
| Total ho | urs to be | e taught | | | | | | | 45 | |
| Text boo | ok (s) : | | | | | | | 1 | | |
| 1 | Yashav | vant Kanetkar, "Let us C", Bl | PB Public | ations | , 2006 | | | | | |
| 2 | Herber | t Schildt, "The Complete Rei | ference C | ;++", T | ata M | cGraw | Hill, Fourth E | Edition 20 | 08. | |
| Referen | ce : | | | | | | | | | |
| 1 | E. Bala | gurusamy, "Object Oriented | Program | mina v | with C- | ++", Ta | ata McGraw I | Hill, Fourt | h Edition | 2008. |
| | | <u> </u> | 3 | 9 | - | , | | , | | |

| К.9 | S.Rangasamy College of Techn | ology - A | Auton | omou | s Reg | Julation | | | 800 |
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| Department | Information Technology | Progra | amme | Code | &Nan | ne In | 21: E formation | B.Tech. 1 Techno | logy |
| | | Seme | ster II | | | | | | |
| Course Code | Course Name | | Hou | rs / W | eek | Credit | Ma | ximum M | arks |
| | | | L | Т | Р | С | CA | ES | Tota |
| 08210307P | DIGITAL AND HARDWARE | | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| LIST OF EXP | ERIMENTS | | | | | | | | |
| Design an Design an Design an Design an Design an Design an Study of N Study of S (i) Configure probler (ii) a. Instable b. Con | d implementation of combination d implementation of 4-bit binary a d implementation of magnitude c d implementation of application u d implementation of Shift register d implementation of Asynchronor fotherboard. MPS. ing BIOS setup program and pra ns using BIOS utility. all Hard Disk figure CMOS-Setup ster / Slave / IDE Devices | adder / si comparate ising mul rs. us and S | ubtraci or. tiplexe ynchrc | or usi rs and nous | ng MS d dem counte | SI devices. ultiplexers. ers. | onverters. | | |
| 10. (i) Printer i | | | Laser | printe | r | | | | |
| (ii) Install A | udio / Video devices a. Microphone Speaker Heads | et and W | eb car | nera | | | | | |
| | and configure Scanner and TV tunes card Installations a. Install and configure Interna b. Install and configure TV tune | | ernal N | /loden | n | | | | |
| b. For c. Wir d. Ide | tition Hard Disk using FDISK and mat Hard Disk Idows XP-Operating System Insta Intify problems with Software insta therboard CD | allation. | sing dr | ivers a | availal | ole in the | | | |
| | ntify the connectors using wireles etooth setup. | s device | S | | | | | | |

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| Department | Information Technology | Program | mme | Code | &Nam | ie Int | 21: B formation | 5.Tech. Technol | ogy |
| | | Semest | ter III | | | | | | |
| | Course Norse | | Hou | rs / W | eek | Credit | Max | kimum M | arks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210308P | DATA STRUCTURES LABORATORY | | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Objective(s) | To teach the students to wr Abstract Data Types, write pro | | | | | | | ta struct | ures as |
| | HE FOLLOWING EXERCISES | | | | | | | | |

| 08210309P ADVANCED C & C++ LABORATORY 0 0 3 2 50 50 100 I. Programs using C 1. Program using Structures with pointers 2. Program using File handling functions 100 | K.S. | Rangasamy College of Techn | ology - A | Auton | omou | s Reg | ulation | | R 20 | 800 |
|---|---|--|------------------------|-------------------|-----------------|---------|-------------|-----------|---------|-------|
| Course Code Course Name Hours / Week Credit Maximum Marks 08210309P ADVANCED C & C++ LABORATORY 0 0 3 2 50 50 100 1. Program using C 1. Program using Structures with pointers 2. Program using File handling functions 50 100 1. Programs using C++ 3. Programs Using Functions with default and const arguments 4. Implementation of Call by Value, Call by Address and Call by Reference 5. Simple Classes for understanding objects, member functions, Constructors and Destructors 6. Classes with primitive data members 7. Classes with arrays as data members 8. Program using Function Overloading including Unary and Binary Operators 9. Program using Function Overloading 10. Program using Inheritance 11. Multilevel Inheritance 12. Multiple Inheritance | Department | Information Technology | Progra | amme | Code | &Nam | e Inf | | | ogy |
| Course Code Course Name L T P C CA ES Total 08210309P ADVANCED C & C++ LABORATORY 0 0 3 2 50 50 100 I. Programs using C . | | | Semes | ster II | | | | | | |
| LTPCCAESTotal08210309PADVANCED C & C++ LABORATORY003250501001. Program using C1. Program using Structures with pointers 2. Program using File handling functionsII. Programs using C++3. Programs Using Functions with default and const arguments 4. Implementation of Call by Value, Call by Address and Call by Reference 5. Simple Classes for understanding objects, member functions, Constructors and Destructors 6. Classes with primitive data members 7. Classes with arrays as data members 8. Program using Function Overloading including Unary and Binary Operators 9. Program using Inheritance 11. Multilevel Inheritance | Qaura Qada | Course Norse | | Hou | rs / W | 'eek | Credit | Max | ximum M | arks |
| 0 0 0 3 2 50 50 100 1. Programs using C 1. Program using Structures with pointers 2. Program using File handling functions 1. Programs using C++ 3. Programs Using Functions with default and const arguments 4. Implementation of Call by Value, Call by Address and Call by Reference 5. Simple Classes for understanding objects, member functions, Constructors and Destructors 6. Classes with primitive data members 8. Program using Operator Overloading including Unary and Binary Operators 9. Program using Inheritance 11. Multilevel Inheritance 11. Multiple Inheritance 11. Multiple Inheritance 11. Multiple Inheritance 11. Multiple Inheritance | Course Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| Program using Structures with pointers Program using File handling functions II. Programs using C++ Programs Using Functions with default and const arguments Implementation of Call by Value, Call by Address and Call by Reference Simple Classes for understanding objects, member functions, Constructors and Destructors Classes with primitive data members Classes with arrays as data members Program using Operator Overloading including Unary and Binary Operators Program using Function Overloading Program using Inheritance Multilevel Inheritance Multiple Inheritance | 08210309P | | | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 2. Program using File handling functions II. Programs using C++ 3. Programs Using Functions with default and const arguments 4. Implementation of Call by Value, Call by Address and Call by Reference 5. Simple Classes for understanding objects, member functions, Constructors and Destructors 6. Classes with primitive data members 7. Classes with arrays as data members 8. Program using Operator Overloading including Unary and Binary Operators 9. Program using Inheritance 11. Multilevel Inheritance 12. Multiple Inheritance | I. Programs usi | ng C | | | | | | | | |
| Programs Using Functions with default and const arguments Implementation of Call by Value, Call by Address and Call by Reference Simple Classes for understanding objects, member functions, Constructors and Destructors Classes with primitive data members Classes with arrays as data members Program using Operator Overloading including Unary and Binary Operators Program using Inheritance Multilevel Inheritance Multiple Inheritance | | | | | | | | | | |
| 4. Implementation of Call by Value, Call by Address and Call by Reference 5. Simple Classes for understanding objects, member functions, Constructors and Destructors 6. Classes with primitive data members 7. Classes with arrays as data members 8. Program using Operator Overloading including Unary and Binary Operators 9. Program using Function Overloading 10. Program using Inheritance 11. Multilevel Inheritance 12. Multiple Inheritance | II. Programs us | ing C++ | | | | | | | | |
| 13. Hierarchical Inheritance 14. Hybrid Inheritance | 4. Implementati 5. Simple Class 6. Classes with 7. Classes with 8. Program usir 9. Program usir 10. Program us 11. Multilevel In 12. Multiple Inh 13. Hierarchical | on of Call by Value, Call by Add es for understanding objects, m primitive data members arrays as data members ng Operator Overloading including Function Overloading ing Inheritance heritance eritance | Iress and nember fu | Call b Inction | y Ref s, Coi | nstruct | ors and Des | structors | | |

16. Program using File Handling

17. Sequential access

- 18. Random access
- 19. Program using Templates
- 20. Program using exception Handling Mechanism
- 21. Program using Manipulating String Objects using pointers.

| | K.S.R | angasamy College of Techr | ology - A | Auto | nom | ous Re | gulation | | | R 2008 |
|-------------------|---------------------------------------|--|------------|--------|--------|--------------|----------------|-----------|--------------------|----------------|
| Depa | rtment | Information Technology | Progra | mme | e Cod | le & Nar | me I | | : B.Tec ion Tec | h. hnology |
| | | | Sem | este | r III | | | | | |
| 0 | | | | H | ours/\ | Week | Credit | Ν | <i>l</i> aximu | m Marks |
| Cours | e Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 0821 | 0310P | CAREER COMPETENCY DEVELOPMENT I | | 0 | 0 | 2 | 0 | 100 | 00 | 100 |
| Objec | ctive(s) | i. To improve the skill level of ii. To improve the employabil | | | 6 | | | | | |
| 1 | | le Skills | | | | | | | | Hrs |
| - Time b. Verl | and distand bal Reaso verbal Re | bility : Average - Numbers and ance - Trains bning : Series - Analogy - Cla easoning : Series – Analogy hming Skills | • | | entag | e - Pro | fit & loss - T | ime and | d work | 8 |
| C Lang Arrays | guage : B and Strir | asics of C - Data Types - Con ngs - Structures and Unions | ditional a | nd L | .oopir | ng State | ments – Fur | nctions | - | 6 |
| | correction | Communication Skills n in the usage of noun, pro n – Introduction to oral commu | | djec | tive, | Verb, A | Adverb & P | repositi | ons – | 4 |
| | | | | | | | | | | 2 |
| | | /ritten Test | | | | | | | | 2 |
| 4 | | ommunication Skills | | | | | (00 1) | | | |
| | | Two Minutes talk (each section Two minutes Extempore Spee | | | | | | ips of 22 | 2 | 2 2 |
| 5 | Technic | al Paper Presentation | | | | | | | | |
| Evalua | ation IV - | Technical Paper Presentation | I (Assoc | iatio | n Ses | ssion) | | | | 8 |
| | | | | | | | | | Total | 32 |
| Refere | ence(s): | | | | | | | | | |
| 1 | (Ch - 6, | garwal,"Quantitative Aptitud 7, 8, 10, 11, 15, 17 & 18) (uni | t – I) | | | | | | | |
| 2 | New De | garwal , "A Modern Approach Ihi, 2008, Part I – Section I (C | h - 1,2 & | . 3), | Part | - II (Ch | -1&2) (ur | nit — I) | | |
| 3 | Yashav (unit – I | ant Kanetkar, "Let us 'C'", B | SPB Publi | catio | ons, N | New Del | nı, 2002 (Cł | 1 -1, 3, | 4, 5, 6 | , 8, 9 and 10) |
| 4 | | uide by English Department of | KSRCT. | 200 | 8 (Un | nit – III. I | V & V) | | | |
| | | CRITERIA | , | | (| , | - / | | | |
| S.No. | Particul | | Test Po | ortion | 1 | | | | | Marks |
| | Evaluat | | | | | , Unit II | – OQ – 30 | | | |
| 1 | Written | Test | Unit III · | | | , | | | | 50 |
| 2 | | nutes Talk | P – 10 | Mark | ks, C | – 5 Mar | ks | | | 15 |
| 3 | | nutes speech Extempore | P – 10 | Mark | ks, C | – 5 Mar | ks | | | 15 |
| 4 | Evaluat Technic | ion IV cal Paper Presentation | P – 10 | Mark | ks, C | – 5 Mar | ks, Q – 5 | | | 20 |
| D_Dr | esentatio | n C – Content Q – Quei | ries C | Q – | Obje | ctive typ | pe question | T – T | otal | T = 100 |

Note :

- 1. Question paper and keys will be supplied by the training cell for written test for Evaluation I
- 2. Respective Departments will conduct Evaluation I, II, III & IV, correct and submit the marks obtained by the students to the Training Cell.
- 3. HODs will display about 50 topics for oral communication.
- 4. All training & tests will be conducted on odd Saturdays, Session of 2 periods in FN & Session of 2 periods in AN & Association Session.

| | K.S. | Rangasamy College of Techn | ology - / | Auton | omou | s Reg | Julation | | R 20 | 800 |
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| Depart | ment | Information Technology | Progra | amme | Code | &Nan | ne In | | B.Tech. n Technol | oav |
| | | | Semes | ster IV | , | | | Ionnation | 10011101 | ogy |
| Course | Codo | Course Name | | Hou | rs / W | eek | Credit | Ма | iximum M | arks |
| Course | Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 082104 | 101C | PROBABILITY AND STATIST | | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| Objecti | ve(s) | At the end of the course, the probability concepts, have a describe real life phenomena random variable and functions distributions and have acquire decision in management probl the process of making scientif the basics of Wavelet transform | well – fo , acquire s of ranc ed knowle ems, be ic judgme | oundec e skills lom va edge o exposi ents in | I know in ha ariable of stat ed to s the fa | vledge andling es, be istical statisti ace of | e of standar g situations introduced techniques ical methods | d distrib involving to the no useful in designe | utions wh g more th otion of s n making ed to conti | iich can nan one ampling rational ribute to |
| 1 | PROB/ | ABILITY AND RANDOM VARIA | | | | | Total Hrs | | 9+3 | |
| | ity mas | pability - Conditional probabili s function - Probability density ties. | | | | | | | | |
| | | DARD DISTRIBUTIONS & WAV | ELET TR | RANSF | ORM | S | Total Hrs | | 9+3 | |
| Introduct (t)-Haa | tion to v r Wave | d their properties. wavelet transforms-Definition-D let function (t) – Orthogonality DIMENSIONAL RANDOM VARI. | of (t) and | | tinuou | us wav | velet transfo | rms-Haa | ar scaling 9+3 | function |
| | | ns - Marginal and conditiona of random variables - Central lin | | | – Co | ovaria | nce - Corre | lation a | nd Regre | ession - |
| 4 | | NG OF HYPOTHESIS | | | | | Total Hrs | | 9+3 | |
| | | outions – Testing of hypothesis F distributions - Tests for indep | | | | | | | s using No | ormal, t, |
| 5 | DESIG | N OF EXPERIMENTS | | | | | Total Hrs | | 9+3 | |
| - | | ance-One way classification-CR | D -Two - | way c | lassifi | catior | n - RBD - La | tin squar | | |
| Total ho | | e taught | | | | | | | 60 | |
| Text boo | () | S., "A first Course in Probabilit | y", Fifth I | Edition | , Pea | rson E | Education, D | elhi 200 | 2. (Chapt | ers 2 to |
| 2 | | on. R. A., "Miller & Freund's P tion, Delhi, 2000. (Chapters 7, 8 | | / and | Statis | tics fo | or Engineers | s", Sixth | Edition, F | Pearson |
| Referen | | | | | | | | | | |
| 1 | Scient | le, R. E., Myers, R. H. Myers I ists", Seventh Edition, Pearsons | s Educati | on, De | lhi , 2 | 002. | | | - | |
| 2 | Hill, Ne | utz. S and Schiller. J, "Schaum ew Delhi, 1998. | | | | | | | | |
| 3 | | , S.C, and Kapur, J.N., "Fundar velhi, 1996. | nentals o | of Math | emati | cal St | atistics", Su | ltan Cha | nd, Ninth | Edition, |
| 4 | • | Daubechies, "Lectures on Wa)-89871-274-2. | velets", S | Society | y for | Indust | rial and Ap | plied Ma | thematics | s, 1992, |

| | 6.Rangasamy College of Tech | nology - | Autor | nomol | us Reg | gulat | ion | | R | 2008 |
|--|--|--|---|--|---|--|--|---|--|--|
| Department | Information Technology | Progra | amme | Code | &Nan | ne | In | | 1: B.Tech | |
| | | Seme | ester | IV | | | | | | |
| Course Code | Course Name | | Ηοι | urs / W | eek | C | redit | | Maximum | Marks |
| | | | L | Т | Р | | С | CA | A ES | Total |
| 08210402C | SOFTWARE ENGINEERIN | - | 3 | 0 | 0 | | 3 | 50 | | 100 |
| Objective(s) | To be aware of Different life and specification, architect strategies, project planning | tural and | detai | led de | esign | meth | ods, in | | | |
| 1 SOF | TWARE PROCESS | | 0 | , | | | tal Hrs | | ę | 9 |
| Engineering I 2 REQ Requirement Developing U Scenario Bas | ased Development. Agile Pro lierarchy – Risk Management: F UIREMENT ANALYSIS Engineering: Tasks, Initiating se Cases – Negotiating Require ed Modeling – Data Modeling | Risk Ident The Requerts – ' | uireme Valida | on – Ri ents E iting R | isk Pro nginee equire | ojecti To ering ement | on – Ris tal Hrs Proces ts – Bui | sk Ref | finement. citing Rec The Analy | 9 quirements, sis Models: |
| Behavioral M 3 SOF | TWARE DESIGN | | | | | То | tal Hrs | | | 9 |
| | epts – Design Models – Patterr Design and Patterns – Mapping | | | | sign – | | | | sion - Dai | a Design - |
| and Design. | Change Management. TWARE TESTING | g Data Fic | ow inte | o a Sc | oftware | | hitectur tal Hrs | e –Us | ser Interfa | |
| and Design. 4 SOF Software Tes Validation Te Structure Tes | Change Management. TWARE TESTING ting – Strategies – Issues – To sting – System Testing – Test ting – Black Box Testing – Testi | est Strate sting Tac | gies I tics: V | For Co Vhite | onvent Box T | To tional estin rver - | tal Hrs And C g, Bas - Test D | bject | Oriented th Testing entation. | ce Analysis 9 Software – |
| and Design.4SOFSoftware TestValidation TestStructure Test5SOFQuality ConcTechniques:Example ofReverse Eng | Change Management. TWARE TESTING ting – Strategies – Issues – Testing – System Testing – Testing – Testing – Testing – Black Box Testing – Testing TWARE PROJECT MANAGEM Pots – Software Quality Assura Software Sizing – Problem Ba FP Based Estimation – Empirineering. | est Strate sting Tac ing GUI – ENT nce – Es ased Estin | egies I tics: V Testin timation | For Co Vhite ng Clie on – S n – Ar | onvent Box T ent/Set Softwa | To tional restin rver - To re Pr mple | tal Hrs And C g, Bas - Test D tal Hrs oject E of LO | bject is Pat locum stimat | Oriented th Testing hentation. sed Estim ng – Ree | ce Analysis Software – O – Control Somposition ation – An ngineering: |
| and Design.4SOFSoftware TesValidation TesStructure Tes5SOFQuality ConcTechniques:Example ofReverse EngTotal hours to | Change Management. TWARE TESTING ting – Strategies – Issues – Testing – System Testing – Testing – Testing – Testing – Black Box Testing – Testing TWARE PROJECT MANAGEM Pots – Software Quality Assura Software Sizing – Problem Ba FP Based Estimation – Empirineering. | est Strate sting Tac ing GUI – ENT nce – Es ased Estin | egies I tics: V Testin timation | For Co Vhite ng Clie on – S n – Ar | onvent Box T ent/Set Softwa | To tional restin rver - To re Pr mple | tal Hrs And C g, Bas - Test D tal Hrs oject E of LO | bject is Pat locum stimat | Oriented th Testing hentation. sed Estim ng – Ree | ce Analysis Software – J – Control Somposition ation – An |
| and Design. 4 SOF Software Tes Validation Tes Structure Tes 5 SOF Quality Conc Techniques: Example of Reverse Eng Total hours to Text book : 1 Roge 2005 | Change Management. TWARE TESTING ting – Strategies – Issues – Testing – System Testing – Testing – Testing – Testing – Black Box Testing – Testing TWARE PROJECT MANAGEM to the structure of | est Strate sting Tac ing GUI – ENT nce – Es ased Estir rical Estir | egies I tics: V Testii timation nation | For Co Vhite ng Clie on – S n – Ar | onvent Box T ent/Se Softwa n Exa els – | To tional restin rver - To re Pr mple Proje | tal Hrs And C g, Bas - Test E tal Hrs oject E: of LO ect Sch | bject is Pat occum stimat C Bas nedulir | oriented th Testing entation. sion – Dec sed Estim ng – Ree | ce Analysis Software – O – Control Composition ation – An ngineering: |
| and Design. 4 SOF Software Tes Validation Tes Structure Tes 5 SOF Quality Conc Techniques: Example of Reverse Eng Total hours to Text book : 1 Roge 2005 Reference (s) | Change Management. TWARE TESTING ting – Strategies – Issues – Testing – System Testing – Testing – Testing – Black Box Testing – Testi TWARE PROJECT MANAGEM Epts – Software Quality Assura Software Sizing – Problem Ba FP Based Estimation – Empirineering. be taught r S. Pressman., Software Eng | est Strate sting Tac: ing GUI – ENT nce – Es ased Estin rical Estin ineering: | egies I tics: V Testin timation nation A Pra | For Co Vhite ng Clie on – S n – Ar Mode | onvent Box T ent/Se Softwa n Exa els – | To ional restin rver - To re Pr mple Proje | tal Hrs And C g, Bas - Test E tal Hrs oject E of LO ect Sch ach (Si | bject is Pat occum stimat C Bas nedulir | oriented th Testing entation. sion – Dec sed Estim ng – Ree | ce Analysis Software – O – Control Composition ation – An ngineering: |
| and Design.4SOFSoftware TesValidation TesValidation Tes5SOFQuality ConcTechniques:Example ofReverse EngTotal hours toText book :1Roge2005Reference (s)1I.Sor | Change Management. TWARE TESTING ting – Strategies – Issues – Testing – System Testing – Testing – Testing – Black Box Testing – Testing – Black Box Testing – Testing – Software Quality Assura Software Sizing – Problem Based Estimation – Empirimeering. be taught r S. Pressman., Software Engineering immerville, Software Engineering | est Strate sting Tac ing GUI – ENT nce – Es ased Estir rical Estir ineering: | tics: V Testin timation nation A Pra | For Co Vhite ng Clie on – S n – Ar Mode | onvent Box T BotWa Softwa els – her's A | To tional cestin To To re Pr mple Proje | tal Hrs And C g, Bas - Test D tal Hrs oject E: of LO0 ect Sch ach (Si ach (Si | bject is Pat occum stimat C Bas nedulir | oriented th Testing entation. sed Estim ng – Ree dition), M | ce Analysis Software – O – Control Composition ation – An ngineering: |
| and Design.4SOFSoftware TesValidation TesValidation Tes5SOFQuality ConcTechniques:Example ofReverse EngTotal hours toText book :1Roge2005Reference (s)1I.Sor2Pank | Change Management. TWARE TESTING ting – Strategies – Issues – To sting – System Testing – Testing – Black Box Testing – Testing TWARE PROJECT MANAGEM to the strate of the strategies of th | est Strate sting Tac ing GUI – ENT nce – Es ased Estin rical Estir ineering: , V Edition ch to Soft | egies I tics: V Testin timation nation A Pra | For Co Vhite ng Clie on – S n – Ar Mode actition | onvent Box T Bot T Softwa n Exa els – her's A Wesle eering, | To itional cestin rver - To re Pr mple Proje Appro | tal Hrs And C g, Bas - Test E tal Hrs oject E: of LO ect Sch ach (Si 96. nger Ve | bject is Pat Docum stimat C Bas nedulir xth E | oriented th Testing hentation. sion – Dec sed Estim ng – Ree 4 dition), M | ce Analysis Software – Control Composition ation – An ngineering: 5 cGraw Hill, |
| and Design. 4 SOF Software Tes Validation Tes Structure Tes 5 SOF Quality Conc Techniques: Example of Reverse Eng Total hours to Text book : 1 Roge 2005 1 I.Sor 2 Pank 3 Jame | Change Management. TWARE TESTING ting – Strategies – Issues – Testing – System Testing – Testing – Testing – Black Box Testing – Testing – Black Box Testing – Testing – Software Quality Assura Software Sizing – Problem Based Estimation – Empirimeering. be taught r S. Pressman., Software Engineering immerville, Software Engineering | est Strate sting Tac ing GUI – ENT nce – Es ased Estin rical Estir ineering: , V Edition ch to Soft | egies I tics: V Testin timation nation A Pra | For Co Vhite ng Clie on – S n – Ar Mode actition | onvent Box T Bot T Softwa n Exa els – her's A Wesle eering, | To itional cestin rver - To re Pr mple Proje Appro | tal Hrs And C g, Bas - Test E tal Hrs oject E: of LO ect Sch ach (Si 96. nger Ve | bject is Pat Docum stimat C Bas nedulir xth E | oriented th Testing hentation. sion – Dec sed Estim ng – Ree 4 dition), M | ce Analysis Software – Control Composition ation – An ngineering: 5 cGraw Hill, |

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| Depa | artment | Information Technology | Progra | mme | Code | &Nan | ne Inf | 21: B ormation | .Tech. Technol | ogy |
| | | | Semes | ter IV | | | | | | |
| Cours | se Code | Course Name | | Hou | rs / W | eek | Credit | Max | kimum M | arks |
| ooura | | | | L | Т | Р | С | CA | ES | Total |
| 0821 | 0403C | INFORMATION CODING TECHNIQUES | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Obje | ctive(s) | To have a complete under decoding of digital data streat their decoding techniques, has techniques, introduce the cond | ams, intro ave a de | duce tailed | metho know | ods fo ledge | r the genera of compres | ation of t | hese coo | des and |
| 1 | INFORM | MATION ENTROPY FUNDAME | NTALS | | | | Total Hrs | | 9 | |
| | | ormation and Entropy – Source | | | | | | | | |
| Discre 2 | | y less channels – channel capa ND VOICE CODING | acity – ch | annel | coding | j Theo | orem – Chan Total Hrs | nel capa | city Theo o | orem. |
| - | | e code Modulation – Adaptive I | Differenti | al Puls | | le Mo | | dantive s | ubband (| rodina – |
| | | n – Adaptive Delta Modulation - | | | | | | | | |
| 3 | ERROR | CONTROL CODING | | | | | Total Hrs | | 9 | |
| | omial – P | odes – Syndrome Decoding – arity check polynomial – Enco | | | | | | | | |
| 4 | COMPR | RESSION TECHNIQUES | | | | | Total Hrs | | 9 | |
| Image | Compres | xt compression – Static Huffn ssion – Graphics Interchange IPEG standards. | | | | | | | | |
| 5 | AUDIO | AND VIDEO CODING | | | | | Total Hrs | | 9 | |
| | | e coding – code excited LPC – sion – Principles – Introduction t | | | | | | s – Dolb | y audio c | oders – |
| | nours to b | | | | | | | | 45 | |
| Text b | ook (s) : | | | | | | | • | | |
| 1 | Simon H | laykin, "Communication System | ns", John | Wiley | and S | Sons, 4 | 4 th Edition, 2 | 001. | | |
| 2 | | alsall, "Multimedia Communicat on, Asia 2002; Chapters: 3, 4, 5 | | olicatio | ns Ne | etwork | s Protocols | and Star | idards", I | Pearson |
| Refere | ence (s) : | | | | | | | | | |
| 1 | | elson, "Data Compression Book | | | | | | | | |
| 2 | | on J, "Compression in Video ar | | | | | | | | |
| 3 | | san, S.Sureshkumar ,R.Mathus | oothana | S.kum | ar, "Ir | forma | tion theory a | and codir | ng", Anura | adha |

| | K.S. | Rangasamy College of Techn | ology - / | Auton | omou | s Reg | ulation | | R 20 | 008 |
|---------|------------------------|--|------------|----------|---------|---------|---------------|-----------|----------------------|----------|
| Depa | artment | Information Technology | Progra | amme | Code | &Nam | ne Inf | | 3.Tech. 1 Technol | ogy |
| | | | Semes | ster IV | 1 | | | | | |
| Couro | e Code | Course Name | | Hou | rs / W | 'eek | Credit | Ma | ximum M | arks |
| Cours | se Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 0821 | 0404C | JAVA PROGRAMMING | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objec | ctive(s) | Understand the concepts o Applications and applets, intr network programs in Java. | | | | | | | | |
| 1 | JAVA II | NTRODUCTION | | | | | Total Hrs | | 9 | |
| | erview o ds, Inheri | f Java, Data types, Variables itance. | and arra | ays, C | perat | ors, C | control state | ments, C | Classes (| Objects, |
| 2 | JAVA C | CONCEPTS | | | | | Total Hrs | | 9 | |
| Packa | ges and I | Interfaces, Exception handling, I | Multithrea | aded p | rograi | nming | | | | |
| 3 | PACKA | GES | | | | | Total Hrs | | 9 | |
| Lang p | backages | , Util packages – The Collection | s Frame | work, l | /O pa | ckage | s, Net work p | backage. | | |
| 4 | INTRO | DUCTION TO AWT | | | | | Total Hrs | | 9 | |
| Applet | s Packag | e, Event handling, Introducing t | he AWT: | worki | ng wit | h wind | lows, Graphi | cs and T | ext. | |
| 5 | AWT P | ACKAGE AND DATABASE CO | NNECTI | /ITY | | | Total Hrs | | 9 | |
| Using | AWT cor | trols, Layout Managers and Me | nus, Java | a Data | Base | Conn | ectivity (JDB | C). | | |
| Total h | nours to b | e taught | | | | | | | 45 | |
| Text b | ook (s) : | | | | | | | | | |
| 1 | Compa | Schildt, "The complete Refenny, 2006. | | | | | | | | - |
| 2 | H.M. De | eitel, P.J. Deitel "JAVA [™] How to | o program | n", sixt | h editi | on, Pe | earson Educa | ation – 2 | 007. [JDE | 3C only] |
| Refere | ence (s) : | | | | | | | | | |
| 1 | Advanc | ed programming in JAVA prenti | ce – Hall | of Ind | ia Priv | vate Li | mited NIIT – | 2003. | | |
| 2 | Pratik p press – | patel and Karlmoss "Java Data 2000. | a base pi | rogran | nming | with | JDBC", Sec | ond Edit | ion, Drea | am tech |

| K.S. | Rangasamy College of Techno | logy - A | uton | omo | us Regu | latio | n | | R | 2008 |
|-------------------------------------|--|--|----------------|-------|----------|---------|----------|-----------------------|------------------|----------|
| Department | Information Technology | Progra | ammo | e Coo | de &Nam | ne | Info | 21: B rmation | .Tech. Techno | ology |
| | S | Semester | IV | | | | | | | |
| Course Code | Course Name | | Н | ours/ | Week | C | redit | Max | imum I | Marks |
| Course Coue | | | L | Т | Р | | С | CA | ES | Total |
| 08210405S | DIGITAL SIGNAL PROCESSIN (Common to CSE and IT) | | 3 | 1 | 0 | | 4 | 50 | 50 | 100 |
| Objective(s) | To have an overview of signals design of FIR filters , the effect | | | | hs & app | olicati | ons of | | f IIR filt | ers, the |
| | S AND SYSTEMS | | | | _ | tal H | - | | 12 | |
| -Sampling theor Z transform -Cor | of digital signal Processing –Concem –Discrete time signals. Discrete time signals. Discrete to a correlation. | | | | Analysis | of Li | near tin | | iant sy | |
| | | | | | | tal H | - | | 12 | |
| | FT – Efficient computation of DFT ation in Frequency algorithms. | Propert | ies o | t DFT | – FFT a | algori | thms – | Radix-2 | 2 – Dec | cimation |
| | ER DESIGN | | | | То | tal H | re | | 12 | |
| - | System Design of Discrete tir | ne IIR fil | ter fr | om c | - | | - | <u> </u> ` _ IIR f | | sian hv |
| | ce. Bilinear transformation – Appl | | | | | 10 m | | | | olgin by |
| 4 FIR FILT | ER DESIGN | | | | То | tal H | ſS | | 12 | |
| | ntisymteric FIR filters – Linear sure for FIR systems. | phase fil | lter - | - Wir | ndowing | tech | nique - | - Recta | ingular, | Kaiser |
| | ORD LENGTH EFFECTS IN DIG | | | | | tal H | | | 12 | |
| rounding, Input | ntation – types, Quantization No quantisation ever – steady sta SP – Model of speech wave form | te input | nois | | | | | | | |
| Total hours to be | taught | | | | | | | | 60 | |
| Text book (s) : | | | | | | | | • | | |
| 1 John G Application | Proakis and Dimtris G Manola on", PHI/Pearson Education, 200 | akis, "Di <u>ç</u> 0, 3 rd Edi | gital tion. | Signa | al Proce | essing |) Princ | iples, A | lgorith | ms and |
| Reference(s): | | | | | | | | | | |
| 1 Alan V PHI/Pear | Oppenheim, Ronald W Schafe son Education, 2000, 2 nd Edition | er and J | ohn | RΒ | uck, "D | iscret | e Time | e Signa | l Proc | essing", |
| 2 2002. | Johnson, "Introduction to Digital | ÷ | | - | | | | | | |
| 3 Sanjit K Second I | .Mitra, "Digital Signal Processing Edition. | : A Com | pute | r – B | ased Ap | oproa | ch", Ta | ita McG | raw-Hil | I, 2001, |

| K.S | S.Rangasamy College of Tech | nology - A | Autono | omou | s Reg | ulation | | R 20 | 08 |
|--------------------------------|--|------------------------------|--------------------|-------------------|----------------|---------------|--------------------|------------|----------|
| Department | Information Technology | Progra | mme (| Code & | Name | e Info | 21: B. ormation | | ogy |
| | | Semest | ter IV | | | | | | |
| Course Code | Course Name | | Ηοι | irs / W | 'eek | Credit | Max | imum Ma | arks |
| Course Code | | | L | Т | Р | С | CA | ES | Total |
| 08210406C | MICROPROCESSORS AND MICROCONTROLLERS | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(s) | To study the architecture and programs in 8085 and 808 different peripheral devices programming of 8051 microco | 6, design and their i | and u | nderst | tand r | nultiprocess | or config | jurations, | study |
| 1 THE 8 | 3085 MICROPROCESSOR | | | | | Total Hrs | | 9 | |
| Introduction to | 8085-Microprocessor architect | ure-Instruct | ion se | t-Prog | Iramm | ing the 8085 | -Timing I | Diagram | |
| 2 8086 | SOFTWARE ASPECTS | | | | | Total Hrs | | 9 | |
| Language Prog | roprocessor –Architecture-Instr gramming-Interrupts and interru | | | | ler dir | | essing m | odes-As | sembly |
| | SYSTEM DESIGN | | | | | Total Hrs | | 9 | |
| | and timing -MIN/MAX mo | | eratior | n-Addr | essinę | g memory | and I/O | -Multipro | cessor |
| | Numeric Processor and Copro TERFACING | Jesson. | | | | Total Hrs | | 9 | |
| | acing and I/O interfacing-Paralle | | | | ace-S | erial Commu | nication i | interface. | Timer- |
| | OCONTROLLERS | | | - | | Total Hrs | | 9 | |
| Architecture o Application. | f 8051-Signals-Operational fe | atures- Ins | structio | on se | t-Mem | ory and I/C | O Addres | ssing-Inte | errupts- |
| Total hours to | be taught | | | | | | | 45 | |
| Text book (s) : | | | | | | | | | |
| Penra (UNIT | sh S.Goankar, "Microprocesso m International publishing priva –I:-Chapters 3, 5, 6 and progra | ate limited, i amming exa | fifth eo ample: | lition, s from | 2002. chapt | ters 7-10) | | | |
| | ay &K.M.Bhurchandi", Advanc | | | | | | hitectures | s, Progra | mming |
| Reference (s) | nterfacing", TMH, 2002 reprint.(| | | apters | 1-0,7 | . 1-7.3,0,10) | | | |
| . , | as V.Hall, "Microprocessor an | d Interfaci | ng" Pr | ogram | nming | and Hardwa | are".TMH | l, Third e | edition, |
| 2 Yu-ch | eng Liu, Glenn A.Gibson, " amming and Design", PHI 2003 | | ssor : | systen | ns: Tl | he 8086/808 | 38 Famil | ly Archit | ecture, |
| | med Ali Mazidi Janice Gillish | | "The | 8051 | micro | controller ar | nd ember | ddad sve | stoms" |

| K.S. | Rangasamy College of Techn | ology - A | Auton | omou | s Reg | ulation | | R 2 | 800 |
|--|----------------------------|--------------------------------|----------------|--------|---------|---------|--------------------|-------------------|------|
| Department | Information Technology | Progra | imme | Code | &Nam | le Int | 21: B formation | .Tech. Technol | logy |
| | | Semes | ter I∖ | 1 | | | | | |
| Course Code | Course Name | | Ηοι | rs / W | /eek | Credit | Мах | kimum M | arks |
| Course Code | Course Name | - | L | Т | Р | С | CA | ES | Tota |
| 08210407P | | | 50 | 50 | 100 | | | | |
| Program to il Program to ir Program usir Program to a | | and overri ces and p sm. | ding. ackaç | | bidance | 9. | | | |
| 10. Program us | • | | | | | | | | |
| • | ing Net package | | | | | | | | |

Program using Net package.
 Program using JDBC.

| n.ə. | Rangasamy College of Technol | ogy - Aut | tono | mous | Regu | lation | | R 20 | 008 |
|--|--|-----------|------|--------|------|--------|--------------------|---------------------|------|
| Department | Information Technology | Program | nme | Code | &Nam | le In | 21: E formatior | 3.Tech. 1 Techno | logy |
| | | Semester | r IV | | | | | | |
| Course Condo | | | Hou | rs / W | eek | Credit | Max | Maximum Marks | |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Tota |
| | DIGITAL SIGNAL PROCESSING LABORATORY | | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Program on Program on | of standard signals. convolution. Correlation. Sampling Theorem. Z Transform | | | | | | | | |

IIR filter structure by direct II form. *
 IIR filter structure by Parallel form. *

* It should be done in extra lab

| K.S. | Rangasamy College of Techn | ology - | Auton | omou | is Reg | ulation | | R 20 | 800 |
|---|--|-----------------|---------|---------|--------|-----------|-----|----------------------|------|
| Department | Information Technology | Progra | amme | Code | &Nam | ne Inf | | 3.Tech. 1 Technol | ogy |
| | | Semes | ster I\ | / | | | | | |
| Course Code | Course Name | | Ηοι | irs / W | /eek | Credit | Max | ximum M | arks |
| Course Code | Course Name | | | | | CA | ES | Tota | |
| 08210409P | MICROPROCESSORS AND MICROCONTROLLERS LABORATORY | | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| LIST OF EXPE 1. Programming Addition / Su | g with 8085-8-bit/16-bit multiplica | ation/divi | sion u | sing re | epeate | ed | | | |
| | g with 8085-code conversion, de | | thmet | c, bit | manip | ulations. | | | |
| | g with 8085-matrix multiplication ocessor based experiments-Sir | | ambly | langu | ado nr | oarame | | | |
| | ith 8085/8086-8255 Parallel Cor | | | | | ograms. | | | |
| • | ith 8085/8086-8253 Timer Interf | | | | • | | | | |
| 7. Interfacing w | ith 8085/8086-8279 Keyboard D |) Display In | terfac | ə. | | | | | |
| 8. Interfacing w | ith 8085/8086-8251Serial Comm | nunicatio | n Inte | face. | | | | | |

- 8. Interfacing with 8085/8086-8251Senal Communication Interface.
 9. 8051 Microcontroller based experiments-Simple assembly language programs.
 10. 8051 Microcontroller based experiments-Simple control applications.

| <u> </u> | K.S.Ra | ngasamy College of Tec | hnology - A | Auto | | | - | | | R 2008 |
|---|--------------------------------------|--|--|-----------------------|----------------|--------------------|----------------------------|-----------|----------------------|-------------------|
| Departmer | ent | Information Techn | ology | | | rogrami de & Na | | | 21: B.Te ation Te | ech. echnology |
| | | | Sem | leste | er IV | | | | | |
| 0 | | O | | Н | ours/\ | Neek | Credit | I | Maximu | m Marks |
| Course Co | bde | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210410 | | CAREER COMPETENCY DEVELOPMENT II | | 0 | 0 | 2 | 0 | 100 | 00 | 100 |
| Objective(| (s) | . To improve the skill level i. To improve the employa | | | S | | | | | |
| 1 Ap | ptitude | e Skills | | | | | | | | Hrs |
| interest - Co b. Verbal R test - Logic c. Nonverba | Compo Reaso c - Sta pal Rea | ility : Ratio and proportion und interest - Alligation or ning : Coding and decodir rement – Arguments - Stat asoning : Analytical Reaso | r mixture - Ang - Blood I tements - A | Area Rela Assui | tions mptio | - Puzzle ns | e Test - Dir | ections | - | 8 |
| | | ning Skills | | | | | | | | |
| | | Pointers - File Operations s : Linked List – Stack – C | | rtina | | | | | | 6 |
| | | communication Skills | zueue – 50 | ung | | | | | | 4 |
| - | | in the usage of conjunc | tions Tons | | Voice | s & Si | ibiect - ve | rh Aaro | oment | 7 |
| (concord) - Evaluation | · Essa I – W | y Writing | | | | | | | chicht | 2 |
| | | | | | | | | | | 0 |
| | | oup Discussion I Group Discussion II | | | | | | | | 2 2 |
| | | Paper Presentation | | | | | | | | 2 |
| | | echnical Paper Presentation | on II (Assoc | viatio | n So | seion) | | | | 8 |
| | 10,1 | | | Jano | 11 003 | 551011) | | | Tatal | 32 |
| Reference(| (s): | | | | | | | | Total | 32 |
| | . , | arwal,"Quantitative Aptitu | ide" S Cha | and a | & Co | mpany | Itd New | Delhi I | Reprint | 2007 (Twice |
| | | 16, 19, 20, 21, 22 & 24 (U | | | u 00 | mpany | | Bonn, 1 | topint | 2007 (1000) |
| 2 R.S Ltd. | S.Agga | arwal, "A Modern Approa v Delhi, 2008, Part I – Seo | ach to Verb | | | | | | | |
| 3 Yas | shava | nt Kanetkar, "Let us 'C' ", | BPB Publi | catio | ns, N | ew Delł | ni, 2002, Ch | ı - 5, 8, | 12 (Uni | t – II) |
| | irk Alle hit – II) | n Weiss, "Data Structure | s and Algor | ithm | Anal | ysis in C | C", Pearson | Educat | ion 2002 | 2, (Ch -3,7) |
| | | de of English Department | of KSRCT | - 20 | 08 (U | nit III, I | / & V) | | | |
| EVALUATIO | ION C | RITERIA | | | | | | | | |
| S No | rticula | | | | Test | Portion | I | | | Marks |
| , Ev: | aluatio | | | | Unit | III – OC | | | | 50 |
| | aluatio | on II iscussion I | | | P – ť Marl | | , C – 5 Mar | ks, TS - | - 5 | 15 |
| Wri 2 Eva | nun D | | | | | | | | | 1 |
| ¹ Wri 2 Eva 3 Eva | aluatio | on III | | | | | s, C – 5 Ma | arks, TS | - 5 | 15 |
| Wri 2 Eva 3 Eva 3 Gro 4 Eva | aluatio oup D aluatio | on III iscussion II | | | Mark | ٢S | s, C – 5 Ma s, C – 5 Ma | | | 15 20 |

Note :

- 1. Question paper and keys will be supplied by the training cell for written test for Evaluation I
- 2. Respective Departments will conduct Evaluation I, II, III & IV, correct and submit the marks obtained by the students to the Training Cell.
- 3. HODs will display about 50 topics for oral communication.
- 4. All training & tests will be conducted on odd Saturdays, Session of 2 periods in FN & Session of 2 periods in AN & Association Session.

| K.S. | Rangasamy College of Techn | ology - Auto | onomou | ıs Reg | gulatio | on | | R 20 | 08 |
|--|---|---------------------------|---------------|------------|--------------|-----------|------------------|-------------------|------------|
| Department | Information Technology | Program Na | me cod ame | e & | | Inforn | 21: B. nation | Fech. Fechnolo | gy |
| | | Semest | er V | | | | | | ~ |
| | | | Hou | rs / W | eek | Credit | Maximum Marks | | |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210501G | PROFESSIONAL ETHICS | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objectives | To create an awareness or Students. | h Ethics and | Human | instill Mo | oral an | d Social | Values i | | |
| 1 INTRODUCTION Total Hrs 9 Ethics defined – Engineering as a profession – Core qualities of professional practitioners – Theories of right | | | | | | | | | |
| 2 ENGINE | y – Moral dilemmas – Moral aut ERING AS SOCIAL EXPERIME with standard experiments – | ENTATION Relevant infe | ormatio | n – L | To earnin | | | | |
| | onsultants and leaders – Actual ules of practice and profession | | | | | | | | engineers |
| | ERS RESPONSIBILITY FOR | | | spuoo | | tal hrs | | <u>9 01007.</u> | |
| | isk – Types of risks – Safety a he three mile Island disaster ca | | | | | | | Benefit a | analysis |
| 4 RESPO | SIBILITIES AND RIGHTS | | | | То | tal Hrs | | 9 | |
| | Two senses of loyalty – Profes Confidentiality – Acceptance of | | | | | | | | Collectiv |
| 5 GLOBAL | ISSUES | | | | То | tal Hrs | | 9 | |
| | n – Cross Cultural Issues – Th – Intellectual property rights (IP | | is trage | dy cas | se stu | dy – Con | nputer | ethics - | Weapon |
| Total hours to | be taught | | | | | | | 45 | |
| Text book : | | | | | | | | | |
| 1 Govinda Delhi, 20 | rajan M, Natarajan S, Senthil K 05. | umar V.S, "E | inginee | ing Et | thics", | Prentice | Hall of | India (P) | Ltd, Nev |
| References: | | | | | | | | | |
| Limited, | Martin and Roland Schinzinge New Delhi, 2007. | | - | - | | | | - | |
| | n K.R., and Sendhil Kumar S., 2007. | "Professiona | al Ethics | and | Huma | n Values' | ', Anur | adha Pul | olications |

| | K.S.Ranga | asamy College of Techn | ology - / | Auton | omou | s Reg | ulation | | R 2 | 800 | |
|--|--|---|------------|---------|---------|---------|----------------|------------|--------------|---------|--|
| Departme | ant Inf | ormation Technology | Pro | gramn | | de & | | | .Tech. | | |
| Departitie | | officiation reenhology | | | me | | Inf | ormation | Technol | ogy | |
| | | | Seme | ster V | | | 1 | 1 | | | |
| Course Co | nde | Course Name | | Hou | rs / W | eek | Credit | Max | kimum M | arks | |
| | | | | L | Т | Р | С | CA | ES | Total | |
| 08210502 | DESI | | | 3 | 0 | 0 | 3 | 50 | 50 | 100 | |
| - | To understand the Object Oriented Life Cycle, know how to identify objects, relationships Objective(s) Services and attributes through UML, understand the use-case diagrams, know the Object Oriented Design process, know about Software Quality and Usability. Services and attributes through UML, understand the use-case diagrams, know the Object | | | | | | | | | | |
| 1 INTRODUCTION Total Hrs 8 | | | | | | | | | | | |
| Developme | An Overview of Object Oriented Systems Development - Object Basics – Object Oriented Systems Development Life Cycle. | | | | | | | | | | |
| 2 OBJECT ORIENTED METHODOLOGIES Total Hrs 12 | | | | | | | | | | | |
| Collaborati | ion Diagram OBJECT OI | odeling Language – Use - State Diagram - Activit RIENTED ANALYSIS - Object Analysis - Cl | ty Diagrai | n | | | Total Hrs | | 9 | | |
| Methods. | use cases | - Object Analysis - Ci | lassincati | 011 – | uentii | ying | | onsnips | - Allibu | les anu | |
| 4 (| OBJECT OI | RIENTED DESIGN | | | | | Total Hrs | | 8 | | |
| Design axi | ioms - Desig | gning Classes – Access L | ayer - Ol | oject S | torage | e - Ob | ject Interope | rability. | | | |
| 5 5 | SOFTWAR | E QUALITY AND USABIL | .ITY | | | | Total Hrs | | 8 | | |
| Designing | Interface O | bjects – Software Quality | Assuran | ce – S | ystem | Usat | oility - Measu | ring Use | r Satisfac | ction. | |
| Total hours | s to be taug | ht | | | | | | | 45 | | |
| Text book | (s) : | | | | | | | | | | |
| 1 / | Ali Bahrami | "Object Oriented System | ns Develo | pmen | t", Tat | a McC | Graw-Hill, 20 | 02 (Unit I | , III, IV, \ | /). | |
| 2 1 | Martin Fowl | er, "UML Distilled", Secor | nd Editior | , PHI/ | Pears | on Ed | ucation, 200 | 2. (UNIT | II). | | |
| Reference | (s) : | | | | | | | | | | |
| 1 5 | Stephen R. | Schach, "Introduction to (| Object Or | iented | Anal | ysis ai | nd Design", T | Fata McG | raw-Hill, | 2003. | |
| | | nbaugh, Ivar Jacobson, Idison Wesley, 1999. | , Grady | Booch | "The | e Uni | fied Modelir | ng Langi | lage Re | ference | |
| 3 I | | riksson, Magnus Penke | r, Brain | Lyons, | Davi | d Fac | lo, "UML To | olkit", Ol | MG Pres | s Wiley | |

| | K.S.F | Rangasamy College of Tecl | nnology - | Auto | nomo | us Re | gulation | | R 20 | 800 |
|------------|---------|---|-----------------------------|---------|-----------|---------------------|---------------------------|------------|-------------------|-----------------|
| Departm | ent | Information Technology | Pro | 0 | me Co | de & | | | B.Tech. | |
| Departin | ient | mormation recimology | | | ame | | In | formatio | n Technolo | ogy |
| | | | Sem | nester | V | | 1 | | | |
| Course C | aho' | Course Code | | Но | urs / W | /eek | Credit | Ma | aximum Ma | arks |
| | Joue | | | L | Т | Р | С | CA | ES | Total |
| 0821050 |)3C | OPERATING SYSTEMS | | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| | | To have an overview of d | | | | | | | | |
| Objective | e(s) | operating system have a | | | | | | | | norough |
| 1 | BASI | knowledge of storage mana | igement, i | know | the col | icepis | Total Hrs | | <u>ns.</u> 9+3 | |
| | | | on Svoto | ~~~ | Multin | raaaa | | Dietr | | tomo |
| | | /ainframe systems – Deskt ms – Real Time Systems – | | | | | | | | |
| | | ms - Process Concept - I | | | | | | | | |
| | | er-process Communication. | | | ug | • • • | | | | o o i a i i i g |
| 2 | PRO | CESS MANAGEMENT | | | | | Total Hrs | | 9+3 | |
| | | erview - Threading issues | | | | | | | | |
| | | orithms – Multiple-Processor | | | | | | e Critica | al-Section I | Problem |
| | | on Hardware – Semaphores | Classic | proble | ems of | Synch | nronization . | | | |
| 3 | | ORY MANAGEMENT - I | | | | | Total Hrs | | 9+3 | |
| | | - Deadlock Characterization | | | | | | | | |
| | | ance – Deadlock detection – | | | | | | | ent – Swa | ipping – |
| 4 | | nory allocation – Paging – Se DRY MANAGEMENT - II | egmentati | 011 - 3 | begine | | Total Hrs | • | 9+3 | |
| - | | - Demand Paging - Proces | s creation | - Pa | no Ro | | | tion of fr | | raching |
| | | Access Methods – Directory | | | | | | | | |
| | | /STEMS | | | e ejen | | Total Hrs | | 9+3 | |
| File Syste | em Str | ucture – File System Implem | nentation | – Dire | ctory | mplen | nentation – A | llocation | n Methods | - Free- |
| | | nent. Kernel I/Ó Subsystems | | | | | | | | |
| Space Ma | anager | nent. | | | | | | | - | |
| Total hour | | e taught | | | | | | | 60 | |
| Text book | : | | | | | | | | | |
| | | am Silberschatz, Peter Bae n, John Wiley & Sons (ASIA) | | | Greg (| Gagne | , "Operating | System | Concepts | s", Sixth |
| Reference | e (s) : | | | | | | | | | |
| 1 | Harve | y M. Deitel, "Operating Syste | ems", Sec | ond E | dition, | Pears | on Education | Pvt. Lto | d, 2002. | |
| 2 | Andre | w S. Tanenbaum, "Modern C | Operating | Syste | ms", P | rentice | e Hall of India | Pvt. Lto | d, 2003. | |
| 3 | Williar | n Stallings, "Operating Syste | m", Prent | ice Ha | all of In | dia, 4 ^t | ^h Edition, 200 |)3. | | |
| 4 | | od Chandra P. Bhatt – "An | | | | | | | nd Practic | e", PHI, |

2003.

| K.S | Rangasamy College of Tecl | hnology - | Autor | nomoi | us Re | gulation | | R 2 | 008 |
|--|---|-----------------------------------|-------------|--------------|--------|--|--------------------|-----------------------|-----------|
| Department | Information Technology | Pro | gramn Na | ne Coo me | de & | Inf | 21: B formation | .Tech. Technol | logy |
| | | Sem | ester \ | / | | | | | |
| Course Code | Course Name | | Hou | rs / W | eek | Credit | Ma | ximum M | arks |
| | | | L | Т | Р | С | CA | ES | Total |
| 08210504C | COMPUTER NETWORKS | | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| Objective(s) | To understand the concepts introduce IEEE standards familiarized with different Pro | employed | in C | omput | ter Ne | etworking, m | | | |
| 1 DATA CC | MMUNICATIONS | | | | | Total Hrs | | 8+3 | |
| OSI model – T | omponents and Categories –L ransmission Media – Coaxial | | | | | | | | |
| 2 DATA LIN | IK LAYER | | | | | Total Hrs | | 10+3 | |
| Stop and Wait 802.3 – IEEE 8 3 NETWOR Internetworks - | ion and Correction – Parity – t – go back-N ARQ – Selecti 302.4 - IEEE 802.5 - FDDI - Br K LAYER – Circuit Switching – Packet S | ive Repea idges. Switching– | IP add |)- Slid | ing W | indow – HD Total Hrs | LC. LAN | - Etherr 9+3 | net IEEE |
| | istance Vector Routing – Link ORT LAYER | State Rou | uting. | | | Total Hrs | | 9+3 | |
| Duties of Trar Transmission (| nsport Layer – Multiplexing - Control Protocol (TCP) – Cong | | | | | User Date ervices (QOS) | | Protocol grated Se | |
| | TION LAYER | | | | | Total Hrs | | 9+3 | |
| | e Space (DNS) – SMTP – F P-Access Authorization. | TP – HTT | P - W | /WW | – Sec | urity – Cryp | tography | -Privac | y–Digital |
| Total hours to | be taught | | | | | | | 60 | |
| Text book : | | | | | | | | | |
| | A. Forouzan, "Data commu Hill, Fourth Edition, 2006. | inication | and N | letwor | king | (MCGraw-Hil | ll Forouz | zan Netv | working", |
| Reference (s) : | | | | | | | | | |
| Fifth Editi | | • | | • | • | | | | |
| Series in | eterson and Bruce S. Davie, " Networking, Fourth Edition, 20 |)07. [·] | | | | | ch", The∣ | Morgan I | Kaufman |
| • | . Tanenbaum, "Computer Net | | | | | | | | |
| 4 William St | tallings, "Data and Computer (| N | | E toole (| 1 | | | | |

| K.S | Rangasamy College of Tech | | | | | lation | | R 20 | 008 |
|-----------------------------------|--|--|--------------------------------------|----------------------------------|-------------------------------------|---|--|---|---|
| Department | Information Technology | Prog | ramme | | e & | | | B.Tech. | |
| Department | momation reemblogy | | Nan | ne | | Int | formatio | n Technol | ogy |
| | | Semes | ter V | | | | | | |
| Course Code | | | Hou | rs / W | eek | Credit | Ma | iximum M | arks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210505S | DATABASE MANAGEMENT SYSTEMS | | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| Objective(s) | To learn the fundamentals of using ER diagram, make a internal storage structures u physical DB design, know th control techniques and reco emerging trends in the area o XML. | study of S using different le fundament overy proce | QL a ent fil ntal co edure, | nd rel e and oncep have | ationa I inde ts of t e an | I database xing techn ransaction introductor | design iques w process y know | , understa hich will sing- conc ledge ab | and the help ir currency out the |
| 1 INTRO | DUCTION AND CONCEPTUA | L MODELIN | ١G | | | Total Hrs | | 9+3 | |
| Introduction to | File and Database systems- D onal Algebra and Calculus. | | | tructu | re – D | | s – ER m | nodel – Re | elationa |
| | | | | | | Total Hrs | | 9+3 | |
| SQL-Data defi | nition- Queries in SQL- Upda | tes- Views- | Intear | itv an | d Sec | uritv - Rela | ational [| Database | desian |
| | endencies - Normalization for F | | | | | | | | |
| 3 DATA | STORAGE AND INDEXING CO | ONCEPTS | | | | Total Hrs | | 9+3 | |
| | e and Primary file organization lashing Techniques – Index Str | | | | | | | | |
| | SACTION MANAGEMENT | | | | | Total Hrs | | 9+3 | |
| Schedule and | rocessing – Introduction- Nee Recoverability- Serializability – concurrency control – Recovery g. | Concurrence | cy Cor | ntrol – | Types | s of Locks- | Two Pha | ase lockin | g- Time |
| | ENT TRENDS | | | | | Total Hrs | | 9+3 | |
| Types- Inherita data Storage - | d Databases – Need for Com ance Reference Types - Distr XML – Structure of XML- Data ta Warehousing. | ibuted data | bases | - Hor | nogen | ous and H | leteroge | nous- Dis | stributed |
| Total hours to | | | | | | | | 60 | |
| Text book : | | | | | | | • | | |
| | am Silberschatz, Henry F. Kortl w-Hill, 2006. | h and S. Su | Idarsh | an - "I | Datab | ase System | n Conce | pts", Fifth | Edition |
| Reference (s) : | | | | | | | | | |
| | z Elmasri and Shamkant B. Na tion, 2003. | vathe, "Fun | dame | ntal D | ataba | se Systems | s", Third | Edition, F | Pearsor |
| | Ramakrishnan, "Database Ma | nagement S | System | n", Tat | a McC | Graw-Hill Pu | ublishing | Compan | y, 2003 |
| | Garcia–Molina, Jeffrey D.Ulli on Education- 2000. | man and J | ennife | r Wid | om- " | Database | System | Impleme | ntation" |
| | Rob and Corlos Coronel- "E son Learning Course Technolo | | | | sign, | Implementa | ation an | d Manag | ement" |

| | K.S | Rangasamy College of Techn | ology - / | Auton | omou | s Reg | ulation | | R 20 | 800 |
|---|------------------------|--|------------------|----------------|----------------|--------|----------------------------|----------------------|-----------|---------------------|
| Depa | rtment | Information Technology | Pro | gramr | ne Co ame | de & | Inf | | B.Tech. | 0.001 |
| | | | Seme | | ame | | | ormation | 1 Technol | ogy |
| | | | Ocific | | rs / W | eek | Credit | Ma | ximum M | arks |
| Course | e Code | Course Name | | L | T | P | C | CA | ES | Total |
| 08210 |)506C | TELECOMMUNICATION SYST | TEMS | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(s) To gain knowledge about characteristics of Transmission and microwave devices, study about the fundamentals of satellite communication & optical communication, gain knowledge about advances in Telephone systems and TV systems, understand the essentials of cellu communication systems and wireless technologies. | | | | | | | | | | e about |
| 1 I | INTROD | OUCTION TO MICROWAVE AND |) RADAR | S | | | Total Hrs | ; | 9 | |
| Charac Magne | cteristics tron, TV | ines – Types and Characteristic , Radio Frequency wave pro /T)-(Principles Only) Radar - Pul /UCTION TO SATELLITE COM | pagation sed Rad | - Mic ar-CV | rowav V Rad | e –P | rinciples, D | evices (Block Di | Reflex k | Klystron, |
| - ' | | | | | | | | | Ũ | |
| Surveil System | llance, N n. | Satellite communication system lavigation, Mobile Communication | on, Digita | l Satel | lite Ra | | Satellite Tele | phone-G | | |
| | | OUCTION TO OPTICAL COMMU | NICATIC | N AN | D | | Total Hrs | ; | 9 | |
| Receiv | er –Fibe | mmunication systems – Fiber er optic Data communication s I Networks (ISDN) | | | | | | | | |
| | TELEVIS | | | | | | Total Hrs | ; | 9 | |
| | | Generating Video Signal – Colo Modern Cable TV System – Sat | | | | | | – TV r | eceiver - | Colour |
| | | IONE & WIRELESS TECHNOLO | | <u> </u> | | | Total Hrs | ; | 9 | |
| Wireles | ss LAN | none Systems – The advanced – PAN's & blue tooth – Zigbee – Infrared Wireless – Radio Fre | & Mesh | Wirel | ess N | etworl | ks – Wi-max | & Wire | ess Metr | ystem – opolitan |
| Total h | ours to l | be taught | | | | | | | 45 | |
| | ook (s) : | | | | | | | | | |
| ŀ | Hill, 200 | | | | | | | | | |
| 2 l | Louis E- | Frenzel, "Principles of Electronic | s Comm | unicati | on Sy | stem" | , 3 rd Edition, | Tata Mc | Graw-Hill | , 2008. |
| Refere | nce (s) : | | | | | | | | | |
| 1 \ | Wayne 7 | Fomasi, "Electronic Communicati | on syste | mc" / | th Edit | ion P | earson Educ | ation 20 | 00 | |
| | | | | 1115,4 | Euit | ion, i | | | 102. | |

| | Rangasamy College of Techn | ology - A | Auton | omou | s Reg | ulation | | R 2 | 800 |
|---|---|-------------|-------|--------|-------|---------|---------------|--------|------|
| Department | Information Technology | Pro | gramr | | de & | | | .Tech. | |
| Doparanoin | internation recenteregy | | | me | | Inf | formation | Techno | logy |
| | | Semes | | | | | 1 | | |
| Course Code | Course Name | | Hou | rs / W | eek | Credit | it Maximum Ma | | arks |
| Course Coue | Course Marile | | L | Т | Р | С | CA | ES | Tota |
| 08210507P | CASE TOOLS LABORATORY | | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Defining dra Create Preli Define requi Record Terr Design Use Identify pote Identify asso Develop cla Develop dep | minary investigation report rements | tial classe | es | | | | guidein | | |
| Student Mai Quiz System Online Ticke Payroll Syst Course Reg Expert System ATM System | et Reservation System em istration System ems ns | | | | | | | | |
| Student Mai Quiz Systen Online Ticke Payroll Syst Course Reg Expert Systen ATM Systen Stock Maint | ks Analyzing System o et Reservation System em istration System ems ns enance | | | | | | | | |
| Student Mai Quiz System Online Ticke Payroll Syst Course Reg Expert System ATM System Stock Maint Real-Time S | ks Analyzing System of et Reservation System em istration System ems ns enance Scheduler | | | | | | | | |
| Student Mai Quiz System Online Ticke Payroll Syst Course Reg Expert System ATM System Stock Maint Real-Time S | ks Analyzing System t et Reservation System em istration System ems ens enance Scheduler ocedure Call Implementation | | | | | | | | |

| K.S | Rangasamy College of Techn | ology - | Auton | omou | s Reg | ulation | | R 2 | 008 | |
|--|---|-------------------------------------|-----------------------------|------------------|---------|-----------------------------|--------------------|------------------|-------|--|
| Department | Information Technology | Pro | ogramr Na | ne Co Ime | de & | In | 21: B formation | .Tech. Techno | logy | |
| | | Seme | ster V | | | | | | | |
| <u> </u> | | | Hou | rs/W | /eek | Credit | Max | kimum M | Marks | |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Tota | |
| 08210508P | OPERATING SYSTEM AND C SOURCE LABORATORY | PEN | 0 | 0 | 3 | 2 | 50 | 50 | 100 | |
| (Implement the | following on LINUX platform. Us | se C for I | high le | vel lar | nguage | e implement | ation) | • | | |
| fork, exec, g 4. Write progra 5. Write C prog | nming ns ms using the following system ca etpid, exit, wait, close, stat, oper ms using the I/O system calls of rams to simulate UNIX comman | ndir, read UNIX op ds like Is | ldir berating , grep, | g syst etc. | em (op | oen, read, w | | | | |
| FCFS and S average turn 7. Given the lis | t of processes, their CPU burst t JF. For each of the scheduling p around time t of processes, their CPU burst t Round robin. For each of the sch | olicies, c imes and | comput d arriva | e and Il time | print t | he average lay/print the | waitir Gantt ch | ng time a | | |
| and average 8. Installation o 9. Installation o 10. User Creati 11. Configuratio | turnaround time f Open Source – Desktop Linux f Open Office, Mail client & Web on, Group Creation. on of DNS, DHCP. | OS, con /internet | figurati brows | on. | - | | | | 5 | |

12. Configuration of device like Printer, Ethernet and TCP /IP.

| K.S.I | Rangasamy College of Tee | chnology - / | Auton | omou | s Reg | ulation | | R 20 | 800 | |
|---|---|---------------------------|--------------|-------------|-------|---------|--------------------|-----------------------------|-------|--|
| Department | Information Technology | Name Information | | | | | | : B.Tech. ion Technology | | |
| | | Seme | ster V | | | | | | | |
| Course Code | Course Norse | | Hours / Week | | | Credit | Credit Maximum Mar | | | |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Total | |
| 08210509P | DATABASE MANAGEME SYSTEMS LABORATOR | | 0 | 0 3 2 100 0 | | 00 | 100 | | | |
| LIST OF EXPER | RIMENTS | | | | | | | | | |
| Data Manipu Data Control | ion Language (DDL) comma ulation Language (DML) cor I Language (DCL) comman | mmands in R ds in RDBM | RDBM | 6. | | | | | | |
| 5. High level la | anguage extension with Cura anguage extension with Trig | | | | | | | | | |

6. Procedures and Functions.

7. Embedded SQL.

8. Integrity in SQL.

9. Design and implementation of Payroll Processing System.

10. Design and implementation of Banking System.

11. Design and implementation of Library Information System.

| Semester V Course Code Course Name Hours/Week Credit L T P C | formati | Maximu | ch. chnology | | | | | | | | | |
|--|--|----------|-----------------|--|--|--|--|--|--|--|--|--|
| International of the served of the | M CA | Maximu | uniology | | | | | | | | | |
| Course Code Course Name Hours/Week Credit 08210510P CAREER COMPETENCY 0 0 2 0 0bjective(s) i. To improve the skill level of students. ii. To improve the employability of students 1 Aptitude Skills a. Arithmetic ability : Partnership - Chain rule – Calendar – Permutation - Data Inte Probability - Heights and Distance - - b. Verbal Reasoning : Logical Venn Diagrams - Logical Sequence of Words - reasoning - Data Sufficiency - Statement – Conclusion - Deriving condition from pass c. Nonverbal Reasoning : Rule detection - Cube and dice - 2 Programming Skills - - Data Structures : Tree - Graph - - - Diperator Overloading – Inheritance – Templates - File I/O 3 Written Communication Skills Error correction in the usage of degrees of comparison, conditional clauses, numerica expressions and system international (SI) units Paragraph Writing. - valuation II – Written Test 4 Oral Communication Skills - Group Discussion Demo - Listening comprehension Lab - - - 2 Interview Sills (Association Session) - - - 3 | CA | | | | | | | | | | | |
| Course Code Course Name L T P C 08210510P CAREER COMPETENCY DEVELOPMENT III 0 0 2 0 Objective(s) i. To improve the skill level of students. ii. To improve the skill evel of students 1 Aptitude Skills a. Arithmetic ability : Partnership - Chain rule – Calendar – Permutation - Data Inte Probability - Heights and Distance 0 0 2 0 Verbal Reasoning : Logical Venn Diagrams - Logical Sequence of Words - reasoning - Data Sufficiency - Statement – Conclusion - Deriving condition from pass 2. Nonverbal Reasoning : Rule detection - Cube and dice 2 Programming Skills Data Structures : Tree - Graph Dipict Oriented Programming : Introduction to C++ - Classes and Objects – Constru- Derator Overloading – Inheritance – Templates - File I/O 3 3 Written Communication Skills Error correction in the usage of degrees of comparison, conditional clauses, numerica expressions and system international (SI) units Paragraph Writing. Evaluation I – Written Test 4 Oral Communication Skills Group Discussion Demo - Listening comprehension Lab Evaluation II – Group Discussion 5 5 Interview Skills (Association Session) 1 6 Ch – 13, 14, 27, 30, 31, 34, 36, 37, 38, 39) (unit – I) | CA | | m Marks | | | | | | | | | |
| 08210510P CAREER COMPETENCY DEVELOPMENT III 0 0 2 0 Objective(s) i. To improve the skill level of students. ii. To improve the employability of students ii. To improve the employability of students 1 Aptitude Skills a. Arithmetic ability : Partnership - Chain rule – Calendar – Permutation - Data Inte Probability - Heights and Distance . . . 0. Verbal Reasoning : Logical Venn Diagrams - Logical Sequence of Words - reasoning - Data Sufficiency - Statement – Conclusion - Deriving condition from pass c. Nonverbal Reasoning : Rule detection - Cube and dice . 2 Programming Skills . . Data Structures : Tree - Graph . . . Object Oriented Programming : Introduction to C++ - Classes and Objects – Constru- Operator Overloading – Inheritance – Templates - File I/O . 3 Written Communication Skills . . Group Discussion Demo - Listening comprehension Lab Evaluation I – Written Test . . . 4 Oral Communication Skills Group Discussion Demo - Listening comprehension Lab Evaluation III – Group Discussion . < | - | ES | Total | | | | | | | | | |
| Objective(s) i. To improve the skill level of students. ii. To improve the employability of students 1 Aptitude Skills a. Arithmetic ability : Partnership - Chain rule – Calendar – Permutation - Data Inte Probability - Heights and Distance b. Verbal Reasoning : Logical Venn Diagrams - Logical Sequence of Words - reasoning - Data Sufficiency - Statement – Conclusion - Deriving condition from pass c. Nonverbal Reasoning : Rule detection - Cube and dice 2 Programming Skills Data Structures : Tree - Graph Object Oriented Programming : Introduction to C++ - Classes and Objects – Constru- Operator Overloading – Inheritance – Templates - File I/O 3 Written Communication Skills Error correction in the usage of degrees of comparison, conditional clauses, numerica expressions and system international (SI) units Paragraph Writing. Evaluation I – Written Test 4 Oral Communication Skills Group Discussion Demo - Listening comprehension Lab Evaluation II – Group Discussion 5 Interview Skills (Association Session) Evaluation II - Technical Interview I - Adaptability, Self development, Creat (Ch – 13, 14, 27, 30, 31, 34, 36, 37, 38, & 39) (unit – I) 2 R.S.Aggarwal , "Quantitative Aptitude", S.Chand & Company Ltd., New Det (Ln – 13, 14, 27, 30, 31, 34, 36, 37, 38, & 39) (unit – I) 3 Mark Allen Weiss , "Data Structures and Algorithm Analysis in C", Pearson Ec (unit – I) | | | | | | | | | | | | |
| 1 Aptitude Skills a. Arithmetic ability : Partnership - Chain rule – Calendar – Permutation - Data Inte Probability - Heights and Distance b. Verbal Reasoning : Logical Venn Diagrams - Logical Sequence of Words - reasoning - Data Sufficiency - Statement – Conclusion - Deriving condition from past c. Nonverbal Reasoning : Rule detection - Cube and dice 2 Programming Skills Data Structures : Tree - Graph Object Oriented Programming : Introduction to C++ - Classes and Objects – Construc Operator Overloading – Inheritance – Templates - File I/O 3 Written Communication Skills Error correction in the usage of degrees of comparison, conditional clauses, numerica expressions and system international (SI) units Paragraph Writing. Evaluation I – Written Test 4 Oral Communication Skills Group Discussion Demo - Listening comprehension Lab Evaluation III - Group Discussion 5 Interview Skills (Association Session) Evaluation IIV - HR Interview - Technical Interview I (Objective type questions semester subjects) Evaluation IV - HR Interview - HR Interview I - Adaptability, Self development, Creat Reference(s): 1 R.S.Aggarwal , "Quantitative Aptitude", S.Chand & Company Ltd., New Detender (Ch - 13, 14, 27 | bjective(s) ii. To improve the employability of students | | | | | | | | | | | |
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| semester subjects) <u>Evaluation IV - HR Interview - HR Interview I - Adaptability, Self development, Creat</u> Reference(s): R.S.Aggarwal , "Quantitative Aptitude", S.Chand & Company Ltd., New Determination (Ch - 13, 14, 27, 30, 31, 34, 36, 37, 38, & 39) (unit - I) R.S.Aggarwal , "A Modern Approach to verbal & Non-verbal Reasoning", S. New Delhi, 2008, Part I – Section I (Ch - 9,14,15 & 17) Part I–Section II (Ch 14) (unit - I) Mark Allen Weiss , "Data Structures and Algorithm Analysis in C", Pearson Ec (unit - II) Herbert Schildt , "The Complete Reference C++" Tata MacGraw Hill, 2002 (C 18, 21) CCD Guide by English Department of KSRCT, 2008 (Unit - III, IV & V) | | | | | | | | | | | | |
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| R.S.Aggarwal, "Quantitative Aptitude", S.Chand & Company Ltd., New Determination (Ch - 13, 14, 27, 30, 31, 34, 36, 37, 38, & 39) (unit - I) R.S.Aggarwal, "A Modern Approach to verbal & Non-verbal Reasoning", S. New Delhi, 2008, Part I – Section I (Ch - 9,14,15 & 17) Part I–Section II (Ch 14) (unit - I) Mark Allen Weiss, "Data Structures and Algorithm Analysis in C", Pearson Ec (unit - II) Herbert Schildt, "The Complete Reference C++" Tata MacGraw Hill, 2002 (C 18, 21) CCD Guide by English Department of KSRCT, 2008 (Unit - III, IV & V) | llivity | Total | 32 | | | | | | | | | |
| (Ch – 13, 14, 27, 30, 31, 34, 36, 37, 38, & 39) (unit – I) R.S.Aggarwal, "A Modern Approach to verbal & Non-verbal Reasoning", S New Delhi, 2008, Part I – Section I (Ch - 9,14,15 & 17) Part I–Section II (Ch 14) (unit – I) Mark Allen Weiss, "Data Structures and Algorithm Analysis in C", Pearson Ec (unit – II) Herbert Schildt, "The Complete Reference C++" Tata MacGraw Hill, 2002 (C 18, 21) CCD Guide by English Department of KSRCT, 2008 (Unit – III, IV & V) | | | | | | | | | | | | |
| R.S.Aggarwal , "A Modern Approach to verbal & Non-verbal Reasoning", S New Delhi, 2008, Part I – Section I (Ch - 9,14,15 & 17) Part I–Section II (Ch 14) (unit – I) Mark Allen Weiss , "Data Structures and Algorithm Analysis in C", Pearson Ec (unit – II) Herbert Schildt , "The Complete Reference C++" Tata MacGraw Hill, 2002 (C 18, 21) CCD Guide by English Department of KSRCT, 2008 (Unit – III, IV & V) | elhi, R | Reprint | 2007 (Twice | | | | | | | | | |
| (unit – II) 4 Herbert Schildt , "The Complete Reference C++" Tata MacGraw Hill, 2002 (C 18, 21) 5 CCD Guide by English Department of KSRCT, 2008 (Unit – III, IV & V) | | | | | | | | | | | | |
| 18, 21) 5 CCD Guide by English Department of KSRCT, 2008 (Unit – III, IV & V) | | | | | | | | | | | | |
| | 2h - 12 | 1, 12, 1 | 4, 15, 16,17 | | | | | | | | | |
| o Ink Interview Guide by Training Cell, KSRC1, 2008. | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| S.No. Particular Test Portion | | | Marks | | | | | | | | | |
| Evaluation IUnit I – OQ – 50, Unit II – OQ – 30Written TestUnit III – OQ 20 | | | 50 | | | | | | | | | |
| 2 Evaluation II - Group discussion P – 5 Marks, C – 5 Marks, TS – 5 Mark | ks | | 15 | | | | | | | | | |
| 3 Evaluation III - Technical Interview 6 questions each 2½ Marks | | | 15 | | | | | | | | | |
| 4 Evaluation IV HR Interview Creativity – 6 Marks (Adoptability – 7 Marks, Self developm marks) | | - 7 | 20 | | | | | | | | | |
| P-Presentation C-Content Q-Queries OQ-Objective type question T-Total TS-Te | nent – | - | | | | | | | | | | |

- 1. Question paper and keys will be supplied by the training cell for written test for Evaluation I
- 2. Respective Departments will conduct Evaluation I, II, III & IV, correct and submit the marks obtained by the students to the Training Cell.
- 3. HODs will display about 50 topics for oral communication.
- 4. All training & tests will be conducted on odd Saturdays, Session of 2 periods in FN & Session of 2 periods in AN & Association Session.
- 5. 66 students may be divided into 10 groups of 6 each. Each group may be evaluated in 10 Minutes for GD.
- 6. 60 objective type questions, 10 questions from each of 6 subjects are to be prepared. 1 question from each subject at random to be asked carrying 2½ marks each (6 x 2½ = 15 marks) for Technical Interview. Each section is divided into 3 groups of 22 each.

| K.S.I | Rangasamy College of Tech | nology | - Auto | onomo | ous Regu | lation | | K.S.Rangasamy College of Technology - Autonomous Regulation R 2008 | | | | | | | | | | |
|--|--|----------------------|---------------------|-------------------|--------------------------|------------------------------|---------------------|--|---------------------------|--|--|--|--|--|--|--|--|--|
| Department | Information Technology | Progra | amme | code & | & Name | Infor | | .Tech. Techno | ology | | | | | | | | | |
| | | Sem | nester | VI | | | | | | | | | | | | | | |
| Course Code | Course Name | | Ho | ours / V | Veek | Credit | Ма | aximum | Marks | | | | | | | | | |
| | | | L | Т | Р | С | CA | ES | Total | | | | | | | | | |
| 08210601G | PRINCIPLES OF MANAGE | | 3 | 0 | 0 | 3 | 50 | 50 | 100 | | | | | | | | | |
| Objective(s) | Knowledge on the principle organizations. After studyin of the managerial function Students will also gain some | g this co ns like | ourse, plann | studer ing, o | nts will be rganizing | e able to hav , staffing, | ve a cle leading | ar unde and c | erstanding ontrolling. | | | | | | | | | |
| 1. HISTORIC | CAL DEVELOPMENT | | | | Tot | tal Hrs | | 9 | | | | | | | | | | |
| | nagement – Science or Art – ibution of Taylor and Fayol – | | | | | | | | | | | | | | | | | |
| 2. PLANNIN | | | 15 01 10 | lanaye | | tal Hrs | 5111055 (| Jiyanis 9 | | | | | | | | | | |
| Nature & Purpos | se – Types of Plans – Steps ir Objectives – Strategies, Polic | | | | - Objectiv | es – Setting | | | | | | | | | | | | |
| 3. ORGANIS | SING | | | | Tot | tal Hrs | | 9 | | | | | | | | | | |
| Theories - Mot | Factors – Leadership – Typ ivational Techniques – Job | Enrichn | nent - | - Com | Motivation Municatio | on – proce | ss of (| | | | | | | | | | | |
| 5. CONTRO | akdown – Effective Communi | cation - | Electi | ronic m | | communicat | ion. | 9 | | | | | | | | | | |
| | cess of Controlling – Require | monte f | or off | octivo | _ | | 28 00 | | chnique - | | | | | | | | | |
| Information Tech and Managemen Environment – G | nnology in Controlling – Use on t – Control of Overall Perfor Blobalization and Liberalization | of compu mance - | uters ir - Direo | n handl ct and | ling the ir preventiv | nformation - re Control - | - Produ - Repor | ctivity – ting – T of Man | Problems he Global | | | | | | | | | |
| Total hours to be | e laught | | | | | | | 45 | | | | | | | | | | |
| Text book (s): | aritz & Hainz Maibriah "Easa | ntiala of | Mana | | t" Toto N | Ac row Hill | 1000 | | | | | | | | | | | |
| | oritz & Heinz Weihrich, "Esse | | | - | | | | | 2002 | | | | | | | | | |
| | Massie, "Essentials of Manag | ement, | Prenu | ce Hai | i ol india, | (Pearson) | Fourth | Eallion, | 2003. | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Reference(s): | C. And Reddy PN "Principles | of Man | aneme | nt" Ta | ita McGra | aw Hill 100 | a | | | | | | | | | | | |
| 1.Tripathy P2.Decenzo | C And Reddy PN, "Principles David, Robbin Stephen A, " 6. | | • | | | | | Prenti | ce Hall of | | | | | | | | | |
| 1. Tripathy P 2. Decenzo India, 199 | David, Robbin Stephen A, " | Personn | el and | d Hum | an Reas | ons Manag | ement", | | | | | | | | | | | |
| 1.Tripathy P2.DecenzoIndia, 1993.JAF Stom | David, Robbin Stephen A, " 6. | Personn R "Gilbe | el and ert Mar | d Hum | an Reas ent", Pea | ons Manag rson Educa | ement", | | | | | | | | | | | |

| | K.S.Rangasamy College of Technology - Autonomous Regulation R 2008 | | | | | | | | | |
|---------|--|--|---|--|--|---|--|--|--|--|
| Depar | tment | Information Technology | Pro | gram | | de & | Let 4 | | Tech. | |
| | | 57 | Semes | | ame | | Int | ormation | Technol | ogy |
| | | | Seme | | rs / W | ook | Credit | Mo | kimum Ma | orko |
| Course | Code | Course Name | | L | T | P | Credit | CA | ES | Total |
| 09210 | 6028 | | | З | 1 | Р 0 | 4 | 50 | 50 ES | 100 |
| 08210 | 0023 | NUMERICAL METHODS At the end of the course, th | a studar | - | - | | | | | |
| Object | ive(s) | numerical methods and their us or transcendental) equations, problem of a matrix can be obt When huge amounts of experir will be useful in constructing intermediate values, numerical in the analytical form is too con | ses are s solutions ained nu nental da approxim different mplicated | umma s of la merica ita are nate p iation l or the | rized a arge s ally wh involv olynor and in e huge | as foll ystem nere a ved, th nial to itegrat | ows: The roc of linear e nalytical me ne methods c prepresent tion find app unts of data | ots of nor quations hods fail liscussed the data lication w | nlinear (a and eig to give s d on inter and to /hen the | lgebraic envalue solution. polation find the function |
| 1 | 000 | of measurements, observations | | | empi | rical ir | Total Hrs | 1 | 9+3 | |
| 1 | | BLEMS | JEINVAL | | | | | | 9+3 | |
| Gauss- | interpol Jordon | ation methods (method of false p methods- Iterative methods: Ga method – Eigenvalue of a matrix | auss Jaco | obi an | d Gau | | | | | |
| 2 | | RPOLATION AND APPROXIMA | | | | | Total Hrs | | 9+3 | |
| • | • | olynomials – Divided difference rence formulas. | s – Inter | polati | ng wit | hac | ubic spline | Newto | on's forwa | ard and |
| 3 | | ERICAL DIFFERENTIATION AN | D INTEG | RATIO | DN | | Total Hrs | | 9+3 | |
| | | om difference tables - Divided | | | | | | | | |
| | | d Simpson's 1/3 and 3/8 rules – Jble integrals using trapezoidal a | | | | Two | and Three p | oint Gau | ssian qua | adrature |
| 4 | INITIA | AL VALUE PROBLEMS FOR OR ERENTIAL EQUATIONS | | | | | Total Hrs | | 9+3 | |
| | step me I for so Is. | ethods: Taylor series method – E Iving first other equations – M | ultistep i | metho | ds: M | | | | | |
| 5 | | NDARY VALUE PROBLEMS IN (TAL DIFFERENTIAL EQUATIO | | RY AN | D | | Total Hrs | | 9+3 | |
| dimens | differen ional h | ce solution of second order or eat equation by explicit and i aplace and Poisson equations. | dinary di | | | | | | | |
| | | be taught | | | | | | | 60 | |
| Text bo | ok : | | | | | | | • | | |
| 1 | | asamy, P., Thilagavathy, K. and 2003. | I Gunava | athy, K | ., "Nu | imeric | al Methods" | , S.Chan | d Co. Lt | d., New |
| Referen | | | | | | | | | | |
| 1 | | d, C.F, and Wheatley, P.O, "App Delhi, 2002. | lied Num | erical | Analy | sis", S | Sixth Edition, | Pearson | Educatio | on Asia, |
| | | | | | | - | | | | |

| Department Information Technology Programme Code & Name 21: B. Tech. Information Technology Semester VI Course Code Course Name Hours / Week Credit Maximum Marks 08210603C TCP/IP AND SOCKET 3 0 0 3 50 50 100 08210603C TCP/IP AND SOCKET 3 0 0 3 50 50 100 Objective(s) To know about IP layer protocols, know about Transport Layer Protocols, know about Routing and applications. 1 INTERNET PROTOCOLS Total Hrs 12+3 The OSI model and the TCP/IP protocol suite – IP addresses : classful addressing, classless addressing – delivery, forwarding and routing of IP packets – ARP and RARP – Internet Protocol – Internet Control Message Protocol – Internet Group Management Protocol. 2 TRANSMISSION CONTROL PROTOCOL Total Hrs 8+3 User Datagram Protocol – Transmission Control Protocol – Stream Control Transmission Protocol. 3 ROUTING AND APPLICATION LAYER PROTOCOLS Total Hrs 9+3 Unicast Routing Protocols – RIP, OSPF and BGP – Host Configuration – BOOTP, DHCP – Domain Name System. 4 ELEMENTARY SOCKETS Total Hrs 8+3 <td< th=""><th></th><th>K.S</th><th>Rangasamy College of Techn</th><th>ology - A</th><th>Auton</th><th>omou</th><th>s Reg</th><th>ulation</th><th></th><th>R 2</th><th>800</th></td<> | | K.S | Rangasamy College of Techn | ology - A | Auton | omou | s Reg | ulation | | R 2 | 800 |
|--|---------------------|--------------------------------|--|-----------------|---------|---------|----------|---------------|------------|------------|----------|
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| LL T P C CA ES Total 08210603C TCP/IP AND SOCKET PROGRAMMING 3 0 0 3 50 50 100 Objective(s) To know about IP layer protocols, know about Transport Layer Protocols, know about Routing and applications layer protocols, know about Elementary sockets, understand the socket programming applications. Total Hrs 12+3 1 INTERNET PROTOCOLS Total Hrs 12+3 The OSI model and the TCP/IP protocol suite – IP addresses : classful addressing, classless addressing – delivery, forwarding and routing of IP packets – ARP and RARP – Internet Protocol – Internet Control Message Protocol – Internet Group Management Protocol. Total Hrs 8+3 User Datagram Protocol – Transmission Control Protocol – Stream Control Transmission Protocol. 3 ROUTING AND APPLICATION LAYER PROTOCOLS Total Hrs 9+3 Unicast Routing Protocols – RIP, OSPF and BGP – Host Configuration – BOOTP, DHCP – Domain Name System. 9+3 4 ELEMENTARY SOCKETS Total Hrs 8+3 5 SOCKET PROGRAMMING APPLICATIONS Total Hrs 8+3 TCP Echo Client Server – UDP Echo Client Server – Elementary Name and Address Conversions. Remote login : TELNET – File Transfer : FTP and TFTP. 60 Total hours to be taught <t< td=""><td>Course</td><td>Code</td><td>Course Name</td><td></td><td>Hou</td><td>rs / W</td><td>eek</td><td>Credit</td><td>Max</td><td>cimum M</td><td>arks</td></t<> | Course | Code | Course Name | | Hou | rs / W | eek | Credit | Max | cimum M | arks |
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| login : TELNET – File Transfer : FTP and TFTP. Total hours to be taught 60 Text book : 1 1 Behrouz A. Forouzan, "TCP/IP Protocol Suite", Third Edition, Tata McGraw Hill, New Delhi, 2007. Reference (s) : 1 1 Douglas E.Comer, "Internetworking with TCP/IP, Principles, Protocols, and Architecture", Fifth Edition, Prentice Hall, New Delhi, 2007. | 5 | SOCK | ET PROGRAMMING APPLICAT | FIONS | | | | Total Hrs | | 8+3 | |
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| 1 Behrouz A. Forouzan, "TCP/IP Protocol Suite", Third Edition, Tata McGraw Hill, New Delhi, 2007. Reference (s) : 1 1 Douglas E.Comer, "Internetworking with TCP/IP, Principles, Protocols, and Architecture", Fifth Edition, Prentice Hall, New Delhi, 2007. | Total ho | ours to b | be taught | | | | | | | 60 | |
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| | 1 | | | th TCP/IF | P, Prin | ciples | , Prot | ocols, and A | rchitectu | re", Fifth | Edition, |
| Z Trionard devens.w, on retwork rogramming, rhind Edulor, riendee rail, new Delli, 2003. | 2 | | | grammin | g", Thi | rd Ed | ition, F | Prentice Hall | , New De | lhi, 2003 | |

| Department Information Technology Programme Code & Name 21: B. Tech. Information Technology Semester VI Course Code Course Name Hours / Week Credit Maximum Marks 08210604C VISUAL PROGRAMMING 3 1 0 4 50 50 100 Objective(s) To introduce the concepts of windows programming, introduce GUI programming using Microsoft Foundation Classes, enable the students to develop programs and simple applications using Visual C++. 9 1 WINDOWS PROGRAMMING Total Hrs 9 Windows Environment – A Simple Windows Program – Windows and Messages – Creating the Window – Message Loop – the Window Procedure – Message Processing – Text Output – Painting and Repainting – Introduction to GDI – Device Context – The Keyboard-The Scroll Bar. 2 2 VISUAL C++ PROGRAMMING – INTRODUCTION Total Hrs 9 Application Framework – MFC Library – Visual C++ Components – Event Handling – Mapping Modes – Colors – Fonts – Modal and Modeless Dialog – Windows Common Controls. 3 THE DOCUMENT AND VIEW ARCHITECTURE Total Hrs 9 Menus – Keyboard Accelerators – Rich Edit Control – Toolbars – Status bars – Separating Document From Its View – Reading and Writing SDI and MDI Documents – Splitter Window and Multiple Views – Creating DLLs. 4 <th>K.S.</th> <th>Rangasamy College of Techn</th> <th>ology - A</th> <th>Autono</th> <th>omou</th> <th>s Reg</th> <th>ulation</th> <th></th> <th>R 20</th> <th>800</th> | K.S. | Rangasamy College of Techn | ology - A | Autono | omou | s Reg | ulation | | R 20 | 800 |
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| Edition, Microsoft press, 2004 Reprint (Unit II – V) Reference : | 1 Charle | s Petzold, "Windows Programm | ing", Mici | rosoft j | oress, | 2003 | (Unit I) | | | |
| Reference : | | | | | ngo, ʻ | Progr | amming Mid | crosoft V | isual C+ | +" Fifth |
| 1 Steve Holtzner, "Visual C++ 6 Programming", Wiley Dreamtech India Pvt. Ltd., 2003. | | | · | / | | | | | | |
| | 1 Steve | Holtzner, "Visual C++ 6 Program | nming", V | Viley D | ream | ech li | ndia Pvt. Ltd | ., 2003. | | |

| К.5 | Rangasamy College of Techn | ology - / | Autono | omou | s Reg | Julation | | R 2 | 800 | |
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| Department | Information Technology | Pro | ogramn Na | ne Co me | de & | Ini | | B.Tech. n Technol | ogy | |
| | | Seme | ster VI | | | | | | | |
| Course Code | Course Name | | Hou | rs / W | eek | Credit | Ma | ximum M | arks | |
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| 08210605C | WEB TECHNOLOGY | | 3 | 1 | 0 | 4 | 50 | 50 | | |
| Objective(s) | Students will get an introducti with an up-to-date survey of d techniques involved to suppor | evelopme | ents in | Web | Tech | nologies; en pment. | able the | students | to know | |
| | DUCTION | | | | | | l Hrs | | 9 | |
| Object Based | Internet and World Wide Web - Scripting for the web – Control S | | | | | rays – Objeo | cts. | _ | | |
| | MIC HTML Object refers, Collectors all and | | | | | | l Hrs | | 9 | |
| Creating Grad set – Sorting ta | lers – Flip Filters – Chrome Fi ients – Creating Motion with Blu able data – Binding of an Image | r – Data | Bindin | | | Data Bindin | g – Mov | /ing with a | a record | |
| | IMEDIA | | | | | | l Hrs | | 9 | |
| - Online Payn | eo speech synthesis and recogni nents and Security – Web Serv Server side Scripting – Accessing | ers – HT | TP red | quest | types | - System A | Architect | | | |
| | BASE- ASP – XML | | | | | | l Hrs | | 9 | |
| Session tracki XML – Structu | ational Database model – SQL ng and cookies – ADO – Acces re in Data – Name spaces – DTE | s a Data | ibase f | rom A | ASP – | Server side | - File S Active- | System O X Compo | bjects – onents – | |
| | LETS AND JSP | | | | | | l Hrs | | 9 | |
| request - mult | Servlet Overview Architecture – i-tier applications – JSP – Overvi | | | | | | | | | |
| Practical | | | | | | | | | 0 | |
| Tutorial hours | | | | | | | | | 5 | |
| Total hours to | be taught | | | | | | | 6 | 60 | |
| Text book : | | | | | | | th | | | |
| Asia, | | d world w | vide we | b – H | ow to | Program", 4 | " ed., P | earson Eo | ducation | |
| Reference (s) | | | | | | | | | | |
| • | anatel, "Web Programming: Desl | • | • | - | 'HI, 20 | 04. | | | | |
| 2 Rajka | mal, "Web Technology", Tata Mo | :Graw-Hi | ll, 200′ | | | | | | | |

| K.S. | Rangasamy College of Techn | ology - Ai | uton | omou | s Reg | ulation | | R 20 | 800 |
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| Department | Information Technology | Prog | | ne Co ime | de & | Inf | 21: B formation | .Tech. Technol | ogy |
| | | Semest | ter VI | | | · | | | |
| Course Code | | | Hou | rs / W | 'eek | Credit | Max | kimum M | arks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210607P | VISUAL PROGRAMMING LABORATORY | | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Dialog Base Creating MI Creating sin Dynamic cc Mapping M Bitmaps. GDI objects Menu, Acce Tool bar, To Status bar. | odes. 5. elerator. | ıts. | | | | | | | |

Data access through ODBC.
 Data access through DAO.

15. Creating ActiveX control and using it.

| K.S. | Rangasamy College of Techn | ology - Autono | omo | us Re | egula | tion | | R 20 | 800 |
|---|----------------------------|---|-------|-------|-------|--------|-----|---------|-------|
| Department | Information Technology | Programme Code & 21: B.Tech. Name Information Technology | | | | | ogy | | |
| | | Semester VI | | | | | | | |
| Course Code | se Code Course Name | | Hours | s / W | eek | Credit | Max | imum Ma | arks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210608P | NETWORK LABORATORY | | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Simulation of Simulation of Simulation of Simulation of Develop a clip Message end | | im. ig. SA algorithm. | | | | | | | |

| K.S. | Rangasamy College of Techn | ology - A | Auton | omou | s Reg | ulation | | R 20 | 800 |
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| Department | Information Technology | Pro | ogramr Na | ne Co ame | de & | Inf | 21: B ormation | .Tech. Technol | ogy |
| | | Semes | ster VI | | | | | | |
| | | | Hou | irs / W | /eek | Credit | Maximum Marks | | arks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210609P | DESIGN PROJECT | | 0 | 0 | 3 | 2 | 100 | 00 | 100 |
| Prepare and de | velop a Design Project using the | e Softwa | re Eng | lineeri | ng Me | thodologies | given bel | low: | |

Software Requirement Specification.
 Cost benefits analysis.

4. Time line of activities.

5. Design Concepts.

6. Implementation (Hardware / Software / both).

7. Testing & Validation of the developed system.

| | K.S.I | Rangasamy College of Tec | hnology - Αι | utonor | nous | Regu | lation | | | R 2008 |
|-------------|--|--|---|--|--|-----------------|---------------------------------------|--------------------|----------------------|---------------|
| Depa | artment | Information Technology | Programme | e Cod | e & N | ame | | | 1: B.Tec tion Tec | h. hnology |
| | | | Semes | ster VI | | | | | | |
| Couro | e Code | Course Name | | Ho | urs/W | /eek | Credit | N | /laximur | n Marks |
| Cours | e Coue | Course Marine | | L | Т | Р | С | CA | ES | Total |
| 0821 | 0610P | CAREER COMPETENCY DEVELOPMENT IV | | 0 | 0 | 2 | 0 | 100 | 00 | 100 |
| Objec | ctive(s) | i. To improve the skill level ii. To improve the employat | | nts. | | | | | | |
| 1 | | any type written test in Aptitu | | | | | | | | Hrs |
| Comp | rehensio | sed questions – Questic n. ritten Test | ons from A | Aptitud | e, V | Vritten | commur | nication | and | 6 2 |
| 2 | Compa | ny type written test in Verbal | and Non-ver | bal Re | ason | ing Ski | lls | | | |
| | | d questions – Questions fror ritten Test | n Verbal and | Non-v | rerbal | reaso | ning. | | | 6 2 |
| 3 | • | nming Skills | | | | | | | | |
| | | d questions from C language /ritten Test | e, Data struct | ures a | nd Ol | bject O | riented P | rogramr | ming. | 6 2 |
| 4 | | w Skills(Association Session |) | | | | | | | 2 |
| | | view – Questions from core | | | | | | | | |
| | | Flexibility, Achievement orie Technical & HR Interview. | mation, Deci | sivene | 55 | | | | | 4+4 |
| Litala | | | | | | | | | Total | 32 |
| Refere | ence(s): | | | | | | | | | |
| 1 | R.S.Ag (unit – | garwal , "Quantitative Aptituc) | le", S.Chand | & Con | npany | / Ltd., I | New Delhi | , Reprir | nt 2007 | (Twice) |
| 2 | | uide by English Department | of KSRCT, 20 | 008 (U | nit – | I) | | | | |
| 3 | New De | garwal , "A Modern Approad elhi, 2008, (unit – II) | | | | | - | | ind & C | ompany Ltc |
| 4 | Yashav | ant Kanetkar, "Let us 'C' ", | BPB Publicat | tions, I | lew [| Delhi, 2 | 002 (unit | – III) | | |
| 5 | Herbert | Schildt, " The Complete Ref | ference C++ ' | ", TMH | l, 200 | 3 (unit | – III) | | | |
| 6 | Mark A | llen Weiss , "Data Structures | and Algorith | m Ana | lysis | in C", F | Pearson E | ducatio | n 2002. | (unit – III) |
| 7 | Compa | ny question papers(Unit I-III) | | | | | | | | |
| 6 | HR Inte | rview Guide by Training cell | (unit IV) | | | | | | | |
| EVAL | UATION | CRITERIA | | | | | | | | |
| S.No | Particu | lar | Test Portio | n | | | | | | Marks |
| • | Evalua | | Unit 1 – Ap | | | | Written nsion – 50 | OQs | | 25 |
| 1 | Written | | | | | | -0.00- | | bal | |
| | Evalua Written | tion II Test | Unit II – Ve Reasoning | rbal R – 50O | easor Qs | Ū | | | | 25 |
| 1 2 3 | Evalua | tion II Test tion III | Unit II – Ve Reasoning Unit III – C OQs, OOPs | rbal Ro – 500 Langu | easor Qs age-{ | Ū | | | | 25 20 |
| 2 | Evalua Written Evalua Written Evalua | tion II Test tion III Test tion IV | Unit II – Ve Reasoning Unit III – C | rbal Ro – 500 Langu s – 25 | easor Qs age-{ OQs | 50OQs | , Data Str | uctures | - 25 | |
| 2 3 | Evalua Written Evalua Written Evalua | tion II Test tion III Test | Unit II – Ve Reasoning Unit III – C OQs, OOPs Unit IV Technical II | rbal Ro – 500 Langu s – 25 ntervie w – Fl | easor <u>Qs</u> age-{ OQs w - 6 exibili | 50OQs questi | , Data Str ons (each arks), Ach | uctures questio | – 25 on 2.5 | 20 |

Note :

- 1. Question paper and keys will be supplied by the training cell for written test for Evaluation I, II & III
- 2. Respective Departments will conduct Evaluation I, II, III & IV, correct and submit the marks obtained by the students to the Training Cell.
- 3. All training & Evaluation tests will be conducted on odd Saturdays, Session of 2 periods in FN & Session of 2 periods in AN & Association Session.
- 4. 60 Interview type questions, 10 questions from each of 6 subjects of VIth Semester are to be prepared.
 1 question from each subject at random to be asked carrying 2½ marks each (6 x 2½ = 15 marks) for Technical Interview. Each section is divided into 3 groups of 22 each.

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| Department | Information Technology | • | | | & Nam | ne | | 1: B.Tech tion Tech | |
| | | Serr | nester | VII | | | | | |
| Course Code | Course Neme | | Ηοι | ırs / W | /eek | Credit | M | laximum I | Marks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210701G | TOTAL QUALITY MANAGE | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(s) | To understand the Total Q available to achieve Total and QS certification process | Quality N | /lanage | ement, | , statis | tical appro | | | |
| 1 INTRODU | ICTION | | | | То | tal Hrs | | 9 | |
| | concepts of Total Quality Mar ents, Deming Philosophy, Ba NCIPLES | | | | entatio | | es of TC | M, Quali | ity Counci |
| | s, Strategy. | | | | - | | | | |
| The tools of qu Sample, Norm | CAL PROCESS CONTROL (ality, Statistical Fundamental al Curve, Control Charts for | s – Meas | | | ral Ter | | | | |
| The tools of qu Sample, Norm | CAL PROCESS CONTROL (Jality, Statistical Fundamental al Curve, Control Charts for ment tools. | s – Meas | | | ral Ter es, Pro | dency and | | sion, Pop | ulation an |
| The tools of qu Sample, Norm New Managem 4 TQM TOC Benchmarking of Quality, QF | CAL PROCESS CONTROL (jality, Statistical Fundamental al Curve, Control Charts for hent tools. DLS – Reasons to Benchmark, Be D Process, Benefits, Taguch | s – Meas variables enchmark ni Quality | and a | ttribute | ral Ter es, Pro To Qualit | ndency and ocess capa tal Hrs y Function | bility, Co Deployr | sion, Pop oncept of 9 nent (QFI | ulation and six sigma D) – Hous |
| The tools of qu Sample, Norm New Managem 4 TQM TOC Benchmarking of Quality, QF Concept, Impro | CAL PROCESS CONTROL (ality, Statistical Fundamental al Curve, Control Charts for hent tools. DLS – Reasons to Benchmark, Be | s – Meas variables enchmark ni Quality | and a | ttribute | ral Ter es, Pro To Qualit <u>i</u> tion, T | ndency and ocess capa tal Hrs y Function | bility, Co Deployr | sion, Pop oncept of 9 nent (QFI | ulation and six sigma D) – Hous |
| The tools of qu Sample, Norm New Managerr 4 TQM TOC Benchmarking of Quality, QF Concept, Impro 5 QUALITY Need for ISO | CAL PROCESS CONTROL (ality, Statistical Fundamental al Curve, Control Charts for ment tools. DLS - Reasons to Benchmark, Be D Process, Benefits, Taguch ovement Needs, FMEA – Stag SYSTEMS 9000 Quality Systems, ISO | s – Meas variables enchmark hi Quality ges, Type 9000:20 | and a ing Pro Loss s. 00 ISC | ttribute ocess, Funct D 140 | ral Ter es, Pro Quality tion, To To 00 Qu | idency and icess capa tal Hrs y Function otal Produ tal Hrs uality Syst | Deployr Deployr Inctive Ma | sion, Pop oncept of 9 nent (QFI aintenanc 9 Elements | ulation and six sigma D) – Hous e (TPM) Concepts |
| The tools of qu Sample, Norm <u>New Managerr</u> 4 TQM TOC Benchmarking of Quality, QF Concept, Impro 5 QUALITY Need for ISO Implementation | CAL PROCESS CONTROL (ality, Statistical Fundamental al Curve, Control Charts for ment tools. DLS – Reasons to Benchmark, Be D Process, Benefits, Taguch ovement Needs, FMEA – Stag SYSTEMS 9000 Quality Systems, ISO n, Documentation, Quality Auc | s – Meas variables enchmark hi Quality ges, Type 9000:20 | and a ing Pro Loss s. 00 ISC | ttribute ocess, Funct D 140 | ral Ter es, Pro Quality tion, To To 00 Qu | idency and icess capa tal Hrs y Function otal Produ tal Hrs uality Syst | Deployr Deployr Inctive Ma | sion, Pop oncept of 9 nent (QFI aintenanc 9 Elements | ulation and six sigma D) – Hous e (TPM) Concepts |
| The tools of qu Sample, Norm <u>New Manager</u> 4 TQM TOC Benchmarking of Quality, QF Concept, Impro 5 QUALITY Need for ISO Implementation Total hours to | CAL PROCESS CONTROL (ality, Statistical Fundamental al Curve, Control Charts for ment tools. DLS – Reasons to Benchmark, Be D Process, Benefits, Taguch ovement Needs, FMEA – Stag SYSTEMS 9000 Quality Systems, ISO n, Documentation, Quality Auc | s – Meas variables enchmark hi Quality ges, Type 9000:20 | and a ing Pro Loss s. 00 ISC | ttribute ocess, Funct D 140 | ral Ter es, Pro Quality tion, To To 00 Qu | idency and icess capa tal Hrs y Function otal Produ tal Hrs uality Syst | Deployr Deployr Inctive Ma | sion, Pop oncept of 9 nent (QFI aintenanc 9 Elements formance | ulation and six sigma D) – Hous e (TPM) Concepts |
| The tools of que t | CAL PROCESS CONTROL (ality, Statistical Fundamental al Curve, Control Charts for ment tools. DLS – Reasons to Benchmark, Be D Process, Benefits, Taguch ovement Needs, FMEA – Stag SYSTEMS 9000 Quality Systems, ISO n, Documentation, Quality Auc | s – Meas variables enchmark ni Quality ges, Type 9000:20 diting, – I | and a ing Pro Loss s. 00 ISC Require | DCESS, Funct D 1400 D 1400 | ral Ter es, Pro Qualit tion, To To 00 Qu s and E | adency and ocess capa tal Hrs y Function otal Produ tal Hrs uality Syst Benefits, N | Deployr Deployr Ictive Ma Icems – I Non Conf | sion, Pop oncept of 9 nent (QFI aintenanc 9 Elements formance 45 | ulation an six sigma D) – Hous e (TPM) Concepts report. |
| The tools of qu Sample, Norm New Managerr 4 TQM TOO Benchmarking of Quality, QF Concept, Impro 5 QUALITY Need for ISO Implementation Total hours to Text book (s) : 1 Dale H.Be | CAL PROCESS CONTROL (ality, Statistical Fundamental al Curve, Control Charts for ment tools. DLS – Reasons to Benchmark, Be D Process, Benefits, Taguch ovement Needs, FMEA – Stag SYSTEMS 9000 Quality Systems, ISO h, Documentation, Quality Aud be taught | s – Meas variables enchmark ni Quality ges, Type 9000:20 diting, – I | and a ing Pro Loss s. 00 ISC Require | DCESS, Funct D 1400 D 1400 | ral Ter es, Pro Qualit tion, To To 00 Qu s and E | adency and ocess capa tal Hrs y Function otal Produ tal Hrs uality Syst Benefits, N | Deployr Deployr Ictive Ma Icems – I Non Conf | sion, Pop oncept of 9 nent (QFI aintenanc 9 Elements formance 45 | ulation and six sigma D) – Hous e (TPM) Concepts report. |
| The tools of qu Sample, Norm New Managerr 4 TQM TOC Benchmarking of Quality, QF Concept, Impro 5 QUALITY Need for ISO Implementation Total hours to Text book (s) : 1 Dale H.Be Reference(s) : | CAL PROCESS CONTROL (ality, Statistical Fundamental al Curve, Control Charts for ment tools. DLS – Reasons to Benchmark, Be D Process, Benefits, Taguch ovement Needs, FMEA – Stag SYSTEMS 9000 Quality Systems, ISO h, Documentation, Quality Aud be taught | s – Meas variables enchmark ni Quality ges, Type 9000:20 diting, – I gement", ne Manag | and a ing Pro- Loss s. 00 ISC Require Pears | ttribute ocess, Funct D 1400 ement on Edu | ral Ter es, Pro Qualit tion, To 00 Qu s and F ucation | idency and icess capa tal Hrs y Function otal Produ tal Hrs uality Syst Benefits, N | Deployr Deployr Ictive Ma Icems – I Non Cont 9. (India | sion, Pop oncept of 9 ment (QFI aintenanc 9 Elements formance 45 n reprint 2 | ulation an six sigma D) – Hous e (TPM) Concepts report. 2002). |
| The tools of qu Sample, Norm New Managerr 4 TQM TOO Benchmarking of Quality, QF Concept, Impro 5 QUALITY Need for ISO Implementation Total hours to Text book (s) : 1 Dale H.Be Reference(s) : 1 James R. Western (| CAL PROCESS CONTROL (Jality, Statistical Fundamental al Curve, Control Charts for hent tools. DLS – Reasons to Benchmark, Be D Process, Benefits, Taguch ovement Needs, FMEA – Stag SYSTEMS 9000 Quality Systems, ISO h, Documentation, Quality Auc be taught Evans & William M.Lidsay, "Th | s – Meas variables enchmark hi Quality ges, Type 9000:20 diting, – I gement", ne Manag BN 0-324 | and a ing Pro Loss s. 00 ISC Requir Pears Jemen I-0668 | ttribute ocess, Funct 0 1400 ement on Edu t and (0-5). | ral Ter es, Pro Qualit tion, To 00 Qu s and B ucation | idency and icess capa tal Hrs y Function otal Produ tal Hrs uality Syst Benefits, N | Deployr Deployr Ictive Ma Icems – I Non Cont 9. (India | sion, Pop oncept of 9 ment (QFI aintenanc 9 Elements formance 45 n reprint 2 | ulation an six sigma D) – Hous e (TPM) Concepts report. 2002). |
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| Department | Information Technology | Prog | ramme | e Code | &Nam | е | Inf | | B.Tech. n Techno | ology |
| | | Seme | ester V | ' | | | | | | |
| Course Code | Course Name | | Ho | urs / We | ek | Credi | t | Мах | kimum M | arks |
| Course Code | Course Name | | L | Т | Ρ | С | | CA | ES | Total |
| 08210702C | COMPONENT BASED TECHNOLOGY | | 3 | 1 | 0 | 4 | | 50 | 50 | 100 |
| Objective(s) | To introduces in depth JA properties of components Frameworks and Developme | technolog | y, arc | | | | | | | |
| 1 INTRODU | JCTION | | | | | Total Hr | s | | 9 | |
| | ponents – objects – fundamer ectory services – component a | | | | | | | | es – inte | rfaces - |
| | SED COMPONENT TECHNO | | | | | Total Hr | | | 9 | |
| serialization - | a Beans – Events and conne Enterprise Java Beans – Distri | ibuted Obj | roperti ect ma | es – int odels – | rospe RMI a | ction – 、 nd RMI- | jar f IIOP. | iles – re | eflection | object |
| | COMPONENT TECHNOLOGIE | - | | | | Total Hr | - | | 9 | |
| driven architec 4 . NET BA COM – Distribu- OLE contain | SED COMPONENT TECHNO uted COM – object reuse – int ers and servers – Active X cor | LOGIES erfaces ar | nd vers | sioning | - disp | Total Hra | s erface | es – cor | 9 nnectable | |
| reflection – ren 5 COMPON | | | | nponei | 15 - a | semblie | :5 – a | ippaom | ains – co | |
| | IENT FRAMEWORKS AND D | | | nponer | | | | ippaom | | |
| Connectors - | IENT FRAMEWORKS AND D | | IENT | | | Total Hr | S | | 9 | ntexts – |
| directory object | contexts – EJB containers – (ts – cross-development envir | CLR conte onment – | IENT exts ar comp | nd char | nels - | Total Hr: - Black | s Box (| compon | 9 ent fram | ntexts – ework – |
| directory object | contexts – EJB containers – (ts – cross-development envir ation tools – testing tools - ass | CLR conte onment – | IENT exts ar comp | nd char | nels - | Total Hr: - Black | s Box (| compon | 9 ent fram | ntexts – ework – |
| directory object and implement | contexts – EJB containers – (ts – cross-development envir ation tools – testing tools - ass | CLR conte onment – | IENT exts ar comp | nd char | nels - | Total Hr: - Black | s Box (| compon | 9 ent fram omponen | ntexts – ework – |
| directory object and implement Total hours to Text book : | contexts – EJB containers – (cts – cross-development envir ation tools – testing tools - ass be taught Szyperski, "Component Softw | CLR conte onment – sembly too | IENT exts ar comp ols. | nd char onent-o | nels - riente | Total Hrs - Black d progra | s Box (ammir | compon ng – Co | 9 ent fram omponen 45 | ntexts – ework – t design |
| directory object and implement Total hours to Text book : 1 Clemens | contexts – EJB containers – (cts – cross-development envir ation tools – testing tools - ass be taught Szyperski, "Component Softw s, 2003. | CLR conte onment – sembly too | IENT exts ar comp ols. | nd char onent-o | nels - riente | Total Hrs - Black d progra | s Box (ammir | compon ng – Co | 9 ent fram omponen 45 | ntexts – ework – t design |
| directory object and implement Total hours to Text book : 1 Clemens publishers Reference (s) : 1 Ed Roma | contexts – EJB containers – (ets – cross-development envir ation tools – testing tools - ass be taught Szyperski, "Component Softw s, 2003. , "Mastering Enterprise Java | CLR conte onment – sembly toc vare: Bey Beans", Jo | VENT exts ar compols. ond C | nd char onent-o bject-C | nels - riente | Total Hrs - Black d progra d Progra | s Box (ammin ammi | compon ng – Co | 9 ent fram omponen 45 | ntexts – ework – t design |
| directory object and implement Total hours to Text book : 1 Clemens publishers Reference (s) : 1 Ed Roma 2 Mowbray, | contexts – EJB containers – (cts – cross-development envir ation tools – testing tools - ass be taught Szyperski, "Component Softw s, 2003. , n, "Mastering Enterprise Java "Inside CORBA", Pearson Ed | CLR conte onment – sembly toc vare: Bey Beans", Jo lucation, 2 | VENT exts an comp ols. ond C | nd char onent-o Dbject-C iley & S | nels - riente riente | Total Hrs - Black d progra d Progra | s Box (ammin ammin ammin 0. | compon ng – Co ng", Pe | 9 ent fram omponen 45 | ntexts – ework – t design |
| directory object and implement Total hours to Text book : 1 Clemens publishers Reference (s) : 1 Ed Roma 2 Mowbray, 3 Freeze, " | contexts – EJB containers – (ets – cross-development envir sation tools – testing tools - ass be taught Szyperski, "Component Softw s, 2003. n, "Mastering Enterprise Java "Inside CORBA", Pearson Ed Visual Basic Development Gui | CLR conte onment – sembly toc vare: Bey Beans", Jo lucation, 2 de for CO | AENT comp ols. ond C ohn W 003. M & C | nd char onent-o bbject-C iley & S OM+", E | nels - riente riente | Total Hrs - Black d progra d Progra | s Box (ammin ammin ammin 0. | compon ng – Co ng", Pe | 9 ent fram omponen 45 | ntexts – ework – t design |
| directory object and implement Total hours to Text book : 1 Clemens publishers Reference (s) : 1 Ed Roma 2 Mowbray, 3 Freeze, "1 4 Hortsama | contexts – EJB containers – (ets – cross-development envir sation tools – testing tools - ass be taught Szyperski, "Component Softw s, 2003. , "Inside CORBA", Pearson Ed Visual Basic Development Gui Inn, Cornell, "CORE JAVA Vol | CLR conte onment – sembly toc vare: Bey Beans", Jo ucation, 2 de for COI -II" Sun Pr | AENT comp ols. ond C ohn W 003. M & C ress, 2 | nd char onent-o bbject-C iley & S OM+", E 002. | riente ons Ir | Total Hrs - Black d progra d Progra nc., 1999 ublicatio | s Box (ammin ammin ammin). | ng – Co | 9 ent fram omponen 45 earson Ed | ntexts – ework – t design |
| directory object and implement Total hours to Text book : 1 Clemens publishers Reference (s) : 1 Ed Roma 2 Mowbray, 3 Freeze, " 4 Hortsama 5 Ramesh a | contexts – EJB containers – (ets – cross-development envir sation tools – testing tools - ass be taught Szyperski, "Component Softw s, 2003. n, "Mastering Enterprise Java "Inside CORBA", Pearson Ed Visual Basic Development Gui | CLR conte onment – sembly too vare: Bey Beans", Jo lucation, 2 de for COI -II" Sun Pr nt Based T | VENT exts ar comp ols. ond C ohn W 003. M & C ress, 2 rechno | nd char onent-o Dbject-C iley & S OM+", E 002. | nels - riente riente ons Ir 3PB P | Total Hrs - Black d progra d Progra nc., 1999 ublicatic | s Box o ammir ammir a. on, 20 ers, C | compon ng – Co ng", Pe 01. | 9 ent fram omponen 45 earson Ed | ntexts – ework – t design |

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| Department | Information Technology | Progra | amme | Code | &Nam | ne Int | | .Tech. Technol | oav |
| | | Semes | ster VI | | | | onnation | 10011101 | ogy |
| Course Code | Course Norma | | Hou | rs / W | 'eek | Credit | Max | kimum Ma | arks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210703C | MOBILE COMPUTING | | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| Objective(s) | To learn the basics of Wireless knowledge on various telepho wireless LAN and its standards To build skills in working w applications. | one and s. To buil | satelli d knov | te net vledge | tworks e on va | s. To study arious Mobile | the work e Comput | ing princ ting algor | iples of ithms. |
| 1 WIREL | ESS COMMUNICATION FUND | AMENTA | LS | | Т | otal Hrs | | 9 | |
| | Wireless transmission – Frequ Multiplexing – Modulations – S ss Networks. | | | | | | | | |
| | OMMUNICATION NETWORKS | | | | Т | otal Hrs | | 11 | |
| Parameters an | ation systems – GSM – GPRS d Configurations – Capacity Allo | | | | | | | | |
| | SS LAN | | | | | otal Hrs | | 9 | |
| | IEEE 802.11 - Architecture - PERLAN – Blue Tooth. | - service | s – M | AC – | Phys | ical layer – | IEEE 80 | 2.11a - 8 | 302.11b |
| 4 MOBIL | E NETWORK LAYER | | | | Т | otal Hrs | | 9 | |
| - | namic Host Configuration Protoc | | ing – [| DSDV | | | ve Metric | s. | |
| 5 TRANS | SPORT AND APPLICATION LAY | /ERS | | | Т | otal Hrs | | 7 | |
| Traditional TCF | P – Classical TCP improvements | s – WAP, | WAP | 2.0. | | | | | |
| Total hours to b | be taught | | | | | | | 45 | |
| 1, 2 & 3 | Schiller, "Mobile Communicatio - Unit II chap 4, 5 &6-Unit III Cha | ap 7.Unit | IV Cha | ap 8- I | Unit V | Chap 9&10) | | | |
| Chapte | Stallings, "Wireless Communi r – 7&10-Unit II Chap 9) | cations a | and N | etworl | κs", Ρ | HI/Pearson | Educatio | n, 2002. | (Unit I |
| Reference (s) : | | | | | | | | | |
| 2003 | Pahlavan, Prasanth Krishnamoo | - | • | | | | | | |
| | lansmann, Lothar Merk, Mari ting", Springer, New York, 2003. | | licklon | s and | d Tho | omas Stobe | r, "Princ | iples of | Mobile |
| | tof Wesolowshi "Mobile Commu | | Syster | ns" I | ohn M | lilev and Sor | ns Itd 20 | 02 | |

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| Depa | rtment | Information Technology | Pro | gramr | ne Co | de &N | lame | | 1: B.Tech tion Tech | |
| | | | Semes | ster VI | | | | | | |
| Couro | e Code | Course Name | | Hou | rs / W | /eek | Credit | Ma | ximum M | arks |
| Cours | e Coue | Course Maine | | L | Т | Р | С | CA | ES | Total |
| 08210 | 0704C | GRAPHICS AND MULTIMEDI | | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| Objec | ctive(s) | To impart the fundamental c graphics techniques and alg technologies. To enable the st | orithms. | To st | udy t | the m | ultimedia | | | |
| 1 | OUTPU | IT PRIMITIVES | | | | 1 | otal Hrs | | 9 | |
| | | aphics System – Line Drawing | | | | | Ellipse Ge | nerating A | Algorithms | s –Two- |
| 2 | THREE | -DIMENSIONAL CONCEPTS | | | | ŤТ | otal Hrs | | 9 | |
| | nodels – | onal Object Representations – Computer Animation | Three-Di | mensi | onal (| | | lodeling T | ransform | ations – |
| 3 | MULTIN | IEDIA SYSTEMS DESIGN | | | | Т | otal Hrs | | 9 | |
| Schem 4 Data a Techno | nes – Col MULTIN and File ologies – | efining objects for Multimedia S or, Grayscale and Still-Video Im /EDIA FILE HANDLING Format Standards -TIFF, R · Digital Voice and Audio - Vi | age Com RIFF, MII deo Imag | DI, TV | ion – Y VAIN d Anir | Video T File nation | Image Con otal Hrs Formats - | npression. | 9 dia Inpu | t/Output |
| Retriev 5 | | ologies – Magnetic Media Tech /EDIA AUTHORING AND HYP /GING | | | al Mec | | otal Hrs | | 9 | |
| Object Compo | edia Aut Display onents – | horing Systems – Hypermedia /Playback Issues – Hypermed Hypermedia Linking and Embe Components of Distributed Mult | dia Mess dding – (| aging Creatir | – M ng Hy | obile | Messaging | – Нуре | rmedia N | lessage |
| | ours to b | | | | | | | | 45 | |
| Text be | ook (s) : | | | | | | | | | |
| 1 | Donald | Hearn and M.Pauline Baker, "C | omputer | Graph | ics C | Versic | on", Pearso | n Educatio | on, 2003. | |
| 2 | Prabat I | K Andleigh and Kiran Thakrar, ' | Multimed | dia Sys | stems | and D | esign", PH | I, 2003. | | |
| Refere | ence (s) : | | | | | | | | | |
| 1 | | effcoate, "Multimedia in practice | | 0. | | | | | | |
| 2 | | Vandam, Feiner, Huges, "Cor edition 2003. | nputer G | Graphic | cs: Pi | rinciple | es & Prac | tice", Pea | arson Ed | ucation, |

| | K.S.Ra | angasamy College of Tecl | nnology - | Auto | nomo | us Re | gulation | | R 20 | 800 | |
|--------|--------------------|------------------------------|-------------|-------------------|---------|---------|--------------|-----------|---------------------------------|---------|--|
| Dep | artment | Information Technology | Pro | gramm | ne Coc | le &Na | ame | | 21: B.Tech. ation Technology | | |
| | | | Seme | ester \ | /11 | | · | | | | |
| Cour | se Code | Course Name | | Hours / Week Cred | | | Credit | Max | kimum M | arks | |
| Cour | se coue | Course Marine | | L | Т | Р | С | CA | ES | Total | |
| 082 | 10707P | SOFTWARE COMPONEN | NTS | 0 | 0 | 3 | 2 | 50 | 50 | 100 | |
| LIST C | OF EXPERI | MENTS | | | | | | | | | |
| 1. | example] ENTERP | RISE JAVA BEANS: Deplo | ying EJB f | or sim | ple ari | ithmeti | ic operator. | e them in | applicatic | ons. [2 | |
| 3. | | loying RMI for client server | | | | | | | | | |
| 4. | Creation | Of DLL Using VB And Depl | oy it in Ja | va [2 E | Experir | ments] | | | | | |
| 5. | Naming S | Services In CORBA | | | | | | | | | |
| 6. | DSI, DII I | N CORBA. | | | | | | | | | |
| 7. | INTER O | RB IN COMMUNICATION | IIOP, IOR |] | | | | | | | |
| 8. | STUDYIN | IG J2EE SERVER. | | | | | | | | | |
| 9. | SIMPLE | APPLICATION USING COP | RBA. | | | | | | | | |

| | K.S.Ra | angasamy College of Tech | nnology - | Auto | nomo | us Reg | gulation | | R 2 | 800 |
|----------------------------------|--|---|----------------------------|----------------|----------|--------|--------------|--------------------------------------|---------|------|
| Dep | partment | Information Technology | Progra | amme | Code | &Nam | e In | 21: B.Tech. nformation Technology | | |
| | | | Sem | ester \ | /11 | | | | | |
| Cou | rse Code | Course Name | | Ηοι | urs / W | eek | Credit | Max | ximum M | arks |
| Cou | | Course Marile | | L | | | | | ES | Tota |
| 082 | 210708P | GRAPHICS AND MULTIN LABORATORY | 1EDIA | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| LIST | OF EXPERI | MENTS | | | | | | | | |
| 1. | | Bresenham's line drawing a | - | | ne. | | | | | |
| 1. 2. 3. 4. 5. | Mid-point 2D Trans Cohen-Se | Bresenham's line drawing a circle and ellipse generatio formations such as translati utherland 2D clipping formations such as translati | n algorith ion, rotatio | ms. on, sca | aling, r | | on and shari | ng. | | |
| 2. 3. 4. | Mid-point 2D Trans Cohen-Si 3D Trans | circle and ellipse generatio formations such as translati utherland 2D clipping | n algorith ion, rotatio | ms. on, sca | aling, r | | on and shari | ng. | | |
| 2. 3. 4. 5. | Mid-point 2D Trans Cohen-Si 3D Trans Projectior | circle and ellipse generatio formations such as translati utherland 2D clipping formations such as translati | n algorith ion, rotatio | ms. on, sca | aling, r | | on and shari | ng. | | |
| 2. 3. 4. 5. 6. | Mid-point 2D Trans Cohen-Si 3D Trans Projectior | circle and ellipse generatio formations such as translati utherland 2D clipping formations such as translati ns of 3D images. | n algorith ion, rotatio | ms. on, sca | aling, r | | on and shari | ng. | | |
| 2. 3. 4. 5. 6. 7. | Mid-point 2D Trans Cohen-Si 3D Trans Projection Conversio | circle and ellipse generatio formations such as translati utherland 2D clipping formations such as translati ns of 3D images. ons between color models. pression. | n algorith ion, rotatio | ms. on, sca | aling, r | | on and shari | ng. | | |

| K.S.Ra | Rangasamy College of Technology - Autonomous Regulation R 2008 | | | | | | | | | |
|--------------|--|---|--|------------------------------------|---------------------------------------|---------------------------------------|-----------------------|-----------------------------------|-------------|--|
| Department | Information Technology | Programme Code & Name | | | 21: B.Tech. Information Technology | | | | | |
| | Semester VII | | | | | | | | | |
| Course Code | Course Name | | Но | urs / N | /eek | Credit | | Maximum Ma | rks | |
| Course Code | Course Marine | | L | Т | Р | С | CA | ES | Total | |
| 08210fP | PROJECT WORK – PHAS | SET | 0 | 0 | 4 | 2 | 100 | 00 | 100 | |
| Objective(s) | To impart the practical kn technical procedures in the and review the research and work and placing this as the | ir proj ticles, | ect w journ | ork. To als and | provid d confe | e an expos rence proc | sure to th eedings | ne students to rele4vant to th | refer, read | |
| Methodology | Three reviews have one of which should Problem should be Students have to co Reports has to be p Preliminary implem Internal evaluation | d be ti selec ollect prepar nentati | he gu ted about red by on ca | ide 20 pa v the st n be d | pers re udents one if p | lated to the as per the ossible | eir work | | | |

| n.3 | B.Rangasamy College of Te | chnology - Au | tonor | nous | Regu | ulation | | | R 2008 |
|--|--|------------------------------------|--------|----------------|--------|------------|-----------|--------------------|---------------|
| Department | Information Technology | Programme | e Cod | e & Na | ame | h | | : B.Tec ion Tec | h. hnology |
| | | Semeste | ər VII | | | | | | |
| Course Code | Course Nam | | Ho | urs/W | eek | Credit | N | /laximui | m Marks |
| | Course Man | le | L | Т | Р | С | CA | ES | Total |
| 08210710P | CAREER COMPETENCY DEVELOPMENT V | | 0 | 0 | 2 | 0 | 100 | 00 | 100 |
| Objective(s) | i. To encourage the all rou ii.To improve the employa | ability of student | s. | | - | | on soft s | kills. | |
| | pany type written test in Apt | | | | | | | | Hrs |
| | I Core company based que gical reasoning, Written com | | | | | | | lytical | 6 |
| Evaluation I V | | iniunication, Fre | gran | inning | anu | | SKIIIS. | | 2 |
| | Discussion | | | | | | | | |
| Strategies in | GD – Team work – Body I | Language – Mo | ck G | Ds – \ | Video | Samples | | | 6 |
| | - Group Discussion | | | | | - | | | 2 |
| | iew Skills(Technical Interviev | , | | | | | | | |
| | ussions on core subjects -Co | omplex problem | solvi | ng in p | orogra | amming ar | nd core | | 6 |
| | ck Technical Interviews Technical Interview | | | | | | | | 2 |
| | iew Skills(HR Interview) | | | | | | | | <u> </u> |
| | × / | . Maal latan | | \ <i>P</i> .1. | | | | | 6 |
| | nterviews – Corporate cultur – HR Interview. | e – Nock Intervi | iews - | - vide | o Sa | mpies | | | |
| | | | | | | | | | 2 |
| | | | | | | | | Total | 32 |
| Reference(s): | | ituda" C Chand | · • • | | | d Navy D | | onvint (| 007 (Tuia |
| 1 R.S.A (unit - | ggarwal, "Quantitative Apt - I) | itude, S.Chand | a C | ompa | ny Li | a., new L | Jeini, R | eprint 2 | |
| | Guide by English Departmer | nt of KSRCT, 20 | 08 (U | nit – I |) | | | | |
| 3 R.S.A | ggarwal , "A Modern Appro Delhi, 2008, (unit – I) | | | | , | easoning" | , S.Cha | ind & C | company Lte |
| | any question papers(unit I) | | | | | | | | |
| 5 Yasha | avant Kanetkar, "Let us 'C' | ", BPB Publication | ons, l | lew D | elhi, | 2002 (unit | — I) | | |
| | ert Schildt, " The Complete R | | | | | | | | |
| 7 HR In | terview Guide by Training ce | ell (unit IV) | | | | , | | | |
| EVALUATION | , 0 | · · · | | | | | | | |
| S No | cular | Test Portion | | | | | | | Marks |
| Partic | ation I | Unit I – Ques | tions | from S | Softw | are and co | ore | | 40 |
| . Partic | en Test | companies | | | | | | | 40 |
| . Partic | | Unit II - Group | Disc | ussion | | | | | 20 |
| . Partic 1 Evalu 2 Evalu | ation II | Unit II - Group | | | | | | | |
| . Partici 1 Evalu 2 Evalu 3 Evalu | ation II ation III | Unit III – Tech | | | ew | | <u> </u> | <u> </u> | 20 |
| 2 Evalu 3 Evalu | ation II | · · · | | | ew | | | | 20 20 |
| . Partici 1 Evalu 2 Evalu 3 Evalu | ation II ation III | Unit III – Tech | | | ew | | | | |
| . Partici 1 Evalu 2 Evalu 3 Evalu 4 Evalu Total Note : | ation II ation III | Unit III – Tech Unit IV - HR Ir | ntervi | ew | | | | | 20 |

2. Respective Departments will conduct Evaluation II, III & IV, correct and submit the marks obtained by the students to the Training Cell.

3. All training & Evaluation tests will be conducted on odd Saturdays, Session of 2 periods in FN & Session of 2 periods in AN & Association Session.

4. Each section is divided into groups and conduct Aptitude test, mock group discussions, interviews in every alternate Saturdays.

| r.ə | Rangasamy College of Techn | ology - / | Autonc | omou | s Reg | ulation | | | R 2 | 800 |
|---|---|---|---|---|---|---|---|--|--|--|
| Department | Information Technology | Progra | amme (| Code | &Nam | ie | Info | | .Tech. Techno | logy |
| | | Semes | ter VIII | | | | | | | |
| Course Code | Course Name | | Hou | rs / W | /eek | Credi | t | Max | kimum N | larks |
| Course Coue | Course Marine | | L | Т | Р | С | | CA | ES | Tota |
| 08210801C | SYSTEM SOFTWARE | | 3 | 1 | 0 | 4 | | 50 | 50 | 100 |
| Objective(s) | To understand the relationshi the design and implementation linkers and loaders. To have understanding of system softw | on of ass ave an | semble unders | rs. T | o kno | w the de | sign | and in | nplemen | tation c |
| 1 INTRO | DUCTION | | | | T | otal Hrs | | | 8 | |
| | are and machine architecture Data and instruction formats – a | | | | | | | | | |
| 2 ASSEM | IBLERS | | | | T | otal Hrs | | | 10 | |
| | RS AND LINKERS | inomatio | ii exaii | ipie – | | otal Hrs | | | 9 | |
| 3 LOADE Basic loader fu loader features independent lo Editors – Dyna | RS AND LINKERS Inctions – Design of an Absolu – Relocation – Program Linkin ader features – Automatic Libra mic Linking – Bootstrap Loaders | ite Loade g – Algor iry Searc | er – A ithm ar h – Loa | Simp nd Da ader | Te Boo ta Stru Optior cample | otal Hrs otstrap Lo uctures fo s – Loac e – MSDC | oade or Lir ler d | er – Mao hking Lo lesign o | chine de ader – M ptions – | /lachine |
| 3 LOADE Basic loader fu loader features independent lo Editors – Dyna 4 MACR(| RS AND LINKERS Inctions – Design of an Absolu – Relocation – Program Linking ader features – Automatic Libra mic Linking – Bootstrap Loaders D PROCESSORS | ite Loade g – Algor ary Searc s – Impler | er – A ithm ar h – Loa mentati | Simp nd Da ader on ex | Te Boo ta Stru Optior cample | otal Hrs otstrap Lo uctures fo is – Load e – MSDO otal Hrs | oade or Lir der d DS lii | er – Mao nking Lo lesign o nker. | chine de ader – M ptions – 9 | lachine Linkag |
| Basic loader fu loader features independent lo Editors – Dyna 4 MACRO Basic macro p structures – M Generation of Macro-Impleme 5 SYSTE Text editors – systems – Deb | RS AND LINKERS Inctions – Design of an Absolu – Relocation – Program Linkin ader features – Automatic Libra mic Linking – Bootstrap Loaders | te Loade g – Algori rry Searc - Impler finition a rocessor Macro E o Proces ss – Use | er – A ithm ar h – Loa nentati featur xpansio sor – A r Interf | Simp nd Da ader on ex pansi- on - NSI (face | Ti le Boo ta Stru Optior cample ample on – I Con Keyw C Mac Ti C Mac | otal Hrs otstrap Lo uctures for s – Load - MSDO otal Hrs Macro Pr catenatio ord Mac ord Mac ro langua otal Hrs or Struct | oade or Lir der c DS lin roces n o ro P uge. | er – Mac hking Lo lesign o nker. ssor Alg f Macro Paramete – Intera | chine de ader – M ptions – 9 orithm a o Param ers-Macr 9 active de | Aachine Linkag and dat neters o withi buggin |
| 3 LOADE Basic loader fulloader features independent lo Editors – Dyna 4 MACR0 Basic macro p structures – M Generation of 5 SYSTE Text editors – Deb Criteria. | RS AND LINKERS inctions – Design of an Absolu – Relocation – Program Linking ader features – Automatic Libra mic Linking – Bootstrap Loaders D PROCESSORS rocessor functions – Macro De Machine-independent macro p Unique Labels – Conditional entation example – MASM Macr M SOFTWARE TOOLS Overview of the Editing Proces ugging functions and capabilitie | te Loade g – Algori rry Searc - Impler finition a rocessor Macro E o Proces ss – Use | er – A ithm ar h – Loa nentati featur xpansio sor – A r Interf | Simp nd Da ader on ex pansi- on - NSI (face | Ti le Boo ta Stru Optior cample ample on – I Con Keyw C Mac Ti C Mac | otal Hrs otstrap Lo uctures for s – Load - MSDO otal Hrs Macro Pr catenatio ord Mac ord Mac ro langua otal Hrs or Struct | oade or Lir der c DS lin roces n o ro P uge. | er – Mac hking Lo lesign o nker. ssor Alg f Macro Paramete – Intera | chine de ader – M ptions – 9 orithm a > Param ers-Macr 9 active de – User-l | Aachine Linkag and dat neters o withi buggin |
| 3 LOADE Basic loader fulloader features independent lo Editors – Dyna 4 4 MACR0 Basic macro p structures – M Generation of Macro-Implement 5 SYSTE Text editors – Deb Criteria. Total hours to b Total hours to b | RS AND LINKERS inctions – Design of an Absolu – Relocation – Program Linking ader features – Automatic Libra mic Linking – Bootstrap Loaders D PROCESSORS rocessor functions – Macro De Machine-independent macro p Unique Labels – Conditional entation example – MASM Macr M SOFTWARE TOOLS Overview of the Editing Proces ugging functions and capabilitie | te Loade g – Algori rry Searc - Impler finition a rocessor Macro E o Proces ss – Use | er – A ithm ar h – Loa nentati featur xpansio sor – A r Interf | Simp nd Da ader on ex pansi- on - NSI (face | Ti le Boo ta Stru Optior cample ample on – I Con Keyw C Mac Ti C Mac | otal Hrs otstrap Lo uctures for s – Load - MSDO otal Hrs Macro Pr catenatio ord Mac ord Mac ro langua otal Hrs or Struct | oade or Lir der c DS lin roces n o ro P uge. | er – Mac hking Lo lesign o nker. ssor Alg f Macro Paramete – Intera | chine de ader – M ptions – 9 orithm a o Param ers-Macr 9 active de | Aachine Linkag and dat neters o withi buggin |
| 3 LOADE Basic loader fulloader features loader features independent lo Editors – Dyna 4 MACR0 Basic macro p structures – M Generation of Macro-Implement 5 SYSTE Text editors – systems – Deb Criteria. Total hours to b Text book (s) : | RS AND LINKERS inctions – Design of an Absolu – Relocation – Program Linking ader features – Automatic Libra mic Linking – Bootstrap Loaders D PROCESSORS rocessor functions – Macro De Machine-independent macro p Unique Labels – Conditional entation example – MASM Macr M SOFTWARE TOOLS Overview of the Editing Proce ugging functions and capabilitie | ite Loade g – Algori iry Searc s – Impler efinition a rocessor Macro E o Proces ss – Use ss – Rela | er – A ithm ar h – Loa nentati featur xpansio sor – A r Interf | Simp ad Da ader on ex con ex con - NSI (face - p with | Ti le Boo ta Stru Option ample ample fon – I Con Keyw C Mac C Mac Ti C Mac | otal Hrs otstrap Lo uctures fo is – Load - MSDO otal Hrs Macro Pr catenatio ord Mac ro langua otal Hrs or Struct | Dade or Lir der c DS lii coces n o ro P age. ure. the | er – Mac hking Lo lesign o nker. ssor Alg f Macro Paramete – Intera system | chine de ader – M ptions – 9 orithm a o Param ers-Macr 9 active de – User-l 45 | Aachine Linkag and dat eters o withi buggin nterfac |
| 3 LOADE Basic loader fulloader features loader features independent lo Editors – Dynal 4 MACR0 Basic macro p structures – M Generation of Macro-Implement 5 SYSTE Text editors – Deb Criteria. Total hours to b Text book (s) : 1 Leland | RS AND LINKERS Inctions – Design of an Absolu – Relocation – Program Linking ader features – Automatic Libra mic Linking – Bootstrap Loaders D PROCESSORS rocessor functions – Macro De Machine-independent macro p Unique Labels – Conditional entation example – MASM Macr M SOFTWARE TOOLS Overview of the Editing Procesugging functions and capabilitie be taught L. Beck, "System Software – Macro Asia, 2000. | ite Loade g – Algori iry Searc s – Impler efinition a rocessor Macro E o Proces ss – Use ss – Rela | er – A ithm ar h – Loa nentati featur xpansio sor – A r Interf | Simp ad Da ader on ex con ex con - NSI (face - p with | Ti le Boo ta Stru Option ample ample fon – I Con Keyw C Mac C Mac Ti C Mac | otal Hrs otstrap Lo uctures fo is – Load - MSDO otal Hrs Macro Pr catenatio ord Mac ro langua otal Hrs or Struct | Dade or Lir der c DS lii coces n o ro P age. ure. the | er – Mac hking Lo lesign o nker. ssor Alg f Macro Paramete – Intera system | chine de ader – M ptions – 9 orithm a o Param ers-Macr 9 active de – User-l 45 | Aachine Linkag and dat eters o withi buggin nterfac |
| 3 LOADE Basic loader fulloader features independent lo Editors – Dynar 4 MACR0 Basic macro p structures – N Generation of 5 SYSTE Text editors – Deb Criteria. Total hours to b Text book (s) : 1 Leland | RS AND LINKERS Inctions – Design of an Absolu – Relocation – Program Linking ader features – Automatic Libra mic Linking – Bootstrap Loaders D PROCESSORS rocessor functions – Macro De Machine-independent macro p Unique Labels – Conditional entation example – MASM Macr M SOFTWARE TOOLS Overview of the Editing Procesugging functions and capabilitie be taught L. Beck, "System Software – Macro Asia, 2000. | ite Loade g – Algori iry Searc s – Impler efinition a rocessor Macro E o Proces ss – Use ss – Rela | er – A ithm ar h – Loa nentati featur xpansio sor – A r Interf | Simp ad Da ader on ex con ex con - NSI (face - p with | Ti le Boo ta Stru Option ample ample fon – I Con Keyw C Mac C Mac Ti C Mac | otal Hrs otstrap Lo uctures fo is – Load - MSDO otal Hrs Macro Pr catenatio ord Mac ro langua otal Hrs or Struct | Dade or Lir der c DS lii coces n o ro P age. ure. the | er – Mac hking Lo lesign o nker. ssor Alg f Macro Paramete – Intera system | chine de ader – M ptions – 9 orithm a o Param ers-Macr 9 active de – User-l 45 | Aachine Linkag and dat eters o withi buggin nterfac |
| 3 LOADE Basic loader fulloader features independent lo Editors – Dyna 4 MACR0 Basic macro p structures – M Generation of Macro-Impleme 5 SYSTE Text editors – Notation of Text editors – Deb Criteria. Total hours to b Text book (s) : 1 Leland Educati Reference (s) : 1 D. M. I McGraver | RS AND LINKERS Inctions – Design of an Absolu – Relocation – Program Linking ader features – Automatic Libra mic Linking – Bootstrap Loaders D PROCESSORS rocessor functions – Macro De Machine-independent macro p Unique Labels – Conditional entation example – MASM Macr M SOFTWARE TOOLS Overview of the Editing Procesugging functions and capabilitie be taught L. Beck, "System Software – Macro Asia, 2000. | te Loade g – Algori rry Searc s – Impler efinition a rocessor Macro E o Process ss – Use ss – Rela | er – A ithm ar h – Loo mentati nd Exp featur xpansio sor – A r Interf tionship uction | Simp nd Da ader on e> pansi- res - on - NSI (face - p with to Sy rating | Tile Boo ta Stru Optior cample Tri on – I Con Keyw C Mac C Mac C Mac C Mac C Mac Tri C Con Keyw C Mac | otal Hrs otstrap Lu uctures for as – Load a – MSDC otal Hrs Macro Pr catenatio ord Mac ro langua otal Hrs or Struct parts of s Program ems", Se | opade or Lir der c DS lin occes n o ro P age. ure. the | er – Mac nking Lo lesign o nker. ssor Alg f Macro Paramete - Intera system | chine de ader – M ptions – 9 orithm a o Param ers-Macr 9 active de – User-l 45 Edition, | Aachine Linkag and dat heters o withi buggin nterfac Pearso |

| K.S.R | angasamy College of Techno | ology - A | luto | nomo | ous Reg | gulation | | | R 2008 |
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| Department | Information Technology | Progra | mme | e Cod | le & Na | me I | | 1: B.Te tion Te | ech. echnology |
| | | Seme | ster | VIII | | | | | |
| Course Code | Course Name | | H | ours/\ | Week | Credit | ľ | Maxim | um Marks |
| Course Code | Course Marine | | L | Т | Р | С | CA | ES | Total |
| 08210804P | PROJECT WORK – PHASE | 11 | 0 | 0 | 20 | 10 | 50 | 50 | 100 |
| Objective(s) | To enables and strengthen: implement their innovative ic adopting suitable assessmen | deas to | foref | ront | the risk | issues and | d to ret | | |
| | Three reviews have t | to be co | nduc | ted b | by the c | ommittee of | minimu | um of | three members |
| Methodology | one of which should l | be the g | uide | | | | | | |
| | Each review has to b | e evalua | ated | for 10 | 00 Mark | S | | | |
| | Attendance is compute | ulsory fo | r all | revie | ws. If a | student fai | ls to at | tend re | eview for some |
| | valid reason, one or r | more cha | ance | may | be give | en | | | |
| | They should publish | the pape | er pre | eferal | bly in th | e journals / | confere | ence | |
| | Final review will be | e done | by t | he c | ommitte | e that cor | nsists o | of min | imum of three |
| | members one of whi | ich shou | ıld b | e the | guide | (If possible | include | e one | external expert |
| | examiner with in the | college) | | | | | | | |
| | The Report should be | e submit | ted b | by the | e studer | nts around a | it the er | nd of m | nay. |

| K.S.Rangasamy College of Technology - Autonomous Regulation R 2008 | | | | | | | | | | |
|---|---------------------------|---|----------|--------|-------------------------|-----------------|--------|----------|--------------------------|----------|
| Departr | nent | Information Technology | Pro | | mme Cod Name | e & | Ir | | I: B.Tech. tion Techn | ology |
| | | Sem | nester ' | VI | | - | | | | |
| Course | Code | Course Name | Hou | | Week | Crea | dit | М | aximum M | arks |
| | oouc | | L | Т | Р | С | | CA | ES | Total |
| 082106 | 41E | COMPILER DESIGN | 3 | 0 | 0 | 3 | | 50 | 50 | 100 |
| Objective(s) To understand, design and implement a lexical analyzer, understand, design and implement a parser, understand optimization of codes and runtime environment. | | | | | | | | lement a | | |
| 1 | INTR | ODUCTION TO COMPILERS | | | Tota | Hrs | | | 9 | |
| | – Com tion of | alysis of the source program – Phase piler construction tools - Lexical Ar Tokens. FAX ANALYSIS | | | | exical | | | | |
| Role of t Parsing - | he par Predic SLR P | ser –Writing Grammars –Context-Fre stive Parsing – Bottom-up parsing - S arser - Canonical LR Parser - LALR F | Shift R | educ | ars – Top ce Parsing | o Dow g – Op | | | Recursive | |
| 3 | INTE | RMEDIATE CODE GENERATION | | | Tota | Hrs | | | 9 | |
| | | guages – Declarations – Assignment Procedure calls. | Stater | nent | s – Boole | an Ex | press | sions – | Case Stat | ements – |
| 4 | | E GENERATION | | | Total | | | | 9 | |
| | Graph | sign of code generator – The target not not simple iz a Next-use Information – A simple ization. | | | | | | | | |
| 5 | COD | E OPTIMIZATION AND RUN TIME RONMENTS | | | Total | Hrs | | | 9 | |
| Flow Ana | alysis – | incipal Sources of Optimization – Op Runtime Environments – Source Lang ess to non-local names – Parameter F | guage | issu | | | | | | |
| Total hou | irs to be | e taught | | | | | | | 45 | |
| Text bool | k : | | | | | | | | | |
| 1 | | l Aho, Ravi Sethi, Jeffrey D Ullman, ation Asia, 2003. | "Com | piler | s Principl | es, Te | echnio | ques a | nd Tools", | Pearson |
| Referenc | e (s) : | | | | | | | | | |
| 1 | Allen | I. Holub "Compiler Design in C", Prent | tice Ha | all of | India, 200 | 03. | | | | |
| 2 | | Fischer and R. J. LeBlanc, "Crafting a | - | | | - | | - | | |
| 3 | | ennet, "Introduction to Compiler Tech | | | | | | | | |
| 4 | | Alblas and Albert Nymeyer, "Practice | | | | • | | • | | |
| 5 | Kenne | eth C. Louden, "Compiler Constructior | n: Prino | ciple | s and Pra | ctice", | Thor | mpson | Learning, 2 | 2003. |

| K.S. | Rangasamy College of Techr | nology - J | Auton | omou | ıs Reç | Julation | | R 20 | 008 |
|---|--|---|---|-----------------------------------|--------------------------------------|--|--|--------------------------------------|---------------------------------|
| Department | Information Technology | Pro | gram | | de & | | | B.Tech. | |
| | | Seme | | ame | | In | rormation | n Technol | ogy |
| | | Oeme | | rs / W | leek | Credit | Ma | ximum Ma | arks |
| Course Code | Course Name | | L | T | P | C | CA | ES | Total |
| 08210642E | DISCRETE MATHEMATICS | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(s) | At the end of the course, stud logic of a program, have gair base and a basic for the pro many levels, be aware of a cla which relates to input output properties of algebraic structur | ned know log langu ass of fun function | vledge uage, l octions us in c | whicł nave a whicł compu | h has an un h trans iter so | application derstanding form a finite ience, be e | in experi in identiti set into xposed | t system, fying patt another f | in data erns on inite set |
| 1 PROPOS | SITIONAL CALCULUS | | | | | Total Hrs | | 9 | |
| Truth tables – DeMorgan's La | Logical connectives – Compor Tautologies and contradiction ws - Normal forms – Principal alidity of arguments. | is – Con | trapos | itive - | – Log | ical equivale | ences ar | nd implica | ations – |
| 2 PREDICA | ATE CALCULUS | | | | | Total Hrs | | 9 | |
| specification an 3 SET THE Basic concepts – Relations on | Notations – Subset – Algebra sets –Types of relations and t lations –functions – Classificati | guments. a of sets heir prop | – The erties | powe – Rel | r set - ationa | Total Hrs - Ordered pa I matrix and | irs and (the grap | 9 Cartesian oh of a re | product elation – |
| | & BOOLEAN ALGEBRA | | | | | Total Hrs | | 9 | |
| | g – Poset – Hasse diagram – and minimization of Boolean fur | | and th | eir pr | operti | es – sublatti Total Hrs | ices - Bo | oolean Al | gebra - |
| | ems – Definitions – Examples - | Droport | line | Somi | | | Homo | • | e Sub |
| | d Submonoids - Cosets and Lag | | | | | | | morphish | 1 – Sub |
| Total hours to b | | jiange e | | | <u></u> | 0009.00000 | | 45 | |
| Text book (s) : | | | | | | | | | |
| Tata McC | J.P and Manohar R, "Discrete M Braw–Hill Pub. Co. Ltd, New De | lhi, 2003. | | | | | | | |
| Pearson | . Grimaldi, "Discrete and Comb Education Asia, Delhi, 2002. | pinatorial | Mathe | ematic | s: An | Applied Intr | oduction | ", Fourth | Edition, |
| Reference (s) : | | | | | | | | | |
| Indian rep | Kolman, Robert C. Busby, Sh print, Pearson Education Pvt Lto | d., New D | elhi, 2 | 003. | | | | | |
| Ltd., New | H.Rosen, "Discrete Mathematic Delhi, 2003. | | •• | | - | | | | |
| 3 Richard J | lohnsonbaugh, "Discrete Mathe | matics", I | -ifth E | dition, | Pears | son Educatio | on Asia, N | New Delhi | , 2002. |

| K.S. | Rangasamy College of Techn | ology - / | Auton | omou | s Reg | gulation | | R 20 | 008 |
|--|---|--|--|---|---|--|---|---|---|
| Department | Information Technology | Pro | gramn | | de & | Inf | | B.Tech. | 0.01/ |
| | | Seme | | ime | | Ini | ormalio | n Technol | ogy |
| | | Como | | rs / W | 'eek | Credit | Ма | aximum M | arks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210643E | EMBEDDED SYSTEMS | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Aim | To give sufficient background | for undei | rtaking | embe | edded | systems des | sign. | | |
| Objective(s) | To introduce students to the en and buses used for embedded programming in C and C++, and an exemplary case of MU | ed netwo explain COS – II | orking, real tir | expla ne op | ain pr | ogramming o ng systems, i | concept inter-tas | s and em sk commu | bedded |
| | JCTION TO EMBEDDED SYST | | | | | Total Hrs | | 9 | |
| embedded into use of VLSI des | 0 | dded Sy | stems | | | | | | |
| | S AND BUSES FOR DEVICES N | | | | | Total Hrs | | 9 | |
| | Device I/O Types and Exam | | | | | | | | |
| - Parallel Port D | s from Serial Devices - Example evices - Timer and Counting De , PCI-X, cPCI and advanced bu | evices - ' | | | | | | | |
| | MMING CONCEPTS AND EME | BEDDED |) | | | Total Hrs | | 9 | |
| Programming ir | n assembly language (ALP) v | | | | | | | | |
| | of Pointers - NULL Pointers - Us on Pointers – Function Queues | | | | | | | | |
| compilers – Cro | ss compiler – Optimization of m | emory co | odes. | | • | | | | .eg.a |
| | IE OPERATING SYSTEMS – F rocess, tasks and threads – In | | | | | Total Hrs | | 9 | |
| SYSTEMS : R performance me Monotonics Co Section Service COMMUNICATI Inversion Proble | FOS Task scheduling models etrics – Co-operative Round R -operative Scheduling) – Pree by a Preemptive Scheduler – F ON AND SYNCHRONISATIO em and Deadlock Situations – I esource key – Message Queue | - Handl Robin Sc mptive S Fixed (St N – Sha nter Proc | ing of hedulii Schedi atic) R ared d cess C | task ng – uling eal tin ata pi commu | scheo Cyclic Mode ne scl robler unicat | duling and la Scheduling I strategy by heduling of ta n – Use of ions using S | atency a with Ti y a Sch asks - I Semap ignals – | and deadl ime Slicin neduler – NTER PR hore(s) – · Semapho | ines as g (Rate Critical OCESS Priority ore Flag |
| 5 REAL TIN | IE OPÉRATING SYSTEMS – F | PART - 2 | | | | Total Hrs | | 9 | |
| Service Function Functions – Mai – Understanding | C/OS-II or Vx Works or Any othen ns – Time Delay Functions – Me Ibox Related Functions – Queur g Case Definition – Multiple Tas rry Coding Steps. | emory Al e Relate | locatio d Func | n Rela tions · | ated F – Cas | Functions – S se Studies of | emapho Progran | ore Relate | d n RTOS |
| Total hours to be | e taught | | | | | | | 45 | |
| Text book : | | | | | | | | | |
| 1 Rajkamal Oct. 2003 | , Embedded Systems Architect | ure, Pro | gramm | ning a | nd De | esign, TATA | McGrav | v-Hill, Firs | t reprint |
| Reference (s) : | | | | | | | | | |
| | ath, Embedded Systems Desigr | | | | | | | | |
| 2 David E.S | Simon, An Embedded Software | Primer, F | Pearso | n Edu | catior | n Asia, First I | ndian R | eprint 200 | 0. |
| India, Mo | olf, Computers as Components rgan Kaufman Publishers, First | Indian R | eprint | 2001. | | | - | - | |
| | ahid and Tony Givargis, Em on, John Wiley, 2002. | bedded | Syste | ems L | Jesigr | n – A unifi | ea Hai | dware /S | onware |

| Department Information Technology Programme Code & Name 21: B.Tech. Information Technology Semester - VI Course Code Course Name Hours / Week Credit Maximum Marks 08210644E SOFTWARE QUALITY 3 0 0 3 50 50 100 0bjective(s) To Understand the Concept & Software Quality Management, understand the software configuration management, understand the Software Concept & Software Process assessment principles. Intropolytical distribution of the software configuration for the software configuration management. 9 Software Process assessment overview – Assessment phases – assessment principles – Assessment conduct – Implementation consideration – Quality management – Quality assurance plan – Considerations – Verification and Validation. 9 2 CONFIGURATION MANAGEMENT Total Hrs 9 Need for configuration Management – Software product nomenclature – configuration management functions – Baselines – Responsibilities – Need for automated tools – plan – SCM support functions – The requirement phase Design control – The implementation phase – Test phase – SCM Tools – Configuration accounting and audit. 9 3 SOFTWARE STANDARDS AND INSPECTION Total Hrs | K.S. | Rangasamy College of Techn | ology - / | Auton | omou | s Reg | ulation | | R 20 | 008 |
|---|---|--|------------------|---------|---------|--------|-----------------------------|----------------------|-----------|--------------|
| Course Code Course Name Hours / Week Credit Maximum Marks 08210644E SOFTWARE QUALITY MANAGEMENT 3 0 0 3 50 50 100 0bjective(s) To Understand the Concept & Software Quality Management, understand the software configuration Management, understand the software standards, understand the software Testing Principles, Understand the Principles & detect Prevention in software. 1 INTRODUCTION Total Hrs 9 Software Process assessment overview – Assessment phases – assessment principles – Assessment conduct – Implementation consideration – Quality management – Quality assurance plan – Consideration – Verification and Validation. 7 Total Hrs 9 Need for configuration Management – Software product nomenclature – configuration management functions – The requirement phase Design control – The implementation phase – Test phase – SCM support functions – The requirement phase Design control – The implementation phase – Test phase – SCM Tools – Configuration accounting and audit. 3 SOFTWARE STANDARDS AND INSPECTION Total Hrs 9 Perinitions – Reason for software standards – Benefits – Establishing standards – Guidelines – Types of reviews – Inspection of objectives – Basic inspection principles – The conduct of inspection – Inspection raining. 9 TestIng: principles – Types – Planning – Development – Execution and reporting – Tools and methods - Real Time testing – Quality management | Department | Information Technology | Pro | - | | de & | In | | | ogy |
| Course CodeCourse NameLTPCCAESTotal08210644ESOFTWARE QUALITY300350501000bjective(s)To Understand the Concept & Software Quality Management, understand the software onfiguration Management, understand the software standards, understand the software configuration Management, understand the software standards, understand the software configuration Management, understand the software standards, understand the software configuration Management, understand the software standards, understand the software configuration Management, understand the software standards, understand the software configuration Management, understand the software consideration = Quality management = Quality assurance plan = Considerations = Verification and Validation.Total Hrs92CONFIGURATION MANAGEMENTTotal Hrs9Need for configuration Management = Software product nomenclature = configuration management functions = The requirement phase Design control = The implementation ophase = Test phase = SCM Tools = Configuration accounting and audit.Software STANDARDS AND INSPECTIONTotal Hrs92Software STANDARDS AND INSPECTIONTotal Hrs99Definitions = Reason for software standards = Benefits = Establishing standards = Guidelines = Types of reviews = Inspection of objectives = Basic inspection principles = The conduct of inspection = Inspection raining.4TESTING AND MANAGEMENT SOFTWARE QUALITYTotal Hrs99Testing: principles = Types = Planning - Development = Execution and reporting - Tools and methods - Real Time testing - Quality motivation - Measument criteria = Establishing a software quality program = Estim | | | Semes | ter – V | Ί | | | | | |
| LTPCCAESTotal08210644ESOFTWARE QUALITY30035050100To Understand the Concept & Software Quality Management, understand the software tandards, understand the software configuration Management, understand the software standards, understand the software configuration Management, understand the software tandards, understand the software configuration Management, understand the software process assessment overview – Assessment phases – assessment principles – Assessment conduct1INTRODUCTIONTotal Hrs9Software Process assessment overview – Assessment phases – assessment principles – Assessment conductTotal Hrs92CONFIGURATION MANAGEMENTTotal Hrs9Need for configuration Management – Software product nomenclature – configuration management functions –9Baselines – Responsibilities – Need for automated tools – plan – SCM support functions – The requirement phase Design control – The implementation phase – Test phase – SCM support functions – The requirement phase Inspection of objectives – Basic inspection principles – The conduct of inspection – Inspection – Inspection – Inspection – Inspection – Inspection – Software standards – Benefits – Establishing standards – Guidelines – Types of reviews – Inspection of objectives – Basic inspection principles – The conduct of inspection – Inspection – Inspection – Inspection – Descripting – Total Hrs94TESTING AND MANAGEMENT SOFTWARE QUALITYTotal Hrs9Festing: principles – Types – Planning – Development – Execution and reporting – Total Hrs9Festing: principles – Types – Planning – Development – Execution and reporting – Total Hrs | Course Code | | | Hou | rs / W | eek | Credit | Ma | ximum M | arks |
| 08210644E MANAGEMENT 3 0 0 3 50 50 100 Velocities To Understand the Concept & Software Quality Management, understand the software configuration Management, understand the software configuration Management, understand the software testing Principles, Understand the Principles & detect Prevention in software. 1 INTRODUCTION Total Hrs 9 Software Process assessment overview – Assessment phases – assessment principles – Assessment conduct – Implementation consideration – Quality management – Quality assurance plan – Considerations – Verification and Validation. Total Hrs 9 2 CONFIGURATION MANAGEMENT Total Hrs 9 Need for configuration Management – Software product nomenclature – configuration management functions – Baselines – Responsibilities – Need for automated tools – plan – SCM support functions – The requirement phase Design control – The implementation phase – Test phase – SCM Tools – Configuration accounting and audit. 3 SOFTWARE STANDARDS AND INSPECTION Total Hrs 9 Perinciples – Inspection of objectives – Basic inspection principles – The conduct of inspection – Inspection training. 9 4 TESTING AND MANAGEMENT SOFTWARE QUALITY Total Hrs 9 Testing: principles – Types – Planing – Development – Execution and reporting – Tools and methods - Real software quality monagement paradigm – Quality motivation – Measurement criteria – E | Course Code | Codise Maille | | L | Т | Ρ | С | CA | ES | Total |
| Objective(s) process Assessment, understand the software configuration Management, understand the software standards, understand the software Testing Principles, Understand the Principles & detect Prevention in software. 1 INTRODUCTION Total Hrs 9 Software Process assessment overview – Assessment phases – assessment principles – Assessment conduct – Implementation consideration – Quality management – Quality assurance plan – Considerations – Verification and Validation. 9 2 CONFIGURATION MANAGEMENT Total Hrs 9 Need for configuration Management – Software product nomenclature – configuration management functions – Baselines – Responsibilities – Need for automated tools – plan – SCM support functions – The requirement phase Design control – The implementation phase – Test phase – SCM Tools – Configuration accounting and audit. 9 3 SOFTWARE STANDARDS AND INSPECTION Total Hrs 9 Definitions – Reason for software standards – Benefits – Establishing standards – Guidelines – Types of reviews – Inspection of objectives – Basic inspection principles – The conduct of inspection – Inspection training. 4 TESTING AND MANAGEMENT SOFTWARE QUALITY Total Hrs 9 Testing: principles – Types – Planning – Development – Execution and reporting – Tools and methods - Real Time testing – Quality management paradigm – Quality motivation – Measurement criteria – Establishing a software quality program – Estimating software quality 9 Principles of software defect prevent | 08210644E | MANAGEMENT | | - | - | • | | | | |
| Software Process assessment overview – Assessment phases – assessment principles – Assessment conduct - Implementation consideration – Quality management – Quality assurance plan – Considerations – 2 CONFIGURATION MANAGEMENT Total Hrs 9 Need for configuration Management – Software product nomenclature – configuration management functions – Total Hrs 9 Need for configuration Management – Software product nomenclature – configuration management functions – The requirement phase Design control – The implementation phase – Test phase – SCM Tools – Configuration accounting and audit. 3 SOFTWARE STANDARDS AND INSPECTION Total Hrs 9 Definitions – Reason for software standards – Benefits – Establishing standards – Guidelines – Types of reviews – Inspection of objectives – Basic inspection principles – The conduct of inspection – Inspection training. 9 4 TESTING AND MANAGEMENT SOFTWARE QUALITY Total Hrs 9 Yenciples – Types – Planning – Development – Execution and reporting – Tools and methods - Real software quality management paradigm – Quality motivation – Measurement criteria – Establishing a software quality managements role – Framework for software process change – Managing resistance to software process change. 5 DEFCT PREVENTION Total Hrs 9 Principles of software defect prevention – Process changes for defect prevention – Defect prevention consideration – Managements role – Framework for software process change – | | process Assessment, unders software standards, understa detect Prevention in software. | stand the | softw | are c | onfigu | iration Man inciples, Un | agement, derstand | , underst | and the |
| - Implementation consideration – Quality management – Quality assurance plan – Considerations – Verification and Validation. 2 CONFIGURATION MANAGEMENT Total Hrs 9 Need for configuration Management – Software product nomenclature – configuration management functions – Baselines – Responsibilities – Need for automated tools – plan – SCM support functions – The requirement phase Design control – The implementation phase – Test phase – SCM Tools – Configuration accounting and audit. 3 SOFTWARE STANDARDS AND INSPECTION Total Hrs 9 Definitions – Reason for software standards – Benefits – Establishing standards – Guidelines – Types of reviews – Inspection of objectives – Basic inspection principles – The conduct of inspection – Inspection training. 1 4 TESTING AND MANAGEMENT SOFTWARE QUALITY Total Hrs 9 Testing: principles – Types – Planning – Development – Execution and reporting – Tools and methods - Real Time testing – Quality management paradigm – Quality motivation – Measurement criteria – Establishing a software quality program – Estimating software quality. 5 DEFCT PREVENTION Total Hrs 9 Principles of software defect prevention – Process changes for defect prevention – Defect prevention consideration – Managements role – Framework for software process change – Managing resistance to software process change. 4 Total Hours to be Taught 45 1 Watts S. Humphrey, Managing the software process, Addison Wesley, 1999. | 1 INTROD | UCTION | | | | | Tot | tal Hrs | | 9 |
| Need for configuration Management – Software product nomenclature – configuration management functions – Baselines – Responsibilities – Need for automated tools – plan – SCM support functions – The requirement phase Design control – The implementation phase – Test phase – SCM Tools – Configuration accounting and audit. 3 SOFTWARE STANDARDS AND INSPECTION Total Hrs 9 Definitions – Reason for software standards – Benefits – Establishing standards – Guidelines – Types of reviews – Inspection of objectives – Basic inspection principles – The conduct of inspection – Inspection training. 9 4 TESTING AND MANAGEMENT SOFTWARE QUALITY Total Hrs 9 Testing: principles – Types – Planning – Development – Execution and reporting – Tools and methods - Real software quality program – Estimating software quality. 9 5 DEFCT PREVENTION Total Hrs 9 9 Principles of software defect prevention – Process changes for defect prevention – Defect prevention consideration – Managements role – Framework for software process change – Managing resistance to software process change. 1 Watts S. Humphrey, Managing the software process, Addison Wesley, 1999. Reference (s) : 1 Tsum S.Chow, Software Quality Assurance a Practical Approach, IEEE Computer Society press, 1985. | Implementat Verification and | ion consideration – Quality ı I Validation. | | | | | issurance p | olan - C | | |
| Baselines – Responsibilities – Need for automated tools – plan – SCM support functions – The requirement phase Design control – The implementation phase – Test phase – SCM Tools – Configuration accounting and audit. 3 SOFTWARE STANDARDS AND INSPECTION Total Hrs 9 Definitions – Reason for software standards – Benefits – Establishing standards – Guidelines – Types of reviews – Inspection of objectives – Basic inspection principles – The conduct of inspection – Inspection training. 4 TESTING AND MANAGEMENT SOFTWARE QUALITY Total Hrs 9 4 TESTING AND MANAGEMENT SOFTWARE QUALITY Total Hrs 9 7 Testing: principles – Types – Planning – Development – Execution and reporting – Tools and methods - Real Time testing – Quality management paradigm – Quality motivation – Measurement criteria – Establishing a software quality program – Estimating software quality. 5 DEFCT PREVENTION Total Hrs 9 5 DEFCT PREVENTION Total Hrs 9 9 6 DEFCT PREVENTION Total Hrs 9 9 Principles of software defect prevention – Process changes for defect prevention – Defect prevention consideration – Managements role – Framework for software process change – Managing resistance to software process change. 45 Text book : 45 1 Watts S. Humphrey, Managing the software process, Addison Wesley, 1999. 45 | 2 CONFIG | URATION MANAGEMENT | | | | | Tot | tal Hrs | | 9 |
| 4 TESTING AND MANAGEMENT SOFTWARE QUALITY Total Hrs 9 Testing: principles – Types – Planning – Development – Execution and reporting – Tools and methods - Real Time testing – Quality management paradigm – Quality motivation – Measurement criteria – Establishing a software quality program – Estimating software quality. 5 DEFCT PREVENTION Total Hrs 9 5 DEFCT PREVENTION Total Hrs 9 Principles of software defect prevention – Process changes for defect prevention – Defect prevention consideration – Managements role – Framework for software process change – Managing resistance to software process change. Total hours to be Taught 45 Text book : 1 Watts S. Humphrey, Managing the software process, Addison Wesley, 1999. 1 Tsum S.Chow, Software Quality Assurance a Practical Approach, IEEE Computer Society press, 1985. | audit. 3 SOFTW/ Definitions – R reviews – Insp | ARE STANDARDS AND INSPE teason for software standards | CTION – Benef | its – I | Establ | ishing | Tot | tal Hrs – Guide | lines – T | 9 ypes of |
| Time testing – Quality management paradigm – Quality motivation – Measurement criteria – Establishing a software quality program – Estimating software quality. 5 DEFCT PREVENTION Total Hrs 9 Principles of software defect prevention – Process changes for defect prevention – Defect prevention consideration – Managements role – Framework for software process change – Managing resistance to software process change. Managements role – Framework for software process change – Managing resistance to software process change. Total hours to be Taught 45 Text book : 1 1 Watts S. Humphrey, Managing the software process, Addison Wesley, 1999. Reference (s) : 1 1 Tsum S.Chow, Software Quality Assurance a Practical Approach, IEEE Computer Society press, 1985. | | G AND MANAGEMENT SOFTW | ARE QU | IALITY | , | | Tot | tal Hrs | | 9 |
| Principles of software defect prevention – Process changes for defect prevention – Defect prevention consideration – Managements role – Framework for software process change – Managing resistance to software process change. Total hours to be Taught 45 Text book : 1 1 Watts S. Humphrey, Managing the software process, Addison Wesley, 1999. Reference (s) : 1 1 Tsum S.Chow, Software Quality Assurance a Practical Approach, IEEE Computer Society press, 1985. | Time testing - | Quality management paradigm | n – Quali | | | | | | | |
| consideration – Managements role – Framework for software process change – Managing resistance to software process change. Total hours to be Taught 45 Text book : 1 1 Watts S. Humphrey, Managing the software process, Addison Wesley, 1999. Reference (s) : 1 1 Tsum S.Chow, Software Quality Assurance a Practical Approach, IEEE Computer Society press, 1985. | 5 DEFCT | PREVENTION | | | | | Tot | tal Hrs | | 9 |
| Total hours to be Taught 45 Text book : 1 1 Watts S. Humphrey, Managing the software process, Addison Wesley, 1999. Reference (s) : 1 1 Tsum S.Chow, Software Quality Assurance a Practical Approach, IEEE Computer Society press, 1985. | consideration - | - Managements role – Frame | | | | | | | | |
| 1 Watts S. Humphrey, Managing the software process, Addison Wesley, 1999. Reference (s) : 1 1 Tsum S.Chow, Software Quality Assurance a Practical Approach, IEEE Computer Society press, 1985. | | | | | | | | | 4 | 45 |
| Reference (s) : 1 Tsum S.Chow, Software Quality Assurance a Practical Approach, IEEE Computer Society press, 1985. | Text book : | | | | | | | | | |
| 1 Tsum S.Chow, Software Quality Assurance a Practical Approach, IEEE Computer Society press, 1985. | 1 Watts S. | Humphrey, Managing the softw | are proc | ess, A | ddisor | n Wes | ley, 1999. | | | |
| | Reference (s) : | | | | | | | | | |
| 2 Richard E. Fairley, Software Engineering – A Practitioner's approach, McGraw Hill, 1982. | | | | | | | - | | | 1985. |
| | 2 Richard | E. Fairley, Software Engineering | g – A Pra | ctition | er's ap | proac | h, McGraw | Hill, 1982 | 2. | |

| K.S | Rangasamy College of Techn | ology - / | Auton | omou | s Reg | ulation | | R 2 | 800 |
|-----------------------------------|--|-----------|--------------|--------------|--------|--------------------------------|-------------------|-------------------|-----------|
| Department | Information Technology | Pro | ogramr Na | ne Co ame | de & | Inf | 21: B ormation | .Tech. Technol | ogy |
| | | Seme | ster VI | | | | | | |
| Course Code | Course Name | | Hou | rs / W | eek | Credit | Max | kimum M | arks |
| Course Coue | | | L | Т | Р | С | CA | ES | Total |
| 08210645E | CRYPTOGRAPHY AND NET SECURITY | - | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Aim | To understand the principl cryptography, have a detailed level security mechanisms. | l knowled | lge ab | out au | thenti | cation, hash | functions | s and ap | olication |
| Objective(s) | To know the methods of co encryption and number theo network security tools and ap | ory, unde | erstand | auth | entica | ation and H | ash func | tions, kr | |
| 1 INTRO | DUCTION | | | | | Total Hrs | | 10 | |
| Block cipher de – Placement of | rchitecture - Classical encryptic esign principles and modes of op f encryption function – Traffic cor | peration | - Evalı | | | a for AES – | | her – Trij | |
| _ | IC KEY CRYPTOGRAPHY | | | | | Total Hrs | | 10 | |
| | ent – Diffie - Hellman key excha ory – Confidentiality using symm | | | | | | | | oduction |
| | IENTICATION AND HASH FUNC | | | | | Total Hrs | | 9 | |
| Security of has | requirements – Authentication sh functions and MACs – MD5 M ignatures – Authentication proto | lessage | Digest | algor | ithm - | Secure Has | | | |
| | ORK SECURITY | | | 0 | | Total Hrs | | 8 | |
| | applications: Kerberos – X.50 ecurity – Web security. | 9 Authe | nticatio | on sei | rvice | Electronic | mail se | curity – | PGP – |
| 5 SYST | EM LEVEL SECURITY | | | | | Total Hrs | | 8 | |
| | tion – password management – es – Trusted systems. | Viruses a | and re | ated 7 | Threat | s – Virus cou | unter mea | asures – | Firewall |
| Total hours to | be taught | | | | | | | 45 | |
| Text book : | | | | | | | | | |
| ¹ India, | m Stallings, "Cryptography And Third Edition, 2003. | Network | Secu | rity – | Princi | ples and Pr | actices", | Prentice | Hall of |
| Reference (s) | | | | | | | | | |
| | ahate, "Cryptography and Netwo | | • | | | | | | |
| _ | Schneier, "Applied Cryptograph | | • | | | | | | |
| 4 | es B. Pfleeger, Shari Lawrenc ation, 2003. | e Pfleeg | ger, "S | Securit | ty in | Computing", | Third E | Edition, I | Pearson |

| K.S | Rangasamy College of Techn | ology - Aut | onom | ous R | egula | tion | | R 20 | 800 |
|----------------------------------|---|---------------|----------------|---------|----------|------------|-------------|-------------------|-----------|
| Department | Information Technology | Progra | amme (Name | | <u>k</u> | Inf | | .Tech. Technol | ogy |
| | | Semester | ٠VI | | | | | | |
| | Course Name | | Hou | rs / We | eek | Credit | Max | kimum M | arks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210646E | ADVANCED JAVA PROGRAM | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Aim | To enable the students to de applications – Using Java Tec | hnology. | | · | | Ū | | | |
| Objective(s) | To learn advanced Java prog etc, develop network programs tier applications; understand is | s in Java, ur | ndersta | nd Co | ncep | ts needed | d for distr | | |
| 1 JAVA FL | JNDAMENTALS | | | | | otal Hrs | | 9 | |
| - Threading - | ning – filter and pipe streams – I Java Native Interfaces- Swing. RK PROGRAMMING IN JAVA | Byte code in | terpret | ation - | | ction – D | ynamic F | eflexive | Classes |
| data from the s messaging ser | | g the conned | | | ng the | header - | | pplicatior | |
| | ATIONS IN DISTRIBUTED ENV | | | | | otal Hrs | | 9 | |
| | od Invocation – activation mode n – CORBA – IDL technology - | | | | | | | | |
| | TIER APPLICATION DEVELOPM | IENT | | | Т | otal Hrs | | 9 | |
| communication | ogramming – servlets – Java Se n - JDBC – using BLOB and CLC ications – Java media Framewor |)B objects – | | | | | | | |
| 5 ENTERI | PRISE APPLICATIONS | | | | Т | otal Hrs | | 9 | |
| Server side co beans – Trans | mponent architecture – introduc actions. | tion to J2EE | E – ses | ssion t | beans | s – entity | beans – | Persiste | nt entity |
| Total hours to | be taught | | | | | | | 45 | |
| Text book (s) : | | | | | | | | | |
| | Rusty Harold, " Java Network Pro | | | | | | | | |
| _ | an, "Mastering Enterprise Java E | | - | | | | | | , |
| ³ (UNIT I a | nn & Cornell, "CORE JAVA 2 and UNIT IV). | ADVANCE | D FEA | TURE | S, V | OL II", P | earson E | Educatior | , 2002. |
| Reference (s) : | | | | | | | | | |
| | erence: http://java.sun.com. | | | | | | | | |
| 2 Patrick | Naughton, "COMPLETE REFER | | 12" Ta | ta Mc(| 2row | Hill 2001 | 2 | | |

| К. | S.Rangasamy College of Te | chnology - | Autono | mou | s Regu | ation | | R | 2008 |
|------------------------------------|---|-----------------------|---------|------------------|--------------------|--|--------|------------------------|-------------------------|
| Department | Information Technology | Programm | ne Code | e & Na | ame | 2 Informa | 1: B.T | | logy |
| | | Semes | tor \/I | | | IIIIOIIIId | | echno | logy |
| | | Semes | | | Neek | Credit | Ma | vimun | n Marks |
| Course Code | Course Name | | 1 | T | P | Credit | CA | ES | Total |
| 08210647E | FUNDAMENTALS OF IT | | ∟ 3 | 0 | P 0 | 3 | 50 | ⊑S 50 | 100 |
| Objective(s) | To introduce the fundamer | ntals of comp | - | - | - | - | | | |
| | basic TDBMS concepts. | YSTEM SOF | TWARF | - | | Total Hrs | | | 9 |
| Input/output De Loaders and lir | of Computer Architecture – evices – Measure of CPU Pe hkers – Compilers and interpr | rformance – eters. | Addres | all Co sing r | omputei nodes - | Execution System Soft | of the | l e Instr – Asse | ructions – emblers – |
| 2 OPERATI | NG SYSTEMS AND COMPU | TER NETWC | RKS | | | Total Hrs | | | 9 |
| Introduction to concept – Nota | ND DATABASE DESIGN DBMS – data processing – ations – Normalization – Nee | | | | | | | | |
| forms. 4 SQL | | | | | | Total Hrs | | | 9 |
| | urpose of SQL – History of /iews – DCL statements – Em | | | | | Types – DD | L stat | emen | ts – DML |
| 5 OLTP CO | | | | | | Total Hrs | | | 9 |
| | se – Transaction – Transacti s – Granularity of Locking – I a. | | | | | | | | |
| Total hours to I | | | | | | | | | 45 |
| Text book (s) : | | | | | | | | | |
| 1 Foundatio | n Program Books Vol-1 and V | √ol-2, Infosys | i. | | | | | | |
| Reference(s) : | | | | | | | | | |
| | Tanenbaum, Structured Com | | | | | | | | |
| | z and Galvin, Operating Syst | • | | | | • | | | |
| 3 Henry F k editions, 19 | Korth, Abraham Silberschatz 991. | z, Database | Syster | n Co | ncept, | 2 nd ed McG | iraw-H | lill Inte | ernational |

| K.S | Rangasamy College of Techn | ology - Aut | onom | ous R | egula | tion | | R 20 | 008 |
|------------------------------------|---|-------------------------------|----------------|----------|---------|-------------|------------|-------------------|-----------|
| Department | Information Technology | Programm | ne Coo | de &Na | ame | Inf | | .Tech. Technol | ogy |
| | • | Semester | VII | | | | | | |
| Course Code | Course Name | | Hou | rs/We | eek | Credit | Max | kimum Ma | arks |
| Course Coue | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210751E | CLIENT/SERVER COMPUTIN | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Aim | To enable the students to de applications – Using Java Tec To learn advanced Java prog | hnology. ramming cor | ncepts | like re | eflecti | on, native | e code in | terface, t | hreads, |
| Objective(s) | etc, develop network programs tier applications; understand is | | | | | | | ibuted an | id multi- |
| 1 INTROD | | | sipilise | аррію | | otal Hrs | | 9 | |
| server, client se | computing era, Real Client /Serverver for different models, buildir | ng blocks. | ers or | fat clie | | | 3 Tier, In | tergalact | ic client |
| 2 CLIENT | SERVER OPERATING SYSTE | EMS | | | Т | otal Hrs | | 9 | |
| MAC OS, Linux | erver Programs, Server needs | | | | ver, C | DS/2 warp | | | trends, |
| | SERVER MIDDLEWARE | | | | | otal Hrs | | 9 | |
| messaging an | are global directory service, d peer to peer Sockets, NetWa Evolution of the NOS, DEC, The | are, NetBIO | S, rem | note pr | oced | ure call, | | | |
| | SERVER TRANSACTION PRC | | 1100, | | | otal Hrs | | 9 | |
| Management, | es, Transaction Models, TP IP Monitor Client / Server Inter TP Heavy - Managing Heteroge | action types | , trans | action | al RF | C, Queu | es, TP L | | |
| | SERVER AND INTERNET | | | | | otal Hrs | | 9 | |
| HTML 2.0 's W | rver – Web Style, HTML Tutori /eb – Bared forms, CGI, Wed S istributed object Era – Java Me | Selurity, The | Intern | et and | l Intra | anets, The | e Jave o | bject Era | – Jave |
| Total hours to b | 0 | | | | | | | 45 | |
| Reference Boo | <u> </u> | | | | | | | | |
| Wiley & | Orfail, Dan Harkey Jeri Edwards Sons, Singapore, 2003. | | | | | | | | |
| | .Goldman, Phillip T.Rawles, Ju | lie R.Mariga | ı." Clie | nt / S | erver | Informati | on Syste | ems, A B | |
| ² Oriented | Approach", John Wiley& Sons, S | Singapore, 2 | 000. | | | | - | | |
| 2 Oriented 3 Eric J Jc 2001. | | Singapore, 2 ient / Server | :000. r Com | puting, | " Firs | st edition, | | | |

| K.S | Rangasamy College of Tec | hnology - | Autor | nomol | ıs Re | gulation | | R 2 | 800 |
|-------------------------------------|--|-------------|---------|---------|--------|---------------|-----------|-------------------|------------|
| Department | Information Technology | Progra | imme | Code & | &Nam | e Inf | | .Tech. Technol | 0.01/ |
| | | Seme | ester V | /11 | | 1111 | ormation | Technol | ogy |
| | | Oem | | irs / W | eek | Credit | Ma | ximum M | arks |
| Course Code | Course Name | | L | T | P | C | CA | ES | Total |
| 08210752E | DISTRIBUTED COMPUTIN | G | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(s) | To understand the concept of To understand the concept of | | | | | know the issu | ies of op | erating sy | /stems. |
| 1 INTRODU | | | | | | Total Hrs | | 9 | |
| Performance a 2 Processe | s and distributed objects | | | | | Total Hrs | | 9 | |
| Communication communication | n – Layered Protocols - ATM | networks | – Clie | ent ser | ver m | odel – remo | te proce | dure call | – group |
| | i. I System Issues - I | | | | | Total Hrs | | 9 | |
| Synchornizatio | n – Clock Synchronization - nreads – System models – | | | | | | | | |
| | System Issues - II | | | | | Total Hrs | | 9 | |
| Distributed file replication –mu | systems Distributed file syst | em desig | n – im | pleme | ntatio | | els – fau | lt tolerar | ice - file |
| 5 Distribute | d Processing | | | | | Total Hrs | | 9 | |
| | ared memory - consistency m red memory – Distributed prog | | | | | | nemory - | - shared | variable |
| Total hours to | be taught | | | | | | | 45 | |
| Text book : | | | | | | | | | |
| 1 Andrew S | .Tanenbaum,"Distributed Ope | erating Sys | tems" | , Pear | son E | ducation Asia | a, 2001. | | |
| Reference (s) : | | | | | | | | | |
| | inghal and niranjan G.Shivara | | | • | | | tem, Tata | a McGrav | / Hill. |
| 2 Pradeep.I | c and Sinha," Distributed oper | ating syste | ems, P | HI, Ne | w Del | hi, 2001 | | | |

| | K.S | Rangasamy College of Tecl | hnology - | Auto | nomou | us Re | gulation | | R 2 | 800 |
|-------|-------------------|--|------------|---------|---------|---------|---------------|-------------------|-------------------|---------|
| De | partment | Information Technology | Progra | mme | Code | &Nam | e Inf | 21: B ormation | .Tech. Technol | ogy |
| | | | Seme | ester V | /11 | | | | | |
| Cal | urse Code | Course Name | | Ηοι | ırs / W | eek | Credit | Max | kimum M | arks |
| 00 | | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08 | 210753E | GRID COMPUTING | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Ob | jective(s) | To understand the concept on the concept of the technology of techno | | | | | | | | g. |
| 1 | GRID CO | MPUTING | | | | | Total Hrs | ĺ | 9 | |
| Intro | oduction - D | Definition - Scope of grid comp | uting | | | | | • | | |
| 2 | GRID CO | MPUTING INITIATIVES | | | | | Total Hrs | | 9 | |
| Gric | Computing | g Organizations and their role | s – Grid C | omput | ing an | atomy | / – Grid Comp | outing roa | ad map. | |
| 3 | GRID CO | MPUTING APPLICATIONS | | | | | Total Hrs | | 9 | |
| Mer | ging the Gr | id sources – Architecture with | the Web | Device | es Arch | nitectu | re. | • | | |
| 4 | TECHNO | LOGIES | | | | | Total Hrs | | 9 | |
| | | le use cases – OGSA platforn OGSI , Technical details of O | | | | | | Service | s , A higł | n-level |
| 5 | GRID CO | MPUTING TOOL KITS | | | | | Total Hrs | | 9 | |
| Glo | bus Toolkit | - Architecture, Programming | model, Hig | gh leve | el serv | ices | | • | | |
| Tota | al hours to b | be taught | | | | | | | 45 | |
| Tex | t book : | | | | | | | • | | |
| 1 | Joshy Jos | eph & Craig Fellenstein, "Gric | I Computir | ng", Pł | HI, PTI | R-200 | 3. | | | |
| Ref | erence (s) : | | | | | | | | | |
| 1 | Ahmar Ab 2003. | bas, "Grid Computing: A Prac | tical Guid | e to te | chnolc | ogy an | d Application | s", Charl | es River | media – |
| 2 | D.Janakira | am, "Grid Computing": A Rese | earch Mon | ograpl | h, Tata | NcG | raw-Hill,2005 | | | |

| | Rangasamy College of Tech | hnology - | Auto | nomou | us Reg | gulation | | R 20 | 800 |
|--|---|---|--|----------------------------------|--|--|---|--|---------------------|
| Department | Information Technology | Progra | mme | Code | &Nam | e In | | 3.Tech. n Technol | ogy |
| | | Seme | ester \ | /11 | | | | | |
| Course Code | Course Name | | Ηοι | urs / W | eek | Credit | Ма | ximum M | arks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210754E | HIGH PERFORMANCE NETWORKS | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(s) | To understand the concept Performance Networks. To Networks | | | | | | | | |
| 1 INTRODU | ICTION | | | | | Total Hrs | | 9 | |
| | n networks, network princ | | | ons, | QoS, | (network | and ap | olication), | Traffic |
| | n, network services, elements | , mechani | sms. | | | - | - F | | |
| _ | AND ISDN | | | | | Total Hrs | | 9 | |
| | itecture - Main Features of AT gestion control, Flow control, e | | | | | | | | ng, ATM |
| | SS NETWORK | | liona | | | Total Hrs | | <u>9</u> | |
| | – infrastructure, ADHOC netv | work IEEE | 802 | 11 _ 2 | rchito | ture MAC I | aver mai | | |
| | el Access and MAC sub layers | | | | | | | | |
| ATM. | | | | | | | <u> </u> | | |
| | NETWORKS | | | | | Total Hrs | | 9 | |
| Optical links, V | /DM systems, optical cross co | | | | | | | | |
| | | onnects, o | otical | LANS, | optica | | networks | | |
| | MANCE MEASURES | onnects, o | otical | LANS, | optica | al paths and Total Hrs | networks | 9 | |
| 5 PERFOR ATM networks | MANCE MEASURES – cell transfer delay, cell delay | | | | | Total Hrs | | 9 | SS |
| 5 PERFOR | MANCE MEASURES – cell transfer delay, cell delay parameters. | | | | | Total Hrs | | 9 | SS |
| 5 PERFOR ATM networks network – QoS | MANCE MEASURES – cell transfer delay, cell delay parameters. | | | | | Total Hrs | | 9 lity; wirele | SS |
| 5PERFORATM networksnetworksnetwork – QoSTotal hours toText book :1Jean WalLtd., 2 nd e | MANCE MEASURES – cell transfer delay, cell delay parameters. be taught rand and Pravin Varaiya, "Hig dition, 2001. Chapters 1, 2, 11 | y variation ph Perform 1. | , cell I | oss rat | io, bu | Total Hrs ffer over flow tion network | y probabi | 9 lity; wirele 45 COURT A | |
| 5PERFORATM networks network – QoSTotal hours to IText book :1Jean Wal Ltd., 2 nd e2Stallings, | MANCE MEASURES – cell transfer delay, cell delay parameters. pe taught | y variation h Perform 1. vith frame | , cell I | oss rat | io, bu | Total Hrs ffer over flow tion network | y probabi | 9 lity; wirele 45 COURT A | |
| 5PERFORATM networks network – QoSTotal hours to Total hours to IText book :1Jean Wal Ltd., 2 nd e2Stallings, , 2001. Chi3Kaveh Pa | MANCE MEASURES – cell transfer delay, cell delay parameters. be taught rand and Pravin Varaiya, "Hig dition, 2001. Chapters 1, 2, 11 "ISDN and broadband ISDN w | y variation gh Perform 1. vith frame rthy, "Prin | , cell I nance relay a | oss rat | io, bu nunica | Total Hrs ffer over flow tion network earson Educ | y probabi s", HAR(| 9 lity; wirele 45 COURT A ia, Fourth | sia PTE |
| 5PERFORATM networks network – QoSTotal hours to Total hours to Text book :1Jean Wal Ltd., 2 nd e2Stallings, , 2001. Cha3Kaveh Pa | MANCE MEASURES – cell transfer delay, cell delay parameters. be taught rand and Pravin Varaiya, "Hig dition, 2001. Chapters 1, 2, 11 "ISDN and broadband ISDN w apters 14, 16, 17, Appendix A. ahlavan, Prashant Krishnamu on, 2002, Chapters 10, 11, 12 | y variation gh Perform 1. vith frame rthy, "Prin | , cell I nance relay a | oss rat | io, bu nunica | Total Hrs ffer over flow tion network earson Educ | y probabi s", HAR(| 9 lity; wirele 45 COURT A ia, Fourth | sia PTE |
| | MANCE MEASURES – cell transfer delay, cell delay parameters. be taught rand and Pravin Varaiya, "Hig dition, 2001. Chapters 1, 2, 11 "ISDN and broadband ISDN w apters 14, 16, 17, Appendix A. ahlavan, Prashant Krishnamu on, 2002, Chapters 10, 11, 12 | y variation h Perform 1. vith frame rthy, "Prin , 13. | , cell I nance relay a ciples | Comm and Al | iio, bu nunica M", P | Total Hrs ffer over flow tion network earson Educ Networks", | y probabi s", HAR(| 9 lity; wirele 45 COURT A ia, Fourth | sia PTE |
| 5PERFORATM networks network – QoSTotal hours toText book :1Jean WalLtd., 2 nd e2Stallings, , 2001. Chi3Kaveh Pa First EditiReference (s) :1Walter Go2Neelakan | MANCE MEASURES – cell transfer delay, cell delay parameters. be taught rand and Pravin Varaiya, "Hig dition, 2001. Chapters 1, 2, 11 "ISDN and broadband ISDN wapters 14, 16, 17, Appendix A. ahlavan, Prashant Krishnamu on, 2002, Chapters 10, 11, 12 oralski, "Optical Networking an ta P.S., "A textbook on ATM | y variation h Perform 1. vith frame rthy, "Prin , 13. d WDM", | , cell I nance relay a ciples Tata N | Comm and A1 of W | iio, bu nunica M", P ireless v-Hill, | Total Hrs ffer over flow tion network earson Educ s Networks", 2001. | y probabi s", HAR(cation As Pearsor | 9 lity; wirele 45 COURT A ia, Fourth | sia PTE on Asia, |
| $ \begin{array}{c c} 5 & PERFOR \\ \hline ATM networks \\ network - QoS \\ \hline Total hours to book : \\ \hline Text book : \\ \hline 1 & Jean Wal \\ Ltd., 2^{nd} e \\ 2 & Stallings, \\ , 2001. Cha \\ \hline 3 & First Edition \\ \hline Reference (s) : \\ \hline 1 & Walter Go \\ 2 & Neelakan \\ \hline First edition \\ \hline 2 & Reference \\ \hline 1 & Stalling \\ \hline 1 & Walter Go \\ \hline 2 & Reference \\ \hline 1 & Stalling \\ \hline 1 & Walter Go \\ \hline 2 & Reference \\ \hline 1 & Stalling \\ $ | MANCE MEASURES – cell transfer delay, cell delay parameters. be taught rand and Pravin Varaiya, "Hig dition, 2001. Chapters 1, 2, 11 "ISDN and broadband ISDN wapters 14, 16, 17, Appendix A. ahlavan, Prashant Krishnamu on, 2002, Chapters 10, 11, 12 oralski, "Optical Networking an ta P.S., "A textbook on ATM | y variation h Perform 1. vith frame , 13. d WDM", Telecom | , cell I nance relay ciples Tata M munica | Comm and A1 of W AcGrav | io, bu nunica M", P rreless v-Hill, Princip | Total Hrs ffer over flow tion network earson Educ s Networks", 2001. les and Imp | y probabi s", HAR(cation As Pearsor | 9 lity; wirele 45 COURT A ia, Fourth | sia PTE on Asia, |

| K.S. | Rangasamy College of Teo | hnology - Aut | onomo | us Re | gulati | on | | l | R 200 |)8 |
|---|--|-----------------|------------|---------|--------|----------|--------|------------------|--------|---------|
| Department | Information Technology | Programme | e Code a | &Nam | е | Info | | B.Tech n Tech | | gy |
| | | Semester | · VII | | | | | | | |
| Course Code | Osuma Nama | | Hou | rs/W | eek | Credit | N | laximu | m Ma | arks |
| Course Code | Course Name | ; | L | Т | Р | С | CA | ES | | Total |
| 08210755E | IT ESSENTIALS | | 3 | 0 | 0 | 3 | 50 | 50 | | 100 |
| Objective(s) | To introduce and various e | ssential concep | ots of IT. | | | | | <u> </u> | | |
| | OF ALGORITHMS | | | | | | Total | | | 9 |
| Algorithmic T sort – Insertion | ADA – Code Tuning Techniq echniques – Linear search - sort – Intractable Problems. | | | | | | | | | |
| 2 OBJECT C | RIENTED CONCEPTS | | | | | Т | otal H | lrs | | 9 |
| Inheritance – A Technology. | Object oriented concepts – bstract classes – Polymorph | nism – Object o | | | | nodology | – Re | cent tr | ends | in ÖÖ |
| | DEVELOPMENT METHODO | | | | | | otal H | | | 9 |
| Analysis and D | pment Methodology – Evolu esign – Software Constructic | | | | | uality. | | | Requi | rement |
| | ERVER CONCEPTS | | | | | | otal H | - | | 9 |
| to Web Techno | | | - | ies – I | Middle | ware tec | hnolo | gies – | Introd | duction |
| 5 WEB TECH | HNOLOGIES & USER INTER | RFACE DESIGI | N | | | Т | otal H | lrs | | 9 |
| | | | | | | | | | ood \ | |
| Text book (s) : | | | | | | | | | | - |
| () | n Program Books Vol-2 and V | Vol-3, Infosys. | | | | | | | | |
| Reference(s) : | 0 | | | | | | | | | |
| Wesley, 19 | | | - | - | | | | | | |
| Wesley Pu | ho,John E.Hopcroft, Jeffrey Iblishing Co., 1998 | | • | | - | • | | • | ns, A | ddison |
| | sman, Software Engineering | | | - | | | ed., 2 | 001 | | |
| | Galitz, Essential Guide to Us | | . | | | 97 | | | | |
| 5 Alex Berso | on, Client server Architecture | Mc Crow Hill I | ntornati | Icnol | 100/ | | | | | |
| | .G., How to solve it by Comp | | | unai, | 1994 | | | | | |

| | K.S. | Rangasamy College of Techn | ology - A | Auton | omou | s Reg | ulation | | R 2 | 800 |
|---------|------------|---|------------|---------|---------|--------|---------------|------------|--------------------|-----------|
| Depa | artment | Information Technology | Progra | amme | Code | &Nam | ie Inf | | 3.Tech. Technol | logy |
| | | | Semes | ster VI | | | | | | |
| Course | se Code | Course Name | | Hou | rs / W | eek | Credit | Ma | ximum M | arks |
| Cours | se Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 0821 | 0761E | CLOUD COMPUTING | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Obje | ctive(s) | To understand the concept of To understanding the technology | | | | | | | | uting. |
| 1 | CLOUD | | | | | | otal Hrs | | 9 | |
| | | oud Application Architectures-Th azon Web Services. | ne Value | of Clo | ud Co | mputi | ng - Cloud I | nfrastruc | ture Mod | lels - An |
| 2 | APPLIC | ATIONS AND DESIGN ISSUES | 5 | | | Т | otal Hrs | | 9 | |
| | | ses - The Shift to a Cloud Cost ne Image Design - Privacy Desi | | | | | | cations - | Web Ap | plication |
| 3 | SECURI | TY ISSUES OF CLOUD | | | | Т | otal Hrs | | 9 | |
| Data S | Security - | Network Security - Host Securit | y - Comp | oromis | e Res | ponse | | | | |
| 4 | DISAST | ER RECOVERY | | | | Т | otal Hrs | | 9 | |
| Disast | ter Recov | ery - Disaster Recovery Plannin | g - Disas | ters in | the C | loud - | Disaster Ma | anageme | nt | |
| 5 | CLOUD | INFRASTRUCTURE | | | | Т | otal Hrs | | 9 | |
| Scalin | g a Cloud | I Infrastructure - Capacity Planr | ning - Clo | ud Sc | ale - T | ypes | of Clouds - C | Comparir | ig Approa | aches |
| Total h | hours to b | e taught | | | | | | | 45 | |
| Text b | ook: | | | | | | | | | |
| 1. | ,O'Reilly | Reese, "Cloud Application Arcl | hitectures | s Builc | ling A | pplica | tions and In | frastructu | ure in the | e Cloud" |
| Refere | ence (s) : | | | | | | | | | |
| 1. | | nderson, " Programming Google cture ",O'Reilly, 2009 | e App Er | ngine | Build | and F | tun Scalable | e Web A | pps on (| Google's |

| | K.S.Ra | ingasamy College of Tecl | nnology - | Autor | nomo | us Re | gulation | | R 2 | 008 |
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| Departme | nt | Information Technology | Progra | imme | Code | &Nam | e " | | B.Tech. n Techno | loav |
| | | | Seme | ester V | /11 | | | IIUIIIaliu | | logy |
| | | | Oem | | irs / W | look | Credit | M | aximum M | larks |
| Course Co | de | Course Name | | L | T | P | C | CA | ES | Total |
| 08210762 | F C | # AND .NET | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(| (s) te | he student will gain knowl chnologies that constitute basic and advanced level nd be ready for large-scale | the frame s. By build | work. ⁻ | The st | udent | will gain pro | ogrammir | ng skills in | C# both |
| 1 INTRO | ODUCT | TION TO C# | | | | | Total Hrs | | 8 | |
| Branching, | Loopir | nderstanding .NET, Overvi ng, Methods, Arrays, String | s, Structur | | | | | es, Opera | tors, Expr | essions, |
| 2 OBJE | CT OR | IENTED ASPECTS OF C# | | | | | Total Hrs | | 9 | |
| Classes, O Exceptions | | Inheritance, Polymorphism | n, Interfac | es, Op | erator | Over | oading, Del | egates, E | Events, Er | rors and |
| 3 APPL | ICATIC | N DEVELOPMENT ON .N | ET | | | | Total Hrs | | 8 | |
| Building Wi | indows | Applications, Accessing D | ata with A | DO.NI | ET. | | | · | | |
| 4 WEB | BASED | APPLICATION DEVELOR | PMENT O | N .NE | Г | | Total Hrs | | 8 | |
| Programmi | ing We | b Applications with Web Fo | orms, Prog | ramm | ing We | eb Ser | vices. | · | | |
| 5 THE C | CLR AN | ID THE .NET FRAMEWOF | RK | | | | Total Hrs | | 12 | |
| Marshaling | , Remo | ioning, Attributes, Reflect oting, Understanding Serve ne Client, Using SingleCall, | er Object | | | | | | | |
| Total hours | | | | | | | | | 45 | |
| Text book (| (s) : | | | | | | | | | |
| - | • | amy, "Programming in C#" | | | | | | 9(Unitl,II) | | |
| 2 J. Libe | erty, "P | rogramming C#", 4 th ed., C | O'Reilly, 20 |)07. (L | Jnit III, | IV, V | | | | |
| Reference | (s) : | | | | | | | | | |
| | | ldt, "The Complete Referer | | | | | ill, Second I | Edition,20 | 005 | |
| | | al, "Professional C#", 3rd E | | | | | | | | |
| - | | lsen, "Pro C# 2005 and the | | | | | | | | |
| 4 "Unde | erstandi | ng .NET 2/E" ,David Chap | pell, Pears | son Ed | ucatio | n, Seo | cond Edition | ,2006. | | |

| Department Information Technology Programme Code &Name 21: B. Tech. Information Technology Course Code Course Name Hours / Week Credit Maximum Marks 08210763E CYBER LAWS AND INTELLECTUAL PROPERTY 3 0 0 3 50 50 100 Objective(s) To enable learners to understand the cyber laws and intellectual property rights. To Know the IP Trademarks and Agreement 7 Total Hrs 8 CYBER CARREST WITHOUT WARRANT UNDER THE IT ACT 2000: A CRITIQUE Total Hrs 8 8 Crimes of this millennium-Section 80 of the IT Act 2000-Forgetting the line between cognizable and non cognizable offence. Necessity of Arrest without warrant from anyplace, public or otherwise- Checks and Balance Against Arbitrary Arrests - Arrest but No Punishment. 9 2 CYBER CRIME AND CRIMINAL JUSTICE Total Hrs 9 Concept of cyber crime and TACT 2000-Hacking-Teanage Web Vandals- Cyber Pornography-Nature of Cyber Criminality-Strategies to tackle Cyber Crime and Trends. 9 1 INTELLECTUAL PROPERTY RIGHTS Total Hrs 9 1 INTELLECTUAL PROPERTY RIGHTS Total Hrs 9 1 Introduction – Invention and Creativity – Intellectual Property and ii. Intellec | K.S | Rangasamy College of Tec | hnology - | Autor | nomoi | us Re | gulation | | R 2 | 008 |
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| 1 Susan K. Sell, "The Globalization of Intellectual Property Rights", Kindle Edition - Jun 23, 2003 | | | | | | | | | | |
| | 1 Susan K. | Sell, "The Globalization of In | ellectual F | roper | ty Righ | nts",k | Kindle Edition | - Jun 23 | , 2003 | |

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| 08210764E | 3G WIRELESS NETWORKS | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(s)To learn the basics of 3G Wireless data communications technologies. To understand varioObjective(s)Spreading codes used in 3G Wireless Communication. To build working knowledge on variotelephone networks. To study the working principles of 3G Wireless Network data transmissionprocedures. To study 3G Wireless Network services, 3G upgrades and 4G vision | | | | | | | | various | |
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| Multiuser Deter Modulation. 2 CHAN Spreading Cod | Access Schemes – Spread S ction – TDD – Modulation Tech NEL CODING es – Orthogonal Codes – Pseud | do- Noise | and Sp | read s – S | Spect | rum – Spre otal Hrs onization Co | ading Te des – au | chniques 9 Itocorrela | s – Data tion and |
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| | neral Discussion. Evolution fron rk. GSM Radio Access Netwo | | | INEIW | UK SI | ruciure. Co | | | |
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| Network Plan Congestion Co 4 3G PR Procedures – Random Access Packet Access Prepaging - G Service Area. S 5 3G SE 3G Services Capabilities. Qu of 3G Applicati Satellites. 3G L Total hours to b | ning – Network Planning Ter ntrol – Network Management – OCEDURES RRC Connection Procedures is Procedure – New Concepts in S. Multimedia Broadcast/Multica ateway Location Register. Opt Smart Antennas RVICES – Service Categories. Telese Julity of Service – 3G Application ions. M-Commerce. Examples Jpgrades. Downlink Bottleneck. De taught | minology Telecomr . Radio h the UMT st Servic imal Rou imal Rou ervices. ns - Appli of 3G A 4G Visio | aces. Netwinica Beare S Net ce, Mu tring. / Bearen cation pplicat n | Netwo work tion M r Prc work ltimee Adapt - Ser Tech ions. | ork Pr Planr Aanag Jocedur – Loca dia Ma ive M Vices nologi Termi | otocols. UM ing Proces ement Archi otal Hrs es. Data T ations Servic essaging Se ultirate Cod otal Hrs Supplemer es. Multimed nals – The | ITS Netw s – Ad tecture. ransmiss ces. High ervice - ec, Supp tary Se dia. Traff Future - | work Evo mission 9 sion, Har -Speed E Super-Cr bort of L 9 rivices. S ic Charao - New Sp 45 | Control. Control. Downlink harger – ocalized Services cteristics bectrum. |
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| Network Plan Congestion Co 4 3G PR Procedures – Random Access Packet Access Prepaging - G Service Area. S 5 3G SE 3G Services Capabilities. Qu of 3G Applicati Satellites. 3G L Total hours to b | ning – Network Planning Ter ntrol – Network Management – OCEDURES RRC Connection Procedures is Procedure – New Concepts in a Multimedia Broadcast/Multica ateway Location Register. Opt Smart Antennas RVICES – Service Categories. Telese uality of Service – 3G Applicatio ions. M-Commerce. Examples Jpgrades. Downlink Bottleneck. be taught | minology Telecomr . Radio h the UMT st Servic imal Rou imal Rou ervices. ns - Appli of 3G A 4G Visio | aces. Netwinica Beare S Net ce, Mu tring. / Bearen cation pplicat n | Netwo work tion M r Prc work ltimee Adapt - Ser Tech ions. | ork Pr Planr Aanag Jocedur – Loca dia Ma ive M Vices nologi Termi | otocols. UM ing Proces ement Archi otal Hrs es. Data T ations Servic essaging Se ultirate Cod otal Hrs Supplemer es. Multimed nals – The | ITS Netw s – Ad tecture. ransmiss ces. High ervice - ec, Supp tary Se dia. Traff Future - | work Evo mission 9 sion, Har -Speed E Super-Cr bort of L 9 rivices. S ic Charao - New Sp 45 | Control. Control. Downlink harger – ocalized Services cteristics bectrum. |
| Network Plan Congestion Co 4 3G PR Procedures – Random Access Packet Access Prepaging - G Service Area. S 5 3G SE Capabilities. Qu of 3G Applicati Satellites. 3G L Total hours to b Text book : 1 Juha k Reference (s) : | ning – Network Planning Ter ntrol – Network Management – OCEDURES RRC Connection Procedures is Procedure – New Concepts in a Multimedia Broadcast/Multica ateway Location Register. Opt Smart Antennas RVICES – Service Categories. Telese uality of Service – 3G Applicatio ions. M-Commerce. Examples Jpgrades. Downlink Bottleneck. be taught | minology Telecomr . Radio h the UMT ist Servic imal Rou ervices. ns - Appli of 3G A 4G Visio | Beare Beare S Net CS Net cation pplicat n | Netwo work tion M r Pro work Itimeo Adapt - Ser Tech ions. | ork Pr Planr Aanag Jocedur – Loca dia Ma ive M Vices nologi Termi | otocols. UM ing Proces ement Archi otal Hrs es. Data T ations Servic essaging Se ultirate Cod otal Hrs Supplemer es. Multimed inals – The | ITS Netw s – Ad tecture. ransmiss ces. High ervice - ec, Supp tary Se dia. Traff Future - | work Evo mission 9 sion, Har -Speed E Super-Cr bort of L 9 rivices. S ic Charao - New Sp 45 | Control. Control. Downlink harger – ocalized Services cteristics bectrum. |

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|------------------------------------|---|------------|--------|--------|--------|----------|---------|----------|----------------------|---------|
| Department | Information Technology | Progra | | | &Nan | ne | Inf | | B.Tech. n Technol | ogy |
| | 1 | Semes | r | | | | | | | |
| Course Code | Course Name | | Hou | rs / W | /eek | Cr | edit | Ma | ximum M | arks |
| | oourse Name | | L | Т | Р | | С | CA | ES | Tota |
| 08210871E | INFORMATION SYSTEM DES | SIGN | 3 | 0 | 0 | | 3 | 50 | 50 | 100 |
| Objective(s) | To know the basics of manag maintenance of information sy and information systems. To k | /stems. T | To und | erstai | nd bas | sic iss | sues in | knowled | dge mana | igemer |
| 1 MANAGII | NG THE DIGITAL FIRM | | | | | otal H | | | 9 | |
| systems- majo applications – c | n systems – contemporary a r types of systems in organiz organizations and information systems and business strategy. | ations - | syste | ms fi | rom a | func | tional | perspec | tive – er | terpris |
| | NG INFORMATION SYSTEMS | | | | Т | otal F | Irs | | 9 | |
| value of Inform failure – Manag | stems development – alternate ation Systems - The important ing Implementation PMENT AND MAINTENANCE (| ce of cha | ange r | nanag | gemen | | nformat | | | |
| SYSTEM | | | | ON | | Ulai F | 115 | | 9 | |
| Managing End methodologies. | sis and design – System dev I Users – off-the shelf soft | ware pa | ackage | s – | Outso | | g – (| | | |
| | | | | | | | | | • | |
| systems – Unde | nagement in the organization – erstanding ethical and Social iss ns of Information Systems – Sy m Quality. | sues pacl | ked to | syste | ms – | Ethics | s in an | Informat | ion societ | y – Th |
| | ATION ARCHITECTURE | | | | Т | otal F | Irs | | 9 | |
| | ation Architecture – why Inform orld – Information Ecologies | | | | | | | | | |
| Total hours to b | e taught | | | | | | | | 45 | |
| Text book (s) : | | | | | | | | | | |
| edition, P | Cenneth & Landon Jane, "Mana HI, 2004. | - | | | - | | - | - | - | - |
| Pvt., Ltd., | Supta, "Management Informatio | | | | - | | | | | |
| Associate | osenfel and Peter Morville, " es, 2002. | Intormatio | on Ar | chitec | ture f | tor th | e Woi | rld wide | e Web", | O'Reill |
| Reference (s) : | | A | | | C | <u> </u> | | | 0004 | |
| | Iter, "Information Systems – A M | | | | | | | | | |
| | ta, "Information Systems – Suc | | | | | | | | | |
| | G. Murdick, Joel E. Ross a nent", PHI, 1994. | ind Jam | es R. | Cla | ggett, | "Info | ormatio | n Syste | ems for | Moder |

| K.S. | Rangasamy College of Techn | ology - A | Auton | omou | s Reg | ulation | | R 20 | 008 |
|---|---|----------------------------------|---------|---------|--------|-------------|------------|-------------------|---------|
| Department | Information Technology | Progra | amme | Code | &Nam | ne Inf | | .Tech. Technol | ogy |
| | | Semes | ter VII | | | | | | |
| Course Code | Course Norse | | Hou | rs / W | eek | Credit | Max | kimum Ma | arks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210872E | USER INTERFACE DESIGN | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(s) To study the concept of menus, windows, interfaces. To study about business functions, study the testing methods. To study the characteristics and components of windows. To study the various controls for the windows. To study about various problems in windows design with color, text, graphics. | | | | | | | | udy the | |
| 1 INTRODUCTION Total Hrs 9 | | | | | | | | | |
| Introduction-Importance-Human-Computer interface-characteristics of graphics interface-Direct manipulation graphical system - web user interface-popularity-characteristic & principles | | | | | | | | | |
| 2 DESIG | N PROCESS | | | | Tota | l Hrs | | 9 | |
| business functions system timings 3 SYSTE | design process- obstacles-usab ons-requirement analysis-Direc - Human consideration in scree M MENUS AND NAVIGATION enus - functions of menus-con | t-Indirect n design SCHEME | meth | ods-b | asic b | usiness fun | ctions-De | esign sta | ndards- |
| | ng menus-graphical menus | | | | | | | | • |
| 4 CONTE | | | | | | ll Hrs | | 9 | |
| systems-device | racteristics-components-presen -based controls: characteristics ation control-custom control-pres | -Screen | -base | d cont | | | | | |
| 5 WINDO | WS LAYOUT AND TEST | | | | Tota | ll Hrs | | 9 | |
| | ages - effective feedback-guida pring Windows layout-test :proto | | | | | | ccesssibi | lity-Icons | -Image- |
| Total hours to b | e taught | | | | | | | 45 | |
| Text book : | | | | | | | | | |
| 1 Wilben Reprint | t. O. Galitz ,"The Essential Guic : 2007 | le to Use | r Inter | ace D | esign | ", Second E | dition, Jo | hn Wiley | & Sons, |
| Reference (s) : | | | | | | | | | |
| 1 Ben Sh | eiderman, "Design the User Inte | erface", F | Pearso | n Edu | cation | , 1998. | | | |
| 2 Alan Co | poper, "The Essential of User In | terface D | esign' | ', Wile | y – Di | ream Tech L | td., 2002 | | |

| K.S. | Rangasamy College of Techn | ology - A | Auton | omou | s Reg | ulation | | R 20 | 008 |
|--|---|------------------------|-------------------|--------------------|---------------------|---------------------------|----------|-----------------------------|-------------------|
| Department | Information Technology | Progra | amme | Code | &Nam | ne Inf | | 3.Tech. n Technol | ogy |
| | | Semes | ter VII | l | | | | | |
| Course Code | Course Name | | Hou | rs / W | eek | Credit | Ma | ximum Ma | arks |
| Course Coue | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210873E | SOFTWARE TESTING | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(s) | To explain the basics of softw stress the need and conduct o To bring out the ways and mea | f testing l | levels. | To id | entify | the issues in | testing | tware tes managem | ting. To nent. |
| 1 INTRODUCTION Total Hrs | | | | | | | | 8 | |
| Testing as an Engineering Activity, Role of Process in Software Quality, Testing as a Process, Basic Definitions, Software Testing Principles, The Tester's Role in a Software Development Organization, Origins of Defects, Defect Classes, The Defect Repository and Test Design, Defect Examples, Developer/Tester Support for Developing a Defect Repository | | | | | | | | | |
| | ASE DESIGN Festing Design Strategies, The | | | | | otal Hrs | | 10 | |
| Approaches, Bla Paths:Their Rol 3 LEVELS The Need for L Testable Unit, 7 Integration Test Beta and Accep | The Need for Levels of Testing, Unit Test, Unit Test Planning, Designing the Unit Tests. The Class as a Testable Unit, The Test Harness, Running the Unit tests and Recording results, Integration tests, Designing Integration Tests, Integration Test Planning, System Test – The Different Types, Regression Testing, Alpha, | | | | | | | | |
| | ANAGEMENT | | | | | otal Hrs | | 9 | |
| Plan Attachmer Introducing the 5 CONTR Defining Terms | ncepts, Testing and Debugging its, Locating Test Items, The r test specialist, Skills needed by OLLING AND MONITORING Measurements and Milestone Criteria for Test Completio Review Plans. | ole of th a test sp | ree gr ecialis | oups t g and | in Tes T Moni | otal Hrs toring, Statu | and Poli | cy Develo 9 ngs, Repo | opment, |
| Total hours to b | | | | | | | | 45 | |
| Text book : | 5 | | | | | | 1 | - | |
| | rnstein, "Practical Software Tes | sting". Sp | rinaer | Intern | ationa | I Edition. Ch | ennai. 2 | 003 | |
| Reference (s) : | | 3,56 | .35 | | | , • | | | |
| 1 Edward Delhi, 19 | | | | - | • | | | Educatio | on, New |
| 2 Elfriede | Dustin, "Effective Software Tes | ting", Pea | arson I | Educa | tion, N | Vew Delhi, 20 | 003 | | |
| | ajani and Pradeep Oak, "Softw -Hill, New Delhi, 2003 | are Test | ing – | Effect | ive M | ethods, Tool | ls and T | echnique | s", Tata |

| | K.S. | Rangasamy College of Techn | ology - A | Autone | omou | s Reg | ulation | | R 20 | 800 |
|---|--|--|---|--|---|-------------------------------|---|---|---|---|
| Depa | rtment | Information Technology | Progra | amme | Code | &Nam | le Inf | | .Tech. Technol | ogy |
| | | | Semes | ter VII | I | | | | | |
| Course | e Code | Course Name | | Hou | rs / W | eek | Credit | Max | kimum Ma | arks |
| Course | e Coue | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210 | 0874E | DIGITAL IMAGE PROCESSIN | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(s) To study the image fundamentals and mathematical transforms necessary for in processing. To understand the various mathematical concepts applied to image enhancem To learn the procedures for restoration of image. To deal with techniques performed for in compression. To become skilled at the image segmentation and representation techniques 1 DIGITAL IMAGE FUNDAMENTALS AND TRANSFORMS Total Hrs 9 | | | | | | | cement. r image | | | |
| = | | | | | | - | | | 0 | Desis |
| geome | tric trans ard – Di | ual perception – Image samplin formations-Introduction to Four screte Cosine Transform, Haar, | ier Transi Slant – k | form a | nd DF | T – S | eparable Im | p betwee age Tran | sforms - | – Basic Nalsh – |
| 2 | IMAGE | ENHANCEMENT TECHNIQUE | ES | | | Т | otal Hrs | | 9 | |
| 3 Model | IMAGE of Imag | arpening filters – Homomorphic RESTORATION e Degradation/restoration proc rained least mean square filteri | ess – N | oise n | | $= \ln v$ | | | | square |
| 4 | | COMPRESSION | <u> </u> | | | | otal Hrs | | 9 | |
| coding- | –.Lossy -Compre | Lossless compression: Variat Compression: Transform codir | | | | | | | | |
| standa | | ssion standards- Continuous | Tone Sti | ll Ima | | mpres | sion Standa | | eo Comp | Binary |
| 5 | IMAGE | SEGMENTATION AND REPR | Tone Sti | II Imao TION | ge Co | mpres | otal Hrs | ards-Vide | eo Comp 9 | Binary pression |
| 5 Edge o Polygo | IMAGE detection nal app | | Tone Sti ESENTA ased seg nents – | II Imag TION gmenta Boun | ge Co | mpres T | otal Hrs | ards-Vide | eo Comp 9 n: chain | Binary pression codes- |
| 5 Edge o Polygo descrip | IMAGE detection nal app | SEGMENTATION AND REPR – Thresholding - Region Ba roximation – Boundary segn egional descriptors –Simple des | Tone Sti ESENTA ased seg nents – | II Imag TION gmenta Boun | ge Co | mpres T | otal Hrs | ards-Vide | eo Comp 9 n: chain | Binary pression codes- |
| 5 Edge o Polygo descrip | IMAGE detection nal app otors – Re ours to b | SEGMENTATION AND REPR – Thresholding - Region Ba roximation – Boundary segn egional descriptors –Simple des | Tone Sti ESENTA ased seg nents – | II Imag TION gmenta Boun | ge Co | mpres T | otal Hrs | ards-Vide | eo Comp 9 n: chain riptors - | Binary pression codes- |
| 5 Edge of Polygo descrip Total h Text bo | IMAGE detection nal app otors – Ro ours to b ook : Rafael Educat | SEGMENTATION AND REPR – Thresholding - Region Ba roximation – Boundary segn egional descriptors –Simple des | Tone Sti ESENTA ased seg nents – scriptors- | II Imag TION gmenta Boun Textui | ge Co ation dary e. | mpres T – Bou descri | otal Hrs otal Hrs Indary repre ptors: Simp | ards-Vide esentation ple desc | 9 9 n: chain riptors - 45 | Binary pression codes- Fourier |
| 5 Edge of Polygo descrip Total h Text bo | IMAGE detection nal app otors – Re ours to b pok : Rafael | SEGMENTATION AND REPR – Thresholding - Region Ba roximation – Boundary segn egional descriptors –Simple des e taught C Gonzalez and Richard E | Tone Sti ESENTA ased seg nents – scriptors- | II Imag TION gmenta Boun Textui | ge Co ation dary e. | mpres T – Bou descri | otal Hrs otal Hrs Indary repre ptors: Simp | ards-Vide esentation ple desc | 9 9 n: chain riptors - 45 | Binary pression codes- Fourier |
| 5 Edge of Polygo descrip Total h Text bo | IMAGE detection nal app otors – Re ours to b ook : Rafael Educat nce (s) : | SEGMENTATION AND REPR – Thresholding - Region Ba roximation – Boundary segn egional descriptors –Simple des e taught C Gonzalez and Richard E | Tone Sti ESENTA ased sec nents – scriptors- Woods, | II Imag TION gmenta Boun Textur | ation dary re. | mpres Ti- Bou descri | otal Hrs otal Hrs Indary repre ptors: Simp Processing" | ards-Vide esentatio ple desc | 9 9 n: chain riptors - 45 | Binary pression codes- Fourier |
| 5 Edge o Polygo descrip Total h Text bo 1 Referen | IMAGE detection nal app otors – Ro ours to b ook : Rafael Educat nce (s) : | SEGMENTATION AND REPR – Thresholding - Region Baroximation – Boundary segn egional descriptors –Simple des e taught C Gonzalez and Richard E ion, 2007. | Tone Sti ESENTA ased seg nents – scriptors- Woods, sing", Joh | II Imag TION gmenta Boun Textur , "Digi n Wile | ation dary re. ital In y & So | - Bou descri | otal Hrs otal Hrs indary repre ptors: Simp Processing" ew York, 20 | ards–Vide esentatio ble desc , third e | 9 9 n: chain riptors - 45 edition, F | Binary pression codes- Fourier |

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| Depa | rtment | Information Technology | Progra | amme | Code | &Nam | ne Int | 21: B formation | .Tech. Technol | logy |
| | | | Semes | ter VII | | | | | | |
| Cours | e Code | Course Name | | Hou | rs / W | 'eek | Credit | Max | kimum M | arks |
| Cours | e coue | Course Name | | L | Т | Р | С | CA | ES | Total |
| 0821 | 0881E | DATA WAREHOUSING AND MINING | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objec | Objective(s) To serve as an introductory course to under graduate students with an emphasis on the design aspects of Data Mining and Data Warehousing. To introduce the concept of data mining with in detail coverage of basic tasks, metrics, issues, and implication. Core topics like classification, clustering and association rules are exhaustively dealt with. To introduce the concept of data warehousing with special emphasis on architecture and design. | | | | | | | | | of data pics like |
| 1 | INTROD | UCTION AND DATA WAREHO | USING | | | Т | otal Hrs | | 9 | |
| Data W | Varehous | ata Warehouse, Multidimensior ing to Data Mining. | | | Data | | | nitecture, | Impleme | entation, |
| | | REPROCESSING, CONCEPT I ssing, Cleaning, Integration, | | | | | otal Hrs | | 9 | |
| Statisti 3 Associ | cal Meas ASSOCI ation Rul | oncept Description, Data Gene oures. ATION RULES e Mining, Single-Dimensional E on Rules from Transaction Data | Boolean / | | | Т | otal Hrs | | 9 | - |
| | | FICATION AND CLUSTERING | Dases. | | | Т | otal Hrs | | 9 | |
| Other (method | Classifica ds, Hiera | nd Prediction, Issues, Decision tion Methods, Prediction, Class rchical Methods-BIRCH, Partitic T TRENDS | ifier Accu | uracy, (| Baye: Cluste | er Ana | lassification lysis, Types | , Associa of data, (| tion Rule Categoris | e Based, sation of |
| | | ses, Multimedia Databases, Tex | t Databa | | (orld) | - | | tions on | • | in Doto |
| Mining | | ses, Multimedia Databases, Tex | | 1565, VI | | | Meb, Applica | | | III Dala |
| | ours to b | e taught | | | | | | | 45 | |
| Text bo | ook : | | | | | | | | | |
| 1 | J. Han, M | M. Kamber, "Data Mining: Conce | epts and | Techn | iques' | ", Haro | court India / | Morgan k | Cauffman | , 2001. |
| Refere | nce (s) : | | | | | | | | | |
| 1 | - | t H.Dunham, "Data Mining: Intro | - | | | | | | | 4. |
| 2 | | ahory, Dennis Murry, "Data War | | | | | | | 2003. | |
| 3 | | and, Heikki Manila, Padhraic Sy | | - | | | - | 004. | | |
| | | ion, "Building the Data Warehou | | | | - | | | | |
| 5 | | zon, Stephen J.Smith, "Data Wa | | - | | - | | | | 2001. |
| 6 | Paulraj F | Ponniah, "Data Warehousing Fu | ndament | als", N | /iley-l | ntersc | ience Public | ation, 20 | 03. | |

| | K.S. | Rangasamy College of Techn | ology - A | Auton | omou | s Reg | ulation | | R 20 | 800 | | | |
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| Depar | tment | Information Technology | Progra | mme | Code | &Nam | ne laf | | .Tech. | | | | |
| | | | Semes | tor \/ll | 1 | | Int | ormation | recnnoi | ogy | | | |
| | | | Semes | | rs/W | look | Credit | Mov | imum M | orko | | | |
| Course | Code | Course Name | | нои | T | P | Credit | CA | ES | Total | | | |
| 00040 | | E-COMMERCE | | L 3 | • | • | - | - | | 100 | | | |
| 08210 | | | stand the | v | 0 tropic | 0 | - | | | | | | |
| Objective(s) To enable learners to understand the Electronic commerce in Business and in payments, Security. | | | | | | | | | | yments, | | | |
| 1 | INTROD | UCTION TO E-COMMERCE | | | | Т | otal Hrs | | 8 | | | | |
| Electror | nic comn | nerce and physical commerce - | Econom | ic forc | es – a | dvant | ages – myth | s - busine | ess mode | els. | | | |
| 2 | TECHNO | DLOGY INFRASTRUCTURE | | | | Т | otal Hrs | | 10 | | | | |
| | | orld Wide Web, internet proto | | | | | extranet - d | cryptogra | phy, info | rmation | | | |
| | | hology- basics of web server ha | rdware a | nd sof | ware. | | | | | | | | |
| - | | SS APPLICATIONS | | | | - | otal Hrs | | 10 | | | | |
| CRM; E | Business | nted ecommerce – etailing and s oriented ecommerce – E-Go d Web portals | | | | | | | | | | | |
| 4 | ECOMM | ERCE PAYMENTS AND SECU | JRITY | | | Т | otal Hrs | | 9 | | | | |
| E paym | ients - C | haracteristics of payment of sys | stems, pro | otocols | s, E-ca | ash, E | - check and | Micro pay | ment sy | stems. | | | |
| 5 I | LEGAL A | AND PRIVACY ISSUES IN E- C | OMMER | CE | | Т | otal Hrs | | 8 | | | | |
| | | nd privacy issues – Protectior arranties. Taxation and encrypt | | | nethoo | lology | - consume | r protect | ion, cybe | er laws, | | | |
| | ours to b | | | | | | | | 45 | | | | |
| Text bo | ok : | | | | | | | • | | | | | |
| 1 | Hentry C | han & el , E-Commerce – funda | amentals | and A | pplica | itions, | Wiley India | Pvt Ltd, 2 | 007. | | | | |
| 2 (| Gary P. S | Schneider, Electronic commerce | e, Thoms | on co | urse te | echnol | ogy, Fourth | annual eo | dition, 20 | 07. | | | |
| Referer | . , | | | | | | | | | | | | |
| | | Bhasker, Electronic Commerce Hill Publications, 2008 | - Frame | work | techr | nologie | es and Appli | cations, | 3 rd Editic | on. Tata | | | |
| | | K.Bajaj and Debjani Nag, E ons, 2008 | commer | ce- th | e cutt | ing eo | dge of Busir | ness, Ta | ata McG | raw Hill | | | |
| 3 | Efraim T | urban et al, Electronic Commer | ce –A ma | nager | ial pe | rspect | ive, Pearson | Educatio | on Asia, | 2006 | | | |

| K.S. | Rangasamy College of Techn | ology - A | Auton | omou | s Reg | Julati | on | | R 2 | 008 |
|---|---|--|---|---|---|--|-------------------------------|---|---|--|
| Department | Information Technology | Progra | amme | Code | &Nan | ne | Inf | | 8.Tech. 1 Technol | ogy |
| | | Semes | ter VII | l | | | | | | |
| Course Code | Course Name | | Hou | rs / W | /eek | C | redit | Max | ximum M | arks |
| Course Coue | Course Maine | | L | Т | Р | | С | CA | ES | Total |
| 08210883E | OPEN SOURCE ARCHITECT | | 3 | 0 | 0 | | 3 | 50 | 50 | 100 |
| Objective(s) | The main objective is to a Technologies and Practices | allow stu | idents | to a | ddres | s iss | sues ar | nd adap | t Open | Source |
| | ew of open source software pen Source Software: The O | | | | | al Hrs | | | 9 | |
| Examples of O Open Source Apache,Mozilla 2 Open S Qualification: I Characteristics | pen Source Software Products, Software: The Berkeley Softw , Open Source Software Open S Source Software Qualification ar Defining Open Source Software, Trar of Open Source Software, Trar Soment, The OSS development | The Operate Dist Source: T and Transf are, Cate | en Sou ributior <u>he Go</u> ormati egorizi on: Th | urce S n, Tež od, th on ng D e OSS | oftwar X, The <u>e Bad</u> Tota efining S deve | re De e Fre and al Hrs g Op elopm | evelopm ee Soft the Ugl | ent Proc ware Fo y. urce Sc ocess, Ta | ess, A h undation 9 oftware, aboos an | istory of , Linux, Specific d norms |
| framework for I framework for C | S architecture, CATWOE and S DSS. | | | | Derivii | ng th | e analyt | | | |
| | nvironment | | | | | al Hrs | | | 9 | |
| motivations, T | The "where?" of OSS, the "whech of oss, the "whech of the second of the | macro-le | vel(inc | lividua | al) mo | otivat | ion, Ec | onomic | micro-le | ng OSS vel and |
| 4 Applica develo | ation Architecture and How oper ped | n source : | softwa | re is | Tota | al Hrs | | | 9 | |
| Interoperability, Languages Use Implementation | chitecture: Types of System Development Platform Cho ed to Develop Open Source Pro Roles, Open Source Impact Documents, Migration, Interacti | oices, O oducts, C t on Tea | pen : ross-P am Is | Sourc latforr sues, | e So n Cod Imple | ftwar le, Ma emen | e Deve anaging tation I | elopmen [.] System | t: Metho Impleme | odology, entation: |
| | Source Server Applications | 0 | • | | | al Hrs | | | 9 | |
| Systems Mana The Office Suit | Server Applications: Infrastruct gement, Open Source Desktop e, Mail and Calendar Clients, P ing: Types of Licenses, License | Applicatersonal | ions: I Softwa | ntrodu re, Co | uction, ost of | Gra OSS: | phical c Total c | lesktops, cost of O | , Web Br wnership | owsers, b, Types |
| Total hours to b | e taught | | | | | | | | 45 | |
| Text book : | | | | | | | | | | |
| Raymo | standing Open Source Software and, Addison-Wesley Profession | al; 1st ec | dition (| Decer | nber 3 | 31, 20 | 001) | Ū | | |
| | Source Software: Implementatio 2004 [Chapters 3, 7, 8, 9, 10, 1 | | anager | nent, | by Pa | ul Ka | vanagh | , Digital F | Press (Ju | ly 26, |
| Reference (s) : | | | | | | | | | | |
| 1 The Su | ccess of Open Source by Steve | en Webei | ∙, Har∖ | ard U | Inivers | sity P | ress (A | oril 30, <mark>2</mark> | 004) | |
| 2 Succee | eding with Open Source by Berr | ard Gold | len, Ac | ldison | -Wesl | ey Pi | ofessio | nal (Aug | ust 10, 2 | 004) |

| | K.S. | Rangasamy College of Techn | ology - A | Auton | omou | s Reg | ulation | | R 2 | 008 |
|--|---|--|------------|---------------------|--------|---------|----------------|-------------|-----------|-----------|
| Depar | tment | Information Technology | Progra | amme | Code | &Nam | e . | | .Tech. | |
| | | | Semes | | | | Inf | ormation | Technol | ogy |
| | | | Semes | | - | la a la | One dit | Max | imum M | |
| Course | Code | Course Name | | | rs/W | | Credit | | | |
| | aa (E | | | L | T | P | C | CA | ES | Total |
| 08210 | 884E | | | | | | | | | 100 |
| Objective(s) To learn the basics concepts of fuzzy systems. To understand various concepts of neural networks. To have knowledge on systems involving neurofuzzy networks. To study the basics of genetic algorithm. To study the applications of the soft computing techniques. | | | | | | | | | | |
| 1 FUZZY SYSTEMS 9 | | | | | | | | | | |
| | | y-fuzzy rules and fuzzy reason y control methods. | ing-fuzzy | [,] infere | ence s | system | s-decompos | sition-fuzz | zy autom | ata and |
| 2 | NEUR/ | AL NETWORKS | | | | Tota | l Hrs | | 9 | |
| unsupe organiz 3 | Basic concepts-knowledge based processing-single layer perceptron-multilayer perceptron-supervised and unsupervised learning-feed forward and back propagation and counter propagation networks-kohenen's self organizing networks-Hopfield networks. 3 NEURO FUZZY MODELING: Total Hrs 9 Adaptive neuro fuzzy inference systems-classification and regression trees- data clustering-rule base structure | | | | | | | | | |
| | | uro fuzzy controls. | neation a | nu reg | 16331 | | | tening-rui | | siluciule |
| 4 | - | TIC ALGORITHMS | | | | | l Hrs | | 9 | |
| | | choice of encoding-selection p te-a simplex GA Hybrid approac | | -mutat | ion a | nd cro | ssover-fitne: | ss evalua | ation– In | nproving |
| 5 | APPLIC | CATIONS OF SOFT COMPUTI | NG | | | Tota | l Hrs | | 9 | |
| | ıl marke | ies for inverted pendulum ca ting-Neural networks for patter | | | | | | | | |
| Total ho | ours to b | e taught | | | | | | | 45 | |
| Text bo | ok : | | | | | | | | | |
| 1 | Jang.J. 2000. | S.R.Sun.C.T.and Mizutami.E, | "Neuro fu | uzzy a | nd So | oft cor | nputing, "Pro | entice Ha | all, New | Jersey- |
| Referer | nce (s) : | | | | | | | | | |
| 1 | Timithy | J.Ross, "Fuzzylogic Engineerir | ng Applica | ations, | " McC | Graw ⊢ | ill, NewYork | -1997. | | |
| 2 | S.N.Siv | vanandam, S.N.Deepa "Principle | es of Soft | Comp | outing | " Wile | / India Pvt Lt | td. | | |