Curriculum & Syllabus

of

B.Tech. Information Technology

(For the batch admitted in 2008-09)



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 / | | | | | |

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|-------------|---|--------------------|-----------|-----------|--------|------------|-----|--------|-------|
| | Curriculu | m for the Program | mes und | der Autor | nomous | Scheme | | | |
| Regulation | | R 2008 | | | | | | | |
| Department | | B.Tech. Informatio | on Techr | ology | | | | | |
| Programme C | ode & Name | 21: B.Tech. Inform | nation Te | echnolog | IУ | | | | |
| | ÷ | Se | mester I | | | | | | |
| Course | Course | Nama | Ho | ours / We | ek | Credit | Max | imum M | arks |
| Code | Course | Name | L | Т | Р | С | CA | ES | Total |
| | THEORY | | | | | | | | |
| 08210101G | Technical English | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210102G | Engineering Mathe | matics 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(Comm | non to CSE,IT) | 3 | 1 | 0 | 3 | 50 | 50 | 100 |
| 08210106S | Basics of Electronic (Common to CSE,I | | 3 | 1 | 0 | 3 | 50 | 50 | 100 |
| | PRACTICAL | | | | | | | | |
| 08210107P | Applied Physics La | boratory | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210108P | Electrical Engineer | ing Laboratory | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210109P | Electronics Engine | ering Laboratory | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210110P | Engineering Praction | ces Laboratory | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| | Total | | 18 | 03 | 12 | 27 | | 1000 | |
| | | Se | mester I | I | | | | | |
| Course | Course | Name | Ho | ours / We | ek | Credit | Max | imum M | arks |
| Code | | name | L | Т | Р | С | CA | ES | Total |
| | THEORY | | | | | | | | |
| 08210201G | Communication Sk | ills | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210202G | Engineering Mathe | matics II | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| 08210203G | Materials Science | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210204G | Environmental Scie | ence | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210205S | Fundamentals of P (Common to CSE, | | 3 | 1 | 0 | 3 | 50 | 50 | 100 |
| 08210206S | Basics of Civil and Engineering (Comr IT) | | 4 | 0 | 0 | 4 | 50 | 50 | 100 |
| | PRACTICAL | | | | | | | | |
| 08210207P | Engineering Graph | ics Laboratory | 1 | 0 | 3 | 3 | 50 | 50 | 100 |
| 08210208P | Applied Chemistry | Laboratory | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210209P | Programming Labo | ratory | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210210P | Comprehension I | | 0 | 0 | 3 | 0 | 100 | 00 | 100 |
| | Total | | 20 | 02 | 12 | 27 | | 1000 | |

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| | Curriculum | for the Prog | grammes | under A | Autonom | ous Scher | ne | | |
| Regulation | | R 2008 | | | | | | | |
| Department | | B.Tech. In | formatio | n Techn | ology | | | | |
| Programme Co | ode & Name | 21: B.Tech | | | chnolog | / | | | |
| | | | Semes | ter III | | | | | |
| Course | Course Nam | | Ho | ours / We | eek | Credit | Ма | ximum Ma | arks |
| Code | | IC | L | Т | Р | С | CA | ES | Total |
| | THEORY | | | | | | | | |
| 08210301G | Engineering Mathem | atics III | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| 08210302C | Signals and Systems | ; | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| 08210303C | Computer Architectu | re | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210304C | Data Structures | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210305C | Principles of Commu | nication | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| 08210306C | Advanced C & C++ | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| | PRACTICAL | | | | | | | | |
| 08210307P | Digital and Hardware Laboratory | 9 | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210308P | Data Structures Labo | oratory | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210309P | Advanced C & C++ L | aboratory | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210310P | Comprehension II | | 0 | 0 | 3 | 0 | 100 | 00 | 100 |
| 08210311P | Career Competency Development I | | 0 | 0 | 2 | 0 | 100 | 00 | 100 |
| | Total | | 18 | 03 | 14 | 27 | | 1100 | |
| | | | Semest | ter IV | | | | | |
| Course | Course Nam | | Ho | ours / We | eek | Credit | Ма | ximum Ma | arks |
| Code | Course Main | IC | L | Т | Р | С | CA | ES | Total |
| | THEORY | | | | | | | | |
| 08210401C | Probability and Statis | stics | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| 08210402C | Software Engineering | 9 | 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 Proces (Common to CSE,IT) | J | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| 08210406C | Microprocessors and Microcontrollers PRACTICAL | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210407P | Java Programming L | aboratory | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210408P | Digital Signal Proces Laboratory | sing | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210409P | Microprocessors and Microcontrollers Lab | | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 08210410P | Comprehension III | | 0 | 0 | 3 | 0 | 100 | 00 | 100 |
| 08210411P | Career Competency Development II | | 0 | 0 | 2 | 0 | 100 | 00 | 100 |
| | Total | | 18 | 02 | 14 | 26 | | 1100 | • |

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| | Curriculum for the Pr | ogrammes | under A | Autonom | ous Schen | ne | | |
| Regulation | R 2008 | - | | | | | | |
| Department | B.Tech. Ir | formation | Technol | ogy | | | | |
| Programme C | code & Name 21: B.Tec | h. Informat | tion Tecl | hnology | | | | |
| Ŭ | | Semes | | | | | | |
| Course | | Ho | ours / We | 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 | er VI | | | | | |
| Course | | Hc | ours / We | 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 |
| 08210610P | Career Competency Development IV | 0 | 0 | 2 | 0 | 100 | 00 | 100 |
| | Total | 18 | 03 | 11 | 27 | | 1000 | |

| | K.S.Rangasam | y College | of Techr | nology, ' | Tiruchei | ngode – 63 [°] | 7 215 | | | | | |
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| | | | | | | ous Schem | | | | | | |
| Regulation | | R 2008 | - | | | | | | | | | |
| Department | | Departmer | nt of B.Te | ech. Info | rmation | Technology | | | | | | |
| Programme C | ode & Name | 21: B.Tech | 1: B.Tech. Information Technology | | | | | | | | | |
| | | | Semes | ter VII | | | | | | | | |
| Course | | | Ho | ours / We | ek | Credit | Ma | aximum N | larks | | | |
| Code | Course Nam | ie | L | Т | Р | С | CA | ES | Total | | | |
| | THEORY | | | | | | | | | | | |
| 08210701G | Total Quality Manage | ement | 3 | 0 | 0 | 3 | 50 | 50 | 100 | | | |
| 08210702C | Component Based T | echnology | 3 | 1 | 0 | 4 | 50 | 50 | 100 | | | |
| 08210703C | Mobile Computing | | 3 | 1 | 0 | 4 | 50 | 50 | 100 | | | |
| 08210704C | Graphics and Multim | edia | 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 Component Laboratory | | 0 | 0 | 3 | 2 | 50 | 50 | 100 | | | |
| 08210708P | Graphics and Multim Laboratory | edia | 0 | 0 | 3 | 2 | 50 | 50 | 100 | | | |
| 08210709P | Project Work - Phase | e l | 0 | 0 | 4 | 2 | 100 | 00 | 100 | | | |
| 08210710P | Career Competency Development V | | 0 | 0 | 2 | 0 | 100 | 00 | 100 | | | |
| | Total | | 18 | 03 | 11 | 27 | | 1000 | | | | |
| | | | Semest | er VIII | | | | | | | | |
| Course | Course Nam | | Ho | ours / We | ek | Credit | Ma | aximum N | larks | | | |
| Code | | le | 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 - Phase | | 0 | 0 | 20 | 10 | 50 | 50 | 100 | | | |
| | Total | | 09 | 01 | 20 | 20 | | 400 | | | | |

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| | Curriculum | for the Prog | rammes | under A | utonomo | ous Schem | ne | | |
| Regulation | | R 2008 | | | | | | | |
| Department | | Department | of Inform | nation Te | chnolog | IУ | | | |
| Programme Co | ode & Name | 21: B.Tech. | Informati | ion Tech | nology | | | | |
| Course | Course No | | Ho | ours / We | ek | Credit | Ma | ximum Ma | arks |
| Code | Course Na | me | L | Т | Р | С | CA | ES | Total |
| | | | Electiv | ve I | | | | | |
| 08210641E | Compiler Design | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210642E | Discrete Mathemati | CS | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210643E | Embedded Systems | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210644E | Software Quality Ma | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210645E | Cryptography and N Security | letwork | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210646E | Advanced Java Pro | gramming | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210647E | Fundamentals of IT | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| | | | Electiv | e II | | | | | |
| 08210751E | Client / Server Com | puting | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210752E | Distributed Comput | ing | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210753E | Grid Computing | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210754E | High Performance | Vetworks | 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 Int Property Rights | ellectual | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210764E | 3G Wireless Netwo | rks | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| | | | Elective | e IV | | | | | |
| 08210871E | Information System | Design | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210872E | User Interface Desi | gn | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210873E | Software Testing | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210874E | Digital Image Proce | ssing | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| | | | Electiv | e V | | | | | |
| 08210881E | Data Warehousing | and Mining | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210882E | E-Commerce | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210883E | Open Source Archit | ecture | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| 08210884E | Soft Computing | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |

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|---|---|---|--|---|--|--|---|--|--|
| Department | Information Technology | Progra | mme Co | de & N | ame | In | | B.Tech. n Techno | ology |
| | | S | emester | r I | | | | | |
| Course Code | Course Name | | Hou | rs/We | ek | Credit | M | aximum I | Marks |
| Course Coue | | | L | Т | Р | С | CA | ES | Total |
| 08210101G | TECHNICAL ENGLISH (Common to all B.E./B.1 programmes) | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(s) | To help learners improv different academic and functions of Technical I reading texts, help lear career related situations | d profession English, hel mers acquir | nal cont p learne e the at | exts, failers dev bility to | amiliar elop st speak | ize learne trategies th c effectively | rs with nat could / in Eng | different be ado lish in re | rhetorical pted while al-life and |
| 1 GRAMM | IAR 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. ING ming – listening for gene becific information: retriev ion, attitude, etc. – globa | ons - phras | al verbs | ning to ation – | monly To fill up | mispronou tal Hrs gapped te ing to iden | exts – ir tify topic | d misspe 9 ntensive c, context | listening – |
| | ote-taking: guided and un | | | | - | tal Hrs | | 9 | |
| oral practice - | | introducin | g onese | elf – as | king fo ing op | or or elicitir inions (ag | ng inforn | nation - | describing |
| Exposure to d | ifferent reading techniqu | | | | Τo | ital Hrs | | 5 | |
| Identifying lexit note-making – | text – identifying the top cal and contextual meani understanding discourse | oic sentenco ngs – readi | e and its ng for st | s role i ructure | global in eacl and d f sente | h paragrap etail – tran ences. | oh – sca | nning – nformatio | inferring / |
| Identifying lexion note-making – 5 WRITING | cal and contextual meani understanding discourse G | bic sentence ngs – readi coherence | e and its ng for st – seque | s role i ructure ncing o | globa in eacl and d f sente To | l meaning h paragrap letail – tran ences. Ital Hrs | oh – sca isfer of ii | nning – nformatio 9 | inferring / n / guided |
| Identifying lexit note-making – 5 WRITING Introductions to (topic sentence sequencing co formal letter w works in indust | cal and contextual meani understanding discourse G o the characteristics of te e and its role, unity, cohe nnectives) – comparison riting (letter to the editor, tries) – editing (punctuatio | bic sentence ngs – readi coherence echnical style erence and and contras , letter for s | e and it: ng for st – seque e – writi use of c st – class seeking | s role i ructure ncing o ing defi ohesive sifying t practica | global and d f sente To nitions e expre | I meaning h paragrap etail – tran ences. tal Hrs and desci essions) – ta – analyz | oh – sca sfer of in riptions - process ing / inte | nning – nformatio 9 - paragra descripti erpreting undertaki | inferring / in / guided aph writing on (use of the data – |
| Identifying lexic note-making – 5 WRITING Introductions to (topic sentence sequencing co formal letter w works in indust Total hours to l | cal and contextual meani understanding discourse G o the characteristics of te e and its role, unity, cohe nnectives) – comparison riting (letter to the editor, tries) – editing (punctuatio | bic sentence ngs – readi coherence echnical style erence and and contras , letter for s | e and it: ng for st – seque e – writi use of c st – class seeking | s role i ructure ncing o ing defi ohesive sifying t practica | global and d f sente To nitions e expre | I meaning h paragrap etail – tran ences. tal Hrs and desci essions) – ta – analyz | oh – sca sfer of in riptions - process ing / inte | anning – nformatio 9 - paragra descripti erpreting | inferring / in / guided aph writing on (use of the data – |
| Identifying lexic note-making – 5 WRITING Introductions to (topic sentence sequencing co formal letter w works in indust Total hours to I Text book (s) : 1 Rizvi M Ltd., New | cal and contextual meani understanding discourse G o the characteristics of te e and its role, unity, cohe nnectives) – comparison riting (letter to the editor, tries) – editing (punctuatio | bic sentence ngs – readi coherence echnical style erence and and contras , letter for s on, spelling a | e and its ng for st – seque e – writi use of c st – class seeking and gran | s role i ructure ncing o ing defi ohesive sifying t practica nmar. | global and d f sente To nitions e expre the dat thal train | I meaning h paragrap letail – tran ences. tal Hrs and desci essions) – ta – analyz ing, and le | oh – sca sfer of in riptions - process ing / inte etter for u | anning – nformatio 9 - paragra descripti erpreting undertaki 45 | inferring / on / guided aph writing on (use of the data – ng project |
| Identifying lexic note-making – 5 WRITING Introductions to (topic sentence sequencing co formal letter w works in indust Total hours to I Text book (s) : 1 Rizvi M Ltd., New Reference(s) : | cal and contextual meani understanding discourse G o the characteristics of te e and its role, unity, cohe nnectives) – comparison riting (letter to the editor, tries) – editing (punctuation be taught Ashraf, "Effective Techni w Delhi, 2005. | bic sentence ngs – readi coherence echnical style erence and and contras , letter for s on, spelling a cal Commu | e and its ng for st – seque e – writi use of c st – class seeking and gran | s role is ructure ncing o ing defi ohesive sifying t practica nmar. | global and d f sente To nitions e expre the dat al train dition, | I meaning h paragrap letail – tran ences. tal Hrs and descu essions) – ta – analyz ing, and le | oh – sca asfer of in riptions - process ing / inte tter for u | anning – nformatio 9 - paragra descripti erpreting undertaki 45 ublishing | inferring / on / guided aph writing on (use of the data – ng project Company |
| Identifying lexic note-making – 5 WRITING Introductions to (topic sentence sequencing co formal letter w works in indust Total hours to Text book (s) : 1 Rizvi M Ltd., New Reference(s) : 1 Dr.M.Ba Kumbak | cal and contextual meani understanding discourse G o the characteristics of te e and its role, unity, cohe nnectives) – comparison riting (letter to the editor, tries) – editing (punctuation be taught Ashraf, "Effective Techni w Delhi, 2005. Iasubraminian and Dr. onan, 2007. | coherence echnical style erence and and contras , letter for s on, spelling a cal Commu | e and its ng for st – seque e – writi use of c st – class seeking and gran | s role i ructure ncing o ing defi ohesive sifying t practica nmar. ", 1 st E | global in eacl and d f sente To nitions e expre the dat al train dition, | I meaning h paragrap letail – tran mces. tal Hrs and desci- essions) – ta – analyz ing, and le Tata McG | oh – sca asfer of in riptions - process ing / inte atter for u rawhil Pu | anning – nformatio 9 - paragra descripti erpreting undertaki 45 ublishing | inferring / aph writing on (use of the data – ng project Company |
| Identifying lexic note-making – 5 WRITING Introductions to (topic sentence sequencing co formal letter w works in indust Total hours to I Text book (s) : 1 Rizvi M Ltd., New Reference(s) : 1 Dr.M.Ba Kumbak 2 Sharon Educatio | cal and contextual meani understanding discourse G o the characteristics of te e and its role, unity, cohe nnectives) – comparison riting (letter to the editor, tries) – editing (punctuation be taught Ashraf, "Effective Techni w Delhi, 2005. Iasubraminian and Dr. | coherence coherence echnical style erence and and contras , letter for s on, spelling a cal Commu G.Anbalaga erson, "Tec ew Delhi, 20 | e and its ng for st <u>– seque</u> e – writi use of c st – class seeking and gran nication an, "Pe hinical V 004. | s role i ructure ncing o ing defi ohesive sifying f practica nmar. ", 1 st E | global in eacl and d f sente To nitions e expre the dat al train dition, dition, | I meaning h paragrap letail – tran mces. tal Hrs and desci- essions) – ta – analyz ing, and le Tata McG | oh – sca asfer of in riptions - process ing / inte atter for u rawhil Pu rawhil Pu rawhil 20 rawhil 20 | anning – nformatio 9 - paragra descripti erpreting undertaki 45 ublishing ublishing | inferring / n / guidec aph writing on (use of the data – ng project Company blications, |

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| Department | Information Technology | Progra | amme | Code | & Name | In | | B.Tech. n Technc | logy | | |
| | | Seme | ester I | | | | | | | | |
| Course Code | Course Name | | H | | Week | Credi t | | ximum M | arks | | |
| | | | L | Т | Р | С | CA | ES | Total | | |
| 08210102G | ENGINEERING MATHEMA (Common to all B.E./B.Tech programmes) | h. | 3 | 1 | 0 | 4 | 50 | 50 | 100 | | |
| Objective(s) The course is aimed at developing the basic mathematical skills of engineering students that are imperative for effective understanding of engineering subjects. The topics introduced will serve as basic tools for specialized studies in many engineering fields, significantly in fluid mechanics, field theory and communication engineering. | | | | | | | | | | | |
| I MATRICES Total Hrs 12 | | | | | | | | | | | |
| values and Eigen theorem (without transformation of orthogonal transfo | | Properties ormation Jonal form | of eig (conce n – R | ien va ept oi | lues and e nly) – Or on of qua | eigenveo thogona Idratic fo | tors – C I matrice | ayley – H es – Orf anonical | lamilton hogonal | | |
| CALCULU | | | | | | l Hrs | | 12 | | | |
| | esian and polar co-ordinates | | | | | | | | nvolutes | | |
| | velopes – Properties of enve NS OF SEVERAL VARIABLE | | | utes – | | l Hrs | | mais 12 | | | |
| | variables – Partial derivatives | | lifforo | atial | | - | | | movimo | | |
| | range's multiplier method – . | | | illai – | iviaxima a | | na – Coi | Istraineu | паліпа | | |
| | Y DIFFERENTIAL EQUATIO | | | | Tota | l Hrs | | 12 | | | |
| Linear differentia | I equations of Second and | d higher | orde | · with | constant | coeffic | ent whe | n the F | R.H.S is | | |
| | in ax, $\cos ax$, $e^{ax}x^n$, e^{ax} | - | | | | | | | ferential | | |
| | riable coefficients (Cauchy's | - | | - | | | | | | | |
| | NTIAL EQUATIONS AND ITS | | | | Tota | | | 12 | | | |
| Solution of speci harmonic motion | t order linear equations wit fied differential equations c (Differential equations and as | connected | l with | electr | ric circuits | , bendir | | ams and | | | |
| Total hours to be | taught | | | | | | | 60 | | | |
| Text book (s) : | | | | | | | | | | | |
| | . T., "Engineering Mathemat Limited, New Delhi, 2005. | ics (for fi | rst yea | ar)", F | ourth Editi | on, Tata | McGrav | v- Hill Pu | ıblishing | | |
| Reference(s) : | | | | | | | | | | | |
| S.Chand a | y. P, Thilagavathy. K and C nd Co. – New Delhi 2007. | | • | • | U U | | | | | | |
| 2 Grewal. B. | S., "Higher Engineering Math | ematics", | Thirty | Eight | h Edition, | Khanna | Publishe | ers, Delhi | , 2004. | | |
| ³ Singapore | | | | • | - | - | | , , | | | |
| | nan.M.K, "Engineering Math ub. Co., Chennai, 2004. | ematics, | Volum | nel& | II Revise | d Enlarg | ed", Fou | irth Editio | on", The | | |

| | ingasamy College of Techr | nology | - Autor | nomou | is Regula | tion | | R 20 | 008 |
|--|---|---|---|---|--|--|--|---|---|
| Department | Information Technology | Pr | ogramn Na | ne Cod me | e & | Infor | 21: B.T mation T | Fech. Fechnolo | ру |
| | 1 | S | emeste | rl | | | r | | |
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| Course Cours | | | L | Т | Р | С | CA | ES | Total |
| 08210103G | APPLIED PHYSICS (Common to all B.E./B.Teo Programmes) | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(s) | Design of acoustically good destructive Techniques, Engineering and Technolog | Applica | | | | | | | |
| I LASERS | | | | | Tot | al Hrs | | 9 | |
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| | its applications-Compton | | | | r (`omot | on Shift E | vnorimo | ntal Va | rification |
| Scanning electro 4 ULTRASO | NICS | and Tin | ne inde | pende | nt) - Par Tot | ticle in a b al Hrs | ox-Elec | tron mic | croscope |
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| | | | | Sem | neste | r I | | | | |
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| Course | Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210 ⁻ | 104G | APPLIED CHEMISTRY (Common to all B.E./B.Te programmes) | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objecti | . , | The student should be co and its inhibition treatmen devices knowledge with re | nt of | water fo | or ind | ustrial p | urposes ar | nd the | concept | of energy storage |
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| caustic deminer 2 EL Electroc cell – N | embriti ralizatio ECTRC chemica lernst e | ss- Estimation of hardnes tlement, priming and forr n – desalination – electro d OCHEMISTRY Il cells – reversible and irre quation – problems – Elec | ning- lialys eversi trode | softer is and r ible cell es – Sin | evers s – E igle e | of wate se osmos Tot: MF – m electrode | r- lime so sis. al Hrs easurement potential | oda pro nts – S – Type | tandard s of elec | eolite process - 9 Weston Cadmiun trodes – Calome |
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| Department | Information Technology | Prog | ramme | Code | &Nam | ne | | 1: B.Tech | - |
| · · · | 5, | | | | | | Informa | ation Tech | nology |
| | | Semest | | - / \ \ / | | One dit | N4- | | |
| Course Code | Course Name | | | rs / W T | еек Р | Credit | | aximum Ma | |
| | BASICS OF ELECTRICAL | | L | - | Р | С | CA | ES | Total |
| 08210105S | ENGINEERING(Common to | | 3 | 1 | 0 | 3 | 50 | 50 | 100 |
| Objective(s) | To improve the basic knowle understand the concepts of electronic device. | | | | | | | | |
| 1 FUNDAME | NTALS OF DC AND AC CIR | CUITS | | | | Total I | Hrs | 12 | |
| | DC circuits: Ohm's law, Kirchl | | | esistiv | e circu | iits – E e | ct o se | eries and | parallel |
| | esh and Nodal analysis - S | | | _ | | | | 0. 1 | |
| | AC circuits: RMS and Average edance, Power and Power Factoria | | | | | | | | |
| | ENTALS OF MAGNETIC CIR | | <u>\0, I\L</u> | | 1113 | Total I | | <u>3 probic</u> 12 | 1113 |
| Ohm's law of | magnetic circuit, Simple an | d compos | ite ma | anetic | circu | uits. Effe | ct of ai | r dap - | leakage |
| factor - fringing | g effect – Simple problems | Farada | y's law | i of | electr | omagneti | ic induc | tion – S | |
| | EMF – Statically and Dyna | | duced E | MF – | Simp | | | | |
| | IINES AND TRANSFORMERS | | | | | Total I | | 12 | |
| | construction – EMF equation | n of DC | genera | tor – | Туре | es of Ge | enerator | s and M | otors – |
| Characteristics. | nstruction - EMF equation - | - Transfor | mation | ratio | – Tvr | oes of Ti | ransform | ners – | |
| Instrumentation 1 | | rianoion | ination | ratio | | | anoronn | 1010 | |
| 4 INDUCTIC | N MACHINES | | | | | Total I | Hrs | 12 | |
| | duction Motor: Construction, | | Princip | le of | Oper | ation – T | Forque E | quation – | Slip Vs |
| | ristics of Cage and wound rote | | | | | | | | |
| 5 POWER S | uction Motor: Principle of Ope | ration – Ty | pes – A | pplica | itions. | Total I | Hre | 12 | |
| | d Full Wave Rectifiers – | Dridgo Da | otifior | | (200 | | - | .= | ulatar |
| Introduction to SI | | blidge Re | ecuner | — iy | pes | or mers | - 0 | llage Reg | ulator – |
| Total hours to be | taught | | | | | | | 60 | |
| Reference (s) : | | | | | | | · | | |
| 1 B.L.Theraj | a and A.K.Theraja, "Electrical | Technolog | y", S.Cł | nand 8 | Com | pany LTC | D, New D | Delhi, 2008 | 5. |
| 2 V.N.Mittel, | "Basic Electrical Engineering" | , Tata Mc C | Graw H | II, Nev | v Delh | ni, 1990. | | | |
| 3 V. Del Tor | o, "Electrical Engineering Fun | damentals' | ', Prent | ice Ha | ll of | India, Nev | w Delhi, | 1993. | |

| 2 TRANSISTORS-INTRODUCTION TO SMALL SIGNAL Total Hrs 12 AMPLIFIER Amplification – Transistor Characteristic Curve – Transistor – Types – Transistor as Switch – Measuring gain – Common Emitter Amplifier – Stabilizing the Amplifier – Other Configurations. 3 LARGE SIGNAL AMPLIFICATION – OSCILLATORS Total Hrs 12 Basic features – Amplifier classification – Class A,B, AB, C and Switched Mode Amplifiers – Oscillators – SCR. 12 4 DIGITAL LOGIC AND COMBINATIONAL CIRCUITS Total Hrs 12 Binary number System and Codes – Basic Logic Gates and Truth Tables – Boolean Algebra and De-Morgan's Theorem – Logic Circuits – Sum of Product Methods – Product of Sum Method – Simple Design of Combinational Logic Networks – Digital Arithmetic – Addition, Subtraction, Multiplication and Division of Binary | K.S | B.Rangasamy College of Techn | ology - A | Auton | omou | s Reg | ulation | | R 20 | 800 |
|--|---|---|------------|----------|------------------|--------------------|----------------------------|--------------------|-----------------------|-----------|
| Semester I Hours / Week Credit Maximum Marks Course Code Course Name Hours / Week Credit Maximum Marks 08210106S BASICS OF ELECTRONICS I 1 0 3 50 50 100 Objective(s) To have an overview of electronic devices, study Amplifiers and Oscillators, study combinational and sequential circuits, study the design of digital system. 1 INTRODUCTION TO SEMICONDUCTORS AND DIODES Total Hrs 1 2 Introduction : Semiconductors – N-Type and P-Type – Majority and Minority Carriers – PN Junction Characteristics – Type and Applications – Power Supplies – Rectifier – Filters – Voltage Multiplier – Zener Regulators. 1 Total Hrs 12 AMPLIFIER AMPLIFIER Total Hrs 12 12 AMPLIFIER Total Hrs 12 12 12 AMSC SIGNAL AMPLIFICATION – OSCILLATORS Total Hrs 12 12 Basic features – Amplifier classification – Class A,B, AB, C and Switched Mode Amplifiers – Oscillators – RC, LC, Crystal and Relaxation Oscillators – SCR. 12 12 Binary number System and Codes – Basic Logic Gates and Truth Tables – Boolean Algebra and De-Morgan's Theorem – Logic Circuits – Sum of Product Methods – Product of Sum Meth | Department | Information Technology | Pro | aramr | ne Co | de &N | lame | | | - |
| Course Code Course Name Hours / Week Credit Maximum Marks 08210106S BASICS OF ELECTRONICS ENGINEERING(Common to CSE & IT) 3 1 0 3 50 50 100 Objective(s) To have an overview of electronic devices, study Amplifiers and Oscillators, study combinational and sequential circuits, study the design of digital system. 1 INTRODUCTION TO SEMICONDUCTORS AND DIODES Total Hrs 12 Introduction : Semiconductors - N-Type and P-Type - Majority and Minority Carriers - PN Junction Characteristics - Type and Applications - Power Supplies - Rectifier - Filters - Voltage Multiplier - Zener Regulators. 12 2 TRANSISTORS-INTRODUCTION TO SMALL SIGNAL AMPLIFIER Total Hrs 12 Amplification - Transistor Characteristic Curve - Transistor - Types - Transistor as Switch - Measuring gain - Common Emitter Amplifier - Stabilizing the Amplifier - Other Configurations. 1 3 LARGE SIGNAL AMPLIFICATION - OSCILLATORS Total Hrs 12 Basic features - Amplifier classification - Class A,B, AB, C and Switched Mode Amplifiers - Oscillators - RC, LC, Crystal and Relaxation Oscillators - SCR. 10 10 4 DIGITAL LOGIC AND COMBINATIONAL CIRCUITS Total Hrs 12 Binary number System and Codes - Basic Logic Gates and Truth Tables - B | 2000 | | | • | | | | Inform | nation Tech | nology |
| Course Code Course Name L T P C CA ES Total 08210106S BASICS OF ELECTRONICS ENGINEERING(Common to CSE & IT) 3 1 0 3 50 50 100 Objective(s) To have an overview of electronic devices, study Amplifiers and Oscillators, study combinational and sequential circuits, study the design of digital system. 1 INTRODUCTION TO SEMICONDUCTORS AND DIODES Total Hrs 12 1 INTRODUCTION TO SEMICONDUCTORS AND DIODES Total Hrs 12 1 1 INTRODUCTION TO SEMICONDUCTION SMALL SIGNAL Total Hrs 12 2 TRANSISTORS-INTRODUCTION TO SMALL SIGNAL Total Hrs 12 AMPLIFIER AMPLIFIER Total Hrs 12 AMPLIFICATION – OSCILLATORS Total Hrs 12 3 LARGE SIGNAL AMPLIFICATION – OSCILLATORS Total Hrs 12 Basic features – Amplifier classification – Class A, B, A, C and Switched Mode Amplifiers – Oscillators – RC, LC, Crystal and Relaxation Oscillators – SCR. 4 DIGITAL LOGIC AND COMBINATIONAL CIRCUITS Total Hrs 12 Binary number System and Codes – Basic Logic Gates and Truth T | | Γ | Seme | | | | | 1 | | |
| LTPCCAESTotal08210106SBASICS OF ELECTRONICS ENGINEERING(Common to CSE & IT)31035050100Objective(s)To have an overview of electronic devices, study the design of digital system.Total Hrs121INTRODUCTION TO SEMICONDUCTORS AND DIODESTotal Hrs12Introduction : Semiconductors – N-Type and P-Type – Majority and Minority Carriers – PN JunctionCharacteristics – Type and Applications – Power Supplies – Rectifier – Filters – Voltage Multiplier – Zener2TRANSISTORS-INTRODUCTION TO SMALL SIGNALTotal Hrs12AMPLIFIERAMPLIFIER12Amplification – Transistor Characteristic Curve – Transistor – Types – Transistor as Switch – Measuring gain – Common Emitter Amplifier – Stabilizing the Amplifier – Other Configurations. 313LARGE SIGNAL AMPLIFICATION – OSCILLATORSTotal Hrs12Basic features – Amplifier classification – Class A,B, AB, C and Switched Mode Amplifiers – Oscillators – RC, LC, Crystal and Relaxation Oscillators – SCR.Total Hrs12Binary number System and Codes – Basic Logic Gates and Truth Tables – Boolean Algebra and De-Morgan's Theorem – Logic Circuits – Sum of Product Methods – Product of Sum Method – Simple Design of Combination and Division of Binary Numbers.Total Hrs125SEQUENTIAL LOGIC CIRCUITSTotal Hrs12Flip Flops – SR Flip Flop, Clocked SR, Master Slave, SR, JK Flip Flop – D Flip Flop – Registers – Types of Registers – Counters – Synchronous and Asynchronous Counters – BCD Decade Counter. Total Hrs60Referenc | Course Code | Course Name | | Hou | | | | | | arks |
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| Characteristics Type and Applications Power Supplies Rectifier Filters Voltage Multiplier Zener 2 TRANSISTORS-INTRODUCTION TO SMALL SIGNAL AMPLIFIER Total Hrs 12 Amplification Transistor Characteristic Curve Transistor Types Transistor as Switch – Measuring gain Common Emitter Amplifier Stabilizing the Amplifier Other Configurations. 12 Basic features Amplifier classification Otas A,B, AB, C and Switched Mode Amplifiers Oscillators - RC, LC, Crystal and Relaxation Oscillators SCR. Total Hrs 12 Binary number System and Codes Basic Logic Gates and Truth Tables Bolean Algebra and De-Morgan's Theorem Logic Circuits Sum of Product Methods Product of Sum Method Simple Design of Combinational Logic Networks Digital Arithmetic Addition, Subtraction, Multiplication and Division of Binary Numbers. 5 SEQUENTIAL LOGIC CIRCUITS Total Hrs 12 Flip Flops SR Flip Flop, Clocked SR, Master Slave, SR, JK Flip Flop D Flip Flop Registers Total Hrs 12 Flip Flops SR Flip Flop, Clocked SR, Master Slave, SR, JK Flip Flop | 1 INTRO | DUCTION TO SEMICONDUCTO | ORS AND | DIOD | ES | | Total H | lrs | 12 | |
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| Measuring gain – Common Emitter Amplifier – Stabilizing the Amplifier – Other Configurations. 3 LARGE SIGNAL AMPLIFICATION – OSCILLATORS Total Hrs 12 Basic features – Amplifier classification – Class A,B, AB, C and Switched Mode Amplifiers – Oscillators – SCR. 1 4 DIGITAL LOGIC AND COMBINATIONAL CIRCUITS Total Hrs 12 Binary number System and Codes – Basic Logic Gates and Truth Tables – Boolean Algebra and De-Morgan's Theorem – Logic Circuits – Sum of Product Methods – Product of Sum Method – Simple Design of Combinational Logic Networks – Digital Arithmetic – Addition, Subtraction, Multiplication and Division of Binary Numbers. 5 SEQUENTIAL LOGIC CIRCUITS Total Hrs 12 Flip Flops – SR Flip Flop, Clocked SR, Master Slave, SR, JK Flip Flop – D Flip Flop – Registers – Types of Registers – Counters – Synchronous and Asynchronous Counters – BCD Decade Counter. 60 Reference (s) : 1 Charles A Schuler, "Electronics Principles and Applications", 6 th edition, McGraw Hill, 2003. 2 2 Albert Malvino, David J Bates, "Electronic Principles", 7 th Edition, TMH, 2007. 1 | AMPLI | FIER | | | | | | | | |
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| 2 Albert Malvino, David J Bates, "Electronic Principles", 7 th Edition, TMH, 2007. | Reference (s) | : | | | | | | | | |
| | 1 Charles | A Schuler, "Electronics Principle | es and Ap | oplicati | ons", | 6 th ed | ition, McGra | aw Hill, | 2003. | |
| 3 Santiram Kal, "Basic Electronics", PHI, 2002. | 2 Albert M | Aalvino, David J Bates, "Electron | ic Princip | les", 7 | th Ed | ition, | ГMH, 2007. | | | |
| | 3 Santira | m Kal, "Basic Electronics", PHI, 2 | 2002. | | | | | | | |

| | Rangasamy College of Techn | ology - A | Autono | omou | s Reg | ulation | | R 2 | 800 |
|--|--|--|---|---|---|--|---------------------|---------------------------|----------|
| Department | Information Technology | Progra | amme | Code | &Nam | e In | 21: B formation | 5.Tech. <u>Technol</u> | ogy |
| | | Seme | ster I | | | | | | |
| Course Code | Course Name | | Hou | rs / W | /eek | Credit | Max | kimum M | arks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Tota |
| 08210107P | APPLIED PHYSICS LABORA | SICS LABORATORY | | DRY 0 0 3 2 50 | | 50 50 a's in optics, acousti | | 100 | |
| Objective(s) | material science and propertie fundamental constants like ac of bad conductor etc., | | | | | | | | uctivity |
| Determ Determ | ination of rigidity modulus of a w ination of Young's modulus of th ination of Young's modulus of th | he materi | | | | | | | |
| Determ Determ Determ Determ Determ Determ Determ Determ Determ | ination of Viscosity of liquid by F ination of acceleration due to gr ination of wavelength of mercur ination of thickness of fiber by A ination of wavelength of laser us ination of velocity of ultrasonic v ination of band gap energy of a ination of radius of curvature of ination of thermal conductivity o | Poiseuille ravity by o ry spectru Air-wedge sing grati waves an semicon a Plano | al of a s's met compo im by s metho ing and ing and ductor convex | unifo hod. und (I Spectro d I parti press | rm bar par) pe romete cle siz ibility u by Ne ^r | by uniform ndulum. r grating. e determina sing ultrasc wton rings n | tion nic interfo | method. erometer | |
| Determ Determ Determ Determ Determ 10. Determ 11. Determ 12. Determ | ination of Viscosity of liquid by F ination of acceleration due to gr ination of wavelength of mercur ination of thickness of fiber by A ination of wavelength of laser us ination of velocity of ultrasonic v ination of band gap energy of a ination of radius of curvature of ination of thermal conductivity o | Poiseuille ravity by o ry spectru Air-wedge sing grati waves an semicon a Plano | al of a s's met compo im by s metho ing and ing and ductor convex | unifo hod. und (I Spectro d I parti press | rm bar par) pe romete cle siz ibility u by Ne ^r | by uniform ndulum. r grating. e determina sing ultrasc wton rings n | tion nic interfo | method. erometer | |
| Determ | ination of Viscosity of liquid by F ination of acceleration due to gr ination of wavelength of mercur ination of thickness of fiber by A ination of wavelength of laser us ination of velocity of ultrasonic v ination of band gap energy of a ination of radius of curvature of ination of thermal conductivity o | Poiseuille ravity by o ry spectru Air-wedge sing grati waves an semicon a Plano of a bad c | al of a s's met compo im by s metho ing and do com ductor convex conductor | unifo hod. und (I Spectro d I parti press c lens tor us | rm bar par) pe romete cle siz ibility u by Ne ing Lee | by uniform indulum. ir grating. e determina sing ultrasc wton rings n e's disc met | tion nic interfo | method. erometer | |

| K.S. | Rangasamy College of Tech | nology - Au | tonon | nous I | Regula | ation | | R 2 | 008 |
|--|--|--------------|---------|---------|--------|---------|-------------------|---------------------|---------|
| Department | Information Technology | Program | nme C | ode & | Name | | 21: Informatio | B.Tech. on Techn | ology |
| | | Semeste | r I | | | | | | |
| Course Code | | | Ηοι | ırs / W | /eek | Crec | lit Ma | ximum M | arks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210108P | ELECTRICAL ENGINEERIN LABORATORY | ١G | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Objective(s) | To import the practical know applications of Electrical and | | | | | lectron | ics devices | , underst | and the |
| Verificat Measure Open C | PERIMENTS tion of Ohm's law and Kirchho ement of Power and Impedanc ircuit and Load Characteristics | ce in RL, RC | | | | erator | | | |
| | est on DC Shunt motor est on Single Phase Transform | ner | | | | | | | |
| | est on Single Phase and Three | | ction N | lotor | | | | | |
| | Phase Half Wave Full Wave Re | ectifiers | | | | | | | |
| | f Passive Filters | | | | | | | | |
| • | f Voltage Regulator Circuits f SMPS and UPS | | | | | | | | |

| K.S | Rangasamy College of Techr | nology - Auto | onom | ous R | Regulat | tion | | R 2 | 800 |
|--|---|---|----------------|---------|---------|--------|--------------------|-----------------|-------|
| Department | Information Technology | Program | me C | ode & | Name | In | 21: B formation | .Tech. Techn | ology |
| | | Semester I | | | | • | | | |
| a a l | | | Hou | irs / W | /eek | Credit | Maxi | mum M | larks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Tota |
| 08210109P | ELECTRONICS ENGINEERIN LABORATORY | IG | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Objective(s) | components, study the applic study and implement the com gates. PERIMENTS | | | | | | | | |
| Forward Impleme Input an Frequent Observation Observation Impleme Charactt Relaxatiti Verificatt Half add Impleme | and Reverse characteristics of entation of HW & FW Rectifier wi d Output characteristics of BJT i icy response of Common Emitte ation of output waveform with cro | ith simple Cap n CE configu r Amplifier oss over disto study the wa Logic Gates nd Full subtra table RS, D a | ctor nd T f | r Filte | class B | | | 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 | ne I | | B.Tech. on Techn | ology |
| | 1 | Semes | | | | | | | |
| Course Code | Course Name | | | irs / W | | Credit | | ximum M | 1 |
| | 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 | CISES | | | | | | | | |
| Plumbing | | | | | | | | | |
| Study of Cutting a Study of Study of Measuri | spects in Plumbing. tools and equipments – prepar and Threading of G.I. Pipes valves, taps and repairing. ng and marking practice of PVC | | | | ection | to service | line | | |
| Sheet Metal | | | | | | | | | |
| Drawing Differer | f 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 | ldering | | | | | | | | |
| Study of Welding | spects of Welding and Solderin Gas and Arc Welding Equipme of Lap, Butt, T-joints & Corner g of Small Electrical and Electro | ents Joints | uits | | | | | | |

| | K.S.Ra | ngasamy College of Tech | nology - Autonon | nous | Regu | latior | 1 | | R 2008 | } |
|---------------------------------------|--|---|--|---------------------|------------------|-----------------------|--|-----------------------|-------------------|------------------------|
| Depa | artment | Information Technology | Programme Cod | | ame | | | 21: B.Te nation Te | | ау |
| | | | Semeste | | | | [| T | | |
| Cou | rse Code | Course N | ame | Hou | rs / W | /eek | Credit | Ma | ximum | |
| | | | | L | Т | Р | С | CA | ES | Total |
| 082 | 10201G | COMMUNICATION SK (Common to all B.E./B. programmes) | Tech. | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Obje | ective(s) | To equip students of English, help them de from college to workp performance at placem | velop their soft ski blace smoother, he | lls an elp th | d pec em to | ple s o exc | kills, whicl el in their | h will ma jobs, e | ike the nhance | transition students |
| 1 | LISTEN | ling | | | | Тс | otal Hrs | | 9 | |
| etc, L | istening | tening, Listening to acade to news on the radio / TV, | | | | on, Li | stening to | | ch. | , airports, |
| 2 | | UNICATION nunication? - What does it | | | | | otal Hrs | | 9 | |
| 3 Using repeti -Leav Remi | CONVE the tele itions - S ving mes nding - | ople - place - things and ever ERSATION SKILLS ephone - Preparing for a spelling out names or word ssages on answering ma Agreeing / disagreeing – | call - Stages of a s. Giving informatio ichines - Making | on on / cha | the pl anging | dling hone gapp | Making r ointments | equests - Makii | - Answ ng con | ering calls |
| respo 4 | | instructions. DIAL GRAMMAR & VOCA | BULARY | | | To | otal Hrs | | 9 | |
| Phras | ect – vert sal verbs | o agreement - Tenses - 'D - Correct use of words - ds - Common errors & rem | o' forms - Active a Use of formal wor | | | voice | - Use of | | | |
| 5 | | EN COMMUNICATION & (| | | | Тс | otal Hrs | | 9 | |
| letters | s - Facin | s - Writing Reports - Note g an interview - Presentatio | | | | - Pre | paring cu | rriculum | vitae ai | nd cover - |
| Total | Hours to | be taught | | | | | | | 45 | |
| | | | | | | | | | | |
| Text | book(s): | | | | | | | | | |
| 1 | Ltd., Ne | Ashraf, "Effective Techni w Delhi, 2005. | cal Communicatior | n", 1 st | Editic | on, Ta | ita McGra | whil Pub | lishing | Company |
| | rence(s) | | | | | | - | | | |
| 1 | Cambrid | ai Dutt P, Geetha Rajeeva dge University Press India | Pvt. Ltd., | | | | | | Skills", I | by Ebek – |
| 2 | | o, cup "Telephoning in Engl | | | | | | | | |
| 3 | | , "New Interchange Servio dge University Press India | | ok)" – | Intro | ductio | n, Level - | - 1, Leve | I – 2, I | Level – 3, |

| K.S.Ran | gasamy College of Techno | ology - Au | tonom | ous | Regu | lation | | R | 2008 |
|---|--|---------------------------------------|-------------------------|------------------------|-----------------------------|------------------------------------|--------------------|--------------------------|--------------------------------|
| Department | Information Technology | Program | me Co | de & | Name | • | | 21: B.Teo ation Teo | |
| | | Se | mester | · 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.Te programmes) | ch. | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| Objective(s) | The course is aimed at d are imperative for effective serve as basic tools for mechanics, field theory ar | ve understa specialized | anding d studie | of er es in | nginee many | ering subj / enginee | ects. T | he topics | introduced will |
| I MULTIPI | LE INTEGRALS | | | | То | tal Hrs | | 1 | 2 |
| curves – Area (Simple proble | tion in Cartesian and Pola as double integrals – Trip ms only). R CALCULUS | | | | sian c | | | olume as | |
| | gence and curl – Line, sur out proof) – Verification of t | | | | | | | | |
| | IC FUNCTIONS | | | | | tal Hrs | lintegia | | 2 |
| Sufficient cond | complex variable – Analyti itions (excluding proof) – P ons - Conformal mapping: w | roperties o | f analy | tic fu | nction | – Harmo | nic cor | | |
| | PLEX INTEGRATION | | | | | tal Hrs | | 1 | 2 |
| Singularities - | rem (without proof) – Cau Classification – Cauchy's iding poles on real axis). | | | | | | | | |
| | E TRANSFORM | | | | То | tal Hrs | | 1 | 2 |
| Derivatives an theorems – Tr Convolution th | form – Conditions for exi- d integrals of transforms ansform of unit step funct eorem – Solution of linea equations with constant coel | – Transfor ion – Tran ar ODE of | ms of sform secon | deriv of pe d or | vatives eriodic der w | s and int function ith const | egrals s. Invei | – Initial a rse Lapla | and final value ce transform – |
| Total hours to I | | | <u> </u> | | | | | 6 | 0 |
| Text book(s):: | | | | | | | I | | |
| | an. T., "Engineering Mathe y Limited, New Delhi, 2005. | | r first y | ′ear)" | , Fou | rth Editio | n Tata | McGraw- | Hill Publishing |
| Reference(s) : | | | | | | | | | |
| 1 Kandasa Delhi 20 | my. P, Thilagavathy. K and 07. | Gunavath | у. К, "Е | Ingin | eering | Mathem | atics" - | S.Chand | and Co. – New |
| 2 Grewal. | B.S., "Higher Engineering M | lathematic | s", Thir | ty Eig | ghth E | dition, Kh | anna P | ublishers | , Delhi, 2004. |
| Singapor | . E., "Advanced Engineerin re 2001. | - | | • | | | - | | |
| | raman.M.K, "Engineering N Pub. Co., Chennai, 2004. | lathematic | s", Vol | ume | & | Revised | Enlarg | ed Fourt | h Edition", The |

| K.S.Ran | gasamy College of Technology - A | | | - | | | | R 2008 |
|---|--|--|---|--|---|------------------------------|---|---|
| Department | Information Technology | Pro | ogram | me C ame | ode & | ı. | | : B.Tech. ion Technology |
| - | | Semes | | ame | | | morriali | ion rechnology |
| | 1 | | rs / We | ook | Credit | | Maxir | num Marks |
| Course Code | Course Name | L | Т | P | C | CA | ES | Total |
| | MATERIALS SCIENCE | - | • | • | Ũ | 0/1 | | i otai |
| 08210203S | (Common to all B.E./B.Tech. programmes except Nano) | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(s) | To impart fundamental knowledge of conducting, superconducting engineering materials and nanom | and | magne | etic n | naterials, | applic | | |
| 1 CONDUC MATERIA | TING AND SUPERCO | | | | tal Hrs | <i>.</i> | | 9 |
| superconducto superconducto Magnetic levit | f Ohm's law - Classical free ele ors - Critical field - Meissner's el ors - Josephson effect (qualitative) ation. NDUCTING MATERIALS | ffect - | Isotop | pe eff perco | ect - BC | S theo | ory - Ty | pe I and Type |
| concentration temperature a Applications. | d Compound semiconductors - In in intrinsic and extrinsic semicondu and impurities - Hall effect - Hall | ctors (d | derivat | ion) - Expe | Fermi le | vel - V | ariation | of Fermi level wit |
| Classification | of magnetic materials - Properties - oft magnetic materials - Ferrites - S Bubble memory - Magnetic tape - Flo | Structu | re, Pre | and D eparat | omain the | Applica | | |
| 4 DIELECT | RIC MATERIALS | | | То | tal Hrs | | | 9 |
| dependence c - Dielectric los 5 NEW EN Shape Memo Preparation, F and Nanolitho | Polarization: Electronic , Ionic, Ori of polarization - Active and Passive of sess - Dielectric breakdown mechanic GINEERING MATERIALS my Alloys (SMA): Characteristics, Properties and Applications. Nanoma ography - Bottom-up process: Vapo tion and applications. | lielectri ism - Fo Properi aterials | c - Inte erroele ties of : Fabri | ernal f ectric To NiTi icatior | field - Clau materials: tal Hrs alloy and n methods | usius -f Proper d appl | Vosotti i rties and ications -down p | relation (derivation <u>d Applications.</u> 9 , Metallic glasses process: Ball Millin |
| Total hours to | | | | | | | | 45 |
| Text book(s): | | | | | | | | |
| | Science", 1st Editon, Authored by D | ept. of | Physic | cs KS | RCT, 200 | 8. | | |
| | | - | - | | | | | |
| | | | | | | | | |
| Reference(s) | | ring", P | rentic | e Hall | of India, I | Vewde | lhi, 2001 | 1. |
| Reference(s) 1 Raghava | : | • | | | | Vewde | lhi, 2001 | 1. |
| Reference(s) Reference(s) 1 Raghava 2 Rajendra | : n V,"Materials Science and Enginee | raw Hil | l, New | delhi, | 2005. | | lhi, 2001 | 1. |
| Reference(s) Raghava Rajendra Palanisar | : n V,"Materials Science and Enginee n V., "Materials Science", Tata McG | raw Hil CH Pul | l, New blicatio | delhi, ons, C | 2005. Chennai, 2 | 002. | · | 1. |

| K.S | Rangasamy College of Technology | - Auton | omous | s Regul | ation | | | 8008 |
|---|---|-------------------------------------|-----------------------------|---|--|---------------------------------|--------------------------------|--------------------------------------|
| Department | Information Technology | Program | nme Co | ode & N | lame li | 21: nformatio | B.Tech on Tech | |
| | Se | mester II | | | | | | |
| Course Code | Course Name | Hou | rs / We | ek | Credit | Ma | ximum r | narks |
| Course Coue | Course Marine | L | Т | Р | С | CA | ES | Total |
| 08210204G | ENVIRONMENTAL SCIENCE (Common to all B.E./B.Tech. programmes) | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(s) | The student should be conversant wi environmental studies, various natur Significance and protection of bio div significant international conventions a | al resour rersity an | ces an d vario | d the c us form | urrent threa s of enviro | ats to the nmental | eir susta degrada | ainability |
| 1 ATMOSF | PHERE AND ECOSYSTEM | | | То | tal Hrs | | 9 | |
| warming – Cli ecosystem – s Ecological su | zone depletion – Air pollution – sour mate change – Acid rain - Planet Ear structure and functions of ecosystem- iccession-Food chains-Food webs- ures and function of forest, grassland a pario | th – Bios produce Ecologic | sphere rs, con cal py | Hydr sumers ramids- | osphere – and decor Introduction | Lithosph mposers n, types | nere. Co - Enero s, char | oncept of gy flow - acteristic |
| | RESOURCES AND ITS TREATMENT | | | To | al Hrs | | 9 | |
| Land – weath deforestation- solid and haz current scenar | | g – types d degrada | ation – | – soil e feature | s of desert | geoch | nemical | cycling - |
| 4 FUTURE | POLICY AND ALTERNATIVES | | | To | 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 powe | | | | |
| Introduction to Biogeographic biodiversity in environment p environment a | Bio diversity-Definition, genetic species al classification of India – Biodiversit India – threats to biodiversity – endem protection act – issues and possible nd human health - Case Studies in cur | y in India ic and er solutior | a – Ind idange i – po | em diver lia as r red- ha | rsity. nega divers bitat – cons | servation | on – ho of biod ion exp | iversity - |
| Total hours to | be taught | | | | | | 45 | |
| Text book : | | | | | | | | |
| | nental Science by R.Palanivelu, R.Pari | imalam, a | and B.S | Srividhy | а. | | | |
| 2005. | Williams – "Environmental Science E | | | | raHill Publi | ishing C | ompany | Limited |
| 2. G. Tyler | Miller, JR _ "Environmental Science ", | Thomsor | ו, 200 <mark>4</mark> | | | | | |
| | P. Cunningham – "Principles of Enviror | | | | | | | |
| | a Erach –"The Biodiversity of INDIA", N | - | | | | | | |
| | R.K., "Hand Book of Environmental I & II, Environmedia. | Laws, R | ules, (| Guidelir | ies, Compl | liances | and Sta | andards' |

| K.S.R | angasamy College of Techn | ology - Aut | onomo | ous R | egula | tion | | R 2 | 008 |
|----------------------------------|---|---------------|-----------|---------|--------|-------------|-----------|------------------------|-------------|
| Department | Information Technology | Progra | mme C | ode & | Nam | е | | 21: B.Tec ation Tec | |
| | | Seme | ster II | | | | | | |
| | | | Hour | s/We | ek | Credit | N | laximum | Marks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210205S | FUNDAMENTALS OF PROGRAMMING Common to ECE,EEE,CSE | | 3 | 1 | 0 | 3 | 50 | 50 | 100 |
| Objective(s) | To impart knowledge in the devices. | e fundamen | tals of | comp | | | ramming | g langua | ge, storage |
| I COMPU | TER BASICS | | | | Тс | otal Hrs | | 12 | |
| Storage- Input | computers- Generations of o Output Media - Algorithm- Fle Computer Software- Definition | owchart- Ps | eudo co | ode – | Prog | | | | |
| 2 C FUND | AMENTALS | | | | Тс | otal Hrs | | 12 | |
| operations- De | C- Constants- Variables- Da | | perator | s and | Exp | ressions- | Managii | ng Input | and Output |
| 3 ARRAYS | S AND FUNCTIONS | | | | Тс | otal Hrs | | 12 | |
| Arrays- Chara | cter Arrays and Strings- User | defined fund | ctions- S | Storag | je Cla | isses | | | |
| 4 STRUCT | URES AND FILES | | | | Тс | otal Hrs | | 12 | |
| Structures- De Unions- File M | efinition- Initialization- Array of lanagement. | Structures- | Structu | ures v | vithin | structures | s- Struct | ures and | Functions- |
| 5 POINTEI | | | | | Тс | otal Hrs | | 12 | |
| Pointers and s | | ers and array | y Pointe | ers an | d cha | aracter str | ing Poin | | functions – |
| Total hours to | | | | | | | | 60 | |
| Text book (s) | | | | | | | | | |
| | entals of Programming", Tech | | shers 2 | 008. | | ngi, D.I | Muthusa | ankar, | P.Kaladevi |
| • | irusamy, "Programming in AN | SI C", TMH, | New D | elhi, 2 | 2002. | | | | |
| Reference(s): | | | | | | | | | |
| - | an V, "Fundamentals of Comp | | | - | H 200 | 06. | | | |
| 2 Byron Go | ottfried, "Programming with C" | , II Edition, | ГМН, 20 | 002. | | | | | |

| n., | S.Rangasamy College of Techno | ology - A | utono | omou | s Reg | ulation | | R 2 | 800 |
|---|---|--|---|---|---|--|---|--|----------------------------|
| Department | Information Technology | Proę | gramn | ne Co | de & I | Name | Inforr | 21: B.Tec nation Tec | |
| | | Semes | ster II | | | | | | |
| Course Code | Course Name | | Hou | rs / W | eek | Credit | Ν | /laximum N | larks |
| Course Coue | | | L | Т | Р | С | CA | ES | Total |
| 08210206S | BASICS OF CIVIL AND MECHANICAL ENGINEERING (Common TO CSE&IT) | | 4 | 0 | 0 | 4 | 50 | 50 | 100 |
| Objective(s) | At the end of this semester, components of structures and b | | | | | onversant | in prop | erties of r | naterials, |
| 1 INTI | RODUCTION | | | | | Total H | rs | 10 | |
| | Civil Engineering – Materials – bi s. Bearing capacity – loads – Req | | | | | | | steel section | ons – site |
| 2 SUF | ERSTRUCTURE | | | | | Total H | rs | 10 | |
| valuation me of Interior and | e – brick masonry – stone mason chanics – internal and external for I Landscaping. VEYING | | | | | | sridges | | Basics |
| Survevina – | Dbjects – types – classification – | principle | s – m | neasu | remer | nts of dista | nces – | angles - I | evelina — |
| | of areas – illustrative examples. | F | | | | | | | 5 5 |
| 4 POV | VER PLANT ENGINEERING | | | | | Total H | rs | 10 | |
| Nuclear Powe | Classification of Power Plants – er Plants – Merits and Demerits – and double acting) – Centrifugal F | Pumps a | | | | | | | |
| | NGINES | | | | | Total H | rs | 10 | |
| | ustion engines as automobile pow o stroke cycles – Comparison of fo | | | | | | | | |
| stroke and tw | | our shoke | and | two si | lioke | engines – c | | | lant. |
| | RIGERATION AND AIR CONDITI | | | | | Total H | | 10 | |
| 6 REF Terminology | | IONING S iing. Prine | SYSTE | EM of vap | oour c | Total H ompressior | rs n and a | 10 | |
| 6 REF Terminology | RIGERATION AND AIR CONDITI of Refrigeration and Air condition cal domestic refrigerator – Window | IONING S iing. Prine | SYSTE | EM of vap | oour c | Total H ompressior | rs n and a | 10 | system – |
| 6 REF Terminology Layout of typi | RIGERATION AND AIR CONDITI of Refrigeration and Air condition cal domestic refrigerator – Window be taught | IONING S iing. Prine | SYSTE | EM of vap | oour c | Total H ompressior | rs n and a | 10 bsorption | system – |
| 6 REF Terminology Layout of typi Total hours to Reference(s) 1 Sha New | RIGERATION AND AIR CONDITI of Refrigeration and Air condition cal domestic refrigerator – Window be taught nmugam G. and M.S. Palanisamy Delhi, 1996. | IONING S ing. Prine w and Spl , "Basic C | SYSTI ciple (lit type Civil ar | EM of vap e roon | oour c n Air c chani | Total Hi ompressior onditioners cal Enginee | rs and a | 10 bsorption 60 MH Publis | system – |
| 6 REF Terminology Layout of typi Total hours to Refererce(s) 1 Sha New 2 Ran | RIGERATION AND AIR CONDITI of Refrigeration and Air condition cal domestic refrigerator – Window be taught nmugam G. and M.S. Palanisamy Delhi, 1996. amrutham S. "Basic Civil Enginee | ONING S ing. Princ w and Spl , "Basic C ering", Da | SYSTE ciple (lit type Civil ar | EM of vap roon nd Me Rai Pu | pour c n Air c chani | Total H ompression onditioners cal Enginee | rs and a a. ering", T | 10 bsorption 60 MH Publis 9 Edition. | system – |
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| | | Semest | ter II | | | | | | |
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| Depa | rtment | Information Technology | Pro | gramr | ne Co | de &N | lame | | 1: B.Tech | - |
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| Cours | e Code | Course Name | | | rs / W | | Credit | - | ximum M | |
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| 0821 | 0208P | APPLIED CHEMISTRY LABORATORY | | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Obje | ective | Educate the theoretical conce | pts Expei | riment | ally. | | | | | |
| | | A) | ny 10 ex | perime | ents) | | | | | |
| 1. | Estim | ation of hardness of water by E | DTA. | | | | 1 | otal Hrs | | 3 |
| 2. | Estim | ation of alkalinity of water samp | ole. | | | | 7 | otal Hrs | | 3 |
| 3. | Estim | ation of chloride content in wate | er sample |). | | | 1 | otal Hrs | | 3 |
| 4. | Deter | mination of dissolved oxygen in | boiler fe | ed wa | ter. | | 1 | otal Hrs | | 3 |
| 5. | Deter | mination of water of crystallization | ion of a c | rystall | ne sa | lt. | 1 | otal Hrs | | 3 |
| 6. | Cond | uctometric titration of strong aci | d with str | ong b | ase. | | 1 | otal Hrs | | 3 |
| 7. | Cond | uctometric titration of mixture of | facids. | | | | 7 | otal Hrs | | 3 |
| 8. | Preci | pitation titration by conductome | tric metho | od. | | | 1 | otal Hrs | | 3 |
| 9. | Deter | mination of strength of HCI by p | H Meter. | | | | 1 | otal Hrs | | 3 |
| 10. | Estim | ation of ferrous ion by potentior | netric titra | ation . | | | 7 | otal Hrs | | 3 |
| 11. | | mination of sodium and potassi metry (Demo only). | um in a w | vater s | ample | e by fla | ame 7 | otal Hrs | | 3 |
| 12. | Estim | ation of ferric ion by spectropho | otometry (| Demo | only) | | 1 | otal Hrs | | 3 |
| Total h | nours to b | e taught | | | | | | | 30 | |
| Lab Ma | anual : | | | | | | | | | |
| 1. (| Chemistry | Lab Manual by R.Palanivelu, | R.Parima | lam ai | nd B.S | Srividh | ya | | | |
| Refere | ence : | | | | | | | | | |
| 1. J | J. Mendha | am, R.C. Denney, J.D. Barnes a 6 th Edition, Pearson Education, | and N.J.K 2004 | . Thor | nas, ∖ | /ogel's | Text book | of Quant | itative Ch | emical |
| | anary 313, 1 | | 2007. | | | | | | | |

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| Department | Information Technology | Prog | gramm | e Coc | le &Na | ime | 21: Informatio | B.Tech. on Techn | ology |
| | | Seme | ster II | | | | | | |
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| Write a Write a Write a Write a Write a the length Write a 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 ultiplicatio the sales anipulatio g library f alphabe an, varian | on. s repoi in func function itical of ice and | tions l ns. rder. d stan | | - | | | on, find |

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| Methodology | are to be prepared. 2. These 200 keyword pages and is to be 3. The staff who is has respective discussi 4. The staff will explain linking the keyword 5. In a similar way, the | ds are to be printed handed over to ea ndling the subject on period (3 period n and question the s. e students have to | d in do ch stu in the ds/ser e stud prepa | ouble udent prev meste ents are th | colun for al rious s er) as using nemse | nn (2 x 50 v I the subjec emester w given belov W' and 'H' | words) a cts. ill handle w. ' type qu | nd in 2 e the estions | |
| | The Schedule for Cond | luct of Comprehen | sion | Subje | ect. | | | | |
| | Week | | | | Ac | tivity | | | |
| | | First 1½ Period (No. of unit | | ct | | xt 1½ peric bject (No. o units) | | Ηοι | Irs |
| | W1 | S1 (2) | | | | S2 (2) | | 3 | |
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| | W6 | S3 (3) | | | | S4 (3) | | 3 | |
| | W7 | S5 (3) | | | | S6 (3) | | 3 | |
| | W8 | Test-II (Porti | on:3 ι | units i | in eac | h subject) | | 1 | |
| | W9 | | Disc | ussio | n | | | 3 | |
| | W10 | Test-III (Al | l 5 un | its an | id all s | ubject) | | 1 | |
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| | Only continuou Each test will continuou | it (3 hrs /week) La is Assessment (CA arry100 questions | A) and | d No | End S d amo | emester ex | | | e units |
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| | Test – II | | | | | 25 | | | |
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| S1 | 08210101G - Techni | | | | | | | | |
| S2 | 08210102G - Engine | • | 5 I | | | | | | |
| S3 | 08210103G - Applied | - | | | | | | | |
| S4 | 08210104G - Applied | ÷ | | | | | | | |
| S5 | 08210105S - Basics | • | | <u> </u> | | | | | |
| S6 | 08210106S - Basics | of Electronics Eng | ineer | ing | | | | | |

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| Department | Information Technology | / Program | code | & Na | me | _ | | B.Tech. | _ |
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| Objective(s) | iii) To comprehe | end the semester | subjec | cts stu | udied. | | | | |
| | | he technical know | | | | | | | |
| | 1. For each subject are to be prepare | | portar | nt woi | rds or | terms (5 ur | nts x 40 |) words) | |
| | 2. These 200 keywo | | ted in | doub | le col | umn (2 x 50 | words |) and in 2 | 2 |
| | | e handed over to | | | | | | | |
| Methodology | 3. The staff who is h | andling the subje sion period (3 per | | | | | | le the | |
| | 4. The staff will expl | | | | | | | questions | 6 |
| | linking the keywo | rds. | | | | - | | | |
| | 5. In a similar way, t | | | | | selves for a | ll the ke | eywords | |
| | The Schedule for Co | nauct of Compren | ensio | n Suc | • | | | | |
| | Week | First 1½ Period | auhia | a t | | ctivity | al | | |
| | | (No. of uni | | CL | | xt 1½ perio bject (No. c | | Ηοι | irs |
| | | (| , | | ••• | units) | | | |
| | W1 | S1 (2) | | | | S2 (2) | | 3 | |
| | W2 | S3 (2) | | | | S4 (2) | | 3 | |
| | W3 | S5 (2) | | | | S6 (2) | | 3 | |
| Execution | W4 | Test-I (Portio | on:2 u | nits iı | n each | | | 1 | |
| | W5 | S1 (3) | | | | S2 (3) | | 3 | |
| | W6 | S3 (3) | | | | S4 (3) | | 3 | |
| | W7 | S5 (3) | | | | S6 (3) | | 3 | |
| | W8 | Test-II (Porti | | | | h subject) | | 1 | |
| | W9 | | | ussio | | | | 3 | |
| | W10 | Test-III (Al | l 5 un | its an | d all s | subject) | | 1 | |
| | | Total | | | | | | 24 | |
| | | edit (3 hrs /week) I ous Assessment (| | | | | vomin | otion | |
| | | l carry100 questio | | | | | | | ive units |
| | Component | | | | | ghtage | , | | |
| Evaluation | Test – I | | | | | 25 | | | |
| | Test – II | | | | | 25 | | | |
| | Test – III | | | | | 50 | | | |
| | Total | | | | | 100 | | | |
| S1 | 08210201G - Comm | unication Skills | | | | | | | |
| S2 | 08210202G - Engine | ering Mathematic | s II | | | | | | |
| S3 | 08210203G - Materia | al Science | | | | | | | |
| S4 | 08210204G - Enviror | nmental Science | | | | | | | |
| S5 | 08210205G - Fundar | mentals of Program | nming | 3 | | | | | |
| S6 | 08210206S - Basics | of Civil & Mechan | ical E | ngg. | | | | | |

(For the candidates admitted from 2009-2010 onwards)

| K.S.R | angasamy College of Techn | ology - A | utonom | ous R | egulat | ion | | R 20 | 08 |
|-----------------------------------|---|------------------------------------|----------------------------------|-----------------------------|-------------------|-------------------------|------------|-----------------------|--------------------------|
| Department | Information Technology | Progr | amme c | ode & I | Name | | | B.Tech. | |
| | | Sem | ester III | | | In | formatio | n Techno | biogy |
| | | Com | | rs/We | ek | Credit | Ma | ximum N | larks |
| Course Code | Course Name | | L | T | P | C | 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 stu | m technic g subjects theory. | lues. Th s like he The cou | is will b at condurse wi | 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 typ differential equa | ntial differential equations by bes of first order partial diffe ations of second and higher or | erential e | quations | – Lag | grange | | | | |
| 2 FOURIER | SERIES | | | | To | tal Hrs | | 12 | |
| | itions – General Fourier serie | | | n functi | ons – | Half range | e sine se | eries – H | alf range |
| | Parseval's Identity – Harmonic RY VALUE PROBLEMS | : Analysis | | | To | tal Hrs | | 12 | |
| | f second order quasi linear dimensional heat equation - I | | | | | | | limensior | nal wave |
| | TRANSFORM | | | | | tal Hrs | | 12 | |
| | m pair- Sine and Cosine trans val's Identity – Problems. | sforms– P | roperties | s – Tra | nsform | ns of simpl | e functio | ons – Co | nvolution |
| | FORM AND DIFFERENCE E | QUATION | IS | | To | tal Hrs | | 12 | |
| | lementary properties – Initial lue method - Convolution theo | | | | | | | | |
| Total hours to b | | | | | | | | 60 | |
| Text book(s): : | | | | | | | | | |
| | n.T, "Engineering mathematics | | | | | • . | • | | |
| 2 Grewal, B. | S., "Higher Engineering Mathe | ematics", | Thirty Si | xth Edi | tion, K | hanna Pul | olishers, | Delhi, 2 | 001. |
| References : | | | | | | | | | |
| Students", | n, S., Manicavachagom Pillay Volumes II and III, S. Viswan | athan (Pri | nters an | d Publi | shers) | Pvt. Ltd. (| Chennai | , 2002. ` | , ₀ |
| | y, P., Thilagavathy, K., and C ltd., New Delhi, 1996. | Gunavathy | /, K., "Eı | ngineer | ing Ma | athematics | Volume | e III", S. | Chand & |

| | K.S. | Rangasamy College of Techn | ology - / | Autono | omou | s Reg | ulation | | | R 20 | 800 |
|-----------|--------------|--|------------------------------------|----------------------------|------------------|-----------------|------------------------|-----------|------------------------|----------------------|----------|
| Departn | nent | Information Technology | Prog | gramm | e Cod | e &Na | ame | I | 21: nformatio | B.Tech. on Techn | ology |
| | | | Semes | ster III | | | | | | | |
| Course (| C odo | Course Name | | Hou | rs / W | eek | Credi | t | Max | imum M | arks |
| Course | June | Course Name | | L | Т | Р | С | | CA | ES | Total |
| 082103 | 02C | SIGNALS AND SYSTEMS | | 3 | 1 | 0 | 4 | | 50 | 50 | 100 |
| Objectiv | | To understand the representa analysis using transforms, ar Transforms and state equation transforms, find the frequenc FFT and Z-transform analysis. | alyze the ns, study y respon | e linea the an se of | r time alysis | e inva of Di | riant sys screte Ti | tem me | s using l signals u | Fourier, sing DF1 | Laplace |
| 1 | CLAS | SIFICATION OF SIGNALS ANI | | MS | | Т | otal Hrs | | | 12 | |
| Exponen | tial, Cla | e signals (CT signals), discre assification of CT and DT signal fication of systems – Linear Tim | ls - perio | dic and | l aper | iodic, | | | | | |
| 2 | ANAL | YSIS OF CT SIGNALS | | | | Т | otal Hrs | | | 12 | |
| Fourier s | eries a | nalysis, Spectrum of CT signals | , Fourier | Trans | form a | and La | place Tr | ans | form in S | ignal Ana | alysis. |
| 3 | LTI-C | T SYSTEMS | | | | Т | otal Hrs | | | 12 | |
| | | ation, Block diagram represe er Methods and Laplace transfo | | | | | | | | gral, Fre | equency |
| 4 | ANAL | YSIS OF DT SIGNALS | | | | Т | otal Hrs | | | 12 | |
| | s of Z- | T Signals, Discrete Time Fortransform in signal analysis. | ourier Tra | ansfor | m (D | TFT), | Discrete | e Fo | ourier Tr | ansform | (DFT), |
| 5 | LTI-D | T SYSTEMS | | | | Т | otal Hrs | | | 12 | |
| | | ations, Block diagram reprea and Z-transform analysis, State | | | | | | onvo | lution S | UM, Fre | equency |
| Total hou | irs to b | e taught | | | | | | | | 60 | |
| Text boo | k : | | | | | | | | | | |
| 1 | | /. Oppenheim, Alan S. Willsky f India Pvt. Ltd., 2003. | with S.H | lamid I | Nawa | o, "Sig | gnals & S | Syst | ems", Pe | arson / I | Prentice |
| Reference | • • | | | | | | | | | | |
| 1 | | Iner, "Signals and Systems", Mo | | | | | | | | | |
| 2 | | n Haykin and Barry Van Veen, " | • | • | | | | | | | |
| 3 | P.Rar | nesh Babu, R.Ananda Nataraja | n, "Signa | ls and | Syste | ems", S | Scitech p | oubli | cations, 2 | 2006. | |

| | K.S. | Rangasamy College of Techn | ology - / | Auton | omou | s Reg | ulation | | R 20 | 008 |
|-----------------------------|----------------------------------|--|-------------------------------------|--------------------------------------|-----------------------------|---------------------------------------|--|----------------------------------|--|---------------------------------|
| Depa | artment | Information Technology | Progra | amme | Code | &Nam | ne In | | 3.Tech. n Technol | ogy |
| | | | Semes | ster III | | | • | | | 0, |
| 0 | | | | Hou | rs/W | eek | Credit | Ma | ximum M | arks |
| Cours | se Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 0821 | 0303C | COMPUTER ARCHITECTURE | = | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| | ctive(s) | 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 and and the ries, stuc | rithmet n, sub conce ly the | ic uni traction pt of | t inclu on, mi pipeli ent wa | ding the alg ultiplication ning, study ys of comm | orithms & divisio the hier | & implem n, study archical with I/O | entation in detail memory |
| 1 | | STRUCTURE OF DIGITAL CON | | | | | otal Hrs | | 10 | |
| Boolea operat registe | an circuits tions, coc er. | Basic Operational Concepts using K – map and tabulation le conversion – Design of Syr | methods | – Des | ign of | simp circu | le combinati its, synchro | ional circ | uits for ar OD count | ithmetic |
| 2 | ARITHM | | | | | | otal Hrs | | 8 | |
| | | btraction of signed numbers – E | | | | | | | | - signed |
| opera 3 | | ication and fast multiplication – | Integer d | IVISION | - floa | | oint number otal Hrs | 's and op | erations. 9 | |
| | | oncepts – Execution of a complete | ata Inatri | otion | Mult | | | tion Ur | • | ontrol |
| microp | programm | ed control - Pipelining – Basic – Data path and control conside | concept | s – da | ita ha | zards | - instructio | | | |
| 4 | | RY SYSTEM | Jiadon | Cupor | ooului | | otal Hrs | | 9 | |
| | | - decoders and encoders - m | | | | | ers - semic | conducto | r RAMs, I | ROMs – |
| 5 5 | | d cost – cache memories - Perfo GANIZATION | mance | consiu | eralio | | otal Hrs | | 9 | |
| | sing I/O c | levices – Enabling and disabling Interfaces (PCI, SCSI, USB). | g Interrup | ts – D | irect N | | | Buses – | Interface | Circuits |
| | hours to b | | | | | | | | 45 | |
| Text b | ook (s) : | | | | | | | | | |
| 1 | Carl Ha | macher, Zvonko Vranesic and S | afwat Za | ky, "Co | omput | er Org | ganization" & | 5 th Ed, M | cGraw Hi | I, 2002. |
| 2 | M.Morris | s Mano," Digital Design," third e | dition, Pe | arson | Educ | ation, | 2002. | | | |
| Refere | ence (s) : | | | | | | | | | |
| 1 | Pearson | Stallings, "Computer Organiza Education, 2003 reprint. | | | | | 0 0 | | | |
| 2 | interface | .Patterson and John L.Hennes ", 2 nd Ed, Morgan Kaufmann, 20 | 002 repri | nt. | • | | - | | dware / s | oftware |
| 3 | John P.I | Hayes, "Computer Architecture | & Organi | zation' | ', 3 rd E | d, Mo | Graw-Hill, 1 | 998. | | |
| 4 | Charles | H.Roth, Jr. "fundamentals of Lo | ck Desig | n," Fo | urth e | dition, | Jaico Publi | shing Ho | use, 2000 |). |
| 5 | Donald | D.Givone, "Digital Principles and | d Design, | " Tat M | /lcGra | w-Hill | , 2003. | | | |

| | K.S.Rai | ngasamy College of Techr | nology - A | Auton | omou | s Reg | ulation | | R 20 | 800 |
|---|--|---|---|---|---|--|--|--|---|--------------------------------------|
| Departmer | nt | Information Technology | Progra | amme | Code | &Nam | ne Inf | | .Tech. Technol | ogy |
| | | | Semes | ster III | | | | | | |
| Course Co | do | Course Name | | Hou | rs / W | eek | Credit | Max | kimum Ma | arks |
| Course Co | ue | Course Maine | | L | Т | Ρ | С | CA | ES | Total |
| 08210304 | C D | ATA STRUCTURES | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(| s) or da | learn the systematic wards ganizing large amounts of ata structures, efficiently implicitly | ⁱ data, lea | arn to | progra | am in specifi | C, efficiently c problems | | ent the o | |
| 1 P | ROBLE | EM SOLVING | | | | | Fotal Hrs | | 9 | |
| Problem sol | lving – ⁻ | Fop-down Design – Implem | entation - | - Efficie | ency – | Anal | ysis – Sampl | e algorith | nms. | |
| 2 L | ISTS, S | STACKS AND QUEUES | | | | ٦ | Fotal Hrs | | 8 | |
| Abstract Da | ta Type | (ADT) – The List ADT – Th | ne Stack A | NDT – | The C | ueue | ADT | • | | |
| 3 T | REES | | | | | ٦ | Fotal Hrs | | 10 | |
| Queues (He 4 S Preliminarie | eaps) – SORTIN s – Ins | Idea – Hash Function – So Model – Simple implementa G AND SEARCHING Section Sort – Shellsort – I | ations – B Heapsort | inary H | leap | | Fotal Hrs | | 9 | • |
| | GRAPH | Search – Complexity Analy | | | | | | | 5 | - Linear |
| | | Search – Complexity Analy | | | | ٦ ٦ | Total Hrs | | 9 | - Linear |
| Biconnectivi | pannin ity | S ogical Sort – Shortest-Path g Tree – Prim's Algorithm | Algorithm | | | nted S | hortest Path | | 9 tra's Algo | orithm – |
| Biconnectivi Total hours | pannin ity to be ta | S ogical Sort – Shortest-Path g Tree – Prim's Algorithm | Algorithm | | | nted S | hortest Path | | 9 tra's Algo ected Gi | orithm – |
| Biconnectivi Total hours Text book (s | panning ity to be ta s) : | S ogical Sort – Shortest-Path g Tree – Prim's Algorithm nught | Algorithm – Applic | ations | of D | nted S epth-F | Shortest Path First Search | – Undir | 9 tra's Algo ected Gi 45 | orithm – |
| BiconnectiviTotal hoursText book (s12M(d) | panning ity to be ta s) : R. G. Dr I. A. We chaps 3 | S ogical Sort – Shortest-Path g Tree – Prim's Algorithm rught omey, "How to Solve it by C eiss, "Data Structures and A , 4.1-4.4 (except 4.3.6), 4.6 | Algorithm – Applic Computer" Algorithm | (Chap (Chap Analys 1, 6.1-6 | of D os 1-2) is in C 5.3.3, | nted S epth-F | hortest Path First Search ntice-Hall of I ed, Pearson | - Undir ndia, 200 | 9 tra's Algo ected Gi 45 06 on Asia, 2 | prithm – raphs – 2004 |
| Biconnectivi Total hours Text book (s 1 R 2 M (d) | panning to be ta s) : R. G. Dr I. A. We chaps 3 .7.5, 7. | S ogical Sort – Shortest-Path g Tree – Prim's Algorithm rught omey, "How to Solve it by C eiss, "Data Structures and A | Algorithm – Applic Computer" Algorithm | (Chap (Chap Analys 1, 6.1-6 | of D os 1-2) is in C 5.3.3, | nted S epth-F | hortest Path First Search ntice-Hall of I ed, Pearson | - Undir ndia, 200 | 9 tra's Algo ected Gi 45 06 on Asia, 2 | prithm – raphs – 2004 |
| Biconnectivi Total hours Text book (s 1 R 2 M (c 7 Reference (1 Y | panning to be ta s) : R. G. Dr A. A. Wo chaps 3 .7.5, 7. s) : | S ogical Sort – Shortest-Path g Tree – Prim's Algorithm hught omey, "How to Solve it by C eiss, "Data Structures and A , 4.1-4.4 (except 4.3.6), 4.6 7.6), 7.11, 9.1-9.3.2, 9.5-9.5 cam, M. J. Augenstein and A | Algorithm – Applic Computer" Algorithm 5, 5.1-5.4.7 5.1, 9.6-9.0 | (Chap (Chap Analys 1, 6.1-(6.2, 9. | of D os 1-2) is in C 5.3.3, 7). | ا nted S epth-F , Prer ۶٫, 2 nd 7.1-7. | tice-Hall of I ed, Pearson (except 7.2 | - Undir ndia, 200 Educatio 2.2, 7.4.1 | 9 tra's Algo ected Gi 45 06 00 Asia, 2 , 7.5.1, 7 | prithm – raphs – 2004 .6.1, |
| Biconnectivi Total hours Text book (s 1 R 2 M (c 7 Reference (1 Y A | panning ity to be ta s) : R. G. Dr A. A. We chaps 3 .7.5, 7. s) : 7. Lange sia, 20 | S ogical Sort – Shortest-Path g Tree – Prim's Algorithm hught omey, "How to Solve it by C eiss, "Data Structures and A , 4.1-4.4 (except 4.3.6), 4.6 7.6), 7.11, 9.1-9.3.2, 9.5-9.5 cam, M. J. Augenstein and A | Algorithm – Applic Computer" Algorithm 7 5, 5.1-5.4.7 5.1, 9.6-9.1 | (Chap (Chap Analys 1, 6.1-(6.2, 9.) enbau | of D os 1-2) is in C 5.3.3, 7). m, "Da | nted S epth-F , Prer , 2 nd 7.1-7. | tice-Hall of I ed, Pearson (except 7.2 | - Undir ndia, 200 Educatio 2.2, 7.4.1 | 9 tra's Algo ected Gi 45 06 00 Asia, 2 , 7.5.1, 7 | prithm – raphs – 2004 .6.1, |

| | K.S. | Rangasamy College of Techn | ology - / | Auton | omou | s Reg | ulation | | R 20 | 008 |
|----------------------------------|--------------------------------|--|-----------------------------------|---------------------------|-----------------------|--------------------------|--|----------------------------------|--|--------------------------------|
| Departi | ment | Information Technology | Progra | amme | Code | &Nan | ne Inf | | 3.Tech. | 0.01/ |
| | | | Semes | ster III | | | 111 | ornation | Technol | ogy |
| | | | 001100 | | rs / W | eek | Credit | Ma | ximum Ma | arks |
| Course | Code | Course Name | | L | Т | P | C | CA | ES | Total |
| 082103 | 305C | PRINCIPLES OF COMMUNIC | ATION | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| Objectiv | ve(s) | 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 jain know owledge | ent ty vledge about | pes o abou base | of FM t diffe band | transmitter rent digital n transmissio | s & Ree nodulatio n ISI an | ceivers a on technic nd distorti | und PM ques for ion free |
| | MPLITU ECEPT | JDE MODULATION: TRANSMI | SSION A | ND | | | Total Hrs | | 9+3 | |
| Principle percent modulate | es of an modula or, AM t | nplitude modulation – AM enve tion, AM power distribution, AM transmitters – low level transmit M receivers – TRF, Superheter | modulate ters, high | or circ level | uits – transr | low le nitters | vel AM modu , Receiver p | ulator, ma arameter | edium po rs. | |
| | | ODULATION: TRANSMISSIO | | | | | Total Hrs | | 9+3 | |
| frequence modulate | cy spec ors – Di | on – FM and PM waveforms ctrum of a angle modulated v irect FM and PM, Direct FM trar virect FM demodulators, Frequ | waves, E nsmitters, | Bandw Angle | idth r modu | equire ulation | ment, Avera Vs. amplitu | age pow | ver FM a | |
| 3 DI | IGITAL | MODULATION TECHNIQUES | | | | | Total Hrs | | 9+3 | |
| | | SK, Binary PSK, DPSK, Differer | | | | QPSK | K, Binary FSI | <, Duob | inary enc | oding – |
| | | mparison of various systems of ND DATA TRANSMISSION | Digital IV | iodula | tion. | | Total Hrs | | 9+3 | |
| Sampling Aliasing | g theor , Discr | em, Quadrature sampling of b ete PAM signals, ISI Nyquist nd M-ary PAM systems. | | | | | uction of me | | rom its s | |
| 5 SI | PREAD | SPECTRUM AND MULTIPLE | ACCESS | | | | Total Hrs | | 9+3 | |
| Introduct | spectrur | eudo-noise sequence, DS spr n, multiple access techniques, | | | | | | | | |
| Total ho | urs to b | e taught | | | | | | | 60 | |
| Text boo | ok (s) : | | | | | | | | | |
| | | Fomasi, "Electronic Communic n, 2007. (UNIT I Chapters – 3, 4 | | | | | | | anced", F | Pearson |
| 2 Si | | aykin, Digital Communications | | | | | | | ers 3,4; | UNIT V |
| Reference | . , | | | | | | | | | |
| | | aykin, Communication Systems | | | | | | | | |
| | | chilling, Principles of Communi | • | | | | | | | |
| | | Roden, Analog and Digital Com | | - | | | | | | |
| 4 BI | lake, El | ectronic Communication Systen | ns, Thom | son D | elman | , 2 ^{na} € | edn., 2005. | | | |

| | K.S. | Rangasamy College of Tecl | nnology | - Auto | nomo | us Re | gulation | | R 20 | 800 |
|---------------------|----------|--|------------|---------|---------|---------|----------------|-------------|------------|-----------|
| Depart | ment | Information Technology | Progra | amme | Code | &Nam | e | | .Tech. | |
| | | | | | | | In | formation | Technol | ogy |
| | | | Sem | ester | | | | | | |
| Course | Code | Course Name | | | urs / W | | Credit | | kimum Ma | - |
| | | | | L | Т | Р | С | CA | ES | Total |
| 082103 | 306C | ADVANCED C & C++ | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objecti | ve(s) | Since C and C++ play a pro objectives can be achieved understand the concepts of C++. | d after st | udying | g this | subjed | ct, review of | advance | d feature | es of C, |
| 1 | ADVA | NCED C | | | | ٦ | otal Hrs | | 9 | |
| Review | of Point | ters, Structures, Unions and F | ile Opera | ations | – Simp | ole Ap | olications. | | | |
| 2 | OVEF | RVIEW OF C++ | · · · | | | 1 | otal Hrs | | 9 | |
| Principle | | Dject-Oriented Programming - C++. | - Beginnir | ng with | n C++ · | - Toke | ns, Expressio | ons and C | Control St | ructures |
| 3 | | CEPTS OF OBJECT-ORIENT GRAMMING | ED | | | 1 | otal Hrs | | 9 | |
| | | Objects – Function Overloa Theritance | ading, Co | ору С | Constru | uctors | and Defaul | t argume | ents (| Operator |
| 4 | | TERS AND FILE OPERATIO | NS | | | ٦ | otal Hrs | | 9 | |
| | | ences and Dynamic Memory sics: C++ Streams , Formatted | | | | - Virtu | al Functions | and Poly | morphisr | n – C++ |
| 5 | | TIONAL FEATURES | | | | ٦ | otal Hrs | | 9 | |
| Templat Strings. | es – E | xception handling – Standa | rd Temp | late L | ibrary: | Over | view, Contai | ner Class | s, Vector | s, Lists, |
| | urs to b | e taught | | | | | | | 45 | |
| Text boo | ok (s) : | | | | | | | | | |
| 1 | Yasha | avant Kanetkar, "Let us C", Bl | PB Public | ations | , 2006 | | | | | |
| 2 | Herbe | ert Schildt, "The Complete Re | ference C | ;++", T | ata Mo | Graw | Hill, Fourth E | Edition 20 | 08. | |
| Referen | ce : | · · | | | | | | | | |
| 1 | | agurusamy, "Object Oriented | Program | mina | with C- | ++". Ta | ata McGraw I | Hill. Fourt | h Edition | 2008. |
| - | = ~ | <u> </u> | - 3 | .9 | | , . | | , | | |

| K.: | S.Rangasamy College of Techn | ology - A | Auton | omou | s Reg | ulation | | | 800 |
|---|---|---|-------------------------------------|--------------------------|--------------------------|-------------------------------|----|---------------------|-------|
| Department | Information Technology | Progra | amme | Code | &Nan | ne I | | B.Tech. n Techno | logy |
| | | Seme | ster II | | | | | | |
| Course Code | Course Name | | Hou | rs / W | eek | Credit | | aximum N | larks |
| | | | L | Т | Р | С | CA | ES | Tota |
| 08210307P | DIGITAL AND HARDWARE | | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Design an Design an Design an Design an Design an Design an Study of N Study of S (i) Configure problem (ii) a. Inst | Id implementation of combination ad implementation of 4-bit binary a ad implementation of magnitude of ad implementation of application u ad implementation of Shift register ad implementation of Asynchronoo Aotherboard. | adder / si comparate ising mul rs. us and S | ubtraci or. tiplexe ynchrc | or usi rs and nous | ng MS d dem counte | 31 devices. ultiplexers. ers. | | 5. | |
| c. Ma: 10. (i) Printer i | ster / Slave / IDE Devices installation a. Install and Configure Dot-ma b. Trouble shoot the above prin | | Laser | printe | r | | | | |
| (ii) Install A | udio / Video devices a. Microphone Speaker Heads | et and W | eb car | nera | | | | | |
| | and configure Scanner a 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 ndows XP-Operating System Insta ntify 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 | | | | | | |

| n.ə. | Rangasamy College of Techn | ology - A | Auton | omou | s Reg | ulation | | R 20 | 800 |
|--|--|-----------|----------|--------|-------|---------|-------------------|-------------------|---------|
| Department | Information Technology | Progra | mme | Code | &Nam | ie Inf | 21: B ormation | .Tech. Technol | ogy |
| | | Semes | ster III | | | | | | |
| Course Code | Course Name | | Hou | rs / W | eek | Credit | Max | kimum Ma | arks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210308P | DATA STRUCTURES LABORATORY | | | | | | | | 100 |
| Objective(s) | To teach the students to wr Abstract Data Types, write pro | | | | - | | | ta struct | ures as |
| Linked list i Array imple Linked list i Implement | mentation of List Abstract Data mplementation of List ADT mentations of Stack ADT mplementations of Stack ADT the application for checking 'Bal the application for checking 'Bal | lanced Pa | arenth | | | | | | |

| K.S | Rangasamy College of Techn. | ology - A | Auton | omou | s Reg | ulation | | R 20 | 800 |
|---|---|------------------------|------------------|----------------|---------|-------------|-----------|----------------------|------|
| Department | Information Technology | Progra | mme | Code | &Nam | le Inf | | 3.Tech. 1 Technol | ogy |
| | | Semes | ster II | | | | | | |
| Course Code | Course Name | | Hou | rs / W | /eek | Credit | Max | ximum M | arks |
| Course Code | Course Name | | L | Т | CA | ES | Total | | |
| 08210309P | ADVANCED C & C++ LABORATORY | 0 0 3 2 50 5 | | | | | | | 100 |
| I. Programs usi | ng C | | | | | | | | |
| | ng Structures with pointers ng File handling functions | | | | | | | | |
| II. Programs us | ing C++ | | | | | | | | |
| Implementation Simple Classion Classes with Classes with Program using Program using | sing Functions with default and o ion of Call by Value, Call by Ado ses for understanding objects, m primitive data members arrays as data members ng Operator Overloading including Function Overloading | Iress and nember fu | Call b nction | y Ref s, Co | nstruct | ors and Des | structors | | |
| 10. Program us 11. Multilevel Ir | | | | | | | | | |
| 12. Multiple Inh 13. Hierarchica | | | | | | | | | |
| 14. Hybrid Inhe | | | | | | | | | |
| 15. Program us | ing Virtual functions and Virtual | Base Cla | isses | | | | | | |

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.Ra | angasamy College of T | echnology A | uton | omou | ıs Re | gulat | ion | | | R 2008 |
|--------------|--|--|--|--|--|---|--|--|------------------------------------|--------------|
| Department | Information Technolo | gy Progr | amme | e code | e & Na | ame | | | 21: B.Te | |
| | | Ser | neste | · | | | | IIIIOIII | | echnology |
| | | | | urs/W | 'eek | Cr | edit | | Maximu | m Marks |
| Course Code | Course Nam | ne | L | Т | Р | | C | CA | ES | Total |
| 08210310P | COMPREHENSION - | II | 0 | 0 | 3 | | 0 | 100 | 00 | 100 |
| Objective(s) | i) To comprehend thii) To improve the te | chnical know | ledge | 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 discussid The staff will explain linking the keyword In a similar way the | ds are to be p handed over indling the su ion period (3 in and questions is. e students ha | orinted to ea bject i period on the ve to j | l in do ch stu n the ls/sen stude orepa | ouble ident curre neste ents u | colun for al nt se r) as ising emsel | nn (2x the su mester given t W' an | 50 word ubjects. r will han below. d 'H' typ | s) and ir ndle the be questi | ons |
| | The Schedule for Cond | duct of Comp | rehen | sion S | Subje | ct. | | | | |
| | Week | | | | | Ac | tivity | | | |
| | - | First 1½ I subject (No. | | | | | perio (No. o ts) | | ŀ | Hours |
| | W1 | S1 (2 | 2) | | | S2 | (2) | | | 3 |
| | W2 | S3 (2 | 2) | | | S4 | (2) | | | 3 |
| | W3 | S5 (2 | , | | | S6 | . , | | | 3 |
| Execution | W4 | Test-I (Po | rtion:2 | 2 units | s in ea | ach si | ubject) | | | 1 |
| | W5 | S1 (3 | | | | S2 | | | | 3 |
| | W6 | S3 (3 | | | | S4 | | | | 3 |
| | W7 | S5 (3 | 3) | | | S6 | (3) | | | 3 |
| | W8 | Test-II (Po | ortion: | 3 unit | s in e | ach s | ubject |) | | 1 |
| | W9 | | Di | scuss | sion | | | | | 3 |
| | W10 | Test-III | (All 5 | units a | and a | ll sub | ject) | | | 1 |
| | | | | Tota | l | | | | | 24 |
| | It is a two cred Only continuou Each test will o Component | us Assessme | nt (ĊA |) and | I No E | nd S amo | emest | er exam subject | | ective units |
| Evaluation | Test – I | | | | | • • | 25 | <u> </u> | | |
| | Test – II | | | | | | 25 | | | |
| | Test – III | | | | | | 50 | | | |
| | Total | | | | | | 100 | | | |
| S1 | 08210301S- Engineer | ing Mathema | tics III | | | | | | | |
| S2 | 08210302C - Signals | | | | | | | | | |
| S3 | 08210303C - Compute | • | | | | | | | | |
| S4 | 08210304C – Data Str | | ~ | | | | | | | |
| S5 | 08210305C - Principle | | nicatio | n | | | | | | |
| S6 | 08210306C - Advance | | noanc | | | | | | | |
| 00 | | | | | | | | | | |

| | K.S.R | angasamy College of Tech | nology - A | Auto | nom | ous Re | gulation | | | R 2008 |
|-----------------------------|-------------------------------------|--|------------------------|-------|--------|--------------|----------------|----------|--------------------|---------------|
| Depa | rtment | Information Technology | Progra | mme | e Cod | le & Nar | ne | | : B.Tec ion Tec | h. hnology |
| | | | Sem | este | r III | | | | | |
| 0 | o O o do | O surra a Marra | | H | ours/\ | Week | Credit | Ν | /laximur | n Marks |
| Cours | e Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 0821 | 0311P | CAREER COMPETENCY DEVELOPMENT I | | 0 | 0 | 2 | 0 | 100 | 00 | 100 |
| Objec | tive(s) | i. To improve the skill level o ii. To improve the employabi | | | 6 | | | | | |
| 1 | | le Skills | | | | | | | | Hrs |
| - Time b. Vert c. Non | and dista pal Reaso verbal Re | bility : Average - Numbers and ance - Trains bning : Series - Analogy - Cla basoning : Series – Analogy | - | | entag | e - Pro | fit & loss - T | ime and | d work | 8 |
| Arrays | guage : B and Strir | nming Skills asics of C - Data Types - Cor ngs - Structures and Unions | ditional a | nd L | .oopir | ng State | ments – Fu | nctions | - | 6 |
| | correctior | Communication Skills n in the usage of noun, pro n – Introduction to oral commu | | djec | tive, | Verb, A | dverb & P | repositi | ons – | 4 |
| Compi | Cheriolon | | inoution. | | | | | | | 0 |
| Evalua | tion I – V | /ritten Test | | | | | | | | 2 |
| 4 | | ommunication Skills | | | | | | | | |
| | | Two Minutes talk (each section Two minutes Extempore Spec | | | | | | ips of 2 | 2 | 2 2 |
| 5 | Technic | al Paper Presentation | | | | | | | | |
| Evalua | tion IV - | Technical Paper Presentation | n I (Assoc | iatio | n Ses | ssion) | | | | 8 |
| | | | | | | | | | Total | 32 |
| Refere | nce(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) (ui | nit – I) | | |
| 3 | (unit – I | | | | | | | n -1, 3, | 4, 5, 6, | 8, 9 and 10) |
| 4 | | uide by English Department of | KSRCT, | 200 | 8 (Un | nit — III, I | V & V) | | | |
| | 1 | CRITERIA | T | | | | | | | 1 |
| S.No. | Particul | | Test Po | | | | | | | Marks |
| 1 | Evaluat Written | Test | Unit I – Unit III - | | | , Unit II | – OQ – 30 | | | 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 | | P – 10 | Mark | ks, C | – 5 Mar | ks, Q – 5 | | | 20 |
| | esentatio | | ries C | Q - | Obje | ctive typ | e 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 |
|--------------------------------------|--|--|---|---|--|---|---|--|---|---|
| Depart | ment | Information Technology | Progra | amme | Code | &Nan | ne in | | B.Tech. | ~~·· |
| | | | Semes | | | | In | Iormatio | n Technol | ogy |
| | | | 0011100 | | rs / W | eek | Credit | Ma | aximum M | arks |
| Course | Code | Course Name | | L | Т | P | C | CA | ES | Total |
| 082104 | 401C | PROBABILITY AND STATIST | ICS | 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 function 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 knowl ems, be ic judgme | oundec e skills lom va edge o exposi ents in | knov in ha iriable of stat ed to s the fa | vledge andling s, be istical statisti ace of | e of standar g situations introduced techniques cal methods | d distrib involvin to the n useful i designe | utions wh g more th otion of s n making ed to conti | nich 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 rties. | | | | | | | | |
| 2 | | DARD DISTRIBUTIONS & WAV | ELET TF | RANSF | ORM | S | Total Hrs | | 9+3 | |
| Introduc (t)-Haa 3 Joint di | tion to v ar Wave TWO D stributio | d their properties. vavelet transforms-Definition-Di let function (t) – Orthogonality DIMENSIONAL RANDOM VARI. ons - Marginal and conditiona of random variables - Central lin | of (t) and ABLES al distribu | d (t). utions | | | Total Hrs | | 9+3 | |
| 4 | | NG OF HYPOTHESIS | | | | | Total Hrs | | 9+3 | |
| Chi-squ | are and | butions – Testing of hypothesis F distributions - Tests for indep | | | | | Goodness o | | | ormal, t, |
| 5 | | N OF EXPERIMENTS | | | | | Total Hrs | | 9+3 | |
| - | | ance-One way classification-CR | D - I WO - | way c | iassifi | cation | і - КВО - La | tin squar | | |
| | | e taught | | | | | | | 60 | |
| Text boo 1 | Ross. 8) | S., "A first Course in Probabilit | • | | - | | | | · · | |
| 2 | | on. R. A., "Miller & Freund's F tion, Delhi, 2000. (Chapters 7, 8 | - | / and | Statis | tics fo | or Engineers | s", Sixth | Edition, I | Pearson |
| Referen | ce (s) : | | | | | | | | | |
| 1 | Scient | le, R. E., Myers, R. H. Myers I ists", Seventh Edition, Pearsons | s Educati | on, De | lhi , 20 | 002. | - | | - | |
| 2 | Hill, Ne | utz. S and Schiller. J, "Schaum ew Delhi, 1998. | | | | | - | | | |
| 3 | New D | , S.C, and Kapur, J.N., "Fundar oelhi, 1996. | | | | | | | | |
| 4 | | Daubechies, "Lectures on Wa)-89871-274-2. | velets", | Societ | / for I | ndust | rial and Ap | plied Ma | athematics | s, 19 <mark>92</mark> , |

| K.S.I | Rangasamy College of Techr | nology - | Auton | οποι | ıs Reç | gulation | | R 2 | 008 |
|---|---|---|---|---|---------------------------------------|--|--|---|---------------------------------|
| Department | Information Technology | Progra | amme | Code | &Nam | ne li | | B.Tech. n Techno | logy |
| | | Seme | ester I | V | | | - | | |
| Course Code | Course Name | | Hou | rs / W | eek | Credit | Ma | aximum N | larks |
| | | | L | Т | Р | С | CA | ES | Total |
| 08210402C | SOFTWARE ENGINEERING | - | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(s) | To be aware of Different life and specification, architectu strategies, project planning a | ural and | detail | ed de | esign | methods, i | | | |
| 1 SOFT\ | WARE PROCESS | | | | | Total Hrs | | 9 | |
| Component Ba Engineering Hie 2 REQU Requirement E Developing Use Scenario Base | v Of Processes – Process M sed Development. Agile Proc erarchy – Risk Management: R REMENT ANALYSIS ngineering: Tasks, Initiating T e Cases – Negotiating Required d Modeling – Data Modeling | cess – A Risk Ident The Requ ments – ' | gile M ificatio uireme Validat | iodels: <u>n – Ri</u> nts E ting R | : Adap isk Pro nginee equire | otive Softwa ojection – R Total Hrs ering Proce ments – Bu | are Devel isk Refine ss, Eliciti ilding The | opment - ement. 9 ng Requi e Analysis | - System rements, Models: |
| Behavioral Mod 3 SOFT | el. VARE DESIGN | | | | | Total Hrs | | 9 | |
| Architectural De and Design. Ch | ts – Design Models – Pattern esign and Patterns – Mapping nange Management. VARE TESTING | | | | | | | | |
| Software Testir Validation Test Structure Testir | ng – Strategies – Issues – Te ing – System Testing – Tes ng – Black Box Testing – Testir | ting Tact ng GUI – | tics: V | Vhite | Box T | ional And (esting, Bas rver – Test I | sis Path | iented So Testing - tation. | |
| | VARE PROJECT MANAGEME | | | | | Total Hrs | | 9 | |
| Techniques: So Example of FF Reverse Engine | | sed Estir | mation | – Ar | n Exa | mple of LC | C Based | l Estimati – Reenç | ion – An |
| Total hours to b | e taught | | | | | | | 45 | |
| Text book : | 0.0 | | | | | | | | |
| 1 Roger 2005. | S. Pressman., Software Engi | neering: | A Pra | ctition | ier's A | opproach (S | ixth Editi | on), McG | araw Hill, |
| Reference (s) : | | | | | | | | | |
| 1 I.Somm | nerville, Software Engineering, | V Editior | n: Add | lison V | Vesley | y, 1996. | | | |
| 2 Pankaj | Jalote- An Integrated Approac | h to Soft | | | | Contingent | orlog 100 | 7 | |
| | Jalote- An integrated Appload | | ware E | Ingine | ering, | Springer v | enay, 19 | 97. | |
| 3 James | F Peters and Witold Pedryez, ns, New Delhi, 2000. | | | • | • | | • | | hn Wiley |

| n.: | 6.Rangasamy College of Techr | ology - A | Auton | omou | s Reg | ulation | | R 20 | 800 |
|---|--|--|---|---|---|---|------------------------------------|--|--------------------------------|
| Department | Information Technology | Progra | amme | Code | &Nam | ne Inf | | 5.Tech. Technol | ogy |
| | | Semes | ster IV | / | | | | | |
| Course Code | Course Name | | Hou | irs / W | /eek | Credit | Max | kimum M | arks |
| Course Coue | | | L | Т | Р | С | CA | ES | Total |
| 08210403C | INFORMATION CODING TECHNIQUES | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(s) | To have a complete under decoding of digital data streat their decoding techniques, h techniques, introduce the con | ams, intro ave a de | oduce tailed | metho know | ods fo ledge | r the genera of compres | ation of t | hese co | des and |
| _ | MATION ENTROPY FUNDAME | - | | | | Total Hrs | | 9 | |
| | formation and Entropy – Sourc | | | | | | | | |
| 2 DATA | ory less channels – channel capa AND VOICE CODING | acity – ch | annei | coain | gineo | orem – Chan Total Hrs | nei capa | city i neo 9 | orem. |
| | lse code Modulation – Adaptive | Differentia | al Puls | se Coo | de Mo | | daptive s | ubband o | codina - |
| Delta Modulati | on – Adaptive Delta Modulation | | | | | at low bit rate | | | |
| 3 ERRO | R CONTROL CODING | | | | | Total Hrs | | 9 | |
| Linear Block | coaes – Synarome Decoaing – | - Minimui | m dist | ance | consid | deration – c | vclic cod | des – Ge | enerato |
| Polynomial – codes. | codes – Syndrome Decoding – Parity check polynomial – Enco RESSION TECHNIQUES | | | | | | | | |
| Polynomial – <u>codes.</u> 4 COMF Principles – T | Parity check polynomial – Enco RESSION TECHNIQUES ext compression – Static Huffr | der for c | yclic c ng – | odes Dynar | - calo | Total Hrs | yndrome | – Convo 9 hmetic c | olutiona |
| Polynomial – codes. 4 COMF Principles – T Image Compr | Parity check polynomial – Enco RESSION TECHNIQUES ext compression – Static Huffr ession – Graphics Interchange | der for c | yclic c ng – | odes Dynar | - calo | Total Hrs | yndrome | – Convo 9 hmetic c | olutiona |
| Polynomial – codes. 4 COMF Principles – T Image Compr Introduction to | Parity check polynomial – Enco RESSION TECHNIQUES ext compression – Static Huffr ession – Graphics Interchange JPEG standards. | der for c | yclic c ng – | odes Dynar | - calo | Total Hrs Ifman codir File Format | yndrome | – Convo 9 hmetic c | olutiona |
| Polynomial – codes. 4 COMF Principles – T Image Compr Introduction to 5 AUDIC | Parity check polynomial – Enco RESSION TECHNIQUES ext compression – Static Huffr ession – Graphics Interchange JPEG standards. O AND VIDEO CODING | nan Codi format – | yclic c ng – · Tagg | odes Dynar Jed Im | – calo nic Hu nage F | Total Hrs uffman codir File Format Total Hrs | ng – Arit – Digitiz | - Convo 9 hmetic c ed docur 9 | olutiona oding - ments - |
| Polynomial – codes. 4 COMF Principles – T Image Compr Introduction to 5 AUDIC Linear Predicti | Parity check polynomial – Enco RESSION TECHNIQUES ext compression – Static Huffr ession – Graphics Interchange JPEG standards. | der for contraction of the second sec | yclic c ng – · Tagg ual coo | Dynar Jed Im ding, N | – calo mic Hu nage F | Total Hrs uffman codir File Format Total Hrs audio coder | ng – Arit – Digitiz | - Convo 9 hmetic c ed docur 9 | olutiona oding - ments - |
| Polynomial – <u>codes.</u> 4 COMF Principles – T Image Compr Introduction to 5 AUDIC Linear Predict Video compresent | Parity check polynomial – Enco RESSION TECHNIQUES fext compression – Static Huffr ession – Graphics Interchange JPEG standards. O AND VIDEO CODING ve coding – code excited LPC – ssion – Principles – Introduction | der for contraction of the second sec | yclic c ng – · Tagg ual coo | Dynar Jed Im ding, N | – calo mic Hu nage F | Total Hrs uffman codir File Format Total Hrs audio coder | ng – Arit – Digitiz | - Convo 9 hmetic c ed docur 9 | olutiona oding - ments - |
| Polynomial – <u>codes.</u> 4 COMF Principles – T Image Compr Introduction to 5 AUDIC Linear Predict Video compres Total hours to Text book (s) : | Parity check polynomial – Enco RESSION TECHNIQUES ext compression – Static Huffr ession – Graphics Interchange JPEG standards. O AND VIDEO CODING ve coding – code excited LPC – ssion – Principles – Introduction be taught | nan Codi format – Perceptu to H.261 | yclic c ng – Tagg ual coo & MPE | bynar Jed Im ding, N | – calo mic Hu nage F MPEG deo sta | Total Hrs uffman codir File Format Total Hrs audio coder andards. | ng – Arit – Digitiz s – Dolb | - Convo 9 hmetic c ed docur 9 y audio c | olutiona oding - ments - |
| Polynomial – <u>codes.</u> 4 COMF Principles – T Image Compr Introduction to 5 AUDIC Linear Predict Video compres Total hours to Text book (s) : | Parity check polynomial – Enco RESSION TECHNIQUES fext compression – Static Huffr ession – Graphics Interchange JPEG standards. AND VIDEO CODING ve coding – code excited LPC – ssion – Principles – Introduction be taught | nan Codi format – Perceptu to H.261 | yclic c ng – Tagg ual coo & MPE | bynar Jed Im ding, N | – calo mic Hu nage F MPEG deo sta | Total Hrs uffman codir File Format Total Hrs audio coder andards. | ng – Arit – Digitiz s – Dolb | - Convo 9 hmetic c ed docur 9 y audio c | olutiona oding - ments - |
| Polynomial – codes. 4 COMF Principles – T Image Compr Introduction to 5 AUDIO Linear Predicti Video compres Total hours to Text book (s) : 1 Simon 2 Fred F | Parity check polynomial – Enco RESSION TECHNIQUES ext compression – Static Huffr ession – Graphics Interchange JPEG standards. O AND VIDEO CODING ve coding – code excited LPC – ssion – Principles – Introduction be taught | nan Codi format – Perceptu to H.261 | yclic c ng – · Tagg Jal coo & MPE | Dynar Jed Im ding, N EG Vic | – calo mic Hu nage F MPEG deo sta | Total Hrs uffman codir File Format Total Hrs audio coder andards. 4 th Edition, 2 | ng – Arit – Digitiz s – Dolb | - Convo 9 hmetic c ed docur 9 y audio c 45 | oding - nents - coders - |
| Polynomial – codes. 4 COMF Principles – T Image Compr Introduction to 5 AUDIC Linear Predict Video compres Total hours to Text book (s) : 1 Simon 2 Fred H Educa Reference (s) | Parity check polynomial – Enco RESSION TECHNIQUES fext compression – Static Huffr ession – Graphics Interchange JPEG standards. O AND VIDEO CODING ve coding – code excited LPC – ssion – Principles – Introduction be taught Haykin, "Communication System falsall, "Multimedia Communicat tion, Asia 2002; Chapters: 3, 4, 5 | der for contract of the second | yclic c ng – Tagg Jal coo & MPE Wiley Dicatio | bynar John John Strand John Strand Strand Strand Strand Strand Strand John Strand Stra | – calo mic Hu nage F MPEG deo sta | Total Hrs uffman codir File Format Total Hrs audio coder andards. 4 th Edition, 2 | ng – Arit – Digitiz s – Dolb | - Convo 9 hmetic c ed docur 9 y audio c 45 | oding - nents - coders - |
| Polynomial – codes. 4 COMF Principles – T Image Compr Introduction to 5 AUDIC Linear Predicti Video compres Total hours to Text book (s) : 1 Simon 2 Fred H Educa Reference (s) 1 Mark N | Parity check polynomial – Enco RESSION TECHNIQUES ext compression – Static Huffr ession – Graphics Interchange JPEG standards. O AND VIDEO CODING ve coding – code excited LPC – ssion – Principles – Introduction be taught Haykin, "Communication System lalsall, "Multimedia Communicat tion, Asia 2002; Chapters: 3, 4, 5 Nelson, "Data Compression Book | nan Codi format – Perceptu to H.261 ns", John ions, App 5. | yclic c ng – Tagg ual coo & MPE Wiley Dicatio | Dynar Jed Im ding, N EG Vic | – calo mic Hu nage F MPEG deo sta | Total Hrs uffman codir File Format Total Hrs audio coder andards. 4 th Edition, 2 th s Protocols | ng – Arit – Digitiz s – Dolb | - Convo 9 hmetic c ed docur 9 y audio c 45 | oding - nents - coders - |
| Polynomial – codes. 4 COMF Principles – T Image Compr Introduction to 5 AUDIC Linear Predicti Video compres Total hours to Text book (s) : 1 Simon 2 Fred H Educa Reference (s) 1 Mark N | Parity check polynomial – Enco RESSION TECHNIQUES fext compression – Static Huffr ession – Graphics Interchange JPEG standards. O AND VIDEO CODING ve coding – code excited LPC – ssion – Principles – Introduction be taught Haykin, "Communication System falsall, "Multimedia Communicat tion, Asia 2002; Chapters: 3, 4, 5 | nan Codi format – Perceptu to H.261 ns", John ions, App 5. | yclic c ng – Tagg ual coo & MPE Wiley Dicatio | Dynar Jed Im ding, N EG Vic | – calo mic Hu nage F MPEG deo sta | Total Hrs uffman codir File Format Total Hrs audio coder andards. 4 th Edition, 2 th s Protocols | ng – Arit – Digitiz s – Dolb | - Convo 9 hmetic c ed docur 9 y audio c 45 | oding - nents - coders - |

| | K.S. | Rangasamy College of Techn | ology - A | Auton | omou | s Reg | ulation | | R 2 | 008 |
|---------|---------------------|---|------------|----------|---------|---------|---------------|-----------|-----------|----------|
| Depa | artment | Information Technology | Progra | amme | Code | &Nam | ie laf | | .Tech. | |
| • | | 0,7 | Semes | | | | Inf | ormation | Technol | ogy |
| | | | Semes | | | / l. | One alit | Max | | |
| Cours | se Code | Course Name | | | rs/W | | Credit | | kimum M | 1 |
| | | | | L | T | Р | C | CA | ES | Total |
| 0821 | 0404C | JAVA PROGRAMMING | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objeo | ctive(s) | Understand the concepts or Applications and applets, intr network programs in Java. | | | | | | | | |
| 1 | JAVA II | NTRODUCTION | | | | | Total Hrs | | 9 | |
| Metho | ds, Inheri | | and arra | ays, C |)perat | ors, C | | ments, C | | Objects, |
| 2 | JAVA C | ONCEPTS | | | | | Total Hrs | | 9 | |
| Packa | ges and I | nterfaces, Exception handling, I | Multithrea | aded p | rograi | mming | , Strings. | | | |
| 3 | PACKA | GES | | | | | Total Hrs | | 9 | |
| Lang p | backages | , Util packages – The Collection | s Frame | work, l | /O pa | ckage | s, Net work p | oackage. | | |
| 4 | INTRO | DUCTION TO AWT | | | | | Total Hrs | | 9 | |
| Applet | ts Packag | e, Event handling, Introducing t | he AWT: | worki | ng wit | h wind | ows, Graphi | cs and T | ext. | |
| 5 | AWT P | ACKAGE AND DATABASE CO | NECTIV | /ITY | | | Total Hrs | | 9 | |
| Using | AWT con | 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) : | - | | | | | | I | | |
| 1 | | Schildt, "The complete Refeny, 2006. | rence – | Java | 2", f | ifth ea | dition, Tata | McGraw | Hill Pu | blishing |
| 2 | | eitel, P.J. Deitel "JAVA [™] How to | 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. | base pi | rogran | nming | with | JDBC", Sec | ond Edit | ion, Drea | am tech |

| K.S.F | Rangasamy College of Techno | ology - A | utono | mous | Regu | lation | | R | 2008 |
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| Department | Information Technology | Progra | amme | Code | &Nam | e Inf | 21: B ormation | .Tech. Techn | ology |
| | <u> </u> | Semester | IV | | | | ormation | TCOINT | ology |
| | | | | urs/We | ek | Credit | Max | kimum I | Marks |
| Course Code | Course Name | | L | Т | Р | C | CA | ES | Total |
| 08210405S | DIGITAL SIGNAL PROCESSI (Common to CSE & IT) | - | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| Objective(s) | To have an overview of signals design of FIR filters , the effect | | | | | | | of IIR filt | ters, the |
| | AND SYSTEMS | | | | - | otal Hrs | | 12 | |
| -Sampling theore Z transform -Conv | digital signal Processing –Cono m –Discrete time signals. Discre- volution and correlation. | | | | alysis | of Linear t | | riant sy | |
| | URIER TRANSFORMS T – Efficient computation of DF | C Dropert | | | - | otal Hrs | Podiv (| 12 | aimation |
| | tion in Frequency algorithms. | r Propent | les of | JF I - | FFI | aigoninns | | 2 – Dec | cimation |
| | R DESIGN | | | | Т | otal Hrs | | 12 | |
| | - System Design of Discrete tir e. Bilinear transformation – App | | | | | is time filte | er – IIR i | filter de | esign by |
| | R DESIGN | | | anvec | | otal Hrs | | 12 | |
| | isymteric FIR filters – Linear ire for FIR systems. | phase fil | ter – | Windo | owing | technique | - Recta | angular | , Kaiser |
| | ORD LENGTH EFFECTS IN DIC | GITAL FIL | TERS | ; | Т | otal Hrs | | 12 | |
| rounding, Input c Application of DSI | tation – types, Quantization No juantisation ever – steady sta P – Model of speech wave form | ite input | noise | | | | | | |
| Total hours to be t | aught | | | | | | | 60 | |
| Text book (s) : | | | | | | | | | |
| 1 John G I Applicatio | Proakis and Dimtris G Manola n", PHI/Pearson Education, 200 | akis, "Di <u>ç</u> 0, 3 rd Edi | gital S tion. | ignal | Proce | ssing Prin | ciples, A | Algorith | ms and |
| Reference(s): | | | | | | | | | |
| PHI/Pears | Dppenheim, Ronald W Schafe on Education, 2000, 2 nd Edition | | | | | | Ũ | | . |
| 2 2002. | ohnson, "Introduction to Digital | • | | • | | | | | |
| 3 Sanjit K.I Second E | Mitra, "Digital Signal Processing dition. | g: A Com | puter | – Bas | ed Ap | proach", T | ata McG | iraw-Hi | ll, 2001, |

| | K.S. | Rangasamy College of Tech | nology - A | uton | omou | s Reg | ulation | | R 20 | 800 |
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| Depar | tment | Information Technology | Program | nme (| Code 8 | Nam | e Inf | 21: B. ormation | | ogy |
| | | | Semest | er IV | | | | | | |
| Course | Codo | Course Nome | | Ηοι | rs / W | 'eek | Credit | Max | imum Ma | arks |
| Course | Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210 | 406C | MICROPROCESSORS AND MICROCONTROLLERS | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Object | | To study the architecture ar programs in 8085 and 808 different peripheral devices programming of 8051 micro | 36, design and their | and ι | Inders | tand | multiprocess 85/8086, stu | or config | jurations rchitectu | , study |
| 1 | | 85 MICROPROCESSOR | | | | | Total Hrs | | 9 | |
| Introduc | | 085-Microprocessor architect | ure-Instruct | ion se | t-Prog | Iramm | • | -Timing I | Diagram | |
| 2 | 8086 S | OFTWARE ASPECTS | | | | | Total Hrs | | 9 | |
| | ge Progra | processor –Architecture-Instru amming-Interrupts and interru | | | | ler dir | | essing m | odes-As | sembly |
| 3 | 8086 S` | YSTEM DESIGN | | | | | Total Hrs | | 9 | |
| | ations-N | and timing –MIN/MAX mo umeric Processor and Coproc | | eratior | -Addr | essin | | and I/O | -Multipro | cessor |
| 4 | | ERFACING | | | | | Total Hrs | | 9 | |
| | rd/Displa | ng and I/O interfacing-Paralle y controller-Interrupt controlle | | | | ace-S | | nication i | nterface | -Timer- |
| 5 | MICRO | CONTROLLERS | | | | | Total Hrs | | 9 | |
| Applicat | tion. | 8051-Signals-Operational fe | atures- Ins | structio | on se | t-Merr | nory and I/C |) Addres | sing-Inte | errupts- |
| | ours to be | e taught | | | | | | | 45 | |
| | ok (s) : | | | | | | | | | |
| Text bo | | | | | | | | | with the | 8085" |
| 1 | Penram (UNIT - | n S.Goankar, "Microprocesso International publishing priva I:-Chapters 3, 5, 6 and progra | ate limited, f amming exa | ifth ea ample: | lition, s from | 2002. chap | ters 7-10) | | | |
| 1 | Penram (UNIT - A.K.Ray and Inte | International publishing priva | ate limited, f amming exa ed Micropro | ifth economic ample: cocess | lition, <u>s from</u> ors an | 2002. <u>chap</u> d per | ters 7-10) ipherals-Arcl | | | |
| 1 | Penram (UNIT – A.K.Ray and Inte | International publishing priva I:-Chapters 3, 5, 6 and progra &K.M.Bhurchandi", Advance erfacing", TMH, 2002 reprint.(I | ate limited, f amming exa ed Micropro UNIT II to IV | ifth ec ample: ccesso /:-Cha | lition, <u>s from</u> ors an apters | 2002. <u>chap</u> d per <u>1-6,7</u> | ters 7-10) ipherals-Arcl .1-7.3,8,16) | hitectures | s, Progra | mming |
| 1 | Penram (UNIT – A.K.Ray and Inte ice (s) : Douglas 2002. | International publishing priva I:-Chapters 3, 5, 6 and progra &K.M.Bhurchandi", Advance rfacing", TMH, 2002 reprint.(I s V.Hall, "Microprocessor and | ate limited, f amming exa ed Micropro UNIT II to IV d Interfacin | ifth ec ample: ocesso /:-Cha g" Pro | lition, <u>s from</u> ors an apters ogram | 2002. <u>chap</u> d per <u>1-6,7</u> ming | ters 7-10) ipherals-Arcl 1-7.3,8,16) and Hardwa | hitectures re". TMF | s, Progra | edition, |
| 1 2 Referen | Penram (UNIT – A.K.Ray and Inte ice (s) : Douglas 2002. Yu-cher | International publishing priva I:-Chapters 3, 5, 6 and progra &K.M.Bhurchandi", Advance erfacing", TMH, 2002 reprint.(I | ate limited, f amming exa ed Micropro UNIT II to IV d Interfacin licroprocess | ifth ec ample: ocesso /:-Cha g" Pro | lition, <u>s from</u> ors an apters ogram | 2002. <u>chap</u> d per <u>1-6,7</u> ming | ters 7-10) ipherals-Arcl 1-7.3,8,16) and Hardwa | hitectures re". TMF | s, Progra | edition, |

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| Department | Information Technology | Programme | Code | &Name | e In | 21: B.Tech. Information Technology | | logy |
| | | Semester IV | / | | | | | |
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| Course Code | Course Name | L | Т | Р | С | CA | ES | Tota |
| 08210407P | JAVA PROGRAMMING LABORATORY | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Program to il Program to ir Program usir Program usir Program to a Program to ir Program usir | | and overriding. ces and packag sm. | | oidance | | | | |
| Program usir Program usir | • | | | | | | | |
| • | ing Net package | | | | | | | |

Program using Net package.
 Program using JDBC.

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| Department | Information Technology | Program | nme | Code | &Nam | ne In | 21: E formatior | 3.Tech. n Techno | logy |
| | | Semester | Semester IV | | | | | | |
| a a i | | | Hou | rs / W | eek | Credit | Maximum Marks | | |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Tota |
| 08210408P | DIGITAL SIGNAL PROCESSING LABORATORY | 3 | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Program of Program of Program of Program of Z & Invers Implement IIR filter de IIR filter de Butterwort Chebyshe FIR filter de IIR filter st IIR filter st | | | | | | | | | |

* It should be done in extra lab

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| Department | Information Technology | Progra | amme | Code | &Nam | ne Inf | | 3.Tech. 1 Technol | ogy |
| | | Semes | ster I\ | / | | | | | |
| Course Code | Course Norse | | Ηοι | irs / W | /eek | Credit | Max | ximum M | arks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210409P | MICROPROCESSORS AND MICROCONTROLLERS LABORATORY | | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Addition / Su | | | | Ũ | | | | | |
| 3. Programming 4. 8086 Micropr | g with 8085-code conversion, de g with 8085-matrix multiplication rocessor based experiments-Sir | nple asse | embly | langu | age pr | | | | |
| 6. Interfacing w | ith 8085/8086-8255 Parallel Cor ith 8085/8086-8253 Timer Interf ith 8085/8086-8279 Keyboard D | ace. | | | e. | | | | |
| - | ith 8085/8086-8251Serial Com | | | | | | | | |

9. 8051 Microcontroller based experiments-Simple assembly language programs.

10. 8051 Microcontroller based experiments-Simple control applications.

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| Department | Information | Pro | gram | | ode & | | | 21: B.T | |
| | Technology | | | ame | N / | | Infor | mation T | echnology |
| | - | | Seme | | | - | n | | |
| Course Code | Course Name | Ð | Но | urs/W | eek | Credit | | | num Marks |
| | | | L | Т | Р | С | CA | ES | Total |
| 08210410P | COMPREHENSION - | | 0 | 0 | 3 | 0 | 100 | 00 | 100 |
| Objective(s) | i) To comprehend t ii) To improve the to | echnical kr | nowlee | dge o | f the s | students. | (5 | -ite - 10 | |
| Methodology | For each subject 2 are to be prepared These 200 keywor pages and is to be The staff who is have respective discuss The staff will explain linking the keywor In a similar way th | I. ds are to be handed o andling the sion period ain and que ds. | pe prin ver ea subje (3 pe estion | nted in ach st act in riods/ the s | n doul udent the cu /seme tuden | ble column for all the urrent seme ster) as giv ts using 'W | (2x50 v subjects ester wil ven belc '' and 'H | vords) ar s. II handle w. I' type qu | nd in 2 the restions |
| | The Schedule for Con | duct of Co | mpre | hensi | on Su | biect. | o loi ui | the Rey | |
| | Week | Acti | - | | | | | | |
| | | First 1½ subject uni | Perio (No.) | | | xt 1½ perio bject (No. o units) | | | Hours |
| | W1 | S1 | | | | S2 (2) | | | 3 |
| | W2 | S3 | (2) | | | S4 (2) | | | 3 |
| | W3 | | S5 (2) | | | S6 (2) | | | 3 |
| Execution | W4 | Test-I (P | ortion | :2 uni | its in e | each subje | ct) | | 1 |
| | W5 | S1 | | | | S2 (3) | , | | 3 |
| | W6 | S3 | • • | | | S4 (3) | | | 3 |
| | W7 | S5 | • • | | | S6 (3) | | | 3 |
| | W8 | | . , | n:3 ur | nits in | each subje | ect) | | 1 |
| | W9 | | | Discu | | ,- | | | 3 |
| | W10 | Test-II | | | | all subject) | | | 1 |
| | | 163131 | . (7 | Tot | | | | | 24 |
| | It is a two creater | hit (2 hro h | voola) | | | | <u> </u> | | L T |
| | Only continuo | us Assess | ment | (CA) | and N | lo End Sen | nester e | | on. respective units |
| | Component | | | | | | ghtage | | |
| Evaluation | Test – I | | | | | | 25 | | |
| | Test – II | | | | | : | 25 | | |
| | Test – III | | | | | | 50 | | |
| | Total | | | | | | 00 | | |
| S1 | 08210401C – Probabi | lity and Sta | atistic | s | | | | | |
| | 08210402C - Softwar | | | | | | | | |
| | 08210403C - Informa | - | - | hniau | es | | | | |
| | 08210404C – Java Pr | | - | | | | | | |
| 04 | | | | | | | | | |
| | 08210405S – Digital S | | | a | | | | | |

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| Depai | rtment | Information Technology | Prog | gram | me C | ode & N | Name | | 21: B.Te | ech. echnology |
| | | | Sem | neste | er IV | | | | | ciniology |
| | | | | | | Veek | Credit | | Maximu | m Marks |
| Course | e Code | Course Name | | L | Т | P | C | CA | ES | Total |
| 08210 | 0411P | CAREER COMPETENCY DEVELOPMENT II | | 0 | 0 | 2 | 0 | 100 | 00 | 100 |
| Objec | tive(s) | i. To improve the skill level of s ii. To improve the employability | | | s | | | | | |
| 1 | Aptitud | de Skills | | | | | | | | Hrs |
| interes b. Vert test - L c. Non | t - Comp bal Reas .ogic - St verbal Re | bility: Ratio and proportion - F ound interest - Alligation or mix oning: Coding and decoding - atement – Arguments - Stateme easoning: Analytical Reasoning | ture - A Blood ents - A | Area Rela Assui | tions mptio | - Puzzl ns | e Test - D | irections | • | 8 |
| 2 | | nming Skills | | | | | | | | |
| | | : Pointers - File Operations res : Linked List – Stack – Queu | ıe – So | rting | | | | | | 6 |
| 3 | | Communication Skills | | . 3 | | | | | | 4 |
| Error c | correctior | in the usage of conjunctions | s, Tens | es, \ | Voice | s & Si | ubject – v | erb Agre | ement | |
| (conco | ord) - Ess | ay Writing Vritten Test | | | | | - | Ũ | | 2 |
| 4 | | ommunication | | | | | | | | |
| Evalua | tion II, G | roup Discussion I | | | | | | | | 2 |
| | | Group Discussion II | | | | | | | | 2 |
| 5 | Technic | al Paper Presentation | | | | | | | | |
| Evalua | tion IV, | Technical Paper Presentation II | (Assoc | ciatio | n Ses | ssion) | | | | 8 |
| | | | | | | | | | Total | 32 |
| Refere | nce(s): | | | | | | | | | |
| 1 | | garwal ,"Quantitative Aptitude", 2, 16, 19, 20, 21, 22 & 24 (Unit - | | and a | & Co | mpany | Ltd., New | v Delhi, I | Reprint | 2007 (Twice) |
| 2 | R.S.Ag Ltd., Ne & 6) (Ur | garwal,"A Modern Approach w Delhi, 2008, Part I – Section hit – I) | to Verb I (Ch | - 4,5 | ,6 & 8 | B) Part I | - Section | II (Ch -1 | ,2 & 3) | Part II (Ch 4,5 |
| 3 | Yashav | ant Kanetkar, "Let us 'C' ", BPI | B Publi | catio | ns, N | ew Dell | hi, 2002, C | Ch - 5, 8, | 12 (Un | t – II) |
| 4 | (Unit – | len Weiss , "Data Structures an I) | - | | | | | n Educat | ion 200 | 2, (Ch -3,7) |
| 5 | CCD G | uide of English Department of K | SRCT | - 20 | 08 (U | nit III, I | V & V) | | | |
| EVALL | JATION | CRITERIA | | | | | | | | |
| S.No | Particu | ar | Test | Porti | ion | | | | | Marks |
| 1 | Evaluat Written | | | |)Q - : OQ 2 | | t II – OQ – | - 30 | | 50 |
| 2 | Evaluat | | | | | | arks, TS – | 5 Marks | | 15 |
| 3 | Evaluat | | P – 1 | 0 Ma | arks, | C – 5 N | larks, TS - | - 5 Marks | 6 | 15 |
| - | | | 1 | | | | | | | |
| 4 | Evaluat | ion IV cal Paper Presentation | P – 1 | 0 Ma | arks, | C – 5 N | larks, Q – | 5 | | 20 |

- 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.

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| Dep | partment | Information Technology | Program | | e & | | | 21: B. | | |
| | | 0, | Semest | ame | | | Inform | nation | Fechnolo | gy |
| | | | Semest | - | rs / We | o lí | Credit | | aximum | Morko |
| Cou | rse Code | Course Name | | L | T | Р | Credit | CA | ES | Total |
| 082 | 10501G | PROFESSIONAL ETHICS | | 3 | 0 | Р 0 | 3 | 50 | 50 | 100 |
| | | To create an awareness or | Ethics and | | • | v | | | | |
| | jectives | Students. | | | | | | • | | |
| | INTRODU | | | | | | tal Hrs | | 9 | |
| actio Gillig | n – Major an theory - | Engineering as a professio ethical issues – Three type Moral dilemmas – Moral aut | s of inquiry onomy – Val | - Kohl | berg's | stage | | | elopmer | |
| 2 | ENGINEEF | RING AS SOCIAL EXPERIME | ENTATION | | | То | tal Hrs | | 9 | |
| introc 3 Safet | duction, rule ENGINEEF ty and Risk | sultants and leaders – Acc es of practice and professiona RS RESPONSIBILITY FOR S - Types of risks – Safety a three mile Island disaster ca | al obligations SAFETY AND and the engir | <u>– The s</u> D RISK neer – I | space Design | shuttle To iing fo | e challeng tal hrs r safety - | per cas - Risk | e study. 9 | |
| | | IBILITIES AND RIGHTS | | | | | tal Hrs | | 9 | |
| Barga | aining – Co | vo senses of loyalty – Profess onfidentiality – Acceptance of | | | | | | | | ollective |
| | GLOBAL IS | | | | | - | tal Hrs | | 9 | |
| | | Cross Cultural Issues – Th Intellectual property rights (IP | | s trage | dy cas | e stu | dy – Com | nputer | ethics - | Weapons |
| Total | hours to b | e taught | | | | | | | 45 | |
| Text | book : | | | | | | | | | |
| | Govindaraj Delhi, 2005 | an M, Natarajan S, Senthil K 5. | umar V.S, "E | ngineer | ing Et | hics", | Prentice I | Hall of | India (P) | Ltd, New |
| Refe | rences: | | | | | | | | | |
| | Limited, Ne | lartin and Roland Schinzinge ew Delhi, 2007. | | Ū. | • | | | | Ū | |
| | Govindan I Chennai, 2 | K.R., and Sendhil Kumar S., 007. | "Professiona | I Ethics | s and I | Huma | n Values" | , Anura | adha Pul | blications, |

| | K.S. | Rangasamy College of Techn | ology - / | Auton | omou | s Reg | Julation | | R 20 | 008 |
|------------------------|----------------------|---|------------|---------|---------|---------|----------------|------------|--------------|---------|
| Departr | nont | Information Technology | Pro | gramr | ne Co | de & | | | .Tech. | |
| Departi | nem | mormation recinology | | - | me | | Inf | ormation | Technol | ogy |
| | | | Seme | | | | | | | |
| Course | Code | Course Name | | Hou | rs / W | eek | Credit | | kimum M | arks |
| | 0000 | | | L | Т | Р | С | CA | ES | Total |
| 082105 | 02C | OBJECT ORIENTED ANALYS AND DESIGN | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objectiv | /e(s) | To understand the Object O services and attributes throu Oriented Design process, kno | gh UML, | unde | rstand | the | use-case dia | agrams, I | | |
| 1 | INTRO | DUCTION | | | | | Total Hrs | | 8 | |
| An Over Developr | nent Lif | | | ment | - Ob | ject | Basics – O | bject Or | iented S | Systems |
| 2 | OBJE | CT ORIENTED METHODOLOG | GIES | | | | Total Hrs | | 12 | |
| Approach Collabora | n – Unif ation Di | hodology - Booch Methodolog ied Modeling Language – Use agram - State Diagram - Activit | case - Cl | ass Di | | | eractive Diag | | ckage Di | |
| 3 | | CT ORIENTED ANALYSIS | | | | | Total Hrs | | 9 | |
| Identifyin Methods. | | cases - Object Analysis - Cl | assificati | on — | dentif | ying | | onships | - Attribu | tes and |
| 4 | OBJE | CT ORIENTED DESIGN | | | | | Total Hrs | | 8 | |
| Design a | xioms - | Designing Classes – Access L | ayer - Ol | oject S | torage | e - Ob | ject Interope | rability. | | |
| 5 | SOFT | WARE QUALITY AND USABIL | ITY | | | | Total Hrs | | 8 | |
| Designin | g Interf | ace Objects – Software Quality | Assuran | ce – S | ystem | Usat | oility - Measu | ring Use | r Satisfac | ction. |
| Total hou | irs to be | e taught | | | | | | | 45 | |
| Text boo | k (s) : | | | | | | | | | |
| 1 | Ali Ba | hrami, "Object Oriented System | ns Develo | pmen | ť", Tat | a McC | Graw-Hill, 20 | 02 (Unit I | , III, IV, \ | /). |
| 2 | Martin | Fowler, "UML Distilled", Secor | d Editior | , PHI/ | Pears | on Ed | ucation, 200 | 2. (UNIT | II). | |
| Reference | e (s) : | | | | | | | | | |
| 1 | Steph | en R. Schach, "Introduction to (| Object Or | iented | Analy | /sis aı | nd Design", T | Fata McG | Fraw-Hill, | 2003. |
| 2 | | s Rumbaugh, Ivar Jacobson, al", Addison Wesley, 1999. | Grady | Booch | 1 "The | e Uni | fied Modelir | ng Langi | uage Re | ference |
| 3 | Hans- | Erik Eriksson, Magnus Penke hing Inc., 2004. | r, Brain | Lyons, | Davi | d Fac | lo, "UML To | olkit", Ol | MG Pres | s Wiley |

| | K.S.I | Rangasamy College of Tech | nnology - | Auto | nomo | us Re | gulation | | R 20 | 800 |
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| Departr | ment | Information Technology | Pro | | me Co ame | de & | Int | | B.Tech. n Technol | ogy |
| | | | Sem | nester | V | | | | | |
| Course | Codo | Course Code | | Ηοι | urs / W | 'eek | Credit | Ma | aximum Ma | arks |
| Course | Code | Course Code | | L | Т | Р | С | CA | ES | Total |
| 082105 | 03C | OPERATING SYSTEMS | | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| Objectiv | | To have an overview of di operating system have a knowledge of storage mana | thorough | know | ledge | of pro | ocess manag | gement, | have a t ns. | |
| 1 | | C CONCEPTS | | | | | Total Hrs | | 9+3 | |
| Clustered System Processe | d Syste Progra es – Inte | Aainframe systems – Desktems – ms – Real Time Systems – ms - Process Concept – F er-process Communication. | Handheld | Syste | ems- (| Operat | ting System Serations on F | Services | – System es – Coo | Calls – |
| 2 | | CESS MANAGEMENT | | | | | Total Hrs | | 9+3 | |
| Scheduli | ng Algo onizatio | erview – Threading issues prithms – Multiple-Processor on Hardware – Semaphores - ORY MANAGEMENT - I | Schedulir | ng – R | eal Tir | ne Scl | heduling - Th | | | |
| | | | | | <u>, ,</u> | | | | | |
| Deadlock | k avoid | Deadlock Characterization ance – Deadlock detection – nory allocation – Paging – See | Recover | y from | n Dead | llocks | - Storage Ma | anageme | | |
| 4 | | ORY MANAGEMENT - II | 0 | | | | Total Hrs | | 9+3 | |
| | ncept – | – Demand Paging – Proces Access Methods – Directory | | | | | | | | |
| 5 | | 'STEMS | | | | | Total Hrs | | 9+3 | |
| | anager | ucture – File System Implem nent. Kernel I/O Subsystems nent. | | | | | | | | |
| Total hou | urs to b | e taught | | | | | | | 60 | |
| Text boo | k : | | | | | | | | | |
| 1 | | am Silberschatz, Peter Bae n, John Wiley & Sons (ASIA) | | | Greg C | Bagne | , "Operating | System | Concepts | s", Sixth |
| Reference | ce (s) : | | | | | | | | | |
| 1 | | y M. Deitel, "Operating Syste | | | | | | | | |
| 2 | Andre | w S. Tanenbaum, "Modern C | Dperating | Syster | ms", P | rentice | e Hall of India | Pvt. Ltd | l, 2003. | |
| 3 | Williar | n Stallings, "Operating Syste | m", Prent | ice Ha | Ill of In | dia, 4 ^t | ^h Edition, 200 | 3. | | |
| 4 | Pramo 2003. | od Chandra P. Bhatt – "An | Introduction | on to | Opera | ting S | ystems, Con | cepts a | nd Practic | e", PHI, |

| K.S | Rangasamy College of Tec | hnology - | Autor | nomou | us Re | gulation | | R 2 | 008 |
|--------------------------------|---|-----------|---------|--------------|--------|--------------|-------------------|------------------|-----------|
| Department | Information Technology | Pro | 0 | ne Coo me | de & | Inf | 21: B ormation | .Tech. Techno | logy |
| | | Sem | ester \ | V | | | | | |
| Course Code | Course Name | | Ηοι | irs / W | eek | Credit | Max | kimum M | arks |
| Course Coue | Course Name | | 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 CO | OMMUNICATIONS | | | | | Total Hrs | | 8+3 | |
| OSI model – T | omponents and Categories –L ransmission Media – Coaxial | | | | | Coding – Mod | | | |
| | NK LAYER | | | | | Total Hrs | | 10+3 | |
| Stop and Wai 802.3 – IEEE 8 | ion and Correction – Parity – t – go back-N ARQ – Select 802.4 - IEEE 802.5 - FDDI - Bi | ive Repea | | | | indow – HDI | | - Etherr | |
| | RK LAYER | | | | | Total Hrs | | 9+3 | |
| Algorithms – D | Circuit Switching – Packet S Distance Vector Routing – Link | | | dressir | ng me | | netting – | Routers- | Routing |
| _ | ORT LAYER | | | | | Total Hrs | | 9+3 | |
| Transmission | nsport Layer – Multiplexing - Control Protocol (TCP) – Cong | | | | | | | | |
| | TION LAYER | | | | | Total Hrs | | 9+3 | |
| | e Space (DNS) – SMTP – F P-Access Authorization. | TP – HTI | P - V | /WW | – Sec | urity – Cryp | tography | -Privac | y–Digital |
| Total hours to | be taught | | | | | | | 60 | |
| Text book : | | | | | | | | | |
| | A. Forouzan, "Data commu Hill, Fourth Edition , 2006. | unication | and N | letwor | king | (MCGraw-Hil | I Forouz | an Netv | working", |
| Reference (s) | : | | | | | | | | |
| Fifth Editi | | • | | Ũ | • | | | | |
| ² Series in | eterson and Bruce S. Davie, " Networking, Fourth Edition,20 | 07. | | | • | | ch", The∣ | Morgan I | Kaufman |
| - | Tanenbaum, "Computer Net | | | | | | | | |
| 4 William S | tallings, "Data and Computer (| Communic | ation" | , Eight | h Edit | ion, Pearson | Educatio | n, 2007. | |

| K.S. | Rangasamy College of Tech | nology - A | utono | mous | Regu | lation | | R 20 | 008 |
|--|--|---|---------------------------------------|------------------------------------|---------------------------------------|---|---|---|---|
| Department | | | ramm | e Cod | _ | | | | |
| Department | information reenhology | | | ne | | Inf | formation | n Technol | ogy |
| | | Semes | | | r | | 1 | | |
| Course Code | Course Name | Course Name L T P C CA ASE MANAGEMENT MS 3 1 0 4 50 ASE MANAGEMENT MS 3 1 0 4 50 In the fundamentals of data models and to conceptualize and depict a data R diagram, make a study of SQL and relational database design, us storage structures using different file and indexing techniques whice I DB design, know the fundamental concepts of transaction processing techniques and recovery procedure, have an introductory knowled ing trends in the area of distributed DB- OO DB- Data mining and Data L. N AND CONCEPTUAL MODELING Total Hrs Database systems- Database system structure – Data Models – ER modora and Calculus. Total Hrs ADDEL Total Hrs Pares and Calculus. Total Hrs GDEL Total Hrs erries in SQL- Updates- Views-Integrity and Security - Relational Data schniques – Index Structure for files –Different types of Indexes- B-Tree - IMANAGEMENT - Introduction- Need for Concurrency control - Desirable properties o ability- Serializability – Concurrency Control – Types of Locks- Two F currency control – Recovery Techniques – Concepts- Immediate Upc databases - Need for Complex Data types - OO data Model- Nested relation areas of Complex Data types - OO data Model- Nested relation areas of XML- Data- XML Document- Schema- Querying and Transform using. schatz, Henry F. Korth and S | ximum Ma | 1 | | | | | |
| | | | L | Т | Р | С | CA | ES | Total |
| 08210505S | DATABASE MANAGEMENT SYSTEMS | | _ | • | - | | | 50 | 100 |
| Objective(s) | using ER diagram, make a internal storage structures physical DB design, know th control techniques and rec | study of S using differ ne fundame covery proc | SQL a rent fi ental c cedure | ind re le and oncep , hav | lationa d inde ots of t e an | l database xing techn ransaction introductor | e design iques w process ry know | , understa hich will sing- conc ledge ab | and the help in currency out the |
| 1 INTRO | | AL MODELI | NG | | | Total Hrs | | 9+3 | |
| Introduction to F | | | | structu | re – D | | s – ER m | | elational |
| | IONAL MODEL | | | | | Total Hrs | | 9+3 | |
| Functional depe | endencies - Normalization for F | Relational D | | | | CNF). | ational [| | design- |
| | | | | | | | | 9+3 | |
| | | | | | | | | | |
| 4 TRANS | SACTION MANAGEMENT | | ies –L | merer | n type: | | <u>- D- He</u> | <u>9+3</u> | e |
| Schedule and | Recoverability- Serializability used concurrency control – R | Concurre | ency (| Contro | I — Ту | pes of Lo | cks- Two | o Phase | locking- |
| | ENT TRENDS | | | | | Total Hrs | | 9+3 | |
| Types- Inherita data Storage – Mining and Data | nce Reference Types - Distr XML – Structure of XML- Data a Warehousing. | ibuted data | bases | - Hor | nogen | ous and H | leteroge | nous- Dis | tributed |
| Total hours to b | e taught | | | | | | | 60 | |
| Text book : | | | | | | | | | |
| | am Silberschatz, Henry F. Kort w-Hill, 2006. | h and S. Su | udarsh | ian - " | Databa | ase System | n Conce | ots", Fifth | Edition, |
| Reference (s) : | | | | | | | | | |
| Educat | ion, 2003. | | | | | - | - | | |
| 2003. | | Ū | | | | | | U U | |
| Pearso | n Education- 2000. | | | | | | - | • | |
| | Rob and Corlos Coronel- "I son Learning Course Technol | | | | | mplementa | ation an | d Manag | ement", |

| K.S | Rangasamy College of Techn | ology - / | Auton | omou | s Reg | ulation | | R 2 | 800 |
|---|--|-----------------------------------|--------------------------|-----------------|---------|-------------------------------|----------------------|----------------|-----------|
| Department | Information Technology | Pro | | | de & | Inf | | | ogy |
| | | Seme | ster V | | | | | | |
| Course Code | Course Name | | Hou | rs / W | eek | Credit | Ma | ximum M | arks |
| Semester V Course Code Course Name Hours / Week Credit Maximum Marks 08210506C TELECOMMUNICATION SYSTEMS 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 cellular communication systems and wireless technologies. 1 INTRODUCTION TO MICROWAVE AND RADARS Total Hrs 9 Transmission lines – Types and Characteristics, Antenna Fundamentals – Different types of antennas & their Characteristics, Radio Frequency wave propagation- Microwave –Principles, Devices (Reflex Klystron, Magnetron, TWT)-(Principles Only) Radar - Pulsed Radar - CW Radar (Principles and Block Diagram Only). 2 2 INTRODUCTION TO ATELLITE COMMUNICATION AND Total Hrs 9 Satellite orbits- Satellite communication, bystems –Satellite Sub Systems –Earth stations- Satellite Applications: Surveillance, Navigation, Mobile Communication, Digital Satellite Radio, Satellite Telephone-Global Positioning System. 3 INTRODUCTION TO OPTICAL COMMUNICATION AND Total Hrs 9 TELEPHONE SYSTEM Total Hrs 9 Total Hrs 9 V | | | | | Total | | | | |
| 08210506C | | - | - | • | • | - | | | |
| | the fundamentals of satellite of advances in Telephone syste communication systems and w | communic ems and ireless te | cation TV s chnolo | & opt syster | ical co | ommunicatio | n, gain l | knowledg | e about |
| 1 INTROD | UCTION TO MICROWAVE AND | D RADAR | RS | | | Total Hrs | ; | 9 | |
| Characteristics Magnetron, TV | , Radio Frequency wave pro VT)-(Principles Only) Radar - Pu | pagation | - Mic ar - CV | rowav | re −P | rinciples, De inciples and | evices (Block Di | Reflex k | Klystron, |
| System. 3 INTROD TELEPH Light wave co | OUCTION TO OPTICAL COMMU ONE SYSTEM mmunication systems – Fiber | INICATIC | ON AN | D | on typ | Total Hrs | - Optic | 9 al Transi | mitter & |
| | | | | | | Total Hrs | | Q | |
| TV Signal – G | Generating Video Signal – Colo | | | | | / transmitter | | | - Colour |
| | | | | | | | ; | 9 | |
| Wireless LAN | - PAN's & blue tooth - Zigbee | & Mesh | Wirele | ess N | etworl | ks – Wi-max | & Wirel | less Metr | |
| Total hours to I | be taught | | | | | | | 45 | |
| () | | | | | | | | | |
| Hill, 200 | 4. | | | | | | | | |
| | | s Comm | unicati | on Sy | stem" | , 3 ^{ra} Edition, | Tata Mc | Graw-Hill | , 2008. |
| Reference (s) : | | | | | | | | | |
| | Fomasi, "Electronic Communicat | | | | | | | | |
| 2 Marin Co | ole, "Introduction to Telecommun | ications - | -Voice | , Data | and I | nternet", Pea | arson Ed | ucation, 2 | 2001. |

| K.S | Rangasamy College of Techr | ology - Auto | nomol | ıs Reg | ulation | | | 800 |
|---|--|--------------|----------------|--------|---------|--------------------|-------------------|------|
| Department | Information Technology | Progran N | nme Co Name | ode & | In | 21: E formation | 5.Tech. Techno | logy |
| | | Semester ' | V | | | | | |
| | Course Norse | Ho | ours / W | /eek | Credit | Max | kimum M | arks |
| Course Code | Course Name | L | Т | Р | С | CA | ES | Tota |
| 08210507P | CASE TOOLS LABORATORY | (0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Define requi Record Term Design Use Identify pote Identify asso Develop class Develop dep Develop a p SUGGESTED Student Mar Quiz System Online Ticke Payroll System | minary investigation report rements ns in Glossary Case diagrams ntial objects and classes ociations and operations to poter ss diagrams, activity diagrams, s oloyment diagrams, orototype and validate it LIST OF APPLICATIONS: ks Analyzing System t Reservation System em istration System ems | | grams | | | | | |

| K.S | Rangasamy College of Techn. | ology - A | uton | omou | s Reg | ulation | | R 2 | 800 |
|--|--|-------------|--------|--------------|----------|---------------|--------------------|-------------------|---------|
| Department | Information Technology | Prog | | ne Co Ime | de & | Int | 21: B formation | .Tech. Technol | ogy |
| | | Semes | ster V | | | | | | |
| <u> </u> | | | Hou | rs/W | eek | Credit | Max | kimum M | arks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Tota |
| 08210508P | OPERATING SYSTEM AND C SOURCE LABORATORY | DPEN | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Implement the | following on LINUX platform. Us | se C for hi | igh le | vel lar | iguage | e implementa | ation) | • | |
| 1. Shell prograi | | | | | | | | | |
| Shell program command state | | | | | | | | | |
| - write simpl | | | | | | | | | |
| - basic tests | | | | | | | | | |
| Shell program loops | mming | | | | | | | | |
| - patterns | | | | | | | | | |
| - expansior | | | | | | | | | |
| - substitutio | - | - 11 | 11/ | | | | | | |
| | ms using the following system ca etpid, exit, wait, close, stat, oper | | | erating | g syste | em: | | | |
| | ms using the I/O system calls of | | | n svste | em (or | en, read, w | rite, etc) | | |
| | rams to simulate UNIX comman | | | | o (op | , | ,) | | |
| | t of processes, their CPU burst t | | | | | | | | |
| | JF. For each of the scheduling p | olicies, co | omput | e and | print t | he average | waitir | ng time a | and |
| average turn | around time t of processes, their CPU burst t | imae and | orrive | ltimo | a dian | lov/print the | Contt of | ort for | |
| Priority and I | Round robin. For each of the sch turnaround time | | | | | | | age waitir | ng time |
| | f Open Source – Desktop Linux | OS. confi | durati | on. | | | | | |
| | f Open Office, Mail client & Web | | | | d config | guration. | | | |
| | on, Group Creation. | | | | | | | | |
| • | on of DNS, DHCP. | | | | | | | | |
| 12 Configurati | on of device like Printer. Etherne | and TCF | P/IP | | | | | | |

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

| K.S. | Rangasamy College of Te | chnology - / | Auton | omou | s Reg | ulation | | R 20 | 800 |
|------------------|---|--------------|-------------|--------|-------|---------|-------------------|-------------------|-------|
| Department | Information Technology | Prog | ramm Nan | | e & | Inf | 21: B ormation | .Tech. Technol | ogy |
| | | Seme | ster V | | | | | | |
| O avera a O a da | Course Norse | | Hou | rs / W | /eek | Credit | Max | kimum M | arks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210509P | DATABASE MANAGEME SYSTEMS LABORATOR | | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| LIST OF EXPER | | | | | | | | | |
| | ion Language (DDL) comma | | | ~ | | | | | |
| | ulation Language (DML) cor I Language (DCL) comman | | | 5. | | | | | |
| | anguage extension with Cur | | 0. | | | | | | |
| | anguage extension with Trig | | | | | | | | |
| 6 Procedures | and Functions | | | | | | | | |

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.

| Departm | ient | Information Technology | PIO | | nme (| Code & | | 21 | : B.Tec | n. |
|---|---|---|-------------------------------|----------------|--------|-------------|---------------|----------|----------------|--------------|
| | | | | - N | Name | | | nformat | ion Tec | hnology |
| | | reenneregy | Sem | | | | | monna | | mology |
| | | | | | | Neek | Credit | N | <i>A</i> aximu | m Marks |
| Course C | Code | Course Name | | L | Т | Р | C | CA | ES | Total |
| 0821051 | | CAREER COMPETENCY DEVELOPMENT III | | 0 | 0 | 2 | 0 | 100 | 00 | 100 |
| Objective | | . To improve the skill level of i. To improve the employabil | | | 5 | | | | | |
| 1 A | Aptitude | | ity of otuc | | 5 | | | | | Hrs |
| Probabilit <u>y</u> b. Verbal reasoning | y - Heig I Reaso g - Data | lity : Partnership - Chain rul hts and Distance ning : Logical Venn Diagra Sufficiency - Statement – C soning : Rule detection - Cu | ams - Lo onclusior | ogica 1 - D | al Se | quence | of Words | - Arithn | netical | 8 |
| 2 Pr | rogramr | ning Skills | | | | | | | | 6 |
| Object Or Operator 3 W | iented F <u>Overloa</u> /ritten C | Tree - Graph Programming : Introduction t Iding – Inheritance – Templa ommunication Skills | tes - File | e I/O | | • | | | - | |
| expressio | ons and | n the usage of degrees of co system international (SI) un | | | | | ises, numeri | cal | | 4 |
| Evaluation | | | | | | | | | | 2 |
| | | nmunication Skills | | - 1- | | | | | | 0 |
| | | n Demo - Listening compreh oup Discussion | ension L | ab | | | | | | 2 2 |
| | | Skills (Association Session) | | | | | | | | ۷. |
| | | echnical Interview - Technica | al Intervi | ew I | (Obie | ective tv | /pe questior | s from ' | V th | 4 |
| semester | subject | | | | | - | | | | |
| | | | - Auapi | auiii | ty, Se | ii uevei | opment, or | ealivity | Total | 4 32 |
| Reference | e(s): | | | | | | | | Total | 52 |
| | | rwal, "Quantitative Aptitud 14, 27, 30, 31, 34, 36, 37, 3 | | | | mpany | Ltd., New | Delhi, F | Reprint | 2007 (Twice |
| Ne 14 | ew Delh 4) (unit - | rwal,"A Modern Approach ii, 2008, Part I – Section I (C - I) | Ch - 9,14 | 1,15 | & 17) |) Part I- | -Section II (| Ch – 5 | & 6) Pa | rt II (Ch 12 |
| (u | ınit – II) | n Weiss , "Data Structures a | C C | | | | • | | | |
| 18 | 8, 21) | childt , "The Complete Refer | | | | | | (Ch - 1 | 1, 12, 1 | 4, 15, 16,17 |
| | | de by English Department of | | | | it – III, I | IV & V) | | | |
| 6 HI | R Interv | iew Guide by Training Cell, I | KSRCT, 2 | 2008 | 3. | | | | | |
| EVALUAT | TION CF | RITERIA | | | | | | | | 1 |
| | articula | | Test Pc | | | | | | | Marks |
| | valuatio Vritten T | | Unit I – Unit III · | | | , Unit II | – OQ – 30 | | | 50 |
| | | n II - Group discussion | | | | 5 Mark | s, TS – 5 M | arks | | 15 |
| 3 E [,] | valuatio | n III - Technical Interview | 6 quest | ions | each | 2½ Ma | rks | | | 15 |
| 4 | valuatio | | Creativi (Adopta marks) | | | | Self develop | oment – | 7 | 20 |
| . н | | | | | | | | | | |

- 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. | Rangasamy College of Tech | nology | - Auto | onomo | ous Regu | lation | | R | 2008 |
|---|--|----------------------|--------------------|-------------------|-------------------------------|--------------------------------------|---------------------|-----------------------|----------------------------|
| Department | Information Technology | Progra | amme | code & | & Name | Info | | .Tech. Techno | ology |
| | | Serr | nester | VI | | | | | |
| Course Code | Course Name | | H | ours / V | Veek | Credit | Ма | aximum | Marks |
| Course Code | Course Marine | | 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 ha , staffing, | ve a cle leading | ar unde and c | erstanding controlling. |
| 1. HISTORI | CAL DEVELOPMENT | | | | To | tal Hrs | | 9 | |
| | nagement – Science or Art – ribution of Taylor and Fayol – | | | | | | | | |
| 2. PLANNIN | IG | | | | To | tal Hrs | | 9 | |
| Management by | se – Types of Plans – Steps ir / Objectives – Strategies, Polic | | | | | | | | |
| 3. ORGANIS | SING rpose – Formal and informal | | | | - | tal Hrs | | 9 | |
| Effectiveness. 4. DIRECTII Scope – Human Theories – Mo | n Factors – Leadership – Typ tivational Techniques – Job | es of Le Enrichn | eaders | hip – ľ - Com | To Motivation municatio | al Hrs n – Hierarcl on – proce | hy of ne | 9 eeds – | Motivation |
| | eakdown – Effective Communi | ication - | Elect | ronic m | | | ion. | | |
| 5. CONTRO | DELING Decess of Controlling – Require | monto f | or off | o oti vo | - | tal Hrs | | 9 otrol To | obniquo |
| Information Tec and Manageme Environment – (| hnology in Controlling – Use on nt – Control of Overall Perfor Globalization and Liberalization | of compu mance - | uters ir - Dire | n handl ct and | ing the ir preventiv | nformation - ve Control - | - Produ - Repor | ctivity – ting – T | Problems he Global |
| Total hours to b | e taught | | | | | | | 45 | |
| Text book (s): | | | | | | | | | |
| | ooritz & Heinz Weihrich, "Esse | | | - | | | | | |
| | Massie, "Essentials of Manag | ement", | Prenti | ce Hal | l of India, | (Pearson) | Fourth | Edition, | 2003. |
| Reference(s): | | | | | | | | | |
| | PC And Reddy PN, "Principles | | • | | | | | Drant | |
| India, 199 | | | | | | - | | | |
| | her, Freeman R. E and Daniel | | | - | | | tion, Six | th Editi | on, 2004. |
| | Mazda, "Engineering Manage | | | | - | | | | |
| 5. Prasad L. | M, "Principles of Management | t″, Sultar | n Char | nd & So | ons Ltd, 2 | 2003. | | | |

| К. | S.Rangasamy College of Techn | ology - / | Auton | omou | s Reg | Julation | | R 2 | 800 |
|--------------------------------|---|--|--|--|---|---|---|--|--|
| Department | Information Technology | Pro | gramr | | de & | | | B.Tech. | |
| | | | | ame | | Inf | ormation | n Technol | ogy |
| | I | Seme | r | | | 1 | 1 | | |
| Course Code | Course Name | | Hou | rs / W | eek | Credit | Ma | ximum M | arks |
| | | | L | Т | Р | С | CA | ES | Total |
| 08210602S | NUMERICAL METHODS | | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| Objective(s) | At the end of the course, the 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- of measurements, observations | ses are s solutions tained nu nental da approxim different mplicated | umma s of la merica ita are nate p iation l or the | rized a ally wh involv olynor and in e huge | as foll ystem nere a ved, th nial to tegrat e amo | ows: The roo of linear e nalytical met ne methods o represent ion find app unts of data | ots of nor quations thods fail discussed the data lication v | nlinear (a and eig l to give s d on inter and to vhen the | Igebraic envalue solution. polation find the function |
| 1 SOL | UTION OF EQUATIONS AND EI | | | Cilipii | | Total Hrs | | 9+3 | |
| | BLEMS | | | | | | | | |
| Gauss-Jordor | lation methods (method of false p n methods- Iterative methods: Ga n method – Eigen value of a matri | auss Jac | obi an | d Gau | | | | | |
| | RPOLATION AND APPROXIMA | | | | | Total Hrs | | 9+3 | |
| | olynomials – Divided difference erence formulas. | s – Intei | polatir | ng wit | hac | ubic spline | Newto | on's forw | ard and |
| 3 NUM | IERICAL DIFFERENTIATION AN | D INTEG | RATIC | DN | | Total Hrs | | 9+3 | |
| trapezoidal ar | om difference tables – Divideo nd Simpson's 1/3 and 3/8 rules – puble integrals using trapezoidal a | Romberg | y's me | thod – | | | | | |
| | AL VALUE PROBLEMS FOR OR ERENTIAL EQUATIONS | DINARY | | | | Total Hrs | | 9+3 | |
| Single step m | ethods: Taylor series method – E olving first order equations – M | | | | | | | | |
| | NDARY VALUE PROBLEMS IN (TIAL DIFFERENTIAL EQUATIO | | RY AN | D | | Total Hrs | | 9+3 | |
| Finite differer dimensional | nce solution of second order or heat equation by explicit and i aplace and Poisson equations. | dinary di | | | | | | | |
| Total hours to | | | | | | | | 60 | |
| Text book : | | | | | | | I | | |
| | lasamy, P., Thilagavathy, K. and i, 2003. | d Gunava | athy, K | ., "Nu | Imeric | al Methods" | , S.Char | nd Co. Lt | d., New |
| Reference (s) | | | | | | | | | |
| | ld, C.F, and Wheatley, P.O, "App Delhi, 2002. | lied Num | erical | Analy | sis", S | Sixth Edition, | Pearsor | Education | on Asia, |
| 2 Burd | en, R.L and Faires, T.D., "Nu apore, 2002. | merical / | Analys | is", S | event | h Edition, T | homson | Asia P | vt. Ltd., |

| | K.S. | Rangasamy College of Techn | ology - A | uton | omou | s Reg | Julation | | R 2 | 800 |
|--------------------------|------------------------------------|---|-------------------------|----------|---------|---------|---------------------------|------------|------------------|----------|
| Denai | rtment | Information Technology | Pro | gramr | | de & | | | .Tech. | |
| Depai | linent | Information Technology | | - | me | | Inf | ormation | Techno | ogy |
| | | | Semes | ster VI | | | 1 | | | |
| Course | e Code | Course Name | | Hou | rs / W | eek | Credit | Max | imum M | arks |
| Course | e coue | Course Marile | | L | Т | Ρ | С | CA | ES | Total |
| 08210 |)603C | TCP/IP AND SOCKET PROGRAMMING | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objec | tive(s) | To know about IP layer protoc and applications layer protoc programming applications. | | | | | | | | |
| 1 | INTER | NET PROTOCOLS | | | | | Total Hrs | | 12+3 | |
| delivery Protoco 2 | /, forward ol – Interr TRANS | and the TCP/IP protocol suite ling and routing of IP packets - net Group Management Protoco MISSION CONTROL PROTOC | - ARP and ol. COL | d RAF | RP – Ir | nterne | t Protocol – Total Hrs | Internet (| Control N 8+3 | |
| User Da | atagram | Protocol – Transmission Contro | ol Protoco | ol – Sti | ream (| Contro | ol Transmiss | ion Proto | col. | |
| 3 | ROUTI | NG AND APPLICATION LAYER | R PROTC | COLS | 3 | | Total Hrs | | 9+3 | |
| Unicast System | 0 | Protocols – RIP, OSPF and | BGP – F | lost C | Configu | uratior | ι – BOOTP, | DHCP - | - Domai | n Name |
| 4 | ELEME | NTARY SOCKETS | | | | | Total Hrs | | 8+3 | |
| | s Introdu Options. | ction – Socket Address Struc | ture – E | lemer | tary - | TCP \$ | Sockets – S | ending a | and Rec | eiving – |
| 5 | SOCKE | T PROGRAMMING APPLICA | TIONS | | | | Total Hrs | | 8+3 | |
| | | t Server – UDP Echo Client S – File Transfer : FTP and TFTP | | Eleme | ntary | Name | e and Addres | ss Conve | rsions. | Remote |
| Total ho | ours to be | e taught | | | | | | | 60 | |
| Text bo | ok : | | | | | | | | | |
| 1 | Behrou | z A. Forouzan, "TCP/IP Protoco | ol Suite", | Third | Editio | n, Tata | a McGraw H | ill, New D | elhi, 200 |)7. |
| Referer | nce (s) : | | | | | | | | | |
| 1 | | s E.Comer, "Internetworking wi e Hall, New Delhi, 2007. | th TCP/IF | P, Prin | ciples | , Prot | ocols, and A | rchitectu | re", Fifth | Edition, |
| 2 | | I Stevens.w, "Unix Network Pro | gramming | g", Thi | rd Ed | tion, F | Prentice Hall | , New De | lhi, 2003 | i. |

| K.S. | Rangasamy College of Techn | ology - / | Autono | omou | s Reg | ulation | | R 20 | 008 |
|-------------------|--|-------------------------|---------|--------------|--------|----------------|-----------|----------------------|----------|
| Department | Information Technology | Pro | gramn | ne Co ime | de & | Inf | | 3.Tech. n Technol | 001/ |
| | | Seme | | | | | onnation | TECHIO | ogy |
| | | | Hou | rs / W | eek | Credit | Ma | ximum Ma | arks |
| Course Code | Course Name | | L | Т | Р | С | CA | CA ES T | |
| 08210604C | VISUAL PROGRAMMING | | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| Objective(s) | To introduce the concepts Microsoft Foundation Class applications using Visual C++ | es, enat | | | | to develop | | ims and | |
| | OWS PROGRAMMING | | | | | Total Hrs | | 9 | |
| Displaying the \ | onment – A Simple Windows Window – Message Loop – th painting – Introduction to GDI - | ne Windo | w Pro | cedur | e – N | lessage Pro | cessing | - Text C | |
| | L C++ PROGRAMMING – INTI | | - | | | Total Hrs | | 9 | |
| - Fonts - Modal | nework – MFC Library – Visua I and Modeless Dialog – Windo | ws Comr | non Co | | | 0 | Mapping | J Modes - | - Colors |
| - | OCUMENT AND VIEW ARCHI | | | | | Total Hrs | | 9 | |
| View – Reading | ard Accelerators – Rich Edit Co and Writing SDI and MDI Docu | uments – | Splitte | r Wind | | | | | |
| 4 ACTIVE (OLE) | EX AND OBJECT LINKING AN | D EMBE | DDING | 3 | | Total Hrs | | 9 | |
| | s Vs. Ordinary Windows Cont at Runtime – Component Ol | | | | | | | | |
| Component and | | | | J1V1) | | L Diag and | ыор – | | beuueu |
| 5 ADVAN | ICED CONCEPTS | | | | | Total Hrs | | 9 | |
| Database Applic | gement with Microsoft ODBC cations – DAO Concepts – Disp ck – WinInet – Building a Web 0 | blaying D | atabas | e Řec | cords | in Scrolling \ | √iew – ∖ | /C++ Net | working |
| Total hours to be | e taught | | | | | | | 45 | |
| Text book (s) : | | | | | | | - | | |
| 1 Charles | s Petzold, "Windows Programm | ing", Mic | rosoft | oress, | 2003 | (Unit I) | | | |
| | J.Kruglinski, George Shephere , Microsoft press, 2004 Reprint | | | ngo, ʻ | 'Progr | amming Mi | crosoft \ | /isual C+ | +" Fifth |
| Reference : | | | | | | | | | |
| 1 Steve H | Holtzner, "Visual C++ 6 Progran | nmin <mark>g",</mark> V | Viley D | ream | ech Ir | ndia Pvt. Ltd | ., 2003. | | |

| K.S. | Rangasamy College of Techn | ology - / | Autono | mou | s Reg | Julation | | R 20 | 800 |
|--|--|-----------------------|------------------|-------------|---------|----------------------------|------------------------|--------------------------|---------------------|
| Department | Information Technology | Pro | ogramn Na | ne Co me | de & | In | | B.Tech. n Technol | ogy |
| | | Seme | ster VI | | | | | | |
| Course Code | Course Name | | Hou | rs / W | 'eek | Credit | Ма | iximum M | arks |
| Course Code | Course Marile | | L | Т | Р | С | CA | ES | Total |
| 08210605C | WEB TECHNOLOGY | | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| 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 | s will be p students | provided to know |
| - | DUCTION | | | | | | l Hrs | | 9 |
| Object Based S | nternet and World Wide Web - cripting for the web – Control S | | | | | rays – Obje | cts. | | - |
| 2 DYNA | MIC HTML | | | | | Tota | l Hrs | 9 | 9 |
| Event Bubble Creating Gradie set – Sorting tal | On check – On load – On error ers – Flip Filters – Chrome Fi ents – Creating Motion with Blu ble data – Binding of an Image a | lter – Cr r – Data | eating Bindin | Imag | jes – | Images Filt Data Bindir | ers – Ao Ig – Mov | dding sha ving with a | a record |
| | MEDIA | | | | | | l Hrs | | 9 |
| - Online Paym | o speech synthesis and recogni ents and Security – Web Serve erver side Scripting – Accessing | ers – HT | TP red | uest | types | - System / | Architect | | |
| 4 DATA | BASE- ASP – XML | | | | | Tota | l Hrs | 9 | 9 |
| Session trackin | ational Database model – SQL g and cookies – ADO – Acces e in Data – Name spaces – DTE | s a Data | base f | rom A | ASP - | Server side | | | |
| 5 SERVI | _ETS AND JSP | | | | | Tota | l Hrs | 9 | 9 |
| | Servlet Overview Architecture – tier applications – JSP – Overvi | | | | | | | | |
| Practical | | | | | | | | 1 | 0 |
| Tutorial hours | | | | | | | | ! | 5 |
| Total hours to b | e taught | | | | | | | 6 | 60 |
| Text book : | | | | | | | | | |
| Asia, 2 | & Deitel, Goldberg, "Internet and 2001. | d world w | ride we | b – H | low to | Program", 4 | l th ed., P | earson Eo | ducation |
| Reference (s) : | | | | | | | | | |
| - | natel, "Web Programming: Desl | • | • | | PHI, 20 | 04. | | | |
| 2 Rajkar | nal, "Web Technology", Tata Mo | Graw-Hi | II, 2001 | | | | | | |

| K.S. | Rangasamy College of Techn | ology - Autor | omou | s Reg | ulation | | R 20 | 800 |
|--|---|---------------|--------------|-------|---------|-------------------|-------------------|-------|
| Department | Information Technology | Program N | me Co ame | de & | Inf | 21: B ormation | .Tech. Technol | ogy |
| | | Semester V | I | | | | | |
| Course Code | | Но | urs / W | /eek | Credit | Max | kimum Ma | arks |
| Course Code | Course Name | L | Т | Р | С | CA | ES | Total |
| 08210607P | VISUAL PROGRAMMING LABORATORY | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Creating MI Creating sir Dynamic cc Mapping M Bitmaps. GDI objects Menu, Acce Tool bar, To Status bar. | odes. elerator. pol tip. LLs and using them. | | | | | | | |

Data access through DAO.
 Creating ActiveX control and using it.

| K.S. | Rangasamy College of Techn | ology - Auto | nomo | us R | egula | tion | | R 20 | 800 |
|--|----------------------------|-----------------------------|---------------|--------|-------|--------|-------------------|-------------------|-------|
| Department | Information Technology | Prograr I | nme C Name | code 8 | 8 | Inf | 21: B ormation | .Tech. Technol | ogy |
| | | Semester | VI | | | | | | |
| Course Code | | | Hour | s/W | eek | Credit | Max | kimum M | 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 cli Message end | | nm. ng. SA algorithm. | | | | | | | |

| K.S. | Rangasamy College of Techn | ology - A | Auton | omou | s Reg | ulation | | R 20 | 800 | | |
|----------------|----------------------------------|-----------|--------------|--------------|-------|-------------|---------------------------------------|---------------|-------|--|--|
| Department | Information Technology | Pro | ogramr Na | ne Co ame | de & | Inf | 21: B.Tech. Information Technology | | | | |
| | | Semes | ster VI | | | | | | | | |
| Course Code | Course Name | | Hou | rs / W | /eek | Credit | Max | Maximum Marks | | | |
| 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 | ineeri | ng Me | thodologies | given bel | low: | 1 | | |

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.

| | N.3.1 | Rangasamy College | e of Tec | hnology - A | Autor | nome | ous Reg | Julatior | ו | | | R 2008 |
|--|--|--|---|--|---|---|---|---|---|---|---|--|
| Depa | rtment | Information Technology | | Programme | Coc | le & N | Name | | l | | 1: B.Te tion Te | ch. chnology |
| | | | | Seme | ester | VI | | | | | | |
| Couro | | Course | Nomo | | H | ours/\ | Neek | Crea | dit | Ν | /laximu | m Marks |
| Course | e Code | Course | name | | L | Т | Р | С | | CA | ES | Total |
| 0821 | 0610P | CAREER COMPET DEVELOPMENT IN | J | | 0 | 0 | 2 | 0 | | 100 | 00 | 100 |
| Objec | ctive(s) | i. To improve the sl ii. To improve the e | | | | | | | | | | 1 |
| 1 | | any type written test | | | | | | | | | | Hrs |
| Compr | rehensio | sed questions – n. itten Test | Questic | ons from | Aptit | ude, | Writte | n con | nmur | ication | and | 6 2 |
| 2 | Compa | ny type written test i | n Verbal | and Non-ve | erbal | Reas | soning S | Skills | | | | |
| | | d questions – Quest ritten Test | tions from | m Verbal an | d No | n-ver | bal reas | soning. | | | | 6 2 |
| 3 | | nming Skills | | | | | | | | | | 2 |
| - | • | d questions from C | languag | e. Data struc | cture | s and | Obiect | Oriente | ed Pr | ogrami | mina. | 6 |
| | | /ritten Test | guug | -, | | | | | | | | 2 |
| 4 | Intervie | w Skills(Association | Sessior | ı) | | - | - | _ | | - | - | |
| | | view – Questions fro | | | | | | | | | | |
| | | Flexibility, Achieven | | entation, Dec | cisive | eness | | | | | | 4.4 |
| Evalua | ation IV - | Technical & HR Inte | erview. | | | | | | | | Tatal | 4+4 32 |
| | | | | | | | | | | | | |
| Defere | n n n n n n n n n n n n n n n n n n n | | | | | | | | | | Total | 52 |
| | ence(s): | arwol "Quantitativ | o Aptitur | do" S Chan | 4 8 0 | `omp | opyltd | Now | Dolhi | Popri | | |
| Refere 1 | R.S.Ag | garwal , "Quantitativo) | e Aptitud | de", S.Chano | d & C | Compa | any Ltd | ., New I | Delhi | , Reprii | | |
| | R.S.Ag (unit – I | - | - | | | - | | ., New I | Delhi | , Reprii | | |
| 1 | R.S.Ag (unit – I CCD G R.S.Ag |) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) | artment Approad | of KSRCT, 2 ch to verbal | 2008 & N | (Unit on – | t – I) verbal | Reasor | ning", | S.Cha | nt 2007 | (Twice) |
| 1 2 | R.S.Ag (unit – I CCD G R.S.Ag |) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) | artment Approad | of KSRCT, 2 ch to verbal | 2008 & N | (Unit on – | t – I) verbal | Reasor | ning", | S.Cha | nt 2007 | (Twice) |
| 1 2 3 | R.S.Ag (unit – I CCD G R.S.Ag New De Yashav |) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) ant Kanetkar, " Let | artment Approad us 'C' ", | of KSRCT, 2 ch to verbal BPB Publica | 2008 & N ation: | (Unit on – s, Ne | t – I) verbal w Delhi | Reasor , 2002 (| ning", | S.Cha | nt 2007 | (Twice) |
| 1 2 3 4 | R.S.Ag (unit – I CCD G R.S.Ag New De Yashav Herbert |) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) ant Kanetkar, " Let Schildt, " The Comp | artment Approad us 'C' ", plete Re | of KSRCT, 2 ch to verbal BPB Publica ference C++ | 2008 & N ation: - ", Tl | (Unit on – s, Ne MH, 2 | t – I) verbal w Delhi 2003 (ur | Reasor , 2002 (nit – III) | ning", (unit | S.Cha – III) | nt 2007 and & (| (Twice) Company Lt |
| 1 2 3 4 5 | R.S.Ag (unit – I CCD G R.S.Ag New De Yashav Herbert Mark A |) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) ant Kanetkar, " Let Schildt, " The Comp len Weiss , "Data St | artment Approad us 'C' ", blete Re ructures | of KSRCT, 2 ch to verbal BPB Publica ference C++ a and Algorit | 2008 & N ation: - ", Tl | (Unit on – s, Ne MH, 2 | t – I) verbal w Delhi 2003 (ur | Reasor , 2002 (nit – III) | ning", (unit | S.Cha – III) | nt 2007 and & (| (Twice) Company Lt |
| 1 2 3 4 5 6 7 | R.S.Ag (unit – I CCD G R.S.Ag New De Yashav Herbert Mark A Compa |) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) ant Kanetkar, " Let Schildt, " The Comp len Weiss , "Data St ny question papers(! | artment Approad us 'C' ", olete Re ructures Unit I-III) | of KSRCT, 2 ch to verbal BPB Publica ference C++ and Algorit | 2008 & N ation: - ", Tl | (Unit on – s, Ne MH, 2 | t – I) verbal w Delhi 2003 (ur | Reasor , 2002 (nit – III) | ning", (unit | S.Cha – III) | nt 2007 and & (| (Twice) Company Lt |
| 1 2 3 4 5 6 7 6 | R.S.Ag (unit – I CCD G R.S.Ag New De Yashav Herbert Mark A Compa HR Inte |) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) ant Kanetkar, " Let Schildt, " The Comp len Weiss , "Data St | artment Approad us 'C' ", olete Re ructures Unit I-III) | of KSRCT, 2 ch to verbal BPB Publica ference C++ and Algorit | 2008 & N ation: - ", Tl | (Unit on – s, Ne MH, 2 | t – I) verbal w Delhi 2003 (ur | Reasor , 2002 (nit – III) | ning", (unit | S.Cha – III) | nt 2007 and & (| (Twice) Company Lt |
| 1 2 3 4 5 6 7 6 | R.S.Ag (unit – I CCD G R.S.Ag New De Yashav Herbert Mark A Compa HR Inte |) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) ant Kanetkar, " Let Schildt, " The Comp len Weiss , "Data St ny question papers(I rview Guide by Train CRITERIA | artment Approad us 'C' ", olete Re ructures Unit I-III) ning cell | of KSRCT, 2 ch to verbal BPB Publica ference C++ and Algorit | 2008 & N ation: - ", TI hm A | (Unit on – s, Ne MH, 2 | t – I) verbal w Delhi 2003 (ur | Reasor , 2002 (nit – III) | ning", (unit | S.Cha – III) | nt 2007 and & (| (Twice) Company Lt |
| 1 2 3 4 5 6 7 6 EVALU | R.S.Ag (unit – I CCD G R.S.Ag New De Yashav Herbert Mark A Compa HR Inte UATION |) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) ant Kanetkar, " Let Schildt, " The Comp len Weiss , "Data St ny question papers(I rview Guide by Train CRITERIA lar | artment Approad us 'C' ", plete Re ructures Unit I-III) ning cell | of KSRCT, 2 ch to verbal BPB Publica ference C++ and Algorit (unit IV) Test Portion Unit 1 – Apt & Comprehe | 2008 & N ation: - ", Tl hm A titude | (Unit on – s, Ne MH, 2 analys | t – I) verbal 2003 (ui sis in C" 0 OQs, 0 OQs, | Reasor , 2002 (nit – III) , Pears Written | ing", (unit on E | S.Cha – III) ducatio | nt 2007 and & (on 2002 ation | Company Lt |
| 1 2 3 4 5 6 7 6 EVALU S.No | R.S.Ag (unit – I CCD G R.S.Ag New De Yashav Herbert Mark A Compa HR Inte UATION Particu Evalua Written Evalua Written |) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) ant Kanetkar, " Let Schildt, " The Comp len Weiss , "Data St ny question papers(I rview Guide by Train CRITERIA lar tion I, Test tion II Test | artment Approad us 'C' ", plete Re ructures Unit I-III) ning cell | of KSRCT, 2 ch to verbal BPB Publica ference C++ and Algorit (unit IV) Test Portion Unit 1 – Apr & Comprehe Unit II – Ver Reasoning - | 2008 & N ation: - ", TI hm A titude ensio bal R - 500 | (Uniton -s, NeMH, 2analys $e - 50n - 5ceasoQQs$ | t – I) verbal 2003 (ur sis in C" 0 OQs, 0 OQs, 0 OQs | Reasor , 2002 (nit – III) , Pears Written 50 OQs | ing", (unit : on E Con | S.Cha – III) ducatio | nt 2007 and & (on 2002 ation | Company Lt Company Lt Cunit – III) Marks |
| 1 2 3 4 5 6 7 6 EVALU S.No 1 | R.S.Ag (unit – I CCD G R.S.Ag New De Yashav Herbert Mark A Compa HR Inte UATION Particu Evalua Written Evalua |) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) ant Kanetkar, " Let Schildt, " The Comp len Weiss , "Data St ny question papers(I rview Guide by Train CRITERIA lar tion I, Test tion II Test tion III | artment Approad us 'C' ", olete Re ructures Unit I-III) ning cell | of KSRCT, 2 ch to verbal BPB Publica ference C++ and Algorit (unit IV) Test Portion Unit 1 – Apr & Comprehe Unit II – Ver | 2008 & N ation: - ", TI hm A titude ensio bal R - 500 _ angu | (Unit on – s, Ne MH, 2 analys nalys e – 50 n – 5 Reaso DQs Jage- | t – I) verbal 2003 (ur sis in C" 0 OQs, 0 OQs, 0 OQs 500Qs | Reasor , 2002 (nit – III) , Pears Written 50 OQs | ing", (unit : on E Con | S.Cha – III) ducatio | nt 2007 and & (on 2002 ation | (Twice) Company Lt (unit – III) Marks 25 |
| 1 2 3 4 5 6 7 6 EVALU S.No 1 2 | R.S.Ag (unit – I CCD G R.S.Ag New De Yashav Herbert Mark A Compa HR Inte UATION Particu Evalua Written Evalua Written |) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) ant Kanetkar, " Let Schildt, " The Comp len Weiss , "Data St ny question papers(I rview Guide by Train CRITERIA lar tion I, Test tion II Test tion III Test | artment Approad us 'C' ", plete Re ructures Unit I-III) ning cell | of KSRCT, 2 ch to verbal BPB Publica ference C++ and Algorit (unit IV) (unit IV) Test Portion Unit 1 – Apr & Comprehe Unit II – Ver Reasoning – Unit III – C L | 2008 & N ationa - ", TI hm A titude ensio bal R - 500 _ angu _ 25 | (Uniton -s, NeMH, 2analys $e - 5tn - 5tReasoDQsuage-5 OQs$ | t – 1) verbal 2003 (ur sis in C" 0 OQs, 0 OQs, 0 OQs 500Qs 500Qs | Reasor , 2002 (nit – III) , Pears Written 50 OQs , Data S | ing", (unit) on E Con , Nor Struc | S.Cha – III) ducatio | nt 2007 and & (on 2002 ation ation | (Twice) Company Lt (unit – III) Marks 25 25 |
| 1 2 3 4 5 6 7 6 EVALU S.No 1 2 3 | R.S.Ag (unit – I CCD G R.S.Ag New De Yashav Herbert Mark A Compa HR Inte UATION Particu Evalua Written Evalua Written |) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) ant Kanetkar, " Let Schildt, " The Comp len Weiss , "Data St ny question papers(I rview Guide by Train CRITERIA lar tion I, Test tion II Test tion III Test | artment Approad us 'C' ", olete Re ructures Unit I-III) ning cell | of KSRCT, 2 ch to verbal BPB Publica ference C++ and Algorit (unit IV) Test Portion Unit 1 – Apri & Comprehe Unit II – Ver Reasoning - Unit III – C L OQs, OOPs Unit IV Technical In | 2008 & N ation: - ", TI hm A titude tensio bal R - 500 - 25 tervie v – F | (Unit on – s, Ne MH, 2 analys | t – I) verbal 2003 (uu sis in C" 0 OQs, 0 OQs, 0 OQs 500Qs 5 500Qs 5 6 questi lity(5 m | Reasor , 2002 (hit – III) , Pears Written 50 OQs , Data \$ ons (ea arks), <i>A</i> | ing", (unit i on E Con , Nor Struc ch q | S.Cha – III) ducatio ducation n-verba tures – uestion | nt 2007 and & (on 2002 ation ation ation 25 2.5 | (Twice) Company Lt (unit – III) Marks 25 25 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.

| K.S.Ra | ngasamy College of Techno | ology - A | utono | mous | Regul | ation | | R 20 | |
|--|---|--|---|---|---|---|---|---|--|
| Department | Information Technology | Progra | amme | Code | & Nam | ne | | 1: B.Tech tion Tech | |
| | | Sem | nester | VII | | | | | |
| Course Code | Course Name | | Ho | urs / W | /eek | Credit | N | laximum l | 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 | lanag | ement, | , statis | tical appro | | | |
| 1 INTRODU | CTION | | | | То | tal Hrs | | 9 | |
| Costs, Basic c | uality, Dimensions of Quality, oncepts of Total Quality Mar ents, Deming Philosophy, Ba VCIPLES | nagemen | t, Hist | orical | Reviev entatio | v, Principle | | | |
| Retention, Emp Benefits, Conti | sfaction – Customer Percept bloyee Involvement – Empow nuous Process Improvement ircing, Supplier Selection, Su | erment, ⁻ t, Juran 1 | Teams Frilogy | s, Reco , PDS | ognitior A Cycl | n and Rew le, 5S, Kai | ard, Per izen, Su | formance | e Appraisal, irtnership – |
| | | | ung, i | | | Developing | , i on | | |
| Basic Concepts 3 STATISTIC | s, Strategy. CAL PROCESS CONTROL (| SPC) | | | To | tal Hrs | | 9 | |
| Basic Concepts 3 STATISTIC The tools of qu Sample, Norma New Managem | s, Strategy. CAL PROCESS CONTROL (ality, Statistical Fundamental al Curve, Control Charts for ent tools. | SPC) s – Meas | sures (| of cent | To ral Ter es, Pro | tal Hrs idency and icess capa | d Dispers | 9 sion, Pop | ulation and |
| Basic Concepts3STATISTICThe tools of quSample, NormaNew Managem4TQM TOO | s, Strategy. CAL PROCESS CONTROL (S ality, Statistical Fundamental al Curve, Control Charts for ent tools. DLS | SPC) s – Meas variables | sures of and a | of cent attribute | To ral Ter es, Pro To | tal Hrs idency and icess capa tal Hrs | l Disper bility, Co | 9 sion, Pop oncept of 9 | ulation and six sigma, |
| Basic Concepts3STATISTICThe tools of quSample, NormaNew Managem4TQM TOOBenchmarkingof Quality, QF | s, Strategy. CAL PROCESS CONTROL (ality, Statistical Fundamental al Curve, Control Charts for ent tools. DLS – Reasons to Benchmark, Be D Process, Benefits, Taguch | SPC) s – Meas variables enchmarki ni Quality | ing Pro | of cent attribute ocess, | To ral Ter es, Pro To Qualit | tal Hrs idency and icess capa tal Hrs y Function | l Dispers bility, Co Deployr | 9 sion, Pop oncept of 9 ment (QFI | ulation and six sigma, D) – House |
| Basic Concepts 3 STATISTIC The tools of qu Sample, Norma New Managem 4 TQM TOO Benchmarking of Quality, QFI Concept, Impro | s, Strategy. CAL PROCESS CONTROL (S cality, Statistical Fundamental al Curve, Control Charts for ent tools. DLS – Reasons to Benchmark, Be | SPC) s – Meas variables enchmarki ni Quality | ing Pro | of cent attribute ocess, | To ral Ter es, Pro To Qualit tion, T | tal Hrs idency and icess capa tal Hrs y Function | l Dispers bility, Co Deployr | 9 sion, Pop oncept of 9 ment (QFI | ulation and six sigma, D) – House |
| Basic Concepts 3 STATISTIC The tools of qu Sample, Norma New Managem 4 4 TQM TOO Benchmarking of Quality, QFI Concept, Impro 5 QUALITY Need for ISO | s, Strategy. CAL PROCESS CONTROL (S ality, Statistical Fundamental al Curve, Control Charts for ent tools. DLS – Reasons to Benchmark, Be D Process, Benefits, Taguch ovement Needs, FMEA – Stag | SPC) s – Meas variables enchmarki ni Quality ges, Type 9000:200 | ing Pro- Loss s. | of cent attribute ocess, Funct | To ral Ter es, Pro Qualit tion, To To 00 Qu | tal Hrs indency and icess capa tal Hrs y Function otal Produ tal Hrs uality Syst | d Dispers bility, Co Deployr ctive Ma ems – | 9 sion, Pop oncept of 9 ment (QFI aintenanc 9 Elements | ulation and six sigma, D) – House ce (TPM) – Concepts, |
| Basic Concepts3STATISTIOThe tools of quSample, NormaNew Managem4TQM TOOBenchmarkingof Quality, QFIConcept, Impro5QUALITYNeed for ISOImplementationTotal hours to b | s, Strategy. CAL PROCESS CONTROL (S ality, Statistical Fundamental al Curve, Control Charts for ent tools. DLS – Reasons to Benchmark, Be D Process, Benefits, Taguch ovement Needs, FMEA – Stag SYSTEMS 9000 Quality Systems, ISO a, Documentation, Quality Auc | SPC) s – Meas variables enchmarki ni Quality ges, Type 9000:200 | ing Pro- Loss s. | of cent attribute ocess, Funct | To ral Ter es, Pro Qualit tion, To To 00 Qu | tal Hrs indency and icess capa tal Hrs y Function otal Produ tal Hrs uality Syst | d Dispers bility, Co Deployr ctive Ma ems – | 9 sion, Pop oncept of 9 ment (QFI aintenanc 9 Elements | ulation and six sigma, D) – House ce (TPM) – Concepts, |
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| Basic Concepts 3 STATISTIC The tools of qu Sample, Norma New Managem 4 TQM TOO Benchmarking of Quality, QFI Concept, Impro 5 QUALITY Need for ISO Implementation Total hours to b Text book (s) : 1 Dale H.Be 2002). | s, Strategy. CAL PROCESS CONTROL (S cality, Statistical Fundamental al Curve, Control Charts for ent tools. DLS – Reasons to Benchmark, Be D Process, Benefits, Taguch ovement Needs, FMEA – Stag SYSTEMS 9000 Quality Systems, ISO a, Documentation, Quality Auc | SPC) s – Meas variables enchmarki ni Quality ges, Type 9000:200 diting, – F | ing Pro- Loss s. | ocess, ocess, Funct O 1400 rement | To ral Ter es, Pro Qualit tion, To To 00 Qu s and I | tal Hrs idency and icess capa tal Hrs y Function otal Produ tal Hrs uality Syst Benefits, N | d Dispers bility, Co Deployr ctive Ma ems – lon Con | 9 sion, Pop oncept of 9 ment (QFI aintenanc 9 Elements formance 45 | Ulation and six sigma, D) – House a (TPM) – Concepts, report. |
| Basic Concepts3STATISTIOThe tools of quidSample, NormaNew Managem4TQM TOOBenchmarkingof Quality, QFIConcept, Impro5QUALITYNeed for ISOImplementationTotal hours to bText book (s) :1Dale H.Be2002).Reference(s) : | s, Strategy. CAL PROCESS CONTROL (S ality, Statistical Fundamental al Curve, Control Charts for y ent tools. DLS – Reasons to Benchmark, Be D Process, Benefits, Taguch ovement Needs, FMEA – Stag SYSTEMS 9000 Quality Systems, ISO b, Documentation, Quality Auc oe taught esterfiled, et al., "Total Qual | SPC) s – Meas variables enchmarki i Quality ges, Type 9000:200 diting, – F | ing Pro- Loss s. 00 ISC Requir | ocess, Funct O 140 ement | To ral Ter es, Pro Qualit tion, To 00 Qu s and E earson | tal Hrs idency and idency and idency and idency and y Function otal Hrs uality Syst Benefits, N Education | d Dispers bility, Co Deployr ctive Ma ems – Ion Con Asia, 1 | 9 sion, Pop oncept of 9 ment (QFl aintenanc 9 Elements formance 45 | ulation and six sigma, D) – House e (TPM) – Concepts, report. |
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| Basic Concepts 3 STATISTIC The tools of quid Sample, Norman New Managem 4 TQM TOO Benchmarking of Quality, QFI Concept, Improvided 5 QUALITY Need for ISO Implementation Total hours to b Text book (s) : 1 Dale H.Be 2002). Reference(s) : 1 James R. 1 Western (1) | s, Strategy. CAL PROCESS CONTROL (S ality, Statistical Fundamental al Curve, Control Charts for v ent tools. DLS – Reasons to Benchmark, Be D Process, Benefits, Taguch ovement Needs, FMEA – Stag SYSTEMS 9000 Quality Systems, ISO by Documentation, Quality Auc on the taught esterfiled, et al., "Total Qual Evans & William M.Lidsay, | SPC) s – Meas variables enchmarki ni Quality ges, Type 9000:200 diting, – F 9000:200 diting, – F | ing Professor | of cent attribute ocess, Funct O 1400 rement nt", Pe nent a i0-5). | To ral Ter es, Pro Qualit tion, To 00 Qu s and E earson nd Co | tal Hrs idency and idency and idency and idency and y Function otal Hrs uality Syst Benefits, N Education | d Dispers bility, Co Deployr ctive Ma ems – Ion Con Asia, 1 | 9 sion, Pop oncept of 9 ment (QFl aintenanc 9 Elements formance 45 | ulation and six sigma, D) – House e (TPM) – Concepts, report. |
| Basic Concepts3STATISTIOThe tools of quSample, NormaNew Managem4TQM TOOBenchmarkingof Quality, QFIConcept, Impro5QUALITYNeed for ISOImplementationTotal hours to bText book (s) :1Dale H.Be2002).Reference(s) :1James R.1Western (*2Feigenbau | s, Strategy. CAL PROCESS CONTROL (S cality, Statistical Fundamental al Curve, Control Charts for vent tools. DLS – Reasons to Benchmark, Be D Process, Benefits, Taguch vement Needs, FMEA – Stag SYSTEMS 9000 Quality Systems, ISO a, Documentation, Quality Auc be taught esterfiled, et al., "Total Qual Evans & William M.Lidsay, Thomson Learning), 2002 (ISI | SPC) s – Meas variables enchmarki ni Quality ges, Type 9000:200 diting, – F 9000:200 diting, – F 9000:200 diting, – S 9000:200 diting, – S 9000 diting, – S 90000 diting, – | ing Pro- ing Pro- Loss s. 00 ISC Requir gemer nagen -0668 IcGrav | of cent attribute occess, Funct O 1400 rement nt", Pe nent a 0-5). w Hill, | To ral Ter es, Pro Qualit tion, To 00 Qu s and E arson nd Co 1991. | tal Hrs indency and indency and indency and indency and tal Hrs y Function otal Production tal Hrs uality Syst Benefits, N Education | d Dispers bility, Co Deployr ctive Ma ems – Ion Con Asia, 1 | 9 sion, Pop oncept of 9 ment (QFl aintenanc 9 Elements formance 45 | ulation and six sigma, D) – House e (TPM) – Concepts, report. |

| K.S. | Rangasamy College of Tecl | nnology - | Auto | nomou | s Reg | ulation | | | 008 |
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| Department | Information Technology | Prog | ramme | e Code | &Nam | ie I | | B.Tech. on Techn | ology |
| | | Seme | ester \ | / | | | | | |
| Course Code | Course Name | | Ho | urs / We | eek | Credit | Ma | ximum M | arks |
| Course Coue | | | L | Т | Р | 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 Developm | technolog | y, aro | | | | | | |
| 1 INTRODU | CTION | • | | | | Total Hrs | | 9 | |
| | oonents – objects – fundame ectory services – component a | | | | | | | les – inte | erfaces - |
| 2 JAVA BAS | SED COMPONENT TECHNO | LOGIES | | | | Total Hrs | | 9 | |
| serialization - E | a Beans – Events and conne Enterprise Java Beans – Distr | ibuted Ob | | | RMI a | and RMI-IIO | | | object |
| | OMPONENT TECHNOLOGII BA – Interface Definition lang | | | | | Total Hrs | | 9 | |
| driven architect 4 . NET BAS COM – Distribu – OLE containe | SED COMPONENT TECHNO ited COM – object reuse – inter ers and servers – Active X cor | LOGIES erfaces ar | nd vers | sioning | – disp | Total Hrs atch interfa | ces – cor | 9 nnectable | objects |
| reflection – rem 5 COMPON | ioting. ENT FRAMEWORKS AND D | | | | 1 | Total Hrs | | 9 | |
| | contexts – EJB containers – | | | nd char | | | | | owork - |
| directory object | ts – cross-development envir ation tools – testing tools - as | onment – | comp | | | | | | |
| Total hours to b | | | _ | | | | | 45 | |
| Text book : | | | | | | | | | |
| 1 Clemens publishers | Szyperski, "Component Softv , 2003. | vare: Bey | ond C | Object-C | Driente | ed Program | ming", P | earson E | ducation |
| Reference (s) : | | | | | | | | | |
| 1 Ed Romar | n, "Mastering Enterprise Java | Beans", J | ohn W | /iley & S | Sons li | nc., 1999. | | | |
| | "Inside CORBA", Pearson Ed | | | | | | | | |
| - | isual Basic Development Gui | | | | BPB F | ublication, | 2001. | | |
| | nn, Cornell, "CORE JAVA Vol | | | | | | | | |
| - | nd Raja Sekaran, "Componei | | | | | | | , 2007. | |
| 6 G.Sudha | Sadasivam, "Component - Ba | | | | | | | | |

| K.S. | Rangasamy College of Techn | ology - / | Auton | omou | s Reg | Julation | | R 20 | 008 |
|-----------------------------------|--|-----------------------|-------------------|------------------|-------------------|------------------------------|---------------------|---------------------------|---------|
| Department | Information Technology | Progra | amme | Code | &Nam | ne Int | | B.Tech. n Technol | ogy |
| | | Semes | ster VI | | | | | | |
| Course Code | Course Name | | Hou | rs / W | 'eek | Credit | Ма | ximum Ma | arks |
| Course Coue | 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 worl e Compເ | king princ uting algor | rithms. |
| 1 WIREL | ESS COMMUNICATION FUND | AMENTA | LS | | Т | otal Hrs | | 9 | |
| Propagation – Cellular Wireles | | pread sp | | | AC – | SDMA – FI | | | |
| | OMMUNICATION NETWORKS | | | | | otal Hrs | | 11 | |
| | ation systems – GSM – GPRS | | | | | | | | |
| | d Configurations – Capacity Allo SS LAN | cation – i | | | | otal Hrs | System | <u>s – Dab</u> 9 | - DVБ. |
| | - IEEE 802.11 - Architecture - | - service | s – M | AC – | Phys | ical laver - | IEEE 80 | 02.11a - 8 | 802.11b |
| standards – HI | PERLAN – Blue Tooth. | | | | | • | - | | |
| - | E NETWORK LAYER | | | | | otal Hrs | | 9 | |
| - | namic Host Configuration Protoc | | ing – [| DSDV | | | ve Metri | | |
| | PORT AND APPLICATION LAY | - | | | Т | otal Hrs | | 7 | |
| | P – Classical TCP improvements | s – WAP, | WAP | 2.0. | | | | | |
| Total hours to b | be taught | | | | | | | 45 | |
| Text book (s) : | | | | | | | | | |
| 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) |). | | |
| Chapter | Stallings, "Wireless Communi r – 7&10-Unit II Chap 9) | cations a | and N | etwork | κs", Ρ | HI/Pearson | Educatio | on, 2002. | (Unit I |
| Reference (s) : | | | | | | | | | |
| 2003 | Pahlavan, Prasanth Krishnamoo | - | - | | | | | | |
| Comput | ansmann, Lothar Merk, Mart ing", Springer, New York, 2003. | 1 | | | | | | • | Mobile |
| 3 Hazysz | tof Wesolowshi, "Mobile Commu | unication | Syster | ns", J | ohn W | /iley and Sor | ns Ltd, 2 | 002. | |

| K.S | Rangasamy College of Techn | ology - A | Auton | omou | s Reg | ulation | | R 20 | 008 |
|--------------------------------|--|-----------------------|------------------|--------------|-----------------|--------------|---------------------------|------------------------|----------|
| Department | Information Technology | Pro | gramr | ne Co | de &N | lame | | 1: B.Tech tion Tech | |
| | | Semes | ster VI | | | | | | |
| Course Code | Course Name | | Hou | rs / W | 'eek | Credit | Ma | ximum Ma | arks |
| Course Code | Course Name | | L | Т | Ρ | С | CA | ES | Total |
| 08210704C | GRAPHICS AND MULTIMEDI | | 3 | 1 | 0 | 4 | 50 | 50 | 100 |
| Objective(s) | To impart the fundamental c graphics techniques and alg technologies. To enable the st | orithms. | To st | udy t | he m | ultimedia c | | | |
| 1 OUTPL | JT PRIMITIVES | | | | Т | otal Hrs | | 9 | |
| Dimensional G | raphics System – Line Drawing eometric Transformations – Two | | | | | Ellipse Ger | nerating A | Algorithms | s –Two- |
| 2 THREE | -DIMENSIONAL CONCEPTS | | | | Т | otal Hrs | | 9 | |
| Color models - | onal Object Representations – Computer Animation | Three-Di | mensi | onal C | | | odeling T | ransforma | ations – |
| 3 MULTI | MEDIA SYSTEMS DESIGN | | | | Т | otal Hrs | | 9 | |
| Multimedia – D Schemes – Co | n – Multimedia Applications – Defining objects for Multimedia S lor, Grayscale and Still-Video Im MEDIA FILE HANDLING | Systems - | – Mul | timed | ia Dat ∕ideo | abases – E | Binary Ima | ige Comp | |
| Technologies - | e Format Standards –TIFF, R - Digital Voice and Audio – Vi nologies – Magnetic Media Tech | deo Imag | ge and | l Anir | nation | | | | |
| | MEDIA AUTHORING AND HYP | | | | | otal Hrs | | 9 | |
| Object Display Components – | thoring Systems – Hypermedia //Playback Issues – Hypermed Hypermedia Linking and Embe Components of Distributed Mult | dia Mess dding – (| aging Creatir | – M ng Hy | obile | Messaging | Hyper | rmedia M | lessage |
| Total hours to I | be taught | | • | | | | | 45 | |
| Text book (s) : | | | | | | | • | | |
| 1 Donald | Hearn and M.Pauline Baker, "C | omputer | Graph | ics C | Versic | n", Pearsoi | n Educatio | on, 2003. | |
| 2 Prabat | K Andleigh and Kiran Thakrar, "I | Multimed | ia Sys | tems a | and De | esign", PHI | 2003. | | |
| Reference (s) : | - | | | | | - | | | |
| 1 Judith | Jeffcoate, "Multimedia in practice | e technolo | ogy an | d App | licatio | ns", PHI, 19 | 998. | | |
| | Vandam, Feiner, Huges, "Cor edition 2003. | nputer G | Graphic | s: Pi | rinciple | es & Prac | tice", Pea | arson Ed | ucation, |

| | K.S.Ra | angasamy College of Tech | nnology - | Auto | nomo | us Reg | gulation | | R 2 | 008 |
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| Dep | partment | Information Technology | Prog | gramm | ne Cod | le &Na | ame | | : B.Tech. ion Techr | |
| | | | Seme | ester \ | /11 | | | | | |
| Cou | ırse Code | Course Name | | Ηοι | ırs / W | 'eek | Credit | Ma | ximum M | arks |
| Cou | | Course Maine | | L | Т | Р | С | CA | ES | Tota |
| 082 | 210707P | SOFTWARE COMPONEN | NTS | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| LIST | OF EXPERI | MENTS | | | | | | | | • |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 1. | COM CO | MPONENT: Development o | of simple c | om co | mpon | ents ir | ו VB and u | se them in | application | ons. [2 |
| 1. | COM CO example] | • | of simple c | om co | mpon | ents ir | n VB and u | se them in | applicatio | ons. [2 |
| 1. 2. | example] | • | · | | · | | | | applicatio | ons. [2 |
| | example]. ENTERP | | ying EJB f | or sim | ple ari | ithmeti | ic operator | | applicatio | ons. [2 |
| 2. | example] ENTERP RMI: Dep | RISE JAVA BEANS: Deploy | ying EJB f | or sim ns. [2 | , ple ari Exper | ithmeti iments | ic operator s]. | | applicatio | ons. [2 |
| 2. 3. | example]. ENTERP RMI: Dep Creation | RISE JAVA BEANS: Deploy loying RMI for client server | ying EJB f | or sim ns. [2 | , ple ari Exper | ithmeti iments | ic operator s]. | | applicatio | ons. [2 |
| 2. 3. 4. | example]. ENTERP RMI: Dep Creation Naming S | RISE JAVA BEANS: Deploy loying RMI for client server Of DLL Using VB And Deplo | ying EJB f | or sim ns. [2 | , ple ari Exper | ithmeti iments | ic operator s]. | | applicatio | ons. [2 |
| 2. 3. 4. 5. | example] ENTERP RMI: Dep Creation Naming S DSI, DII II | RISE JAVA BEANS: Deploy loying RMI for client server Of DLL Using VB And Deplo Services In CORBA | ying EJB f applicatio oy it in Jav | or sim ns. [2 /a [2 E | , ple ari Exper | ithmeti iments | ic operator s]. | | applicatio | ons. [2 |
| 2. 3. 4. 5. 6. | example] ENTERP RMI: Dep Creation Naming S DSI, DII II INTER O | RISE JAVA BEANS: Deploy loying RMI for client server Of DLL Using VB And Deplo Services In CORBA N CORBA. | ying EJB f applicatio oy it in Jav | or sim ns. [2 /a [2 E | , ple ari Exper | ithmeti iments | ic operator s]. | | applicatio | ons. [2 |

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| Dep | partment | Information Technology | Progra | amme | Code | &Nam | e In | | .Tech. Technol | ogy |
| | | | Sem | ester \ | /11 | | | | | |
| Cou | rse Code | Course Name | | Ηοι | urs / W | eek | Credit | Ма | ximum Ma | arks |
| Cou | | Course Marile | | L | Т | Р | С | CA | ES | Tota |
| 082 | 210708P | GRAPHICS AND MULTIN | 1EDIA | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| LIST | OF EXPERI | MENTS | | | | | | | | |
| 1. | | | | · · | | | | | | |
| 2. 3. 4. | Mid-point 2D Trans Cohen-Se | Bresenham's line drawing a circle and ellipse generatio formations such as translati utherland 2D clipping | on algorith ion, rotatio | ms. on, sca | aling, r | | on and shari | ng. | | |
| 2. 3. | Mid-point 2D Trans Cohen-Se | circle and ellipse generatio formations such as translati | on algorith ion, rotatio | ms. on, sca | aling, r | | on and sharii | ng. | | |
| 2. 3. 4. | Mid-point 2D Trans Cohen-Si 3D Trans | circle and ellipse generatio formations such as translati utherland 2D clipping | on algorith ion, rotatio | ms. on, sca | aling, r | | on and sharii | 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 | on algorith ion, rotatio | ms. on, sca | aling, r | | on and sharii | 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. | on algorith ion, rotatio | ms. on, sca | aling, r | | on and sharii | ng. | | |
| 2. 3. 4. 5. 6. 7. | Mid-point 2D Trans Cohen-So 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. | on algorith ion, rotatio | ms. on, sca | aling, r | | on and sharii | ng. | | |

| Dong | artment | Rangasamy College of Te | Programn | | | | | 21 | : B.Teo | R 2008 ch. |
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| Depa | artment | Information Technology | , î | | | x manne | | Informat | ion Teo | chnology |
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| Cours | se Code | Course Name | е | Ho | | Neek | Credit | _ | | m Marks |
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| 0821 | 0710P | CAREER COMPETENCY DEVELOPMENT V | | 0 | 0 | 2 | 0 | 100 | 00 | 100 |
| Obje | ctive(s) | i. To encourage the all ro ii.To improve the employa | ability of stude | nts. | | | | on soft s | skills. | I |
| 1 | | any type written test in Apt | | | | | | | <u> </u> | Hrs |
| | | Core company based que ical reasoning, Written con | | | | | | | alytical | 6 |
| | | itten Test | ninunication, F | TUGI | amm | ing anu | recifica | SKIIIS. | | 2 |
| 2 | | Discussion | | | | | | | | |
| | | D – Team work – Body | Language – M | lock | GDs | s – Vide | o Samples | 3 | | 6 |
| | | Group Discussion | | | | | | | | 2 |
| 3 | | w Skills(Technical Intervie | | | | | | | | |
| | | ssions on core subjects -C | omplex proble | m so | lving | in prog | ramming a | and core | | 6 |
| | | CTechnical Interviews echnical Interview | | | | | | | | 2 |
| 4 | | w Skills(HR Interview) | | | | | | | | <u>L</u> |
| | 1 | | na Maak Inta | | <u>ا ما</u> | /idea Cr | | | | 6 |
| | | erviews – Corporate cultur HR Interview. | re – wock intei | rview | 's – \ | /10e0 58 | ampies | | | |
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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.

| n.3 | Rangasamy College of Techn | ology - <i>I</i> | Autono | omou | s Reg | ulatior | ו | | R 2 | 800 |
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| Department | Information Technology | Progra | amme | Code | &Nam | ne | Inf | | 8.Tech. Techno | logy |
| | | Semes | ter VII | l | | | | | | |
| Course Code | Course Name | | Hou | rs / W | /eek | Cre | dit | Max | ximum 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 under | ers. T | o kno | w the | desigi | n and in | nplemen | tation c |
| 1 INTRO | DUCTION | | | | T | otal Hrs | 5 | | 8 | |
| | are and machine architecture Data and instruction formats – a | | | | | | | | | |
| 2 ASSEN | IBLERS | | | | T | otal Hrs | 5 | | 10 | |
| | RS AND LINKERS | | in onain | nple - | | otal Hrs | | | 9 | |
| 3 LOADE Basic loader fu loader features independent lo | unctions – Design of an Absolu – Relocation – Program Linking ader features – Automatic Libra | ite Loade g – Algor ary Searc | er – A ithm ar h – Lo | Simp nd Da ader | le Boo ta Stru Optior | otal Hrs otstrap uctures is – Lo | S Load for Li ader | er – Ma nking Lo design o | chine de bader – M | Iachine |
| 3 LOADE Basic loader fu loader features independent lo Editors – Dyna 4 MACR | unctions – Design of an Absolu – Relocation – Program Linking ader features – Automatic Libra mic Linking – Bootstrap Loaders O PROCESSORS | ite Loade g – Algor ary Searc s – Impler | er – A ithm ar h – Lo nentat | Simp nd Da ader ion e> | Te Boo ta Stru Optior cample | otal Hrs otstrap uctures ns – Lo e – MSI otal Hrs | S Load for Li ader DOS I | er – Mao Inking Lo design o inker. | chine de bader – M ptions – 9 | lachine Linkag |
| 3 LOADE Basic loader fulloader features independent lo Editors – Dyna MACR0 4 MACR0 Basic macro p structures – I Generation of Macro-Implement 5 SYSTE | unctions – 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 | ite Loade g – Algori ary Searc s – Impler finition a rocessor Macro E o Proces | er – A ithm ar h – Lo mentat nd Ex featu xpansi sor – A | Simp nd Da ader ion ex pansi res - on - | Ie Boo ta Stru Optior cample ample To on – I - Con Keyw C Mac | otal Hrs otstrap uctures is – Lo > – MSI otal Hrs Macro catena ord Ma ro lang otal Hrs | S Load for Li ader DOS I S Proce tion c acro I uage. S | er – Ma Inking Lo design o inker. ssor Alg of Macro Paramete | chine de pader – M ptions – 9 gorithm a porithm a porithm a param ers-Macr 9 | Aachine Linkag and dat neters to withi |
| 3 LOADE Basic loader fulloader features independent lo Editors – Dyna 4 MACR0 Basic macro p structures – I Generation of 5 SYSTE Text editors – Deb Criteria. | unctions – 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 bugging functions and capabilitie | ite Loade g – Algori ary Searc s – Impler efinition a rocessor Macro E o Process ss – Use | er – A ithm ar h – Lo nentat nd Ex featu xpansi sor – A | Simp nd Da ader ion e> pansi res - on - \NSI (face | Tile Boo ta Stru Optior cample on – I - Con Keyw C Mac – Edite | otal Hrs otstrap uctures is – Lo > – MSI otal Hrs Macro catena ord Ma ro lang otal Hrs or Stru | Load for Li ader DOS I Proce tion c acro I uage. s cture. | er – Ma inking Lo design o inker. essor Alg of Macro Paramete – Intera | chine de pader – M ptions – 9 gorithm a o Param ers-Macr 9 active de – User-l | Aachine Linkag and dat neters o withi buggin |
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| Depar | tment | Information Technology | Pro | 0 | mme Cod Name | e & | _ | 1: B.Tech. tion Techno | ology |
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| Course | Code | Course Name | Ho | urs / | Week | Credit | N | laximum M | |
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| 08210 |)641E | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Object | . , | To understand, design and in implement a parser, understand of | | | | | | | sign and |
| 1 | | DUCTION TO COMPILERS | | | Total | | | 9 | |
| Phases - | Compile tion of Tol | sis of the source program – Phase er construction tools - Lexical A kens. X ANALYSIS | es of a nalysis | con ; - I | npiler – C Role of L Total | exical Ar | the Cor alyzer - | npiler – Gro - Input Bu - 9 | ouping of Iffering – |
| Role of t Parsing - | he parser Predictiv SLR Pars | - Writing Grammars –Context-Fro e Parsing – Bottom-up parsing - S ser - Canonical LR Parser - LALR F | Shift R | eduo | ars – Top ce Parsing | o Down p g – Opera | | Recursive | |
| 3 | | IEDIATE CODE GENERATION | | | Total | | | 9 | |
| | ching – Pr | ages – Declarations – Assignment ocedure calls. | State | nent | | | ssions – | Case State | ements – |
| 4 | | GENERATION | | | Total | | | 9 | |
| and Flow | | n of code generator – The target - Next-use Information – A simple tion. | | | | | | | |
| 5 | CODE C | OPTIMIZATION AND RUN TIME | | | Total | Hrs | | 9 | |
| Flow Ana | alysis – Ru | ipal Sources of Optimization – O intime Environments – Source Lan s to non-local names – Parameter | guage | issu | | | | | |
| | irs to be ta | aught | | | | | | 45 | |
| Text boo | | | | | | | | | |
| 1 | | ho, Ravi Sethi, Jeffrey D Ullman, on Asia, 2003. | "Com | piler | s Principl | es, Techr | niques a | nd Tools", | Pearson |
| Referenc | ., | | | | | | | | |
| 1 | | lolub "Compiler Design in C", Pren | | | | | | | |
| 2 | | scher and R. J. LeBlanc, "Crafting a | • | | | - | • | | |
| 3 | | net, "Introduction to Compiler Tech | | | | - | | | |
| 4 | | plas and Albert Nymeyer, "Practice | | | • | • | • | | |
| 5 | Kenneth | C. Louden, "Compiler Construction | n: Prin | ciple | es and Pra | ctice", Th | ompson | Learning, 2 | 2003. |

| K.S. | Rangasamy College of Techn | ology - A | Auton | omou | s Reg | ulation | | R 20 | 008 |
|---|---|---|-------------------------------------|-----------------------------------|--------------------------------------|---|---|--|---------------------------------|
| Department | Information Technology | Pro | gramr Na | ne Co ime | de & | Ini | | B.Tech. h Technol | οαν |
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| | | | Hou | rs / W | eek | Credit | Ma | ximum Ma | arks |
| Course Code | Course Name | | L | Т | Р | С | 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 gain 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 | ledge age, l ctions s in c | which nave a which compu | n has an uno n trans ter so | application derstanding form a finite ience, be e nonoids and | in expert in identif set into xposed | t system, iying patta another fi to conce | in data erns on inite set |
| | ITIONAL CALCULUS | | | | | Total Hrs | | 9 | |
| Truth tables – DeMorgan's La | Logical connectives – Compou Tautologies and contradictions ws - Normal forms – Principal o lidity of arguments. | s – Cont | trapos | itive - | - Logi | cal equivale | ences ar | id implica | ations – |
| 2 PREDICA | ATE CALCULUS | | | | | Total Hrs | | 9 | |
| 3 SET THE Basic concepts – Relations on | Notations – Subset – Algebra sets –Types of relations and th lations –functions – Classification | a of sets - neir prope | erties | – Rela | ational | matrix and | the grap | oh of a re | lation - |
| | & BOOLEAN ALGEBRA | | | | | Total Hrs | | 9 | |
| | I – Poset – Hasse diagram – I and minimization of Boolean fun | | and th | eir pro | opertie | es – sublatti | ces - Bo | olean Al | gebra - |
| 5 GROUPS | | | | | | Total Hrs | | 9 | |
| Algebraic syste semigroups and | ms – Definitions – Examples – d Submonoids - Cosets and Lag | Propert range's t | ies – : heorei | Semig n – No | roups ormal | – Monoids subgroups. | – Homo | morphism | ı – Sub |
| Total hours to b | be taught | | | | | | | 45 | |
| Text book (s) : | | | | | _ | | | | |
| Tata McC | J.P and Manohar R, "Discrete M Sraw–Hill Pub. Co. Ltd, New Del | hi, 2003. | | | | | | - | |
| Pearson | Grimaldi, "Discrete and Comb Education Asia, Delhi, 2002. | inatorial | Mathe | matics | s: An | Applied Intro | oduction | ', Fourth | Edition, |
| Reference (s) : | | | <u> </u> | | | <u> </u> | | | |
| Indian rep | Kolman, Robert C. Busby, Sh print, Pearson Education Pvt Ltd | ., New D | elhi, 2 | 003. | | | | | |
| | H.Rosen, "Discrete Mathematics Delhi, 2003. | s and its A | Applica | ations' | ', Fifth | Edition, Tat | a McGra | w – Hill F | ub. Co. |
| | ohnsonbaugh, "Discrete Mather | | | | | | | | |

| K.S. | Rangasamy College of Techno | ology - / | Auton | omou | s Reg | Julation | | R 20 | 008 |
|--|---|--|--|---|---|--|---|---|---|
| Department | Information Technology | Pro | gramr | | de & | Inf | | B.Tech. | |
| | | Seme | | me | | Ini | ormalio | n Technol | ogy |
| | | Como | | rs / W | eek | Credit | Ma | aximum M | arks |
| Course Code | Course Name | | L | Т | P | C | CA | ES | Total |
| 08210643E | EMBEDDED SYSTEMS | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Aim | To give sufficient background for | | - | | | | - | | |
| Objective(s) | To introduce students to the en and buses used for embedde programming in C and C++, e and an exemplary case of MUC | ed netwo explain COS – II | orking, real tir | expla ne op | ain pr | ogramming o g systems, i | concept inter-tas | s and em sk commu | bedded |
| | JCTION TO EMBEDDED SYSTI | | | | | Total Hrs | | 9 | |
| embedded into use of VLSI des | | dded Sy | stems | | | | | | |
| 2 DEVICES | S AND BUSES FOR DEVICES N | IETWOF | RK | | | 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 bus | vices - ' | | | | | | | |
| 3 PROGRA | MMING CONCEPTS AND EMB | |) | | | Total Hrs | | 9 | |
| | assembly language (ALP) vs | . High | Level | Langu | lage | - C Program | n Eleme | ents, Mac | ros and |
| functions -Use of | of Pointers - NULL Pointers - Us | e of Fur | nction | Calls | – Mul | tiple function | calls in | a Cyclic (| Order in |
| | on Pointers – Function Queues ss compiler – Optimization of me | | | Servic | e Rou | itines Queue | es Pointe | ers – 'C' F | rogram |
| | AE OPERATING SYSTEMS – P | | | | | Total Hrs | | 9 | |
| SYSTEMS : R performance m Monotonics Co Section Service COMMUNICAT Inversion Proble or mutex as Re | rocess, tasks and threads – Int FOS Task scheduling models etrics – Co-operative Round Re- operative Scheduling) – Preer by a Preemptive Scheduler – F ION AND SYNCHRONISATION em and Deadlock Situations – In esource key – Message Queue | - Handli obin Sc mptive S ixed (Sta N – Sha nter Proc | ing of heduli Sched atic) R ared d cess C | task ng – uling eal tin ata pi commu | scheo Cyclic Mode ne sch robler unicat | Iuling and la Scheduling I strategy by neduling 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 |
| Procedure Calls 5 REAL TIN | AE OPERATING SYSTEMS – P. | ART - 2 | | | | Total Hrs | | 9 | |
| Study of Micro Service Functio Functions – Mai – Understanding | C/OS-II or Vx Works or Any o ns – Time Delay Functions – Ibox Related Functions – Queue g Case Definition – Multiple Task rry Coding Steps. | ther po Memory Related | pular I y Alloo d Func | ation: | Relat – Cas | TOS System ted Function e Studies of | Level s – Se Prograr | Functions maphore mming with | Related |
| Text book : | | | | | | | | 45 | |
| | , Embedded Systems Architectu | ure, Prog | gramm | ning a | nd De | sign, TATA | McGrav | v-Hill, Firs | t reprint |
| Reference (s) : | | | | | | | | | |
| | ath Embedded Systems Design, | Second | d Editio | on-200 |)3, Ne | wnes. | | | |
| 2 David E.S | Simon, An Embedded Software F | Primer, F | Pearso | n Edu | catior | n Asia, First I | ndian R | eprint 200 | 0. |
| India, Mo 4 Frank Va | /olf, Computers as Components; rgan Kaufman Publishers, First I ahid and Tony Givargis, Eml on, John Wiley, 2002. | ndian R | eprint | 2001. | | | - | - | |

| | K.S. | Rangasamy College of Techn | ology - / | Auton | omou | s Reg | ulation | | R | 2008 |
|----------------------|-----------------------------------|--|------------------|-------------|--------------|--------|-------------|-----------------------|---------------------|---------------|
| Dep | artment | Information Technology | Pro | gramr Na | ne Co Ime | de & | | | B.Tech. on Techn | ology |
| | | | Semes | ter – V | Ί | | | | | |
| Cour | se Code | Course Name | | Hou | rs / W | eek | Credit | N | laximum | Marks |
| Coul | se coue | Course Name | | L | Т | Ρ | С | CA | ES | Total |
| 082 | 10644E | SOFTWARE QUALITY MANAGEMENT | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Obje | ective(s) | To Understand the Concept process Assessment, underst software standards, understa detect Prevention in software. | stand the | softw | are c | onfigu | inciples, l | inagemei Inderstai | nt, under | stand the |
| 1 | INTROD | | | | | | | otal Hrs | | 9 |
| – Im | plementati | ss assessment overview – Asse on consideration – Quality r Validation. | | | | | | | | |
| 2 | CONFIG | URATION MANAGEMENT | | | | | ٦ | otal Hrs | | 9 |
| audit. 3 Defin | SOFTWA itions – R ws – Insp | ontrol – The implementation ph ARE STANDARDS AND INSPE eason for software standards ection of objectives – Basic ir | CTION – Benef | its – I | Establ | ishing | standard | otal Hrs s – Guic | lelines – | 9 Types of |
| 4 | 0 | AND MANAGEMENT SOFTW | ARE QU | ALITY | , | | 1 | otal Hrs | | 9 |
| Time | testing - | les – Types – Planning – Deve Quality management paradigm program – Estimating software | n – Quali | | | | | | | |
| 5 | | PREVENTION | • | | | | 1 | otal Hrs | | 9 |
| consi | deration - | oftware defect prevention – - Managements role – Frame s change. | | | | | | | | |
| | hours to b | | | | | | | | | 45 |
| Text I | book : | | | | | | | | 1 | |
| 1 | Watts S. | Humphrey, Managing the softw | are proce | ess, A | ddisor | Wes | ley, 1999. | | | |
| Refer | ence (s) : | | | | | | | | | |
| 1 | Tsum S.0 | Chow, Software Quality Assurar | nce a Pra | ctical | Appro | ach, I | EEE Com | outer Soc | iety press | s, 1985. |
| 2 | Richard E | E. Fairley, Software Engineering | g – A Pra | ctition | er's ap | proad | h, McGra | w Hill, 19 | 82. | |
| | | | | | | | | | | |

| K.: | S.Rangasamy College of Techn | ology - / | Auton | omou | s Reg | ulation | | R 2 | 008 |
|-----------------------------------|--|------------|----------|--------------|--------|--------------------------------|-------------------|------------|-----------|
| Department | Information Technology | Pro | gramr | ne Co ame | de & | Inf | 21: B ormation | Tech. | oav |
| | | Seme | | | | | ormation | Technol | ogy |
| | | Como | | rs / W | eek | Credit | Max | kimum M | arks |
| Course Code | e Course Name | | L | T | P | C | 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. | 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 | d auth | entica | ation and H | ash func | tions, kr | |
| 1 INTR | ODUCTION | | , | | | Total Hrs | | 10 | |
| Block cipher of - Placement of | architecture - Classical encryption design principles and modes of op of encryption function – Traffic con | peration - | - Evalu | | | a for AES – | | her – Trij | |
| _ | LIC KEY CRYPTOGRAPHY | | | | | Total Hrs | | 10 | |
| | nent – Diffie - Hellman key excha eory – Confidentiality using symm | | | | | | | | oduction |
| | HENTICATION AND HASH FUNC | | | | | Total Hrs | | 9 | |
| Security of ha | n requirements – Authentication sh functions and MACs – MD5 M signatures – Authentication proto | lessage | Digest | algor | ithm - | Secure Has | | | |
| | NORK SECURITY | | 0 | 0 | | Total Hrs | | 8 | |
| | n applications: Kerberos – X.50 ecurity – Web security. | 9 Authei | nticatio | on sei | vice | Electronic | mail se | curity – | PGP – |
| | TEM LEVEL SECURITY | | | | | Total Hrs | | 8 | |
| | ction – password management – les – Trusted systems. | Viruses a | and re | ated 7 | Threat | s – Virus cou | unter mea | asures – | Firewall |
| Total hours to | be taught | | | | | | | 45 | |
| Text book : | | | | | | | | | |
| | am Stallings, "Cryptography And , Third Edition, 2003. | Network | Secu | rity – | Princ | ples and Pr | actices", | Prentice | Hall of |
| Reference (s) | | | | | | | | | |
| | Kahate, "Cryptography and Netwo | | • | | | | | | |
| _ | e Schneier, "Applied Cryptograph | • | • | | | | | | |
| 4 | les B. Pfleeger, Shari Lawrenc ation, 2003. | e Pfleeg | ger, "S | Securit | iy in | Computing", | Third E | Edition, I | Pearson |

| K.S | Rangasamy College of Techn | ology - Aut | onom | ous R | egula | tion | | R 20 | 008 |
|--|--|---|--------------------------|-------------------------|--------------------------|--------------------------------------|------------------------------------|-------------------|-----------|
| Department | Information Technology | Progra | mme (Name | | <u>k</u> | Inf | | .Tech. Technol | ogy |
| | | Semester | · VI | | | | | | |
| Course Coode | Course Norse | | Hou | rs/We | eek | Credit | Max | kimum Ma | 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, un | dersta | nd Co | ncept | s needed | d for distr | | |
| 1 JAVA FL | INDAMENTALS | | | | | otal Hrs | | 9 | |
| - Threading | ning – filter and pipe streams – I Java Native Interfaces- Swing. | Byte code int | terpret | ation - | | | ynamic F | | Classes |
| 2 NETWO | RK PROGRAMMING IN JAVA | | | | Т | otal Hrs | | 9 | |
| Remote metho | vices. ATIONS IN DISTRIBUTED ENV d Invocation – activation mode – CORBA – IDL technology | els – RMI ci | | | ts – | | | | |
| | TER APPLICATION DEVELOP | MENT | | | Т | otal Hrs | | 9 | |
| communication streaming appli | gramming – servlets – Java Se - JDBC – using BLOB and CLC cations – Java media Framewo PRISE APPLICATIONS |)B objects – | | | media | | | | |
| Server side co | | | | | | - | L | Dorojeto | |
| beans – Transa | mponent architecture – introduc actions. | tion to J2EE | E – ses | ssion t | beans | s – entity | beans - | Persister | nt entity |
| | actions. | tion to J2EE | E – ses | ssion t | beans | s – entity | beans – | 45 | nt entity |
| beans – Transa | actions. | ction to J2EE | E – ses | ssion t | beans | s – entity | beans – | | nt entity |
| beans – Transa Total hours to b Text book (s) : | actions. | | | | | - | | | nt entity |
| $\begin{array}{c c} beans - Transa \\ \hline Total \ hours to b \\ \hline Text \ book \ (s) : \\ \hline 1 & Elliotte \ R \\ \hline 2 & Ed \ Roma \end{array}$ | actions. be taught tusty Harold, " Java Network Pro an, "Mastering Enterprise Java E | ogramming", Beans", John | O'Reil Wiley | ly pub | lisher | s, 2000 (., 1999. (| UNIT II) UNIT III (| 45 and UNIT | · V) |
| beans – TransaTotal hours to bText book (s) :12Ed Roma3Hortsma (UNIT La) | actions. be taught custy Harold, " Java Network Pro an, "Mastering Enterprise Java E nn & Cornell, "CORE JAVA 2 and UNIT IV). | ogramming", Beans", John | O'Reil Wiley | ly pub | lisher | s, 2000 (| UNIT II) UNIT III (| 45 and UNIT | · V) |
| beans – TransaTotal hours to bText book (s) :1Elliotte R2Ed Roma3Hortsma(UNIT LaReference (s) : | actions. be taught tusty Harold, " Java Network Pro an, "Mastering Enterprise Java E nn & Cornell, "CORE JAVA 2 and UNIT IV). | ogramming", Beans", John | O'Reil Wiley | ly pub | lisher | s, 2000 (| UNIT II) UNIT III (| 45 and UNIT | · V) |
| beans – Transa Total hours to b Text book (s) : 1 Elliotte R 2 Ed Roma 3 Hortsma (UNIT La Reference (s) : 1 1 Web reference | actions. be taught custy Harold, " Java Network Pro an, "Mastering Enterprise Java E nn & Cornell, "CORE JAVA 2 and UNIT IV). | ogramming", Beans", John ADVANCEI | O'Reil Wiley D FEA | ly pub & Sor TURE | lisher ns Inc S, V | s, 2000 (., 1999. (OL II", P | UNIT II) UNIT III a earson E | 45 and UNIT | · V) |

| К. | S.Rangasamy College of Te | chnology - | Autono | mou | s Regu | lation | | R | 2008 |
|------------------------------------|---|-----------------------|---------|------------------|--------------------|------------------------|--------|-------------------|------------|
| Department | Information Technology | Programm | ne Code | e & Na | ame | 2 Informa | 1: B.T | | logy |
| | | Semes | tor \/l | | | IIIOIIIIa | | echno | iogy |
| | | Semes | | | Week | Credit | Ma | vimun | n Marks |
| Course Code | Course Name | | 1 | T | P | Credit | CA | ES | Total |
| 08210647E | FUNDAMENTALS OF IT | | 3 | 0 | Р 0 | 3 | 50 | ⊑3 50 | 100 |
| Objective(s) | To introduce the fundamer basic TDBMS concepts. | ntals of comp | - | | - | - | | | |
| 1 COMPUTE | ER ARCHITECTURE AND S | YSTEM SOF | TWARE | | | Total Hrs | | | 9 |
| Input/output De Loaders and lir | of Computer Architecture – evices – Measure of CPU Pe nkers – Compilers and interpr | rformance – eters. | Addres | all Co sing r | omputer nodes - | - System Sof | of the | e Instr – Asse | emblers – |
| | NG SYSTEMS AND COMPU tem – memory manageme | | | | | Total Hrs | | | 9 |
| Introduction to | ND DATABASE DESIGN DBMS – data processing – ations – Normalization – Nee | | | | | | | | |
| 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) : | | | | | | | | • | |
| | n Program Books Vol-1 and V | Vol-2, Infosys | 5. | | | | | | |
| 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 | ill Inte | ernational |

| K.S. | Rangasamy College of Techn | ology - Aut | onom | ous R | egula | ation | | R 20 | 800 |
|--------------------------|---|-----------------------------|---------|----------|---------|------------|------------|-------------------|-----------|
| Department | Information Technology | Programm | ne Co | de &Na | ame | Inf | | .Tech. Technol | ogy |
| | | Semester | VII | | | | | | |
| Course Code | Course Name | | Hou | rs/We | eek | Credit | Ma | kimum Ma | arks |
| Course Coue | Course Maine | | 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. | • | | | 0 | | | |
| Objective(s) | etc, develop network programs tier applications; understand is | s in Java, un | dersta | nd Co | ncep | ts needed | for distr | | |
| 1 INTROD | | | | | | otal Hrs | | 9 | |
| server, client se | omputing era, Real Client /Serverver for different models, buildir | ng blocks. | ers or | fat clie | | | 3 Tier, Ir | • | ic client |
| | SERVER OPERATING SYSTE | | | | | otal Hrs | | 9 | |
| MAC OS, Linux | rver Programs, Server needs OS, Win OS Server OS trends | | | | ver, (| DS/2 warp | | | trends, |
| | SERVER MIDDLEWARE | | | | | otal Hrs | | 9 | |
| messaging an MOM Vs RPC, | are global directory service, d peer to peer Sockets, NetW Evolution of the NOS, DEC, The | are, NetBIO e enterprise | S, rem | note pr | oced | ure call, | | | |
| | SERVER TRANSACTION PRO | | | | | otal Hrs | | 9 | |
| Management, 7 | es, Transaction Models, TP IP Monitor Client / Server Inter TP Heavy - Managing Heteroge | action types | , trans | action | al RF | C, Queu | es, TP L | | |
| 5 CLIENT | SERVER AND INTERNET | | | | ٦ | 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 | e taught | | | | | | | 45 | |
| Reference Boo | ks (s) : | | | | | | | | |
| Wiley & S | orfail, Dan Harkey Jeri Edwards Sons, Singapore, 2003. | | | | | | | | |
| ² Oriented | .Goldman, Phillip T.Rawles, Ju Approach",John Wiley& Sons, | Singapore, 2 | 2000. | | | | • | | |
| ³ 2001. | hnson, "A complete guide to Cl | | | | | | | Hall Nev | w Delhi, |
| 4 Smith & | Guengerich," Client / Server Co | mputing ", Pi | rentice | Hall,N | iew D | elhi, 200 | 2 | | |

| K.S | Rangasamy College of Tec | hnology - | Auto | nomol | ıs Reg | gulation | | R 2 | 008 |
|-------------------------------------|--|-------------|---------|---------|--------|--------------------------|-----------|----------------|------------|
| Department | Information Technology | Progra | imme | Code a | &Nam | e La | | .Tech. | |
| · | | Ĵ | | | | Inf | ormatior | Technol | ogy |
| | 1 | Seme | ester \ | | | | | | |
| Course Code | Course Name | | | ırs / W | | Credit | | ximum M | 1 |
| | | | L | Т | Р | С | CA | ES | Total |
| 08210752E | DISTRIBUTED COMPUTIN | | 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 s | ystems. |
| 1 INTRODU | JCTION | | | | | Total Hrs | | 9 | |
| Communicatio | s and distributed objects n – Layered Protocols - ATM | networks | – Clie | ent ser | ver m | Total Hrs odel – remo | te proce | 9 dure call | – group |
| communication 3 Operating | n. g System Issues - I | | | | | Total Hrs | | 9 | |
| | | Mutual | | | | | | | |
| | n – Clock Synchronization - hreads – System models – | | | | | | | | |
| | y System Issues - II | | | | | Total Hrs | | 9 | |
| Distributed file replication -mu | systems Distributed file systure of the systems of the system of the sys | tem desig | n — im | pleme | ntatio | | els – fau | ılt tolerar | nce - 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 : | | | | | | | | | |
| | | | | | | | 0001 | | |
| 1 Andrew S | 3.Tanenbaum,"Distributed Ope | erating Sys | tems" | , Pears | son Eo | ducation Asia | , 2001. | | |
| 1 Andrew S Reference (s) | · · · · · | erating Sys | tems" | , Pears | son Eo | ducation Asia | , 2001. | | |
| Reference (s) | · · · · · | 0.1 | | - | | | | a McGrav | v Hill. |

| K.S | Rangasamy College of Tecl | nnology - | Auto | nomol | us Re | gulation | | R 2 | 800 |
|---------------------|---|------------|---------|---------|---------|---------------|-----------|----------------------|---------|
| Department | Information Technology | Progra | amme | Code | &Nam | e Inf | | 3.Tech. 1 Technol | ogy |
| | | Seme | ester V | /11 | | | | | |
| Course Code | Course Name | | Ηοι | ırs / W | eek | Credit | Ma | ximum M | arks |
| Course Code | Course Name | | L | Т | Ρ | С | CA | ES | Total |
| 08210753E | GRID COMPUTING | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(s) | To understand the concept on the concept of the technology of | | | | | | | | g. |
| 1 GRID CO | MPUTING | | | | | Total Hrs | | 9 | |
| Introduction - D | Definition - Scope of grid comp | uting | | | | | | | |
| 2 GRID CO | MPUTING INITIATIVES | | | | | Total Hrs | | 9 | |
| Grid Computing | g Organizations and their role | s – Grid C | omput | ing an | atomy | - Grid Com | puting ro | ad map. | |
| 3 GRID CO | MPUTING APPLICATIONS | | | | | Total Hrs | | 9 | |
| Merging 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 | | | | | | | es , A higl | n-level |
| 5 GRID CO | MPUTING TOOL KITS | • | | | | Total Hrs | | 9 | |
| Globus Toolkit | - Architecture, Programming | model, Hi | gh leve | el serv | ices | | | | |
| Total hours to l | be taught | | | | | | | 45 | |
| Text book : | | | | | | | • | | |
| 1 Joshy Jos | eph & Craig Fellenstein, "Gric | l Computir | ng", Pł | HI, PTI | R-200 | 3. | | | |
| Reference (s) : | | | | | | | | | |
| 1 Ahmar Ab 2003. | bas, "Grid Computing: A Prac | tical Guid | e to te | chnolc | ogy an | d Application | s", Char | les River | media – |
| 2 D.Janakir | am, "Grid Computing": A Rese | earch Mon | ograpl | n, Tata | NcG | raw-Hill,2005 | | | |

| | K.S. | Rangasamy College of Tech | nnology - | Auto | nomou | is Re | gulation | | R 2 | 800 |
|-------|--|---|-----------------------|-----------------|--------------------|-------------------|------------------------------|-----------|----------------------|----------|
| Dep | partment | Information Technology | Progra | imme | Code a | &Nam | e In | | 3.Tech. n Technol | ogy |
| | | | Seme | ester \ | /11 | | | | | |
| Cou | rse Code | Course Name | | Ηοι | urs / W | eek | Credit | Ma | ximum M | arks |
| Cou | | Course Marine | | L | Т | Ρ | С | CA | ES | Total |
| 082 | 10754E | HIGH PERFORMANCE NETWORKS | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Obj | ective(s) | To understand the concept Performance Networks. To Networks | | | | | | | | |
| 1 | INTRODU | CTION | | | | | Total Hrs | | 9 | |
| | | n networks, network princ n, network services, elements | | | ons, | QoS, | (network | and ap | olication), | Traffic |
| 2 | BROADB | AND ISDN | | | | | Total Hrs | | 9 | |
| | c and cong | tecture - Main Features of AT jestion control, Flow control, e | | | | | | | | ng, ATM |
| 3 | | S NETWORK – infrastructure, ADHOC netv | | | | | Total Hrs | | 9 | |
| ATM | | I Access and MAC sub layers NETWORKS | s; Blue too | oth — ı | user so | enario | os, Networki Total Hrs | ng and s | ecurity - ' 9 | Wireless |
| Optio | cal links, W | DM systems, optical cross co | nnects, o | otical I | _ANS, | optica | al paths and r | networks | | |
| 5 | PERFORM | MANCE MEASURES | | | | | Total Hrs | | 9 | |
| | | cell transfer delay, cell delay parameters. | variation | , cell l | oss rat | io, bu | ffer over flow | / probabi | lity; wirele | ess |
| Tota | I hours to b | be taught | | | | | | | 45 | |
| Text | book : | | | | | | | | | |
| 1 | Ltd., 2 nd e | and and Pravin Varaiya, "Hig dition, 2001. Chapters 1, 2, 11 | | | | | | | | |
| 2 | 2001. Cha | ISDN and broadband ISDN wapters 14, 16, 17, Appendix A. | | | | | | | | |
| 3 | First Edition | hlavan, Prashant Krishnamu on, 2002, Chapters 10, 11, 12 | | ciples | of Wi | reless | s Networks", | Pearsor | n Educati | on Asia, |
| Refe | rence (s) : | | | | | | | | | |
| | VA/ - 11 | | | | | | 2001 | | | |
| 1 | | ralski, "Optical Networking an | | | | | | | | |
| | Neelakant First editio | a P.S., "A textbook on ATM on; 2000. | Telecom | munica | ation F | rincip | les and Imp | | ion", CR(| C Press, |
| 1 | Neelakant First editic John A. V | a P.S., "A textbook on ATM | Telecomi etworks H | munica andbo | ation F ok", Ta | Princip ata Mo | les and Imp Graw- Hill, 2 | 2001. | | C Press, |

| K.S | Rangasamy College of Te | chnology - Au | tonomo | ous R | egulat | tion | | R 2 | 2008 |
|--|--|------------------|-----------|---------|---------|-------------|-------------------|-----------------|------------|
| Department | Information Technology | Programm | ne Code | &Na | me | Inf | 21: B ormation | .Tech. Techn | ology |
| | | Semester | · VII | | | | | | |
| O a uma a O a da | Course Norse | | Hour | s/We | eek | Credit | Max | imum I | Marks |
| Course Code | Course Name | <u>;</u> | 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 | | | | | | |
| 1 ANALYSIS | S OF ALGORITHMS | | | | | | Total Hrs | 3 | 9 |
| Algorithmic T sort – Insertion | ADA – Code Tuning Techniq echniques – Linear search – sort – Intractable Problems. | | | | | uick sort - | - Merge | | Selection |
| | ORIENTED CONCEPTS Object oriented concepts – | | | | | | otal Hrs | | 9 |
| Inheritance – A Technology. | Abstract classes – Polymorph DEVELOPMENT METHODO | nism – Object o | | | | thodology | | | |
| | | | - | £4 | - D - | | | | - |
| | opment Methodology – Evolu esign – Software Constructio | | | | | | wodels | – Req | uirement |
| 4 CLIENT SE | ERVER CONCEPTS | | | | | | otal Hrs | | 9 |
| to Web Techno | | | - | ies – I | Middle | e ware teo | hnologie | s – Intr | oduction |
| 5 WEB TEC | HNOLOGIES & USER INTER | RFACE DESIG | N | | | Т | otal Hrs | | 9 |
| Introduction to User Interface | | | | | | | | | l Vs Bad |
| Total hours to b | be taught | | | | | | | | 45 |
| Text book (s) : | | | | | | | | | |
| | n Program Books Vol-2 and V | vol-3, infosys. | | | | | | | |
| Reference(s) : | . Andrew I Nevehilalii Ohia | | <u></u> | | A | | | a a la A | ما ما ام م |
| Wesley, 1 | | | Ū | 0 | | | | | |
| Wesley Pu | ho,John E.Hopcroft, Jeffrey ublishing Co., 1998 | | • | | • | • | Ū. | | Addison |
| | ssman, Software Engineering | | | - | | | ed., 200 | 1 | |
| 4 Wilbert O. | Galitz, Essential Guide to Us | er Interface De | sign, Jo | hn Wi | ley, 19 | 997 | | | |
| | | | | | | | | | |
| 5 Alex Berso | on, Client server Architecture .G., How to solve it by Comp | , Mc Grew Hill I | Internati | | 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 | | | | | | |
| 0 | | | | Hou | rs / W | eek | Credit | Max | 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 |
| Objec | ctive(s) | To understand the concept of To understanding the technolo | | | | | | | | 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 | | | | 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 | er Recov | ery - Disaster Recovery Plannin | g - Disas | ters in | the C | loud - | Disaster Ma | anageme | nt | |
| 5 | CLOUD | INFRASTRUCTURE | | | | Т | otal Hrs | | 9 | |
| Scaling | g a Cloud | Infrastructure - Capacity Planr | ning - Clo | ud Sc | ale - T | ypes | of Clouds - C | Comparir | ig Approa | aches |
| Total h | nours to b | e taught | | | | | | | 45 | |
| Text b | ook: | | | | | | | • | | |
| 1. | George ,O'Reilly | Reese, "Cloud Application Arcl | nitectures | s Build | ling A | pplica | tions and In | frastructu | ure in the | e Cloud" |
| Refere | ence (s) : | | | | | | | | | |
| 1. | | nderson, " Programming Googl cture ",O'Reilly, 2009 | e App Er | ngine | Build | and F | Run Scalable | e Web A | pps on (| Google's |

| K | S.Rangasamy College of Tec | hnology - | Autor | nomoi | us Re | gulation | | R 2 | 800 |
|----------------------------|---|---------------------------|------------------|---------------------|--------------------|----------------|--------------------|-------------------|----------|
| Departmen | Information Technology | Progra | mme | Code | &Nam | e In | 21: B formation | .Tech. Technol | ogy |
| | | Seme | ester V | / | | | | | |
| | | | Hou | irs / W | eek | Credit | Max | kimum M | arks |
| Course Cod | e Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210762E | C# AND .NET | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(s | The student will gain know technologies that constitute in basic and advanced leve and be ready for large-scal | the frame els. By buil | work. | The st | udent | will gain prog | gramming | , skills in | C# both |
| 1 INTRO | DUCTION TO C# | | | | | Total Hrs | | 8 | |
| Branching, L | #, Understanding .NET, Overv poping, Methods, Arrays, String | gs, Structu | Litera es, Er | ls, Var numera | iables ations. | | s, Operato | ors, Expr | essions, |
| | T ORIENTED ASPECTS OF C | | | | | Total Hrs | | 9 | |
| Classes, Ob Exceptions. | ects, Inheritance, Polymorphisi | m, Interfac | es, Op | erator | Over | oading, Dele | gates, Ev | vents, Er | rors and |
| 3 APPLI | ATION DEVELOPMENT ON .M | NET | | | | Total Hrs | | 8 | |
| Building Wir | dows Applications, Accessing E | Data with A | DO.NI | ET. | | | | | |
| 4 WEB B | SED APPLICATION DEVELO | PMENT O | N .NE | Г | | Total Hrs | | 8 | |
| U U | Web Applications with Web F | | Iramm | ing We | eb Ser | vices. | | | |
| 5 THE C | R AND THE .NET FRAMEWO | RK | | | | Total Hrs | | 12 | |
| Marshaling, | Versioning, Attributes, Reflec Remoting, Understanding Serv ing the Client, Using SingleCall | er Object | | | | | | | |
| Total hours | be taught | | | | | | | 45 | |
| Text book (s | : | | | | | | | | |
| 1 E. Bala | gurusamy, "Programming in C# | ", Tata Mc | Graw-l | Hill, Se | econd | Edition,2009 | (UnitI,II) | | |
| 2 J. Liber | y, "Programming C#", 4 th ed., C | D'Reilly, 20 | 07. (U | nit III, | IV, V) | | | | |
| Reference (|): | | | | | | | | |
| 1 Herber | Schildt, "The Complete Refere | nce: C# 2.0 | D" Tata | a McG | raw-H | ill, Second E | dition,200 |)5 | |
| | on et al, "Professional C#", 3rd I | | | | | | | | |
| 3 Andrew | Troelsen, "Pro C# 2005 and th | e.NET 2.0 | Platfo | rm" ,3 ^r | ^d Editi | on, Apress,2 | 005 | | |
| 4 "Under | tanding .NET 2/E" ,David Chap | pell, Pears | son Ed | ucatio | n, Seo | cond Edition, | 2006. | | |

| К.5 | S.Rangasamy College of Tec | hnology - | Autor | nomou | ıs Re | gulation | | R 2 | 008 |
|---------------------------------|--|--------------|----------|---------|--------|----------------|-------------------|-------------------|---------------------------|
| Department | Information Technology | Progra | mme | Code | &Nam | e Inf | 21: B ormation | .Tech. Technol | oav |
| | | Seme | ester V | /11 | | | onnation | TCOINIO | ogy |
| | | | | irs / W | eek | Credit | Max | kimum M | arks |
| Course Code | Course Name | | L | т | P | C | CA | ES | Total |
| 08210763E | CYBER LAWS AND INTELLECTUAL PROPERT RIGHTS | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(s) | To enable learners to under IP Trademarks and Agreem | | cyber | laws a | and in | tellectual pro | perty rigl | nts. To K | now the |
| - | OF ARREST WITHOUT WAR 0: A CRITIQUE | RANT UN | DER 1 | 'HE IT | | Total Hrs | | 8 | |
| cognizable of | s millennium-Section 80 of th fence. Necessity of Arrest w nst Arbitrary Arrests - Arrest bu | vithout wa | rrant f | romea | | | | | |
| 2 CYBER | CRIME AND CRIMINAL JUST | ICE | | | | Total Hrs | | 9 | |
| Virus on the Criminality-Str | ber crime and IT ACT 2000-F Internet-Defamation-Harass ategies to tackle Cyber Crime | ment and | E-m | | | Cyber Porno | | lature o | |
| | CTUAL PROPERTY RIGHTS | | | | | Total Hrs | | 9 | |
| | Invention and Creativity – In rty (i. Movable Property ii. Imn | | | | | | | n of IPR | Basic |
| 4 IP TRAD | E MARKS AND APPLICATION | ٧S | | | | Total Hrs | Í | 9 | |
| Definitions – I | Copyrights and related right ndustrial Designs and Integrat evels – Application Procedures | ed circuits | | | | | | | |
| 5 WIPO AN | ND GATT | | | | | Total Hrs | | 10 | |
| | convention relating to Intellect eral Agreement on Trade and | | | Establi | shme | nt of WIPO - | - Mission | and Ac | tivities – |
| Total hours to | be taught | | | | | | | 45 | |
| Text book (s) | : | | | | | | • | | |
| 1 Vivek So | od. "Cyber Law Simplified"-Ta | ta McGraw | /-Hill P | ublish | ing, S | econd Editior | n 2003. | | |
| | m N.R. "Handbook of India rs) Pvt. Ltd., 1998. | n Patent | Law | and | Practi | ce ", S. Vis | wanatha | n (Printe | ers and |
| Reference (s) | : | | | | | | | | |
| 1 Susan K | Sell, "The Globalization of Int | tellectual F | roper | y Righ | nts",ł | Kindle Edition | - Jun 23 | , 2003 | |

| | Rangasamy College of Techn. | ology - A | Autone | omou | s Reg | ulation | | R 20 | 008 |
|--|---|---|--|--|--|---|--|---|---|
| Department | Information Technology | Pro | ogramn Na | ne Co me | de & | Ini | | 3.Tech. n Technol | oav |
| | L | Semes | | | | | | | - 57 |
| | | | Hou | rs/W | eek | Credit | Ma | ximum M | arks |
| Course Code | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210764E | 3G WIRELESS NETWORKS | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(s) | To learn the basics of 3G Wir Spreading codes used in 3G Witelephone networks. To study procedures. To study 3G Wire RELESS COMMUNICATION FU | Vireless (the worki eless Netw | Comm ing prir vork se | unicat nciple: ervice: | ion. Τ s of 30 s,3G ι | o build work G Wireless N | ing knov letwork (| vledge on data trans | various |
| | G – Proposals for 3G Standard | | | | | | | • | |
| Radio-Channel Multiuser Detec Modulation. | Access Schemes – Spread S ction – TDD – Modulation Tech | Spectrum | – RA | KE F | Receiv Spect | er – Power rum – Sprea | Contro | I – Hand chniques | overs – |
| 2 CHANI | NEL CODING | | | | Т | otal Hrs | | 9 | |
| Cross-Correlati Codes – Convo 3 TELEC | es – Orthogonal Codes – Pseud on – Intercell Interference – O olutional Codes. Turbo Codes – COMMUNICATION NETWORKS meral Discussion. Evolution from | Channel Channel S | Coding Coding | g – C g in U | oding TRAN | Processes. | Coding | Theory 9 | – Block |
| Access Network Network Planr Congestion Cor | rk. GSM Radio Access Netwo ning – Network Planning Ter ntrol – Network Management – | rk. Interfa rminology | aces. [,] Net | Netwo work | ork Pr Plann | otocols. UM ing Proces | ITS Netv s – Ad | work Evo | lution – |
| | OCEDURES | | | | | | | | Control. |
| Procedures - | | | | | | otal Hrs | | 9 | |
| Random Acces Packet Access Prepaging - G Service Area. S | | n the UMT ast Servic | rS Net ce, Mu | r Pro work - Itimed | cedur – Loca dia Me ive M | es. Data T ations Servic essaging Se ultirate Cod | es. High rvice - | sion, Har I-Speed D Super-Ch port of Lo | ndovers. Downlink arger – |
| Random Access Packet Access Prepaging - G Service Area. S 5 3G SE | s Procedure – New Concepts in . Multimedia Broadcast/Multica ateway Location Register. Opt Smart Antennas RVICES | n the UMT ast Servic timal Rou | TS Net ce, Mu uting. / | r Pro work Itimeo Adapt | Ledur – Loca dia Me ive M | es. Data T ations Servic essaging Se ultirate Cod otal Hrs | es. High ervice - ec, Sup | sion, Har Speed D Super-Ch port of Lo 9 | ndovers. Downlink Darger – Docalized |
| Random Access Packet Access Prepaging - G Service Area. S 5 3G SE 3G Services Capabilities. Qu of 3G Applicati | s Procedure – New Concepts in . Multimedia Broadcast/Multica ateway Location Register. Opt Smart Antennas | n the UMT ast Servic timal Rou ervices. ns - Appli of 3G A | TS Net ce, Mu uting. / Beare ication pplicat | r Pro work - ltimeo Adapt - Ser Tech | cedure – Loca dia Me ive M vices nologi | es. Data T ations Servic essaging Se ultirate Cod otal Hrs Supplemen es. Multimed | es. High ervice - ec, Sup tary Se dia. Traff | sion, Har I-Speed D Super-Ch port of Lo 9 ervices. S ic Charac | adovers. Downlink Parger – Docalized Services Services |
| Random Access Packet Access Prepaging - G Service Area. S 3G Services Capabilities. Qu of 3G Applicati | s Procedure – New Concepts in . Multimedia Broadcast/Multica ateway Location Register. Opt Smart Antennas RVICES – Service Categories. Telese Juality of Service – 3G Application ons. M-Commerce. Examples Jpgrades. Downlink Bottleneck. | n the UMT ast Servic timal Rou ervices. ns - Appli of 3G A | TS Net ce, Mu uting. / Beare ication pplicat | r Pro work - ltimeo Adapt - Ser Tech | cedure – Loca dia Me ive M vices nologi | es. Data T ations Servic essaging Se ultirate Cod otal Hrs Supplemen es. Multimed | es. High ervice - ec, Sup tary Se dia. Traff | sion, Har I-Speed D Super-Ch port of Lo 9 ervices. S ic Charac | adovers. Downlink Parger – Docalized Services Services |
| Random Access Packet Access Prepaging - G Service Area. S 3 GSE 3GSErvices Capabilities. Qu of 3G Applicati Satellites. 3G U | s Procedure – New Concepts in . Multimedia Broadcast/Multica ateway Location Register. Opt Smart Antennas RVICES – Service Categories. Telese Juality of Service – 3G Application ons. M-Commerce. Examples Jpgrades. Downlink Bottleneck. | n the UMT ast Servic timal Rou ervices. ns - Appli of 3G A | TS Net ce, Mu uting. / Beare ication pplicat | r Pro work - ltimeo Adapt - Ser Tech | cedure – Loca dia Me ive M vices nologi | es. Data T ations Servic essaging Se ultirate Cod otal Hrs Supplemen es. Multimed | es. High ervice - ec, Sup tary Se dia. Traff | sion, Har I-Speed D Super-Ch port of Lo 9 ervices. S ic Charac - New Sp | adovers. Downlink Parger – Docalized Services Services |
| Random Access Packet Access Prepaging - Gi Service Area. S 3G Services Capabilities. Qu of 3G Applicati Satellites. 3G U Total hours to b Text book : | s Procedure – New Concepts in . Multimedia Broadcast/Multica ateway Location Register. Opt Smart Antennas RVICES – Service Categories. Telese Juality of Service – 3G Application ons. M-Commerce. Examples Jpgrades. Downlink Bottleneck. | n the UMT ast Servic timal Rou ervices. ns - Appli of 3G A 4G Visio | rS Net ce, Mu iting. / Beare ication pplicat n | r Pro work Itimeo Adapt Ser Tech ions. | cedure – Loca dia Me ive M ive M vices nologi Termi | es. Data T ations Servic essaging Se ultirate Cod otal Hrs Supplemer es. Multimed nals – The | es. High ervice - ec, Sup tary Se dia. Traff Future - | sion, Har I-Speed D Super-Ch port of Lo 9 ervices. S fic Charac - New Sp 45 | adovers. Downlink arger – Docalized Services deristics Dectrum. |
| Random Access Packet Access Prepaging - Gi Service Area. S 3G Services Capabilities. Qu of 3G Applicati Satellites. 3G U Total hours to b Text book : | s Procedure – New Concepts in . Multimedia Broadcast/Multica ateway Location Register. Opt Smart Antennas RVICES – Service Categories. Telese uality of Service – 3G Applicatio ons. M-Commerce. Examples Upgrades. Downlink Bottleneck. be taught | n the UMT ast Servic timal Rou ervices. ns - Appli of 3G A 4G Visio | rS Net ce, Mu iting. / Beare ication pplicat n | r Pro work Itimeo Adapt Ser Tech ions. | cedure – Loca dia Me ive M ive M vices nologi Termi | es. Data T ations Servic essaging Se ultirate Cod otal Hrs Supplemer es. Multimed nals – The | es. High ervice - ec, Sup tary Se dia. Traff Future - | sion, Har I-Speed D Super-Ch port of Lo 9 ervices. S fic Charac - New Sp 45 | adovers. Downlink arger – Docalized Services deristics Dectrum. |
| Random Access Packet Access Prepaging - Gas Service Area. S 5 3G SE 3G Services Capabilities. Quo of 3G Applicati Satellites. 3G U Total hours to b 1 Juha K Reference (s) : | s Procedure – New Concepts in . Multimedia Broadcast/Multica ateway Location Register. Opt Smart Antennas RVICES – Service Categories. Telese uality of Service – 3G Applicatio ons. M-Commerce. Examples Upgrades. Downlink Bottleneck. be taught | the UMT ast Servic timal Rou ervices. ns - Appli of 3G A 4G Visio | TS Net ce, Mu uting. Beare ication pplicat n | r Pro work - ltimed Adapt - Ser Tech ions. | Loca – Loca dia Me ive M vices nologi Termi | es. Data T ations Servic essaging Se ultirate Cod otal Hrs Supplemen es. Multimeo nals – The cond Edition | es. High ervice - ec, Sup tary Se dia. Traff Future - | sion, Har I-Speed D Super-Ch port of Lo 9 ervices. S fic Charac - New Sp 45 | adovers. Downlink arger – Docalized Services deristics Dectrum. |

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| | | | | L | Т | Р | 0 |) | CA | ES | Total |
| 0821 | 0871E | INFORMATION SYSTEM DES | | 3 | 0 | 0 | 3 | - | 50 | 50 | 100 |
| Obje | ctive(s) | To know the basics of managemaintenance of information sy and information systems. To k | /stems. 7 | o und | erstai | nd bas | sic issu | ues in | knowled | dge mana | gemen |
| 1 | MANAG | ING THE DIGITAL FIRM | | | | Т | otal H | rs | | 9 | |
| syster applic inform | ms- major ations – o nation syst | n systems – contemporary a types of systems in organiz rganizations and information sy ems and business strategy. | ations – ystems – | syste | ms fi | rom a decisio | funct on mal | ional king a | perspec | tive – er nation sy | terprise |
| 2 | DESIGN | IING INFORMATION SYSTEMS | S | | | Т | otal H | rs | | 9 | |
| value | of Inform – Manag | stems development – alternate ation Systems - The importanc ing Implementation DPMENT AND MAINTENANCE | ce of cha | | | gemen | t in in | format | | | |
| 0 | 3 DEVELOPMENT AND MAINTENANCE OF Total Hrs INFORMATION SYSTEMS | | | | | | 13 | | 5 | | |
| 4 Knowl syster moral | dologies. KNOWL ledge Mar ns – Unde dimensior | Users – off-the shelf soft EDGE MANAGEMENT, ETHIC magement in the organization – erstanding ethical and Social iss ns of Information Systems – Sy | S AND S Informat sues pact | ECUR tion ar | ITY Id Kno syste | T owledg ms – | otal H ge bas Ethics | rs se syst in an | tems – I Informat | 9 Decision - ion societ | suppor |
| Ensur 5 | INFORM | n Quality. IATION ARCHITECTURE | | | | Гт | otal H | rs | | 9 | |
| Defini in the | ng Inform | ation Architecture – why Inform orld – Information Ecologies | | | | atters | – Pra | cticing | | ation Arch | |
| Total I | hours to b | e taught | | | | | | | | 45 | |
| Text b | ook (s) : | | | | | | | | | | |
| 1 | edition, I | Kenneth & Landon Jane, "Mana PHI, 2004. | - | | | - | | • | - | - | - |
| 2 | publicati | . Gupta, "Management Infor ons Pvt., Ltd., 1998. | | - | | | - | | | | - |
| 3 | Associat | osenfel and Peter Morville, ' es, 2002. | Informat | ion A | rchite | cture | tor the | e vvo | rid wide | e vveb", | O'Reilly |
| | ence (s) : | | | | | | | | | | |
| 1 | | Alter, "Information Systems – A | | | | | | | | | |
| 2 | | pta, "Information Systems – Su | | | | | | | | | |
| 3 | | G. Murdick, Joel E. Ross a ment", PHI, 1994. | and Jar | nes R | . Cla | ggett, | "Info | rmatio | n Syste | ems for | Moderr |

| K.S. | Rangasamy College of Techn | ology - A | Autono | omou | s Reg | ulation | | R 2 | 800 |
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| Department | Information Technology | Progra | mme | Code | &Nam | e . | | .Tech. | |
| 2 0 0 0 0 0 0 0 | | 0 | | | | Inf | ormation | Techno | ogy |
| | l | Semes | | - | | | | | |
| Course Code | Course Name | | Hou | rs/W | | Credit | | ximum Marks | |
| | | | 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 INTRO | DUCTION | | | | Tota | l Hrs | | 9 | |
| | portance-Human-Computer inte m - web user interface-popularit | | | | | | face-Dire | ect mani | pulation |
| 2 DESIGN PROCESS | | | | | Tota | Total Hrs 9 | | | |
| business functi system timings | design process- obstacles-usab ons-requirement analysis-Direc - Human consideration in scree M MENUS AND NAVIGATION | t-Indirect n design | meth | | | usiness fun | | | |
| | enus - functions of menus-con | | - | forma | | | | • | |
| | ng menus-graphical menus | | inchu- | Ionna | ung - | prirasing th | | 30100011 | y menu |
| 4 CONTI | | | | | Tota | l Hrs | 9 | | |
| systems-device | racteristics-components-presen -based controls: characteristics ation control-custom control-pres | -Screen | -based | d cont | | | | | |
| 5 WINDO | OWS LAYOUT AND TEST | | | | Tota | l Hrs | | 9 | |
| | ages - effective feedback-guida oring Windows layout-test :proto | | | | | | ccesssibi | lity-Icons | -Image- |
| Total hours to b | e taught | | | | | | | 45 | |
| Text book : | | | | | | | | | |
| Text DOOK . | | | | | | | | | |
| | t. O. Galitz ,"The Essential Guic t 2007 | le to Use | r Interf | ace D | esign' | ", Second Eo | dition, Jo | hn Wiley | & Sons, |
| 1 Wilben | | le to Use | r Interf | ace D | esign' | ", Second Ed | dition, Jo | hn Wiley | & Sons, |
| 1 Wilben Reprin Reference (s) : | | | | | | | dition, Jo | hn Wiley | & Sons, |

| K.S. | Rangasamy College of Techn | ology - / | Auton | omou | s Reg | ulation | | R 20 | 008 | | |
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| Department | Information Technology | Progra | | | &Nam | ne Inf | | 3.Tech. n Technol | ogy | | |
| | | Semes | | | | | | | | | |
| Course Code | Course Name | | Hou | rs / W | eek | Credit | Ma | ximum M | arks | | |
| | | | ester VIII Hours / Week Credit Maximum Mill L T P C CA ES 3 0 0 3 50 50 sting. To highlight the strategies for software tes g levels. To identify the issues in testing managem controlling and monitoring testing activity Total Hrs 8 ess in Software Quality, Testing as a Process Role in a Software Development Organization, O Fest Design, Defect Examples, Developer/Tester Total Hrs 10 er Tester, Test Case Design Strategies, Using Blassoundary Value Analysis, Other Black-box Test Soundary Value Analysis, Other Black-box Test e-Box Approach to Test design, Test Adequacy C ditional White Box Test Design Approaches Content of the state | | | | | Total | | | |
| 08210873E | SOFTWARE TESTING | | - | - | - | - | | | 100 | | |
| Objective(s) | stress the need and conduct o | of testing | levels. | To id | entify | the issues in | n testing management. | | | | |
| 1 INTRO | DUCTION | | | | | | | | | | |
| Defects, Defect for Developing a 2 TEST 0 | Classes, The Defect Repositor a Defect Repository CASE DESIGN | ry and Te | est Des | sign, E | Defect | Examples, I otal Hrs | Develope | er/Tester | Support | | |
| Approach to Te Approaches, Bla Paths:Their Rol | est Case Design, Random Te ack-box testing and COTS, Usir | sting, Bo ng White∙ | undar Box A | y Valu pproa | ue An Ich to Box T | alysis, Othe Test design, <u>est Design <i>A</i></u> | r Black- Test Ad | box Ťest equacy C | Design | | |
| | | | | | | otal Hrs | | • | | | |
| Testable Unit, | Levels of Testing, Unit Test, L The Test Harness, Running the ts, Integration Test Planning, S otance Tests | e Unit te | sts an | d Rec | ording | g results, Int | egration | tests, De | esigning | | |
| 4 TEST N | MANAGEMENT | | | | Т | otal Hrs | | 9 | | | |
| Plan Attachmer Introducing the | ncepts, Testing and Debugging hts, Locating Test Items, The r test specialist, Skills needed by ROLLING AND MONITORING | role of th | ree gr | oups | in Tes | | | | | | |
| | , Measurements and Milestone , Criteria for Test Completio Review Plans. | | | | | | | | | | |
| Total hours to b | | | | | | | | 45 | | | |
| Text book : | | | | | | | 1 | | | | |
| 1 Ilene B | urnstein, "Practical Software Te | sting", Sp | oringei | Inter | nation | al Edition, C | hennai, 2 | 2003 | | | |
| Reference (s) : | | | | | | | | | | | |
| 1 Edward Delhi, 1 | d Kit, "Software Testing in the I | Real Wo | rld – lı | nprov | ing th | e Process", | Pearson | e Educatio | on, New | | |
| | Dustin, "Effective Software Te | - | | | | | | | | | |
| | Rajani and Pradeep Oak, "Softv w-Hill, New Delhi, 2003 | ware Tes | ting – | Effec | tive M | ethods, Too | ls and T | echnique | s", Tata | | |

| | K.S. | Rangasamy College of Techn | ology - / | Auton | omou | s Reg | ulation | | R 20 | 800 | |
|---|---|--|--|---|---|-------------------------------|---|---|---|---|--|
| Depar | rtment | Information Technology | Progra | amme | Code | &Nam | le Inf | | 21: B.Tech. ormation Technology | | |
| | | | 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 | |
| Objec | tive(s) | To study the image fundau processing. To understand the To learn the procedures for re compression. To become skill L IMAGE FUNDAMENTALS A | e various storation ed at the | mathe of ima image | matica ige. To segm | al cono o deal ientatio | cepts applied with technic | d to imag jues perf | e enhand ormed fo | cement. r image | |
| = | | | | | | - | | | 0 | Desis | |
| geome | tric trans hard – Di | ual perception – Image samplin formations-Introduction to Four screte Cosine Transform, Haar, | ier Trans 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 | narpening filters – Homomorphic RESTORATION e Degradation/restoration proc rained least mean square filteri | ess – N | oise n | | $= \ln v$ | | | | square | |
| 4 | | COMPRESSION | <u> </u> | | Total Hrs | | | 9 | | | |
| coding- | –.Lossy -Compre | Lossless compression: Variat Compression: Transform codir | | | | | | | | | |
| standa | | ssion standards- Continuous | | ll Ima | | mpres | sion Standa | | eo Comp | Binary | |
| 5 | IMAGE | SEGMENTATION AND REPR | ESENTA | II Imag | ge Co | mpres | otal Hrs | ards-Vide | eo Comp | Binary pression | |
| 5 Edge o Polygo | IMAGE detection nal app | | 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 | 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 – R ours to b | SEGMENTATION AND REPR – Thresholding - Region Ba roximation – Boundary segn egional descriptors –Simple des | 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 o Polygo descrip Total ho Text bo | IMAGE detection nal app otors – R ours to b ook : Rafael Educat | SEGMENTATION AND REPR – Thresholding - Region Ba roximation – Boundary segn egional descriptors –Simple des | ESENTA ased seg nents – scriptors- | II Imag TION gmenta Boun Textu | 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 o Polygo descrip Total ho Text bo | IMAGE detection nal app otors – R ours to b ook : Rafael | SEGMENTATION AND REPR – Thresholding - Region Ba roximation – Boundary segn egional descriptors –Simple des e taught C Gonzalez and Richard E | ESENTA ased seg nents – scriptors- | II Imag TION gmenta Boun Textu | 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 o Polygo descrip Total ho Text bo | IMAGE detection nal app otors – R 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 | ESENTA ased seg nents – scriptors- Woods | II Imag TION gmenta Boun Textu | ation dary re. | mpres T- 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 ho Text bo 1 Referen | IMAGE detection nal app otors – R 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. | ESENTA ased seg nents – scriptors- Woods sing", Joh | II Imag TION gmenta Boun Textur , "Dig | 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 | artment | Information Technology | Progra | amme | Code | &Nam | ne Inf | 21: B ormation | .Tech. Technol | ogy |
| | | | Semes | ter VII | I | | | | | |
| Cours | se Code | Course Name | | Hou | rs / W | eek | Credit | Max | kimum M | arks |
| Cours | se coue | Course Name | | L | Т | Р | С | CA | ES | Total |
| 0821 | 10881E | DATA WAREHOUSING AND MINING | | 3 | 0 | 0 3 50 50 100 | | | | |
| Obje | ctive(s) | To serve as an introductory design aspects of Data Minim mining with in detail coverage classification, clustering and concept of data warehousing w | ng and I of basic associatio | Data V tasks, on rule | Vareh metri es are | ousing cs, iss e exha | g. To introdustion in the sues, and im austively dea | uce the plication. | concept Core top To introd | of data bics like |
| 1 | INTRODUCTION AND DATA WAREHOUSING Total Hrs 9 | | | | | | | | | |
| | | ata Warehouse, Multidimensior ing to Data Mining. | al Data | Model | , Data | War | ehouse Arch | nitecture, | Impleme | entation, |
| 2 | DATA PREPROCESSING, CONCEPT DESCRIPTION Total Hrs | | | | | | | | 9 | |
| Gener Statist | ration, Co tical Meas | | | | | rizatio | ns, Class C | | ons, Des | |
| 3 | | ATION RULES | | | | | otal Hrs | | 9 | |
| | Associatio | e Mining, Single-Dimensional E on Rules from Transaction Data | | Associ | ation | | | ctional C | atabase | s, Multi- |
| 4 | | FICATION AND CLUSTERING | | | | | otal Hrs | | 9 | |
| Other | Classifica | nd Prediction, Issues, Decision tion Methods, Prediction, Class rchical Methods-BIRCH, Partitio | ifier Accu | uracy, | | | | | | |
| 5 | RECEN | T TRENDS | | | | Т | otal Hrs | | 9 | |
| Spatia Mining | | ses, Multimedia Databases, Tex | t Databa | ses, W | orld V | Vide V | Veb, Applica | tions and | Trends | in Data |
| Total | hours to b | e taught | | | | | | | 45 | |
| Text b | | | | | | | | | | |
| 1 | J. Han, I | M. Kamber, "Data Mining: Conce | epts and | Techn | iques | ", Haro | court India / I | Morgan k | Kauffman | , 2001. |
| Refere | ence (s) : | | | | | | | | | |
| 1 | - | t H.Dunham, "Data Mining: Intro | - | | | | | | | |
| 2 | Sam Ana | ahory, Dennis Murry, "Data War | ehousing | , in the | e real v | world" | , Pearson Ec | ducation 2 | 2003. | |
| 3 | | and, Heikki Manila, Padhraic Sy | | • | | | - | 004. | | |
| 4 | | ion, "Building the Data Warehou | | | | - | | | | |
| 5 | | zon, Stephen J.Smith, "Data Wa | | - | | - | | | | 001. |
| 6 | Paulraj F | Ponniah, "Data Warehousing Fu | ndament | als", V | Viley-I | nterso | ience Public | ation, 20 | 03. | |

| | K.S. | Rangasamy College of Techn | ology - A | Auton | omou | s Reg | ulation | | R 20 | 008 |
|---------|-------------------------------------|---|-----------|-----------|-------------|---------|--------------|-----------------|----------------|----------|
| Depa | rtment | Information Technology | Progra | mme | Code | &Nam | ne laf | | .Tech. | 0.011 |
| | | | Semes | tor \/ll | 1 | | Int | ormation | recnnoi | ogy |
| | | | Semes | | rs/W | look | Credit | Mov | imum M | orko |
| Cours | e Code | Course Name | | нои | T | P | Credit | CA | ES | Total |
| 0001 | 0000 | E-COMMERCE | | L 3 | • | • | 3 | - | | |
| | 0882E ctive(s) | To enable learners to unders | stand the | v | 0 tropic | 0 | - | 50 sinoss ar | 50 od in no | 100 |
| Objec | Silve(S) | Security. | | Elec | TOTIC | COMIN | | silless al | iu ili pa | ymenis, |
| 1 | INTROD | UCTION TO E-COMMERCE | | Total Hrs | | | | | 8 | |
| Electro | onic comr | nerce and physical commerce - | Econom | ic forc | es – a | dvant | ages – myth | s - busine | ess mode | els. |
| 2 | TECHNOLOGY INFRASTRUCTURE Total 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 Total Hrs | | | | 10 | | | | |
| CRM; | Business | nted ecommerce – etailing and s oriented ecommerce – E-Go d Web portals | | | | | | | | |
| 4 | ECOMM | ERCE PAYMENTS AND SECU | IRITY | | | Т | otal Hrs | | 9 | |
| E payn | nents - C | haracteristics of payment of sys | tems, pro | otocols | s, E-ca | ash, E | - check and | Micro pay | ment sy | stems. |
| 5 | 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, |
| | nours to b | | | | | | | | 45 | |
| Text be | ook : | | | | | | | | | |
| 1 | Hentry C | han & el , E-Commerce – funda | amentals | and A | pplica | itions, | Wiley India | Pvt Ltd, 2 | 007. | |
| 2 | Gary P. | Schneider, Electronic commerc | e, Thoms | on co | urse te | echno | ogy, Fourth | annual eo | dition, 20 | 07. |
| Refere | ence (s) : | | | | | | | | | |
| 1 | McGraw | Bhasker, Electronic Commerce Hill Publications, 2008 | | | | - | | | | |
| 2 | | K.Bajaj and Debjani Nag, E ons, 2008 | commer | ce- th | e cutt | ing ea | 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 - / | Auton | omou | s Reg | ulation | | R 2 | 008 |
|--|--------------------------|---|-----------------------------------|------------------------------|----------------------------|------------------------|--------------------------------------|----------------------------------|--------------------------|-----------------------|
| Departme | nt | Information Technology | Progra | amme | Code | &Nam | ne | | : B.Tech. on Techno | logy |
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| 0 | al a | | | Hou | rs / W | eek | Credit | N | 1aximum N | larks |
| Course Co | ae | Course Name | | L | Т | Р | С | CA | ES | Total |
| 08210883 | | OPEN SOURCE ARCHITECT | - | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(| s) | The main objective is to a Technologies and Practices. | allow stu | dents | to a | ddres | s issues | and ad | apt Open | Source |
| - | | EW OF OPEN SOURCE SOFT | | | | | l Hrs | | 9 | |
| Examples of Open Sour Apache,Mo | of Op ce \$ zilla, | pen Source Software: The O pen Source Software Products, Software: The Berkeley Softw Open Source Software Open S | The Ope are Disti Source: T | en Sou ribution The Go | urce S n, Tež | oftwai X, The | e Develop Free So | oment Pr oftware | ocess, A h Foundatior | istory of |
| | | OURCE SOFTWARE QUALIFI | CATION | AND | | Tota | ll Hrs | | 9 | |
| in OSS dev | elop for IS | of Open Source Software, Tran oment, The OSS development S architecture, CATWOE and So SS. | life cycle | , Deri | /ing a | frame | ework for | analyzing | | |
| 3 OSS | EN | VIRONMENT | | | | Tota | l Hrs | | 9 | |
| motivations macro-level | , Te l(indi | he "where?" of OSS, the "whech whethe the second structure of the second scheme of the second second second second second second second second second second seco | macro-le al micro- | vel(ind level a | lividua | al) mo | otivation, | Economi | c micro-le | |
| | | ATION ARCHITECTURE AND H E SOFTWARE IS DEVELOPED | | EN | | Tota | ll Hrs | | 9 | |
| Interoperab Languages Implementa | ility, Use Ition | chitecture: Types of System Development Platform Cho d to Develop Open Source Pro Roles, Open Source Impac Documents, Migration, Interacti | oices, O ducts, C t on Tea | pen ross-P am Is | Source latforr sues, | e So n Cod Imple | ftware Do e, Managi ementation | evelopmong ng Syste Proces | ent: Methem | odology, entation: |
| 5 OPE | N S | OURCE SERVER APPLICATIO | NS | | | Tota | l Hrs | | 9 | |
| Systems M The Office | anag Suite | Server Applications: Infrastruct gement, Open Source Desktop e, Mail and Calendar Clients, P ng: Types of Licenses, License | Applicat ersonal S | ions: I Softwa | ntrodu re, Co | uction, ost of | Graphica OSS: Tota | I desktop I cost of | os, Web B Ownershi | rowsers, p, Types |
| Total hours | to b | e taught | | | | | | | 45 | |
| Text book : | | | | | | | | · | | |
| Rayr | mone | nding Open Source Softward d, Addison-Wesley Professiona | l; 1st edit | ion (D | eceml | 5 oer 31 | , 2001) | | 0, | |
| 2004 | I),20 | urce Software: Implementation 04 [Chapters 3, 7, 8, 9, 10, 11, | | agem | ent, by | / Paul | Kavanagł | n, Digital | Press (July | / 26, |
| Reference (| (s) : | | | | | | | | | |
| | | cess of Open Source by Steven | | | | | | | , | |
| 2 Suco | ceed | ing with Open Source by Berna | rd Golde | n, Adc | ison-\ | Nesle | y Professio | onal (Aug | gust 10, 20 | 04) |

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| Department | Information Technology | Progra | mme | Code | &Nam | ne | | .Tech. | |
| Dopartmont | monnation recimelogy | Ū | | | antan | Inf | formation | Technol | ogy |
| | 1 | Semes | | - | | | | | |
| Course Code | Course Name | | Hou | rs / W | eek | Credit | Max | kimum M | arks |
| | | | L | Т | Р | С | CA | ES | Total |
| 08210884E | SOFT COMPUTING | | 3 | 0 | 0 | 3 | 50 | 50 | 100 |
| Objective(s) | To learn the basics concepts networks. To have knowledge of genetic algorithm. To study | e on syste | ms in | volvin | g neui | ofuzzy netw | orks. To | study the | |
| 1 FUZZ` | Y SYSTEMS | Total Hrs | | | | | | 9 | |
| | ry-fuzzy rules and fuzzy reasor zy control methods. | ning-fuzzy | infere | ence s | system | is-decompos | sition-fuzz | • | ata and |
| 2 NEUR | NEURAL NETWORKS concepts-knowledge based processing-single layer percept | | | | | | | 9 | |
| organizing netv 3 NEUR Adaptive neuro | earning-feed forward and back vorks-Hopfield networks. O FUZZY MODELING: o fuzzy inference systems-classi euro fuzzy controls. | | | | Tota | ll Hrs | | 9 | |
| | TIC ALGORITHMS | | | | Tota | l Hrs | | 9 | |
| Basics of GA- | choice of encoding-selection p ate-a simplex GA Hybrid approa | | -mutat | ion a | | | ss evalua | ation– In | proving |
| 5 APPLI | CATIONS OF SOFT COMPUTI | NG | | | Tota | l Hrs | | 9 | |
| | ues for inverted pendulum ca eting-Neural networks for patter | | | | | | | | |
| Total hours to I | be taught | | | | | | | 45 | |
| Text book : | | | | | | | | | |
| 1 Jang 2000. | I.S.R.Sun.C.T.and Mizutami.E, | "Neuro fu | izzy a | nd So | oft cor | nputing, "Pr | entice Ha | all, New | Jersey- |
| Reference (s) : | | | | | | | | | |
| 1 Timith | y.J.Ross, "Fuzzy logic Engineeri | ing Applic | ations | ," Mc0 | Graw H | Hill, NewYork | k-1997. | | |
| 2 S N Si | vanandam, S.N.Deepa "Principl | es of Soft | Com | outing | " Wile | v India Pvt Li | td. | | |