

Pre-Ph.D Examinations - 2014

Date of Examination: 23-08-2014 Venue: University College of Engineering, JNTUK, Kakinada. Time: 02.00 pm to 05.00 pm

PAPER - I

Branch – BIO TECHNOLOGY

S.No	Subject Name	Subject Code
1	ADVANCED IMMUNOLOGY AND IMMUNOTECHNOLOGY	1414103
2	BIOCHEMISTRY AND METABOLIC REGULATION	1414104
3	MOLECULAR BIOLOGY & VIROLOGY	1414105



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PAPER - I

Branch – CHEMISTRY

S.No	Subject Name	Subject Code
1	ADVANCES IN ANALYTICAL CHEMISTRY - I	1311101
2	ENVIRONMENTAL CHEMISTRY - I	1311102
3	INORGANIC NANO MATERIALS - I	1311103
4	ORGANIC CHEMISTRY -I	1311105
5	PHYSICAL CHEMISTRY - I	1311106



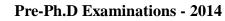
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PAPER - I

Branch – CIVIL

S.No	Subject Name	Subject Code
1	GROUND IMPROVEMENT TECHNIQUES	09CE01
2	THEORY OF ELASTICITY & PLASTICITY	1301101
3	ADVANCED STRUCTURAL ANALYSIS	1301105
4	ADVANCED CONCRETE TECHNOLOGY	1301110
5	GROUND IMPROVEMENT TECHNIQUES	1301111
6	URBAN TRANSPORTATION PLANNING	1301127



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PAPER - I

Branch – COMMERCE

S.No	Subject Name	Subject Code
1	MODERN TRENDS AND ANALYSIS IN COMMERCE	1416101





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PAPER - I

Branch – CS & CSE

S.No	Subject Name	Subject Code
1	OBJECT ORIENTED SOFTWARE ENGINEERING	R10PPCSG1.14
2	DATA MINING AND KNOWLEDGE DISCOVERY	R10PPCSG1.4 10CS104
3	DIGITAL IMAGE PROCESSING	R10PPCSG1.5 10CS105
4	HUMAN COMPUTER INTERACTION	10CS110
5	NETWORK SECURITY	10CS113
6	ADVANCED DATABASE	R10PPCSG1.1
7	DISTRIBUTED OPERATING SYSTEMS	R10PPCSG1.8
8	DATAMINING & KNOWLEDGE DISCOVERY	1305104
9	DIGITAL IMAGE PROCESSING	1305105
10	DISTRIBUTED COMPUTING	1305106
11	DISTRIBUTED OPERATING SYSTEMS	1305108
12	HUMAN COMPUTER INTERACTION	1305110
13	MULTIMEDIA & APPLICATION DEVELOPMENT	1305112
14	NETWORK SECURITY	1305113
15	OBJECT ORIENTED SOFTWARE ENGINEERING	1305114
16	SOFT COMPUTING	1305115



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PAPER - I

Branch – ECE

S.No	Subject Name	Subject Code
1	WIRELESS COMMUNICATIONS AND NETWORKS	10EC103
2	ADVANCED OPERATING SYSTEM	10EC107
3	TRANSFORM TECHNIQUES	10EC113
4	ADVANCED DIGITAL SIGNAL PROCESSING	1304103
5	DIGITAL DATA COMMUNICATIONS	1304104
6	INFORMATION THEORY & CODING TECHNIQUES	1304105
7	TRANSFORM TECHNIQUES	1304107
8	SPEECH PROCESSING	1304108
9	ADVANCED ANTENNA THEORY & DESIGN	1304114
10	SMART ANTENNAS	1304116
11	LOW POWER VLSI DESIGN	1304117
12	CMOS ANALOG & DIGITAL IC DESIGN	1304118
13	VLSI SIGNAL PROCESSING	1304119
14	MULTIMEDIA AND SIGNAL CODING	1304124



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PAPER - I

Branch – EEE

S.No	Subject Name	Subject Code
1	PARTIAL DISCHARGES IN HIGH VOLTAGE EQUIPMENT	10EE105
2	ELECTRICAL DISTRIBUTION SYSTEMS	1302101
3	ELECTRIC DRIVES - I	1302104
4	POWER QUALITY	1302105
5	ARTIFICIAL INTELLIGENCE TECHNIQUES	1302107
6	OPTIMIZATION TECHNIQUES	1302109



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PAPER – I

Branch – ENGLISH

S.No	Subject Name	Subject Code
1	COMMON WEALTH LITERATURE & INDIAN LITERATURE	1312103
2	THEORETICAL FOUNDATIONS FOR LANGUAGE TEACHING AND LEARNING	1312105



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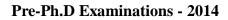
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PAPER-I

Branch – MATHEMATICS

S.No	Subject Name	Subject Code
1	UNIVERSAL ALGEBRA	1309101
2	MATHEMATICAL MODELING THROUGH ORDINARY & PARTIAL DIFFERENTIAL EQUATIONS	1309103
3	FLUID MECHANICS, HEAT TRANSFER AND MAGNETO GAS DYNAMICS	1309104
4	MATHEMATICAL STATISTICS	1309105
5	QUEUING THEORY	1309106
6	TENSOR CALCULUS	1309107





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PAPER – I

Branch – MANAGEMENT STUDIES

S.No	Subject Name	Subject Code
1	RESEARCH METHODOLOGY & S.A. (STATISTICAL TOOLS)	10MS101
2	BUSINESS RESEARCH DESIGN & ANALYSIS	1313101





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PAPER - I

Branch – MECHANICAL

S.No	Subject Name	Subject Code
1	FINITE ELEMENT METHOD	10ME102
2	FUELS COMBUSTION & ENVIRONMENTAL POLLUTION CONTROL	10ME106
3	COMPUTER INTEGRATED MANUFACTURING	10ME112
4	MECHANICS OF COMPOSITE MATERIALS	1303101
5	DESIGN OF MECHANISMS AND MANIPULATORS	1303102
6	FAILURE ANALYSIS AND DESIGN	1303103
7	SIGNAL ANALYSIS AND MONITORING	1303105
8	FUELS, COMBUSTION & ENVIRONMENTAL POLLUTION CONTROL	1303108
9	CONVECTIVE HEAT & MASS TRANSFER	1303109
10	ADVANCED THERMODYNAMICS	1303110
11	COMBUSTION & EMISSION IN ENGINES	1303113
12	COMPUTATIONAL FLUID DYNAMICS	1303114
13	ADVANCED OPTIMIZATION TECHNIQUES	1303115
14	THEORY OF METAL CUTTING & TOOL DESIGN	1303116
15	METAL FORMING PROCESSES	1303117
16	RAPID PROTOTYPING AND TOOLING	1303118
17	NON - DESTRUCTIVE EVALUATION	1303119
18	MECHANICS & MANUFACTURING METHODS OF COMPOSITES	1303121



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PAPER-I

Branch – PHARMACY

S.No	Subject Name	Subject Code
1	MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES	1307101
2	ADVANCED MEDICINAL CHEMISTRY	1307102
3	BIO-PHARMACEUTICS & PHARMACOKINETICS	1307103
4	ADVANCED PHARMACOLOGY	1307104



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PAPER - I

Branch – PHYSICS

S.No	Subject Name	Subject Code
1	THEORY AND PHYSICS OF NANO-MATERIALS	1310101
2	ADVANCES IN FERRO ELECTRIC MATERIALS – I	1310102
3	NULCEAR AND RADIATION PHYSICS	1310106



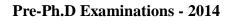
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PAPER – I

Branch – LIBRARY SCIENCE

S.No	Subject Name	Subject Code
1	ACADEMIC LIBRARY SYSTEM	1418101



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PAPER – I

Branch – SPATIAL INFORMATION TECHNOLOGY

S.No	Subject Name	Subject Code
1	MICROWAVE REMOTE SENSING	1415105





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PAPER - II

Branch – BIO TECHNOLOGY

S.No	Subject Name	Subject Code
1	DOWNSTREAM PROCESSING IN BIOTECHNOLOGY	1414202
2	CANCER BIOLOGY AND THERAPY	1414203
3	NANO BIOTECHNOLOGY & NANO DEVICES	1414204



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PAPER - II

Branch – CHEMISTRY

S.No	Subject Name	Subject Code
1	ADVANCES IN ANALYTICAL CHEMISTRY - II	1311201
2	ENVIRONMENTAL CHEMISTRY - II	1311202
3	INORGANIC NANO MATERIALS - II	1311203
4	ORGANIC CHEMISTRY - II	1311205
5	PHYSICAL CHEMISTRY - II	1311206



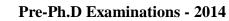
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PAPER - II

Branch – CIVIL

S.No	Subject Name	Subject Code
1	ADVANCED SOIL MECHANICS	09CE06
2	STRUCTURAL DYNAMICS	1301202
3	REPAIR & REHABILITATION OF STRUCTURES	1301205
4	PRESTRESSED CONCRETE & STEEL STRUCTURES	1301207
5	AIR POLLUTION & CONTROL TECHNOLOGY	1301225



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PAPER – II

Branch – COMMERCE

S.No	Subject Name	Subject Code
1	MARKETING MANAGEMENT AND ANALYSIS	1416205





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PAPER - II

Branch – CS & CSE

S.No	Subject Name	Subject Code
1	SECURED DATABASE APPLICATIONS DEVELOPMENT	R10PPCSG2.14
2	ADVANCED UNIX PROGRAMMING	R10PPCSG2.3
3	COMPUTER COMMUNICATIONS	R10PPCSG2.7
4	ADVANCES IN COMPUTING	10CS204
5	MACHINE LEARNING	10CS209
6	MOBILE COMPUTING	10CS210
7	PATTERN RECOGNITION	R10PPCSG2.12 10CS212
8	WIRELESS NETWORKS & MOBILE COMPUTING	10CS215
9	ADVANCED DATA STRUCTURES & ALGORITHMS	1305202
10	ADVANCED UNIX PROGRAMMING	1305203
11	ADVANCES IN COMPUTING	1305204
12	COMPUTER COMMUNICATIONS	1305207
13	MACHINE LEARNING	1305209
14	MOBILE COMPUTING	1305210
15	PATTERN RECOGNITION	1305212
16	SECURED DATA BASE APPLICATION DEVELOPMENT	1305214
17	WIRELESS NETWORKS & MOBILE COMPUTING	1305215



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PAPER - II

Branch – ECE

S.No	Subject Name	Subject Code
1	IMAGE & VIDEO PROCESSING	09ECE20
2	DIGITAL DATA COMMUNICATIONS	10EC203
3	MICRO COMPUTER SYSTEM DESIGN	10EC206
4	NEURAL NETWORKS AND APPLICATIONS	10EC207
5	ALGORITHMS FOR VLSI DESIGN AUTOMATION	10EC209
6	IMAGE AND VIDEO PROCESSING	10EC214
7	EMBEDDED SYSTEM DESIGN	1304201
8	VLSI TECHNOLOGY AND DESIGN	1304202
9	WIRELESS COMMUNICATIONS & NETWORKS	1304203
10	IMAGE AND VIDEO PROCESSINGS	1304204
11	OPTICAL COMMUNICATION TECHNOLOGY	1304205
12	DIGITAL SIGNAL PROCESSORS & ARCHITECTURES	1304206
13	PATTERN RECOGNITION PRINCIPLES	1304209
14	SOFT COMPUTING TECHNIQUES	1304211
15	PHASED ARRAY SYSTEMS	1304214
16	MICROWAVE NETWORKS	1304215
17	RF CIRCUIT DESIGN	1304216
18	CMOS MIXED SIGNAL CIRCUIT DESIGN	1304218
19	DESIGN FOR TESTABILITY	1304221
20	CPLD & FPGA ARCHITECTURES & APPLICATIONS	1304223
21	TCP/IP AND ATM NETWORKS	1304225



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PAPER – II

Branch – EEE

S.No	Subject Name	Subject Code
1	RENEWABLE ENERGY SYSTEMS	10EE206
2	POWER ELECTRONIC CONTROL OF AC DRIVES	10EE207
3	ADVANCED DIGITAL CONTROL SYSTEMS	1302202
4	HVAC TRANSMISSION	1302203
5	FLEXIBLE AC TRANSMISSION SYSTEMS	1302204
6	HIGH VOLTAGE TESTING TECHNIQUES	1302205
7	RENEWABLE ENERGY SYSTEMS	1302206
8	ELECTRIC DRIVES – II	1302207
9	CONTROL OF SPECIAL MACHINES	1302208
10	POWER SYSTEM DEREGULATION	1302209
11	ANALYSIS OF POWER ELECTRONIC CONVERTERS	1302210



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PAPER – II

Branch – ENGLISH

S.No	Subject Name	Subject Code
1	FOLK LITERATURE & CULTURE STUDIES	1312204
2	LITERATURE OF LANGUAGE TEACHING AND LEARNING	1312205



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PAPER – II

Branch – MATHEMATICS

S.No	Subject Name	Subject Code
1	LATTICE THEORY	1309202
2	MATHEMATICAL THEORY OF ELASTICITY	1309203
3	BOUNDARY VALUE PROBLEMS	1309204
4	OPERATIONS RESEARCH	1309206
5	NON-LINEAR FUNCTIONAL ANALYSIS	1309207
6	RELATIVITY AND COSMOLOGY	1309208



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PAPER – II

Branch – MANAGEMENT STUDIES

S.No	Subject Name	Subject Code
1	SERVICES MARKETING	10MS201
2	E - BUSINESS	10MS218
3	ADVERTISEMENT AND BRAND MANAGEMENT	1313201
4	MARKETING MANAGEMENT	1313203
5	FINANCIAL INSTITUTIONS AND SERVICES	1313208
6	FINANCIAL DERIVATIVES	1313209
7	HUMAN RESOURCE MANAGEMENT	1313214



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PAPER – II

Branch – MECHANICAL

S.No	Subject Name	Subject Code
1	MECHANICAL VIBRATIONS	10ME204
2	APPLIED SOLAR ENERGY	10ME206
3	I.C. ENGINES & ALTERNATE FUELS	10ME209
4	SPECIAL MANUFACTURING PROCESSES	10ME213
5	ROBOTICS	10ME215
6	CAD THEORY AND PRACTICE	1303201
7	EXPERIMENTAL STRESS ANALYSIS	1303202
8	ADVANCED MECHANICAL VIBRATIONS	1303203
9	DESIGNING OF HEAT TRANSFER EQUIPMENT	1303209
10	I.C. ENGINES & ALTERNATE FUELS	1303211
11	EXPERIMENTAL METHODS IN THERMAL ENGINEERING	1303213
12	ADVANCES IN MANUFACTURING TECHNOLOGY	1303217
13	ADVANCES IN CASTING & WELDING PROCESSES	1303219
14	MATERIALS TECHNOLOGY	1303220
15	STATISTICAL QUALITY CONTROL	1303221



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Branch – PHARMACY

S.No	Subject Name	Subject Code
1	ADVANCED PHARMACEUTICAL ANALYSIS	10PH201
2	ADVANCED MEDICINAL CHEMISTRY	10PH202
3	ADVANCED PHARMACOLOGY	10PH205
4	ADVANCED PHARMACEUTICAL ANALYSIS	1307201
5	ADVANCED CHEMISTRY OF NATURAL PRODUCTS	1307202
6	ADVANCES IN DRUG DELIVERY SYSTEMS	1307203
7	PHARMACOKINETICS & DRUG METABOLISM	1307204
8	PHARMACEUTICAL BIOTECHNOLOGY - II	1307205



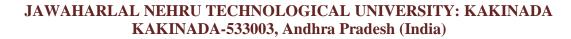
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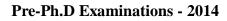
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PAPER – II

Branch – PHYSICS

S.No	Subject Name	Subject Code
1	ADVANCES IN FERRO ELECTRIC MATERIALS – II (FABRICATION, CHARACTERIZATION AND APPLICATIONS)	1310201
2	NANO-MATERIALS (INSTRUMENTS AND APPLICATIONS)	1310203
3	MATERIAL CHARACTERIZATION AND ANALYTICAL TECHNIQUES	1310206





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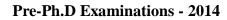
PAPER – II

Branch – LIBRARY SCIENCE

S.No	Subject Name	Subject Code
1	LIBRARY AUTOMATION & NETWORKING	1418202
2	ELECTRONIC RESOURCES MANAGEMENT (ERM)	1418203
3	MANAGEMENT OF LIBRARY & INFORMATION CENTRES	1418206
4	INFORMATION SEEKING BEHAVIOUR, USER & USER STUDIES	1418209







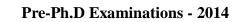
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PAPER – II

Branch – SPATIAL INFORMATION TECHNOLOGY

S.No	Subject Name	Subject Code
1	REMOTE SENSING & GIS FOR HYDROLOGY & WATER RESOURCES	1415202





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PAPER – III

Branch – CS & CSE

S.No	Subject Name	Subject Code
1	DATABASE MANAGEMENT SYSTEMS	10CS307

