



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA**  
**KAKINADA-533003, Andhra Pradesh (India)**

**Pre-Ph.D Examinations - 2014**

Date of Examination: 23-08-2014

Time: 02.00 pm to 05.00 pm

Venue: University College of Engineering, JNTUK, Kakinada.

**PAPER - I**

**Branch – BIO TECHNOLOGY**

<b>S.No</b>	<b>Subject Name</b>	<b>Subject Code</b>
1	<b>ADVANCED IMMUNOLOGY AND IMMUNOTECHNOLOGY</b>	<b>1414103</b>
2	<b>BIOCHEMISTRY AND METABOLIC REGULATION</b>	<b>1414104</b>
3	<b>MOLECULAR BIOLOGY &amp; VIROLOGY</b>	<b>1414105</b>



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**PAPER - I**

**Branch – CHEMISTRY**

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



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**PAPER - I**

**Branch – CIVIL**

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



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**PAPER – I**

**Branch – COMMERCE**

<b>S.No</b>	<b>Subject Name</b>	<b>Subject Code</b>
1	<b>MODERN TRENDS AND ANALYSIS IN COMMERCE</b>	<b>1416101</b>



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**PAPER - I**

**Branch – CS & CSE**

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



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**PAPER - I**

**Branch – ECE**

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



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**PAPER – I**

**Branch – EEE**

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



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**PAPER – I**

**Branch – ENGLISH**

<b>S.No</b>	<b>Subject Name</b>	<b>Subject Code</b>
1	<b>COMMON WEALTH LITERATURE &amp; INDIAN LITERATURE</b>	<b>1312103</b>
2	<b>THEORETICAL FOUNDATIONS FOR LANGUAGE TEACHING AND LEARNING</b>	<b>1312105</b>





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**PAPER – I**

**Branch – MATHEMATICS**

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



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**PAPER – I**

**Branch – MANAGEMENT STUDIES**

<b>S.No</b>	<b>Subject Name</b>	<b>Subject Code</b>
1	<b>RESEARCH METHODOLOGY &amp; S.A. (STATISTICAL TOOLS)</b>	<b>10MS101</b>
2	<b>BUSINESS RESEARCH DESIGN &amp; ANALYSIS</b>	<b>1313101</b>



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**PAPER - I**

**Branch – MECHANICAL**

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



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**PAPER – I**

**Branch – PHARMACY**

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



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**PAPER – I**

**Branch – PHYSICS**

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



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**PAPER – I**

**Branch – LIBRARY SCIENCE**

<b>S.No</b>	<b>Subject Name</b>	<b>Subject Code</b>
1	<b>ACADEMIC LIBRARY SYSTEM</b>	<b>1418101</b>



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**PAPER – I**

**Branch – SPATIAL INFORMATION TECHNOLOGY**

<b>S.No</b>	<b>Subject Name</b>	<b>Subject Code</b>
1	<b>MICROWAVE REMOTE SENSING</b>	<b>1415105</b>



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**PAPER - II**

**Branch – BIO TECHNOLOGY**

<b>S.No</b>	<b>Subject Name</b>	<b>Subject Code</b>
1	<b>DOWNSTREAM PROCESSING IN BIOTECHNOLOGY</b>	<b>1414202</b>
2	<b>CANCER BIOLOGY AND THERAPY</b>	<b>1414203</b>
3	<b>NANO BIOTECHNOLOGY &amp; NANO DEVICES</b>	<b>1414204</b>





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**PAPER - II**

**Branch – CHEMISTRY**

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



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**PAPER - II**

**Branch – CIVIL**

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



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**PAPER – II**

**Branch – COMMERCE**

<b>S.No</b>	<b>Subject Name</b>	<b>Subject Code</b>
1	<b>MARKETING MANAGEMENT AND ANALYSIS</b>	<b>1416205</b>



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**PAPER - II**

**Branch – CS & CSE**

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



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**PAPER - II**

**Branch – ECE**

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



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**PAPER – II**

**Branch – EEE**

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



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**PAPER – II**

**Branch – ENGLISH**

<b>S.No</b>	<b>Subject Name</b>	<b>Subject Code</b>
1	<b>FOLK LITERATURE &amp; CULTURE STUDIES</b>	<b>1312204</b>
2	<b>LITERATURE OF LANGUAGE TEACHING AND LEARNING</b>	<b>1312205</b>



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Time: 02.00 pm to 05.00 pm

Venue: University College of Engineering, JNTUK, Kakinada.

**PAPER – II**

**Branch – MATHEMATICS**

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





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**PAPER – II**

**Branch – MANAGEMENT STUDIES**

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



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**PAPER – II**

**Branch – MECHANICAL**

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



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**PAPER – II**

**Branch – PHARMACY**

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



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**PAPER – II**

**Branch – PHYSICS**

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



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**PAPER – II**

**Branch – LIBRARY SCIENCE**

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



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**PAPER – II**

**Branch – SPATIAL INFORMATION TECHNOLOGY**

<b>S.No</b>	<b>Subject Name</b>	<b>Subject Code</b>
1	<b>REMOTE SENSING &amp; GIS FOR HYDROLOGY &amp; WATER RESOURCES</b>	<b>1415202</b>



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Time: 02.00 pm to 05.00 pm

Venue: University College of Engineering, JNTUK, Kakinada.

**PAPER – III**

**Branch – CS & CSE**

<b>S.No</b>	<b>Subject Name</b>	<b>Subject Code</b>
1	<b>DATABASE MANAGEMENT SYSTEMS</b>	<b>10CS307</b>