

**ANDHRA UNIVERSITY**  
**B.Sc. DEGREE EXAMINATIONS (C.C.S.) - MARCH - APRIL 2013**

**TIME-TABLE**

<i>Day, Date &amp; Hours</i>	<i>Subjects</i>	<i>Marks</i>	<i>Day, Date &amp; Hours</i>	<i>Subjects</i>	<i>Marks</i>
<b>AT THE END OF FIRST YEAR</b>					
<b>PART-I</b>					
Monday, 25 <sup>th</sup> March 9 am to 12 noon	@ Part-I (i) ñ English ñ Paper-I (For Supplementary Candidates)	100	Monday, 8 <sup>th</sup> April 9 am to 12 noon	Micro Biology- Paper-I (Introductory Micro Biology) +Statistics ñ Paper-I	100
	@ Part-I (i) ñ English ñ Paper-I (w.e.f. 2005-2006 Admitted Batch)	75		Descriptive Statistics and Probability and Distribution (with Mathematics Combination) +Statistics ñ Paper-I	100
Tuesday, 26 <sup>th</sup> March 9 am to 12 noon	@ Part-I (ii) ñ Telugu or any other Classical or Modern Indian Languages ñ Paper-I	100		Elementary Mathematics and Descriptive Statistics (with non-Mathe- matics combination)	
Thursday, 28 <sup>th</sup> March 9 am to 10.30 am	@ Part-I (iii) ñ Compulsory Subject : Part-A ñ Indian Heritage & Culture - Paper I (For Supplementary Candidates)	50	Tuesday, 9 <sup>th</sup> April 9 am to 12 noon	Fisheries ñ Paper-I (Biology of Fish) Industrial Fish and Fisheries ñ Paper-I	100
9 am to 12 noon	Part-I (iii) ñ Foundation Course-I (w.e.f. admitted batch 2009-2010)	70		Petro Chemicals ñ Paper-I Aquaculture ñ Paper-I	100
<b>Part-II ñ Optional Subjects</b>				Engg. Geology & Geo-exploration ñ Paper-I	100
Saturday, 30 <sup>th</sup> March 9 am to 12 noon	@ Computer Course	100		Geology ñ Paper-I (Physical Geology, Crystallography and Mineralogy)	100
	@ Computer Skills	100		Electronics ñ Paper-I (Circuit Analysis & Electronic Devices)	100
Monday, 1 <sup>st</sup> April 9 am to 12 noon	Mathematics - Paper-I (Differential Equations & Solid Geometry)	100		Bio-Technology ñ Paper-I (Cell Biology and Genetics)	100
	Botany ñ Paper-I (Microbial Diversity, Cryptogams and Gymnosperms)	100		Applied Nutrition ñ Paper-I	100
Tuesday, 2 <sup>nd</sup> April 9 am to 12 noon	Physics ñ Paper-I Mechanics, Waves and Oscillations (with Maths Combination)	100		Agriculture ñ Paper-I	100
	Physics - Paper-I Mechanics, Waves and Oscillations (with non-Maths Combination)	100		Medical Lab. Technology ñ Paper-I	100
	Zoology ñ Paper-I (Biology of Invertebrates & Cell Biology)	100	Friday, 12 <sup>th</sup> April 9 am to 12 noon	Horticulture- Paper-I +Geography ñ Paper-I (Fundamentals of Physical Geography)	100
Wednesday, 3 <sup>rd</sup> April 9 am to 12 noon	Chemistry ñ Paper-I (Inorganic, Organic, Physical & General Chemistry)	100	<b>AT THE END OF SECOND YEAR</b>		
	Human Genetics ñ Paper-I	100	<b>PART-I</b>		
	Economics ñ Paper-I (Micro Economics)	150	Monday, 25 <sup>th</sup> March 2 pm to 5 pm	@ Part-I (i) ñ English ñ Paper-II (for Supplementary Candidates)	100
Saturday, 6 <sup>th</sup> April 9 am to 12 noon	Applied Chemistry ñ Paper-I	100		Part-I (i) ñ English ñ Paper-II (w.e.f. 2005-06 Admitted Batch)	75
	Computer Science ñ Paper-I (PG Software and 'C' Programming)	100	Tuesday, 26 <sup>th</sup> March 2 pm to 5 pm	@ Part-I (ii) ñ Telugu or any other Classical or Modern Language ñ Paper-II	100
	Computer Maintenance ñ Paper-I	100		@ Part-I (iii) Compulsory Subject	50
	Computer Applications ñ Paper-I	100	<b>See IIIrd Year</b>		
	Public Health ñ Paper-I	100	<b>Part-II ñ Optional Subjects :</b>		
	Education ñ Paper-I	150	Thursday, 28 <sup>th</sup> March 2 pm to 5 pm	Environmental Studies	75
	Environmental Science ñ Paper-I	100	Saturday, 30 <sup>th</sup> March 2 pm to 5 pm	Computer Course	100
	Instrumentation ñ Paper-I	100		Computer Skills	100
	Bio-Chemistry ñ Paper-I (Biomolecules and Enzymology)	100	Monday, 1 <sup>st</sup> April 2 pm to 5 pm	Mathematics ñ Paper-II (Abstract Algebra & Real Analysis)	100
	Nutrition & Dietetics ñ Paper-I	100		Botany ñ Paper-II (Anatomy Embryology Taxonomy & Medicinal Botany)	100
	Forestry ñ Paper-I	100			

Day, Date & Hours	Subjects	Marks
Tuesday, 2 <sup>nd</sup> April 2 pm to 5 pm	Physics ñ Paper-II Thermodynamics and Optics (with Mathematics combination)	100
	Physics ñ Paper-II Thermodynamics & Optics (with Non-Mathematics combination)	100
	Economics ñ Paper-II (Macro Economics)	150
	Zoology ñ Paper-II (Biology of Chordates, Embryology & Zoogeography)	100
Wednesday, 3 <sup>rd</sup> April 2 pm to 5 pm	Chemistry ñ Paper-II (Inorganic, Organic, Physical & General Chemistry)	100
	Computer Maintenance ñ Paper-II	50
	Human Genetics ñ Paper-II	100
Thursday, 4 <sup>th</sup> April 2 pm to 5 pm	Fisheries ñ Paper-II (Fishery Biology)	100
	Industrial Fish and Fisheries ñ Paper-II	100
	Geology ñ Paper-II (Petrology and Structural Geology)	100
	Aquaculture ñ Paper-II	100
	Electronics ñ Paper-II (Devices & Circuits) (Analog Circuits & Communications)	100
	Petro Chemicals ñ Paper-II	100
	Applied Nutrition ñ Paper-II	100
	Agriculture ñ Paper-II	100
	Medical Lab. Tech. ñ Paper-II	100
	Engineering Geology & Geo-Exploration ñ Paper-II	100
	Bio-Technology- Paper-II (Biological Chemistry & Micro Biology)	100
	Horticulture- Paper-II	100
Saturday, 6 <sup>th</sup> April 2 pm to 5 pm	Bio-Chemistry ñ Paper-II (Metabolism & Bio-Chemistry Techniques)	100
	Public Health ñ Paper-II	100
	Nutrition & Dietetics ñ Paper-II	100
	Environmental Science ñ Paper-II	100
	Computer Science ñ Paper-II (Object Oriented Programming with JAVA & Data Structures)	100
	Computer Applications ñ Paper-II	100
	Instrumentation ñ Paper-II	100
	Applied Chemistry ñ Paper-II	100
	Forestry - Paper-II	100
Tuesday, 9 <sup>th</sup> April 2 pm to 5 pm	+Education ñ Paper II	150
Saturday, 13 <sup>th</sup> April 2 pm to 5 pm	Micro Biology ñ Paper-II (Microbial Physiology & Genetics)	100
	+Statistics ñ Paper-II Statistical Methods & Inference (with Maths combination)	100
	+Statistics ñ Paper-II Statistical Methods & (with Non-Maths combination)	100
Monday, 15 <sup>th</sup> April 2 pm to 5 pm	+Geography ñ Paper-II (Social & Economics Geography) (Human & Economic Geography)	100

Day, Date & Hours	Subjects	Marks
<b>AT THE END OF THIRD YEAR</b>		
Monday, 4 <sup>th</sup> March 2 pm to 4-00 pm	@ Part-I (i) ñ English ñ Paper-III (For Supple Candidates only)	50
Tuesday, 5 <sup>th</sup> March 2 pm to 5 pm	<b>Foundation Course-II</b>	<b>70</b>
<b>2 pm to 3-30 pm</b>	<b>Science &amp; Civilization</b> (Also for II <sup>nd</sup> Year Supple. Candidates)	<b>50</b>
Wednesday, 6 <sup>th</sup> March 2 pm to 5 pm	<b>Mathematics ñ Paper-III</b> (Rings, Fields and Linear Algebra) (Linear Algebra and Vector Calculus)	100
	<b>Botany ñ Paper-III</b> (Taxonomy, Palynology, Embryology and Utilization of Plants) (Cell Biology, Genetics, Ecology and Biodiversity)	100
Thursday, 7 <sup>th</sup> March 2 pm to 5 pm	<b>Mathematics ñ Paper-IV</b> <i>Elective Subjects:</i> Numerical Analysis *Number Theory *Theory of Probability *Lattice Theory *Discrete Mathematics Integral Transforms Linear Programming Topology Fourier Series and Integral Transforms Mechanics	100 100 100 100 100 100 100 100 100 100
	<b>Botany ñ Paper - IV</b> (Physiology, Cell Biology, Genetics & Biotechnology) (Physiology, Tissue Culture, Biotechnology, Seed Technology and Horticulture)	100
Friday, 8 <sup>th</sup> March 2 pm to 5 pm	<b>Fisheries ñ Paper-III</b> (Aquatic Biology)	100
	<b>*Statistics ñ Paper-III</b> Applied Statistics-I (with Maths Combination)	100
	<b>*Statistics ñ Paper-III</b> (Statistical Appln.) (with non-Mathematics Combination)	100
	<b>Agriculture ñ Paper-III</b>	100
	<b>Petro Chemicals ñ Paper-III</b>	100
	<b>Industrial Fish and Fisheries-Paper-III</b>	100
	<b>Aquaculture ñ Paper-III</b>	100
	<b>Engg. Geology and Geo Exploration - Paper-III</b>	100
	<b>Bio-Technology ñ Paper-III</b> (Molecularbiology and Genetic Engineering) (Molecular Biology, Genetic Engineering and Immunology)	100 100
	<b>Geology - Paper-III</b> (Paleontology, Indian Geology and Economics Geology)	100

Day, Date & Hours	Subjects	Marks
Friday, 8 <sup>th</sup> March 2 pm to 5 pm (Continued)	<b>Electronics ñ Paper-III</b> (Solid State Electronics Circuits and Digital Electronics)	100
	(Digital electronics and Microprocessor)	100
	<b>Applied Nutrition ñ Paper-III</b>	100
	<b>Medical Lab. Technology ñ Paper-III</b>	100
Saturday, 9 <sup>th</sup> March 2 pm to 5 pm	<b>Horticulture ñ Paper-III</b> (Floriculture and Landscape Gardening)	100
	<b>Fisheries ñ Paper-IV Aquaculture</b>	100
	<b>Agriculture - Paper-IV</b>	100
	<b>+Statistics ñ Paper-IV</b> Applied Statistics II (with Mathematics combination)	
	<i>Elective Subjects:</i>	
	Elements of Sampling & Experimental Designs	100
	+Elements of Computer Programming	100
	Optimization Methods	100
	Quality Reliability and Operations Research	100
	Bio-Statistics	100
	Actuarial Statistics	100
	Programming in C	100
	<b>+Statistics - Paper-IV</b> (with Non-Maths combination)	
	<i>Elective Subjects:</i>	
	+Elements of Sampling & Design of Experiments	100
	+Elements of Numerical Analysis and Operations Research	100
	+Demography	100
	Sampling Techniques and Design of Experiments	100
	<b>Petro Chemicals ñ Paper-IV</b>	100
<b>Industrial Fish and Fisheries-Paper-IV</b>	100	
<b>Aquaculture ñ Paper ñ IV</b>	100	
<b>Engg. Geology and Geo Exploration - Paper-IV</b>	100	
<b>Bio-Technology ñ Paper-IV</b> (Applications of Bio-Technology)	100	
<b>Geology ñ Paper-IV</b>		
<i>Elective Subjects:</i>		
Groundwater Exploration	100	
Mineral Exploration	100	
Environmental Geology	100	
<b>Electronics ñ Paper-IV</b>		
<i>Elective Subjects:</i>		
Industrial Electronics	100	
Microprocessors	100	
Digital Systems	100	
Electronic Communication Systems	100	
Embedded System and Applications	100	
Digital Design using VHDL	100	
<b>Applied Nutrition ñ Paper-IV</b>	100	
<b>Medical Lab. Technology ñ Paper-IV</b>	100	
<b>Horticulture ñ Paper-IV</b> (Fruit and Vegetable Technology)	100	

Day, Date & Hours	Subjects	Marks
Monday, 11 <sup>th</sup> March 2 pm to 5 pm	<b>Applied Chemistry ñ Paper-III</b> (Inorganic, Organic & Physical Chemistry)	100
	<b>Computer Science ñ Paper-III</b> (Database Management Systems)	100
	<b>Forestry ñ Paper-III</b>	100
	<b>Bio-Chemistry- Paper-III</b> (Physiology, Clinical Biochemistry and Immunology)	100
	<b>Computer Applications ñ Paper-III</b>	100
	<b>Nutrition &amp; Dietetics ñ Paper-III</b>	100
	<b>Environ. Science ñ Paper-III</b>	100
Tuesday, 12 <sup>th</sup> March 2 pm to 5 pm	<b>Applied Chemistry ñ Paper-IV</b> (Advanced Topic in Applied Chemistry)	100
	<b>Computer Science ñ Paper-IV</b>	100
	<i>Elective Subjects:</i>	
	Data Communications and Networks	100
	Programming in Java & HTML	100
	Visual Basic	100
	Internet Technologies & Web Commerce	100
	Systems Software	100
	Software Engineering	100
	Computer Graphics	100
	Visual C++	100
	Web Technologies	100
	GUI Programming	100
	Operating Systems	100
	PHP, My SQL and Apache	100
	<b>Forestry ñ Paper-IV</b>	100
	<b>Environmental Science ñ Paper-IV</b>	100
<b>Bio-Chemistry ñ Paper-IV</b> (Microbiology and Molecular Biology)	100	
<b>Computer Applications ñ Paper-IV</b>	100	
<b>Nutrition &amp; Dietetics ñ Paper-IV</b>	100	
Wednesday, 13 <sup>th</sup> March 2 pm to 5 pm	<b>Physics ñ Paper-III</b>	100
	Electricity - Magnetism and Electronics (for Maths combination)	
	<b>Physics ñ Paper-III</b> Electricity, Magnetism and Electronics (for non-Maths combination)	100
Thursday, 14 <sup>th</sup> March 2 pm to 5 pm	<b>Zoology ñ Paper-III</b> (Animal Physiology Behaviour and Ecology) (Animal Pysiology, Genetics & Evolution)	100
	<b>Physics ñ Paper-IV</b> Modern Physics (with Mathes combination)	100
	<b>Physics ñ Paper-IV</b> Modern Physics (with Non-Maths combination)	100
	<b>Zoology-Paper-IV</b>	
	<i>Electives:</i>	
	Aquaculture	100
	Clinical Science	100
	Applied Zoology	100

<b>Day, Date &amp; Hours</b>	<b>Subjects</b>	<b>Marks</b>	<b>Day, Date &amp; Hours</b>	<b>Subjects</b>	<b>Marks</b>	
Friday, 15 <sup>th</sup> March 2 pm to 5 pm	Chemistry ñ Paper-III (Inorganic, Organic & Physical Chemistry)	100	Wednesday, 20 <sup>th</sup> March 2 pm to 5 pm	+Geography ñ Paper-III (Regional Geography of India)	100	
	Computer Maintenance ñ Paper-III	100		Microbiology ñ Paper-III (Immunology and Medical Microbiology)	100	
	Instrumentation ñ Paper-III	100		Economics ñ Paper-III (Indian Economy and Environmental Economics (Indian Economy))	150	
	Public Health ñ Paper-III	100			100	
	Education ñ Paper-III	100		Thursday, 21 <sup>st</sup> March 2 pm to 5 pm	<b>+Geography ñ Paper-IV</b> (Regional Geography of Asia)	100
	Human Genetics ñ Paper-III	100		(Remote Sensing and GIS)	100	
Saturday, 16 <sup>th</sup> March 2 pm to 5 pm	Chemistry ñ Paper-IV (Chemistry of Drugs, Petrochemicals, Polymer Chemistry and Environmental Chemistry) (Chemistry and Industry)	100	Microbiology ñ Paper-IV (Applied Microbiology)	100		
	Instrumentation ñ Paper-IV	100	Economics-Paper-IV <i>Electives :</i>			
	Computer Maintenance ñ Paper-IV	100	Public Finance & International Economics	150		
	Education ñ Paper-IV	100	Quantitative Techniques	150		
	Human Genetics ñ Paper-IV	100	Microbiology ñ Paper-IV (Applied Micro Biology)	100		
	Public Health ñ Paper-IV	100	Economics-Paper-IV <i>Electives :</i>			
			Public Finance & International Economics	150		
			Quantitative Techniques	150		

@Common for B.A., B.Sc., B.Sc. (Home Science) and B.Com. (Vocational)  
+ Common for B.A. and B.Sc.

I<sup>st</sup> and II<sup>nd</sup> Year Mathematics Theory 100 Marks + Sessional and Record 50 Marks from 2004-2005 to the I year admitted batch onwards.

(By Order)

University Office  
Visakhapatnam  
Dt. 26-12-2012

**Dr. K. SAMRAJYALAKSHMI**  
Special Registrar & Controller of Examinations