

# ANDHRA UNIVERSITY

## B.Sc. DEGREE ADVANCED SUPPLEMENTARY EXAMINATIONS (C.C.S.) JULY - AUGUST - 2016

### 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>					
Friday, 5 <sup>th</sup> August 9 am to 12 noon	@Part-I (i) -- English -- Paper-I (For Supplementary Candidates)	75	Thursday, 18 <sup>th</sup> August 9 am to 12 noon	Micro Biology -- Paper-I (Introductory Micro Biology) +Statistics -- Paper-I Probability and Distribution (with Mathematics Combination)	100
9 am to 11 am	@Part-I (i) -- English -- Paper-I (w.e.f. 2005-2006 Admitted Batch)	50		+Statistics -- Paper-I Elementary Mathematics and Descriptive Statistics (with non-Mathematics Combination)	100
9 am to 12 noon	@Part-I (i) -- English -- Paper-I (w.e.f. 2012-2013 Admitted Batch)	75	Friday, 19 <sup>th</sup> August 9 am to 12 noon	Fisheries -- Paper-I (Biology of Fish) Industrial Fish and Fisheries -- Paper-I Petro Chemicals -- Paper-I Aquaculture -- Paper-I Engg. Geology & Geo-exploration -- Paper-I Geology -- Paper-I (Physical Geology, Crystallography and Mineralogy)	100 100 100 100 100 100
Saturday, 6 <sup>th</sup> August 9 am to 12 noon	@Part-I (ii) -- Telugu or any other Classical or Modern Indian Languages -- Paper-I	100		Electronics -- Paper-I (Circuit Analysis & Electronics Devices)	100
Monday, 8 <sup>th</sup> August 9 am to 10-30 am	@Part-I (iii) -- Compulsory Subject: Part-A -- Indian Heritage & Culture - Paper-I (For Supplementary Candidates)	50		Bio-Technology -- Paper-I (Cell Biology and Genetics)	100
9 am to 12 noon	Part-I (iii) -- Foundation Course-I (w.e.f. admitted batch 2009-2010)	70		Applied Nutrition -- Paper-I Agriculture -- Paper-I Medical Lab. Technology -- Paper-I Horticulture -- Paper-I	100 100 100 100
<b>Part-II -- Optional Subjects</b>				+Geography -- Paper-I (Fundamentals of Physical Geography)	100
Tuesday, 9 <sup>th</sup> August 9 am to 12 noon	@ Computer Course @ Computer Skills	100 100	Monday, 22 <sup>nd</sup> August 9 am to 12 noon	<b>AT THE END OF SECOND YEAR</b>	
Wednesday, 10 <sup>th</sup> August 9 am to 12 noon	Mathematics -- Paper-I (Differential Equations & Solid Geometry)	100	<b>PART - I</b>		
	Botany -- Paper-I (Diversity of Microbes and Cryptogams) (Microbial Diversity, Cryptogams and Gymnosperms)	100	Monday, 18 <sup>th</sup> July 2 pm to 5 pm	@Part-I (i) -- English -- Paper-II (for Supplementary Candidates)	100
Thursday, 11 <sup>th</sup> August 9 am to 12 noon	Physics -- Paper-I Mechanics, Waves and Oscillations (with Maths Combination)	100	2 pm to 4 pm	@Part-I (i) -- English -- Paper-I (w.e.f. 2005-2006 Admitted Batch)	50
	Physics -- Paper-I Mechanics, Waves and Oscillations (with non-Maths Combination)	100	2 pm to 5 pm	@Part-I (i) -- English -- Paper-I (w.e.f. 2012-2013 Admitted Batch)	75
	Zoology -- Paper-I (Biology of Invertebrates & Cell Biology)	100	Tuesday, 19 <sup>th</sup> July 2 pm to 5 pm	@ Part-I (ii) -- Telugu or any other Classical or Modern Language -- Paper-II	100
Friday, 12 <sup>th</sup> August 9 am to 12 noon	Chemistry -- Paper-I (Inorganic, Organic, Physical & General Chemistry)	100		@Part-I (iii) Compulsory Subject Part-B -- Science & Civilization (For Supplementary Candidates)	50
	Human Genetics -- Paper-I	100	<b>See Illrd Year</b>		
	Economics -- Paper-I (Micro Economics)	150	Wednesday, 20 <sup>th</sup> July 2 pm to 5 pm	Environmental Studies	75
Tuesday, 16 <sup>th</sup> August 9 am to 12 noon	Applied Chemistry -- Paper-I	100	Thursday, 21 <sup>st</sup> July 2 pm to 5 pm	Computer Course Computer Skills	100 100
	Computer Science -- Paper-I (PG Software & Programming in C)	100	Friday, 22 <sup>nd</sup> July 2 pm to 5 pm	Mathematics -- Paper-II (Abstract Algebra & Real Analysis)	100
	Computer Maintenance -- Paper-I	100		Botany -- Paper-II (Anatomy Embryology Taxonomy & Medicinal Botany)	100
	Computer Applications -- Paper-I	100			
	Public Health -- Paper-I	100			
	Education -- Paper-I	150			
	Environmental Science -- Paper-I	100			
	Instrumentation -- Paper-I	100			
	Bio-Chemistry -- Paper-I (Biomolecules and Enzymology)	100			
	Nutrition & Dietetics -- Paper-I	100			
	Forestry -- Paper-I	100			

Day, Date & Hours	Subjects	Marks	
Saturday, 23 <sup>rd</sup> July 2 pm to 5 pm	Physics -- Paper-II Thermodynamics and Optics (with Mathematics combination)	100	
	Physics -- Paper-II Thermodynamics & Optics (with Non-Mathematics combination)	100	
	Economics -- Paper-II (Macro Economics)	150	
	Zoology -- Paper-II (Biology of Chordates, Embryology & Zoogeography)	100	
Monday, 25 <sup>th</sup> July 2 pm to 5 pm	Chemistry -- Paper-II (Inorganic, Organic, Physical & General Chemistry)	100	
	Computer Maintenance -- Paper-II	50	
	Human Genetics -- Paper-II	100	
Tuesday, 26 <sup>th</sup> July 2 pm to 5 pm	Fisheries -- Paper-II (Fishery Biology)	100	
	Industrial Fish and Fisheries -- Paper-II	100	
	Geology -- Paper-II (Petrology and Structural Geology)	100	
	Aquaculture -- Paper-II	100	
	Electronics -- Paper-II (Devices & Circuits) (Analog Circuits & Communications)	100	
	Petro Chemicals -- Paper-II	100	
	Applied Nutrition -- Paper-II	100	
	Agriculture -- Paper-II	100	
	Medical Lab. Tech. -- Paper-II	100	
	Engineering Geology & Geo-Exploration -- Paper-II	100	
	Bio-Technology -- Paper-II (Biological Chemistry & Micro Biology)	100	
	Horticulture -- Paper-II	100	
	Wednesday, 27 <sup>th</sup> July 2 pm to 5 pm	Bio-Chemistry -- Paper-II (Metabolism & Bio-Chemistry Techniques)	100
		Public Health -- Paper-II	100
Nutrition & Dietetics -- Paper-II		100	
Environmental Science -- Paper-II		100	
Computer Science -- Paper-II (Object Oriented Programming with JAVA & Data Structures)		100	
Computer Applications -- Paper-II		100	
Instrumentation -- Paper-II		100	
Applied Chemistry -- Paper-II		100	
Forestry -- Paper-II		100	
Thursday, 28 <sup>th</sup> July 2 pm to 5 pm		+ Education -- Paper II	150
		Micro Biology -- Paper-II (Microbial Physiology & Genetics)	100
Friday, 29 <sup>th</sup> July	+ Statistics -- Paper-II Statistical Methods & Inference (with Maths Combination)	100	
	+ Statistics -- Paper-II Statistical Methods (with Non-Maths Combination)	100	
Wednesday, 3 <sup>rd</sup> August 2 pm to 5 pm	+ Geography -- Paper-II (Social & Economics Geography) (Human & Economic Geography)	100	

Day, Date & Hours	Subjects	Marks
<b>AT THE END OF THIRD YEAR</b>		
Monday, 18 <sup>th</sup> July 9 am to 11-00 am	@Part-I (i) -- English -- Paper-III (For Supple. Candidates only)	50
Tuesday, 19 <sup>th</sup> July 9 am to 12-00 noon	<b>Foundation Course-II</b>	<b>70</b>
9 am to 10-30 am	<b>Science &amp; Civilization</b> (Also for II <sup>nd</sup> Year Supple. Candidates)	<b>50</b>
Wednesday, 20 <sup>th</sup> July 9 am to 12-00 noon	<b>Mathematics -- Paper-III</b> (Linear Algebra and Vector Calculus)	100
	<b>Botany -- Paper-III</b> (Cell Biology, Genetics, Ecology and Biodiversity)	100
Thursday, 21 <sup>st</sup> July 9 am to 12-00 noon	<b>Mathematics -- Paper-IV</b> <i>Elective Subjects:</i>	
	Numerical Analysis	100
	*Number Theory	100
	*Lattice Theory	100
	*Discrete Mathematics	100
	Linear Programming	100
	Fourier Series and Integral Transforms	100
	Mechanics	100
	<b>Botany -- Paper-IV</b> (Physiology, Tissue Culture, Biotechnology, Seed Technology and Horticulture)	100
Friday, 22 <sup>nd</sup> July 9 am to 12-00 noon	<b>Fisheries -- Paper-III</b> (Aquatic Biology)	100
	+ <b>Statistics -- Paper-III</b> Applied Statistics-I (with Maths Combination)	100
	+ <b>Statistics -- Paper-III</b> (Statistical Appln.) (with non-Mathematics Combination)	100
	<b>Agriculture -- Paper-III</b>	100
	<b>Petro Chemicals -- Paper-III</b>	100
	<b>Industrial Fish and Fisheries -- Paper-III</b>	100
	<b>Aquaculture -- Paper-III</b>	100
	<b>Engg. Geology and Geo Exploration -- Paper-III</b>	100
	<b>Bio-Technology -- Paper-III</b> (Molecular Biology, Genetic Engineering and Immunology)	100
	<b>Geology -- Paper-III</b> (Paleontology, Indian Geology and Economics Geology)	100
	<b>Electronics -- Paper-III</b> (Solid State Digital Electronics and Microprocessor)	100
	<b>Applied Nutrition -- Paper-III</b>	100
	<b>Medical Lab. Technology -- Paper-III</b>	100
	<b>Horticulture -- Paper-III</b> (Floriculture and Landscape Gardening)	100
Saturday, 23 <sup>rd</sup> July 9 am to 12-00 noon	<b>Fisheries -- Paper-IV Aquaculture</b>	100
	<b>Agriculture -- Paper-IV</b>	100
	+ <b>Statistics -- Paper-IV</b> Applied Statistics II (with Mathematics combination)	
	<i>Elective Subjects :</i>	
	Quality Reliability and Operations Research	100
	Bio-Statistics	100
	Actuarial Statistics	100

Day, Date & Hours	Subjects	Marks	Day, Date & Hours	Subjects	Marks	
Monday, 25 <sup>th</sup> July 9 am to 12-00 noon	Programming in C	100	Wednesday, 27 <sup>th</sup> July 9 am to 12-00 noon	<b>Bio-Chemistry -- Paper-IV</b> (Microbiology and Molecular Biology)	100	
	<b>†Statistics - Paper-IV</b> (with Non-Maths combination)	100		<b>Computer Applications -- Paper-IV</b>	100	
	<b>Petro Chemicals -- Paper-IV</b>	100		<b>Nutrition &amp; Dietetics -- Paper-IV</b>	100	
	<b>Industrial Fish and Fisheries -- Paper-IV</b>	100		<b>Physics -- Paper-III</b>	100	
	<b>Aquaculture -- Paper-IV</b>	100		Electricity -- Magnetism and Electronics (for Maths combination)		
	<b>Engg. Geology and Geo Exploration -- Paper-IV</b>	100		<b>Physics -- Paper-III</b>	100	
	<b>Bio-Technology -- Paper-IV</b> (Applications of Bio-Technology)	100		Electricity, Magnetism and Electronics (for non-Maths combination)		
	<b>Geology -- Paper-IV</b>			<b>Zoology -- Paper-III</b>	100	
	<b>Elective Subjects:</b>			(Animal Physiology, Genetics & Evolution)		
	Groundwater Exploration	100		Thursday, 28 <sup>th</sup> July 9 am to 12-00 noon	<b>Physics -- Paper-IV</b>	100
	Mineral Exploration	100	Modern Physics (with Mathes combination)			
	Environmental Geology	100	<b>Physics -- Paper-IV</b>		100	
	<b>Electronics -- Paper-IV</b>		Modern Physics (with Non-Maths combination)			
	<b>Elective Subjects:</b>		<b>Zoology -- Paper-IV</b>			
	Embedded System and Applications	100	Friday, 29 <sup>th</sup> July 9 am to 12-00 noon	Applied Zoology	100	
	Digital Design using VHDL	100		Chemistry -- Paper-III	100	
	<b>Applied Nutrition -- Paper-IV</b>	100		(Inorganic, Organic & Physical Chemistry)		
	<b>Medical Lab. Technology -- Paper-IV</b>	100		Computer Maintenance -- Paper-III	100	
	<b>Horticulture -- Paper-IV</b> (Fruit and Vegetable Technology)	100		Instrumentation -- Paper-III	100	
	Tuesday, 26 <sup>th</sup> July 9 am to 12-00 noon	<b>Applied Chemistry -- Paper-III</b> (Inorganic, Organic & Physical Chemistry)		100	Saturday, 30 <sup>th</sup> July 9 am to 12-00 noon	Public Health -- Paper-III
<b>Computer Science -- Paper-III</b> (Database Management Systems)		100		Education -- Paper-III		100
<b>Forestry -- Paper-III</b> (Forest Utilization and Protections)		100		Human Genetics -- Paper-III		100
<b>Bio-Chemistry -- Paper-III</b> (Physiology, Clinical Biochemistry and Immunology)		100		Public Health -- Paper-III		100
<b>Computer Applications -- Paper-III</b>		100		Tuesday, 2 <sup>nd</sup> August 9 am to 12-00 noon		Chemistry -- Paper-IV (Chemistry and Industry)
<b>Nutrition &amp; Dietetics -- Paper-III</b>		100	Instrumentation -- Paper-IV			100
<b>Environ. Science -- Paper-III</b>		100	Computer Maintenance -- Paper-IV			100
<b>Applied Chemistry -- Paper-IV</b> (Advanced Topic in Applied Chemistry)		100	Education -- Paper-IV			100
<b>Computer Science -- Paper-IV</b>		100	Human Genetics -- Paper-IV			100
<b>Elective Subjects :</b>			Public Health -- Paper-IV			100
Web Technologies	100	+Geography -- Paper-III (Regional Geography of India)	100			
GUI Programming	100	Microbiology -- Paper-III (Immunology and Medical Microbiology)	100			
Operating Systems	100	Economics -- Paper-III (Indian Economy)	130			
PHP, My SQL and Apache	100	Thursday, 4 <sup>th</sup> August 9 am to 12-00 noon	<b>+Geography -- Paper-IV</b> (Remote Sensing and GIS)		100	
<b>Forestry -- Paper-IV</b> (Modern Trends in Forest Management)	100		Microbiology -- Paper-IV (Applied Microbiology)	100		
<b>Environmental Science - Paper-IV</b>	100		Economics -- Paper-IV			
			<b>Electives :</b>			
			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 I<sup>st</sup> year admitted batch onwards and remaining Candidates 150 Marks.

(By Order)

University Office  
Dt.18-06-2016

**D. NATARAJ**  
Joint Registrar & Controller of Examinations