

**ANDHRA UNIVERSITY**

**B.Sc. (CBCS) Degree Examinations :March/April, 2023  
Skill Enhancement Courses, Semesters From-2022-2023  
(REVISED SYLLABUS- w.e.f. 2020-2021)**

**(REVISED TIME TABLE) , FIFTH semester REGULAR**

Date and Day	Time	Subject	Paper Code	Max Marks
24 <sup>th</sup> March, 2023 (Friday)	2 PM TO 5 PM	<b>Part-II: MATHEMATICS</b> (Common with B.A & B.Sc.)		
		Paper :6A Numerical Methods	BS-S7119	75
		Paper: 6B Multiple Integrals and Applications Vector Calculus	BS-S7120	75
		Paper : 6C Partial Differential Equations and Fourier Series	BS-S7121	75
		<b>Part-II: BOTANY</b>		
		Paper : 6A Plant Propagation	BS-S7143	75
		Paper : 6B Vegetable Crops-cultivation Practices	BS-S7144	75
		Paper : 6C Plant Tissue Culture	BS-S7145	75
		Paper : 6D Gardening and Landscaping	BS-S7146	75
		25 <sup>th</sup> March, 2023 (Saturday)	2 PM TO 5 PM	<b>Part-II: MATHEMATICS</b> (Common with B.A & B.Sc.)
Paper : 7A Mathematical Special Functions	BS-S7122			75
Paper -: 7B Integral Transforms with Applications	BS-S7123			75
Paper: 7C Number Theory	BS-S7124			75
<b>Part-II: BOTANY</b>				
Paper: 7A Seed technology	BS-S7147			75
Paper : 7B Vegetable Crops-post Harvest Practices	BS-S7148			75
Paper : 7C Mushroom Cultivation	BS-S7149			75
Paper : 7D Agro forestry	BS-S7150			75
27 <sup>th</sup> March, 2023 (Monday)	2 PM TO 5 PM			<b>Part-II: PHYSICS</b> (for Maths combination)
		Paper :6A Optical instruments and optometry	BS-S71128	75
		Paper: 6B Low temperature physics & Refrigeration	BS-S71129	75
		Paper : 6C Applications of Electricity & Electronics	BS-S71130	75
		<b>Part II: ZOOLOGY</b>		
		Paper:6A Sustainable Aquaculture Management	BS-S7125	75
		Paper:6B Live stock management-I (Biology of Dairy Animals)	BS-S7126	75
		Paper:6C Poultry Management –I (Poultry Farming)	BS-S7127	75
		Paper:6D Seri culture –I	BS-S7128	75
		<b>Part-II: HUMAN GENETICS</b>		
		Paper : HGT A1 Clinical Genetics & Genetic Counseling	BS-S71134	75
		Paper : HGT B1 Human Genome project And Genomes	BS-S71135	75
		Paper: HGT CI Developmental & Behavioral Genetics	BS-S71136	75

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Date and Day	Time	Subject	Paper Code	Max Marks
28 <sup>th</sup> March, 2023 (Tuesday)	2 PM TO 5 PM	<b>Part-II: PHYSICS (for maths combination)</b>		
		Paper : 7A Optical imaging and photography	BS-S71131	75
		Paper : 7B Solar Energy and Applications	BS-S71132	75
		Paper : 7C Electronic Instrumentation	BS-S71133	75
		<b>Part-II: ZOOLOGY</b>		
		Paper : 7A Post harvest technology of fish and Fisheries	BS-S7129	75
		Paper : 7B Live stock management II (Dairy production and management)	BS-S7130	75
		Paper : 7C Poultry Management – II (Poultry production and management)	BS-S7131	75
		Paper : 7D Seri Culture – II	BS-S7132	75
		<b>Part-II: HUMAN GENETICS</b>		
		Paper : HGT A2 Laboratory Diagnosis in Genetics	BS-S71137	75
		Paper : HGT B2 Molecular Techniques in Genetic Engineering	BS-S71138	75
		Paper : HGT C2 Molecular Pathology in Human Diseases	BS-S71139	75
29 <sup>th</sup> March, 2023 (Wednesday)	2 PM TO 5 PM	<b>Part II: CHEMISTRY</b>		
		Paper: 6A Synthetic Organic Chemistry	BS-S7133	75
		Paper 6B Analytical Methods in Chemistry	BS-S7134	75
		Paper :6C Industrial Chemistry –I	BS-S7135	75
		Paper :6D Environmental Chemistry	BS-S7136	75
		Paper :6E Analytical Methods in Chemistry	BS-S7137	75
31 <sup>st</sup> March, 2023 (Friday)	2 PM TO 5 PM	<b>Part-II: CHEMISTRY</b>		
		Paper : 7A Analysis of organic compounds	BS-S7138	75
		Paper : 7B Analytical Methods in Chemistry –I	BS-S7139	75
		Paper : 7C Industrial Chemistry-2	BS-S7140	75
		Paper : 7D Green Chemistry and Nanotechnology	BS-S7141	75
Paper : 7E Cosmetics and Pharmaceutical Chemistry	BS-S7142	75		

Date and Day	Time	Subject	Paper Code	Max Marks
01 <sup>st</sup> April, 2023 (Saturday)	2 PM TO 5 PM	<b>Part-II: COMPUTER SCIENCE</b>		
		Paper :6A Web interface designing Technologies	BS-S71114	75
		Paper :6B Internet of things	BS-S71115	75
		Paper :6C Data Science	BS-S71116	75
		<b>Part-II: BIO-CHEMISTRY</b>		
		Paper : 6A Clinical Bio-Chemistry	BS-S7107	75
		Paper : 6B Food Technology	BS-S7108	75
		Paper : 6C Genetic Engineering	BS-S7109	75
		<b>Part-II: NUTRITION</b>		
		Paper : 6A Advanced diet therapy	BS-S7157	75
		Paper : 6B Nutrition & Fitness	BS-S7158	75
		Paper : 6C Food Processing & Preservation	BS-S7159	75
		Paper : 6D Food Product Development	BS-S7160	75
		<b>Part II : AQUACULTURE</b>		
		Paper : 6A Soil and water quality Management	BS-S7177	75
		Paper : 6B Techniques for Aqua Lab	BS-S7178	75
		Paper : 6C Aquaculture Economics	BS-S7179	75
		<b>Part-II: ECONOMICS</b>		
		Paper :6A Web interface designing Technologies	BA-S7155	75
		Paper : 6B Urban entrepreneurship and MSMEs	BA-S7156	75
Paper : 6C Insurance services	BA-S7157	75		
Paper : 6D Inferential statistics and software	BA-S7158	75		
03 <sup>rd</sup> April, 2023 (Monday)	2 PM TO 5 PM	<b>Part-II: COMPUTER SCIENCE</b>		
		Paper : 7A Web applications development Using PHP & MYSQL	BS-S71117	75
		Paper : 7B application development using Python	BS-S71118	75
		Paper : 7C Python for Data Science	BS-S71119	75
		<b>Part-II: BIO-CHEMISTRY</b>		
		Paper : 7A Hematological and immunological Techniques	BS-S7110	75
		Paper : 7B Food Microbiology	BS-S7111	75
		Paper : 7C Bioinformatics	BS-S7112	75
		<b>Part-II: NUTRITION</b>		
		Paper : 7A Human Physiology	BS-S7161	75
		Paper : 7B Nutrition health communication	BS-S7162	75
		Paper : 7C Food Labeling & Packaging	BS-S7163	75
		Paper : 7D Entrepreneurship Management	BS-S7164	75

Date and Day	Time	Subject	Paper Code	Max Marks
03 <sup>rd</sup> April, 2023 (Monday)	2 PM TO 5 PM	<b>Part II : AQUACULTURE</b>		
		Paper : 7A Ornamental Fish Culture	BS-S7180	75
		Paper : 7B Fish Processing Technology	BS-S7181	75
		7C Fish Microbiology and quality Assurance	BS-S7182	75
		<b>Part-II: ECONOMICS</b>		
		Paper : 7A Farmer Producer Organizations	BA-S7159	75
		Paper : 7B Retail and Digital marketing	BA-S7160	75
		Paper : 7C Banking and Financial Services	BA-S7161	75
		Paper : 7D Project Designing and Report Writing	BA-S7162	75
04 <sup>th</sup> April, 2023 (Tuesday)	2 PM TO 5 PM	<b>Part-II: MICROBIOLOGY</b>		
		Paper : 6A Food and dairy microbiology	BS-S7101	75
		Paper : 6B Clinical and diagnostic microbiology	BS-S7102	75
		Paper : 6C Pharmaceutical microbiology	BS-S7103	75
		<b>Part-II: STATISTICS (Common with B.A. &amp; B.Sc.) for Maths combination)</b>		
		Paper : 6A Operations Research – I	BS-S71108	75
		Paper : 6B Statical process and Quality control	BS-S71109	75
		Paper : 6C Econometrics	BS-S71110	75
		<b>Part II: INTERNET OF THINGS</b>		
		Paper : 6A Machine Learning for IoT	BS-S71156	75
		Paper : 6B Java Programming for IoT	BS-S71157	75
		Paper : 6C Web of Things	BS-S71158	75
		<b>Part II: ANALYTICAL CHEMISTRY</b>		
		Paper : 6A Instrumental methods of Analysis	BS-S71150	75
		Paper : 6B Analytical techniques	BS-S71151	75
Paper : 6C Separation methods, corrosion, Laboratory	BS-S71152	75		
06 <sup>th</sup> April, 2023 (Thursday)	2 PM TO 5 PM	<b>Part-II: MICROBIOLOGY</b>		
		Paper :7A Environmental and agriculture Microbiology	BS-S7104	75
		Paper : 7B Molecular biotechnology, Biostatistics And bioinformatics	BS-S7105	75
		Paper :7C Biosafety and IPR	BS-S7106	75
		<b>Part-II: STATISTICS</b>		
		Paper :7A Operations Research –II	BS-S71111	75
		Paper : 7B Computational Techniques and R Programming	BS-S71112	75
		Paper : 7C Regression Analysis	BS-S71113	75
		<b>Part II: INTERNET OF THINGS</b>		
		Paper : 7A Computer Vision	BS-S71159	75
		Paper : 7B Big Data and Analytics	BS-S71160	75
		Paper : 7C Security in Iot	BS-S71161	75
		<b>Part II: ANALYTICAL CHEMISTRY</b>		
		Paper : 7A Electro Analytical techniques	BS-S71153	75
		Paper : 7B Sampling methods and Data Analysis	BS-S71154	75
Paper : 7C Applied Analysis	BS-S71155	75		

Date and Day	Time	Subject	Paper Code	Max Marks
10 <sup>th</sup> April, 2023 (Monday)	2 PM TO 5 PM	<b>Part-II: FISHERIES</b>		
		Paper : 6A Fish Processing Technology	BS-S7165	75
		Paper : 6B Aquatic pollution and coastal Zone Management	BS-S7166	75
		Paper : 6C Fisheries Extension Education	BS-S7167	75
		<b>Part-II: BIO-TECHNOLOGY</b>		
		Paper : 6A Techniques in nursery Development	BS-S7113	75
		Paper : 6B Organic Farming	BS-S7114	75
		Paper : 6C Apiculture	BS-S7115	75
		<b>Part-II: AGRICULTURE</b>		
		Paper : 6A Extension	BS-S71162	75
		<b>Part-II: ELECTRONICS</b>		
		Paper : 6A Industrial Electronics	BS-S7151	75
		Paper : 6B Embedded Systems design	BS-S7152	75
		Paper : 6C VLSI Design	BS-S7153	75
		<b>Part-II HORTICULTURE</b>		
		Paper : 6A Ornamental Horticulture	BS-S71120	75
		Paper : 6B Precision Farming and Protected Cultivation	BS-S71121	75
		Paper : 6C Water Management in Horticulture Crops	BS-S71122	75
		Paper : 6D Dryland Horticulture	BS-S71123	75
		<b>Part II: DATA SCIENCE</b>		
Paper : 6A Data Analytics with tableau	BS-S7171	75		
Paper : 6B Supervised ML with python	BS-S7172	75		
Paper : 6C NLP with python	BS-S7173	75		
11 <sup>th</sup> April, 2023 (Tuesday)	2 PM TO 5 PM	<b>Part-II: FISHERIES</b>		
		Paper :7A Fish seed production technology	BS-S7168	75
		Paper : 7B Ornamental Fisheries	BS-S7169	75
		Paper : 7C Microbiology of Fish and fishery Products	BS-S7170	75
		<b>Part-II: BIO-TECHNOLOGY</b>		
		Paper : 7A Hydroponics	BS-S7116	75
		Paper : 7B Bio fertilizers and Biopesticides Production	BS-S7117	75
		Paper : 7C Pearl Culture	BS-S7118	75
		<b>Part-II: AGRICULTURE</b>		
		Paper : 7A Social Forestry and Organic Farming	BS-S71163	75
		<b>Part-II: ELECTRONICS</b>		
		Paper : 7A Electronic Instrumentation	BS-S7154	75
		Paper : 7B Consumer Electronics	BS-S7155	75
		Paper : 7C Data communication and Networking	BS-S7156	75
		<b>Part-II HORTICULTURE</b>		
		Paper : 7A Commercial Floriculture	BS-S71124	75
		Paper : 7B Post-harvest Management of Horticulture Crops	BS-S71125	75
		Paper : 7C Soil Fertility and Nutrient Management	BS-S71126	75
		Paper : 7D Plantation Crops	BS-S71127	75
		<b>Part II: DATA SCIENCE</b>		
Paper : 7A AI concepts and techniques With python	BS-S7174	75		
Paper :7B Unsupervised ML with python	BS-S7175	75		
Paper : 7C Deep learning neural networks With python	BS-S7176			

Date and Day	Time	Subject	Paper Code	Max Marks
12 <sup>th</sup> April, 2023 (Wednesday)	2 PM TO 5 PM	Part II: GEOGRAPHY (Common with B.A. & B.Sc)		
		Paper: 6A Economic Geography	BS-S71140	75
		Paper: 6B Environmental Geography	BS-S71141	75
		Paper: 6C Tourism Geography	BS-S71142	75
		Paper: 6D Agricultural Geography	BS-S71143	75
		<b>Part II: COMPUTER APPLICATION FOR SCIENCE</b>		
		Paper: 6A Big Data Analytics Using R	BC-S7119	75
		Paper : 6B Mobile application development	BC-S7120	75
		Paper: 6C E- Commerce application Development	BC-S7121	75
		Paper: 6D Multimedia Tools and Applications	BC-S7122	75
		Paper: 6E Biological databases and Applications	BS-S71148	75
13 <sup>th</sup> April, 2023 (Thursday)	2 PM TO 5 PM	Part II: GEOGRAPHY (Common with B.A. & B.Sc)		
		Paper:7A Industrial Geography	BS-S71144	75
		Paper:7B Disaster Management	BS-S71145	75
		Paper:7C Resource Geography	BS-S71146	75
		Paper:7D Remote sensing & GIS	BS-S71147	75
		<b>Part II: COMPUTER APPLICATION FOR SCIENCE</b>		
		Paper: 7A Data Science using python	BC-S7123	75
		Paper: 7B Cyber security and malware Analysis	BC-S7124	75
		Paper: 7C Real time governance System (RTGS)	BC-S7125	75
		Paper: 7D Digital imaging	BC-S7126	75
		Paper: 7E Essentials of Bioinformatics	BS-S71149	75

(BY ORDER)

C.A.O., AU,  
Visakhapatnam  
Dt:09-03-2023

  
(T.CHITTI BABU)  
CONTROLLER OF EXAMINATIONS

**ANDHRA UNIVERSITY**  
B.Sc., FOOD TECHNOLOGY COURSE STRUCTURE (CBCS)  
Degree Examinations – March/April, 2023  
Under Semester System  
Courses, Semesters From – 2022-2023  
**(REVISED SYLLABUS – w.e.f. 2020-21)**  
**FIFTH SEMESTER (REGULAR)**

**REVISED TIME TABLE**

Day, Date, Hours	SUBJECTS	Paper Code	Max Marks
Friday, 24 <sup>th</sup> March 2023 2 PM TO 5 PM	FOOD TECHNOLOGY Fermentation Technology	BS-S71164	75
Saturday, 25 <sup>th</sup> March 2023 2 PM TO 5 PM	FOOD TECHNOLOGY Product Development and Evaluation	BS-S71165	75
Monday, 27 <sup>th</sup> March 2023 2 PM TO 5 PM	FOOD TECHNOLOGY Dairy Technology	BS-S71166	75
Tuesday, 28 <sup>th</sup> March 2023 2 PM TO 5 PM	FOOD TECHNOLOGY Post Harvest Technology	BS-S71167	75
Wednesday, 29 <sup>th</sup> March 2023 2 PM TO 5 PM	FOOD TECHNOLOGY Food Quality and Certification	BS-S71168	75
Friday, 31 <sup>st</sup> March 2023 2 PM TO 5 PM	FOOD TECHNOLOGY Bakery and Confectionery Technology	BS-S71169	75

(BY ORDER)

C.A.O., AU,  
Visakhapatnam  
Dt:09-03-2023

  
(T. CHITTI BABU)  
CONTROLLER OF EXAMINATIONS

**ANDHRA UNIVERSITY**  
B.Sc., FOOD SCIENCE AND NUTRITION (CBCS)  
Degree Examinations – March/April, 2023  
Under Semester System  
Skill Enhancement Courses, Semesters From – 2022-2023  
**(REVISED SYLLABUS – w.e.f. 2020-21)**  
**FIFTH SEMESTER (REGULAR)**

**REVISED TIME TABLE**

Day, Date, Hours	SUBJECTS	Paper Code	Max Marks
Friday, 24 <sup>th</sup> March 2023 2 PM TO 5 PM	FOOD SCIENCE AND NUTRITION DSC- 5 Paper -1 (Core) Harvest Technology	<b>BS-S7189</b>	<b>75</b>
Saturday, 25 <sup>th</sup> March 2023 2 PM TO 5 PM	FOOD SCIENCE AND NUTRITION DSC- 5 Paper -2 (Core) Fermentation Technology	<b>BS-S7190</b>	<b>75</b>
Monday, 27 <sup>th</sup> March 2023 2 PM TO 5 PM	FOOD SCIENCE AND NUTRITION DSC- 5 Paper -3 (Core) Dairy Technology	<b>BS-S7191</b>	<b>75</b>
Tuesday, 28 <sup>th</sup> March 2023 2 PM TO 5 PM	FOOD SCIENCE AND NUTRITION DSC- 5 Paper -4 (Core) Nutrition in critical Care	<b>BS-S7192</b>	<b>75</b>
Wednesday, 29 <sup>th</sup> March 2023 2 PM TO 5 PM	FOOD SCIENCE AND NUTRITION DSC- 5 Paper -5 (Core) Health and Fitness	<b>BS-S7193</b>	<b>75</b>
Friday, 31 <sup>st</sup> March 2023 2 PM TO 5 PM	FOOD SCIENCE AND NUTRITION DSC- 5 Paper -6 (Core) Functional Foods and Nutraceuticals	<b>BS-S7194</b>	<b>75</b>

(BY ORDER)

C.A.O., AU,  
Visakhapatnam  
Dt:09-03-2023

  
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**ANDHRA UNIVERSITY**  
**B VOCATIONAL- AGRICULTURE**  
B.Sc. (CBCS) Degree Examinations – March/April, 2023  
Under Semester System  
Skill Enhancement Courses , Semesters – From 2022-2023  
**(REVISED SYLLABUS – w.e.f. 2020-2021)**  
**FIFTH SEMESTER (REGULAR)**

**REVISED TIME TABLE**

Day, Date, Hours	SUBJECTS	Paper Code	Max Marks
Friday, 24 <sup>th</sup> March 2023 2 PM TO 5 PM	<b>AGRICULTURE</b> Weed & Water Management Time: 3 hours	<b>BS-S7195</b>	75
Saturday, 25 <sup>th</sup> March 2023 2 PM TO 5 PM	<b>AGRICULTURE</b> Farm Power & Machinery Time: 3 hours	<b>BS-S7196</b>	75
Monday, 27 <sup>th</sup> March 2023 2 PM TO 5 PM	<b>AGRICULTURE</b> Rain fed Agriculture & Water Shed Management Time: 3 hours	<b>BS-S7197</b>	75
Tuesday, 28 <sup>th</sup> March 2023 2 PM TO 5 PM	<b>AGRICULTURE</b> Pests of Horticulture Crops & Productive Entomology Time: 3 hours	<b>BS-S7198</b>	75
Wednesday, 29 <sup>th</sup> March 2023 2 PM TO 5 PM	<b>AGRICULTURE</b> Fungicides & Plant disease Management Time: 3 hours	<b>BS-S7199</b>	75
Friday, 31 <sup>st</sup> March 2023 2 PM TO 5 PM	<b>AGRICULTURE</b> Production Technology for Fruits & Vegetables Time: 3 hours	<b>BS-S71101</b>	75

(BY ORDER)

C.A.O., AU,  
Visakhapatnam  
Dt:09-03-2023

  
(T. CHITTI BABU)  
CONTROLLER OF EXAMINATIONS

**ANDHRA UNIVERSITY**  
**B VOCATIONAL – DAIRYING & ANIMAL HUSBANDRY**  
B.Sc. (CBCS) Degree Examinations – March/April, 2023  
Under Semester System  
Skill Enhancement Courses ,Semesters From– 2022-2023  
**(REVISED SYLLABUS – w.e.f. 2020-21)**  
**FIFTH SEMESTER (REGULAR)**

**REVISED TIME TABLE**

Day, Date, Hours	SUBJECTS	Paper Code	Max Marks
Friday, 24 <sup>th</sup> March 2023 2 PM TO 5 PM	DAIRYING & ANIMAL HUSBANDRY Veterinary Pharmacology Time: 3 hours	BS-S71102	75
Saturday, 25 <sup>th</sup> March 2023 2 PM TO 5 PM	DAIRYING & ANIMAL HUSBANDRY Dairy Plant Management Time: 3 hours	BS-S71103	75
Monday, 27 <sup>th</sup> March 2023 2 PM TO 5 PM	DAIRYING & ANIMAL HUSBANDRY Fundamentals of Veterinary Time: 3 hours	BS-S71104	75
Tuesday, 28 <sup>th</sup> March 2023 2 PM TO 5 PM	DAIRYING & ANIMAL HUSBANDRY Veterinary clinical Practice Time: 3 hours	BS-S71105	75
Wednesday, 29 <sup>th</sup> March 2023 2 PM TO 5 PM	DAIRYING & ANIMAL HUSBANDRY Basics of Veterinary Time: 3 hours	BS-S71106	75
Friday, 31 <sup>st</sup> March 2023 2 PM TO 5 PM	DAIRYING & ANIMAL HUSBANDRY Veterinary Gynecology, Obstetrics and AI Time: 3 hours	BS-S71107	75

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C.A.O., AU,  
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Dt:09-03-2023

  
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