

ANDHRA UNIVERSITY

**B.Sc. (CBCS) Degree Examinations :February/March, 2023
Skill Enhancement Courses, Semesters From-2022-2023**

FIFTH semester (REVISED SYLLABUS- w.e.f. 2020-2021)

Date and Day	Time	Subject	Paper Code	Max Marks
10 th February, 2023 (Friday)	9.00 am to 12.00 Noon	Part-II: MATHEMATICS (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
		Part-II: BOTANY		
		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
13 th February, 2023 (Monday)	9.00 am to 12.00 Noon	Part-II: MATHEMATICS (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
		Part-II: BOTANY		
		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
14 th February, 2023 (Tuesday)	9.00 am to 12.00 Noon	Part-II: PHYSICS (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
		Part II: ZOOLOGY		
		Paper:6A Sustainable Aquaculture Management	BS-S7125	75
		Paper:6B Live stock management-1 (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

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Date and Day	Time	Subject	Paper Code	Max Marks
15 th February, 2023 (Wednesday)	9.00 am to 12.00 Noon	Part-II: PHYSICS (for maths combination)		
		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
		Part-II: ZOOLOGY		
		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
16 th February, 2023 (Thursday)	9.00 am to 12.00 Noon	Part-II: CHEMISTRY		
		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
		Part-II: HUMAN GENETICS		
		Paper : HGT A1 Clinical Genetics & Genetic Counseling	BS-S71134	75
		Paper : HGT B1 Human Genome project And Genomes	BS-S71135	75
Paper : HGT C1 Developmental & Behavioral Genetics	BS-S71136	75		
17 th February, 2023 (Friday)	9.00 am to 12.00 Noon	Part-II: CHEMISTRY		
		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
		Part-II: HUMAN GENETICS		
		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		

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Date and Day	Time	Subject	Paper Code	Max Marks
20 th February, 2023 (Monday)	9.00 am to 12.00 Noon	Part-II: COMPUTER SCIENCE		
		Paper :6A Web interface designing Technologies	BS-S71114	75
		Paper :6B Internet of things	BS-S71115	75
		Paper :6C Data Science	BS-S71116	75
		Part-II: BIO-CHEMISTRY		
		Paper : 6A Clinical Bio-Chemistry	BS-S7107	75
		Paper : 6B Food Technology	BS-S7108	75
		Paper : 6C Genetic Engineering	BS-S7109	75
		Part-II: NUTRITION		
		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
		Part II : AQUACULTURE		
		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
		Part-II: ECONOMICS		
		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		
21 st February, 2023 (Tuesday)	9.00 am to 12.00 Noon	Part-II: COMPUTER SCIENCE		
		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
		Part-II: BIO-CHEMISTRY		
		Paper : 7A Hematological and immunological Techniques	BS-S7110	75
		Paper : 7B Food Microbiology	BS-S7111	75
		Paper : 7C Bioinformatics	BS-S7112	75
		Part-II: NUTRITION		
		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		

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Date and Day	Time	Subject	Paper Code	Max Marks
21 st February, 2023 (Tuesday)	9.00 am to 12.00 Noon	Part II : AQUACULTURE		
		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
		Part-II: ECONOMICS		
		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
22 nd February, 2023 (Wednesday)	9.00 am to 12.00 Noon	Part-II: MICROBIOLOGY		
		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
		Part-II: STATISTICS (Common with B.A. & B.Sc.) for Maths combination)		
		Paper : 6A Operations Research – I	BS-S71108	75
		Paper : 6B Statical process and Quality control	BS-S71109	75
		Paper : 6C Econometrics	BS-S71110	75
		Part II: INTERNET OF THINGS		
		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
		Part II: ANALYTICAL CHEMISTRY		
		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		
23 rd February, 2023 (Thursday)	9.00 am to 12.00 Noon	Part-II: MICROBIOLOGY		
		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
		Part-II: STATISTICS		
		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
		Part II: INTERNET OF THINGS		
		Paper : 7A Computer Vision	BS-S71159	75
		Paper : 7B Big Data and Analytics	BS-S71160	75
		Paper : 7C Security in Iot	BS-S71161	75
		Part II: ANALYTICAL CHEMISTRY		
		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		

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Date and Day	Time	Subject	Paper Code	Max Marks
24 th February, 2023 (Friday)	9.00 am to 12.00 Noon	Part-II: FISHERIES		
		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
		Part-II: BIO-TECHNOLOGY		
		Paper : 6A Techniques in nursery Development	BS-S7113	75
		Paper : 6B Organic Farming	BS-S7114	75
		Paper : 6C Apiculture	BS-S7115	75
		Part-II: AGRICULTURE		
		Paper : 6A Extension	BS-S71162	75
		Part-II: ELECTRONICS		
		Paper : 6A Industrial Electronics	BS-S7151	75
		Paper : 6B Embedded Systems design	BS-S7152	75
		Paper : 6C VLSI Design	BS-S7153	75
		Part-II HORTICULTURE		
		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
		Part II: DATA SCIENCE		
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		
25 th February, 2023 (Saturday)	9.00 am to 12.00 Noon	Part-II: FISHERIES		
		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
		Part-II: BIO-TECHNOLOGY		
		Paper : 7A Hydroponics	BS-S7116	75
		Paper : 7B Bio fertilizers and Biopesticides Production	BS-S7117	75
		Paper : 7C Pearl Culture	BS-S7118	75
		Part-II: AGRICULTURE		
		Paper : 7A Social Forestry and Organic Farming	BS-S71163	75
		Part-II: ELECTRONICS		
		Paper : 7A Electronic Instrumentation	BS-S7154	75
		Paper : 7B Consumer Electronics	BS-S7155	75
		Paper : 7C Data communication and Networking	BS-S7156	75
		Part-II HORTICULTURE		
		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
		Part II: DATA SCIENCE		
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			

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Date and Day	Time	Subject	Paper Code	Max Marks
27 th February, 2023 (Monday)	9.00 am to 12.00 Noon	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
		Part II: COMPUTER APPLICATION FOR SCIENCE		
		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
28 th February, 2023 (Tuesday)	9.00 am to 12.00 Noon	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
		Part II: COMPUTER APPLICATION FOR SCIENCE		
		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:09-01-2023


(T.CHITTI BABU)
CONTROLLER OF EXAMINATIONS

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

TIME TABLE

Day, Date, Hours	SUBJECTS	Paper Code	Max Marks
Friday, 10 th February 2023 9AM to 12 Noon	FOOD TECHNOLOGY Fermentation Technology	BS-S71164	75
Monday, 13 th February 2023 9AM to 12 Noon	FOOD TECHNOLOGY Product Development and Evaluation	BS-S71165	75
Tuesday, 14 th February 2023 9AM to 12 Noon	FOOD TECHNOLOGY Dairy Technology	BS-S71166	75
Wednesday, 15 th February 2023 9AM to 12 Noon	FOOD TECHNOLOGY Post Harvest Technology	BS-S71167	75
Thursday, 16 th February 2023 9AM to 12 Noon	FOOD TECHNOLOGY Food Quality and Certification	BS-S71168	75
Friday, 17 th February 2023 9AM to 12 Noon	FOOD TECHNOLOGY Bakery and Confectionery Technology	BS-S71169	75

(BY ORDER)

C.A.O., AU,
Visakhapatnam
Dt:09-01-2023


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CONTROLLER OF EXAMINATIONS

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

TIME TABLE

Day, Date, Hours	SUBJECTS	Paper Code	Max Marks
Friday, 10 th February 2023 9AM to 12 Noon	FOOD SCIENCE AND NUTRITION DSC- 5 Paper -1 (Core) Harvest Technology	BS-S7189	75
Monday, 13 th February 2023 9AM to 12 Noon	FOOD SCIENCE AND NUTRITION DSC- 5 Paper -2 (Core) Fermentation Technology	BS-S7190	75
Tuesday, 14 th February 2023 9AM to 12 Noon	FOOD SCIENCE AND NUTRITION DSC- 5 Paper -3 (Core) Dairy Technology	BS-S7191	75
Wednesday, 15 th February 2023 9AM to 12 Noon	FOOD SCIENCE AND NUTRITION DSC- 5 Paper -4 (Core) Nutrition in critical Care	BS-S7192	75
Thursday, 16 th February 2023 9AM to 12 Noon	FOOD SCIENCE AND NUTRITION DSC- 5 Paper -5 (Core) Health and Fitness	BS-S7193	75
Friday, 17 th February 2023 9AM to 12 Noon	FOOD SCIENCE AND NUTRITION DSC- 5 Paper -6 (Core) Functional Foods and Nutraceuticals	BS-S7194	75

(BY ORDER)

C.A.O., AU,
 Visakhapatnam
 Dt:09-01-2023


 (T. CHITTI BABU)
 CONTROLLER OF EXAMINATIONS


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

TIME TABLE

Day, Date, Hours	SUBJECTS	Paper Code	Max Marks
Friday, 10 th February 2023 9AM to 12 Noon	AGRICULTURE Weed & Water Management Time: 3 hours	BS-S7195	75
Monday, 13 th February 2023 9AM to 12 Noon	AGRICULTURE Farm Power & Machinery Time: 3 hours	BS-S7196	75
Tuesday, 14 th February 2023 9AM to 12 Noon	AGRICULTURE Rain fed Agriculture & Water Shed Management Time: 3 hours	BS-S7197	75
Wednesday, 15 th February 2023 9AM to 12 Noon	AGRICULTURE Pests of Horticulture Crops & Productive Entomology Time: 3 hours	BS-S7198	75
Thursday, 16 th February 2023 9AM to 12 Noon	AGRICULTURE Fungicides & Plant disease Management Time: 3 hours	BS-S7199	75
Friday, 17 th February 2023 9AM to 12 Noon	AGRICULTURE Production Technology for Fruits & Vegetables Time: 3 hours	BS-S71101	75

(BY ORDER)

C.A.O., AU,
Visakhapatnam
Dt:09-01-2023


(T. CHITTI BABU)
CONTROLLER OF EXAMINATIONS

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

TIME TABLE

Day, Date, Hours	SUBJECTS	Paper Code	Max Marks
Friday, 10 th February 2023 9AM to 12 Noon	DAIRYING & ANIMAL HUSBANDRY Veterinary Pharmacology Time: 3 hours	BS-S71102	75
Monday, 13 th February 2023 9AM to 12 Noon	DAIRYING & ANIMAL HUSBANDRY Dairy Plant Management Time: 3 hours	BS-S71103	75
Tuesday, 14 th February 2023 9AM to 12 Noon	DAIRYING & ANIMAL HUSBANDRY Fundamentals of Veterinary Time: 3 hours	BS-S71104	75
Wednesday, 15 th February 2023 9AM to 12 Noon	DAIRYING & ANIMAL HUSBANDRY Veterinary clinical Practice Time: 3 hours	BS-S71105	75
Thursday, 16 th February 2023 9AM to 12 Noon	DAIRYING & ANIMAL HUSBANDRY Basics of Veterinary Time: 3 hours	BS-S71106	75
Friday, 17 th February 2023 9AM to 12 Noon	DAIRYING & ANIMAL HUSBANDRY Veterinary Gynecology, Obstetrics and AI Time: 3 hours	BS-S71107	75

(BY ORDER)

C.A.O., AU,
Visakhapatnam
Dt:09-01-2023


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