



**ANDHRA UNIVERSITY**

ఆంధ్ర విశ్వవిద్యాలయం

Accredited by NAAC with A++ Grade & Score: 1.74

**B.Sc. (CBCS) SEMESTER PATTERN  
DEGREE EXAMINATIONS : JUNE/JULY, 2024  
ADMITTED BATCH 2015-2019  
SIXTH SEMESTER (SUPPLEMENTARY)**

**TIME-TABLE**

Day, Time Hours	Paper Code	SUBJECT	Max Marks
Friday 14 <sup>th</sup> June 2024 2PM to 5PM	<b>MATHEMATICS (Common for B.A &amp; B.Sc.,)</b>		
	BSS3201/ BA-S3201	Elective-VII(A) Laplace Transforms	75
	BSS3202/ BA-S3202	Elective-VII(B) Numerical Analysis	75
	BSS3203/ BA-S3203	Elective-VII(C) Number Theory & Elective Problem Solving Sessions	75
	<b>BOTANY</b>		
	BS-S3234	Theory (Elective -I) Paper VII(A) Optional Paper VII(A) Organic Farming and Sustainable agriculture	75
	BS-S3235	Theory (Elective-II) VII(B) optional Paper VII(B) T Nursery, Gardening and Floriculture	75
	BS-S3236	Theory (Elective-III) Paper VII (C) Optional Paper VII(C) T Plant tissue culture and its Biotechnological applications	75
Saturday 15 <sup>th</sup> June 2024 2PM to 5PM	<b>PHYSICS</b>		
	BS-S3210	Elective Paper VII(A) Analog and Digital Electronics	75
	BS-S3211	Elective Paper VII (B) Material Science	75
	BS-S3212	Elective Paper VII (C) Renewal Energy	75
	<b>ZOOLOGY</b>		
	BS-S3242	Elective Paper VII(A) 1 Immunology	75
	BS-S3243	Elective Paper VII(B) Cellular Metabolism and Molecular Biology	75
	BS-S3244	Elective Paper VII(C) Bioinformatics	75

<b>Tuesday 18<sup>th</sup> June 2024</b> <b>2PM to 5PM</b>	<b>COMPUTER SCIENCE</b>		
	<b>BS-S3254</b>	Paper VII Elective A Operating Systems	75
	<b>BS-S3255</b>	Paper VII Elective B Computer Networks	75
	<b>BS-S3256</b>	Paper VII Elective C Web Technologies	75
	<b>BIO-CHEMISTRY</b>		
	<b>BS-S3275</b>	Elective Theory Paper VII (A) Microbiology and Molecular Biology	75
	<b>BS-S3276</b>	Elective Theory Paper VII (B) Biochemistry of Cell	75
	<b>BS-S3277</b>	Elective Theory Paper VII (C) Biochemical Correlations in Diseases	75
	<b>Nutrition</b>		
	<b>BS-S3340</b>	Paper VII (A) Food Microbiology Hygiene & Sanitation	75
<b>Wednesday 19<sup>th</sup> June 2024</b> <b>2PM to 5PM</b>	<b>CHEMISTRY</b>		
	<b>BS-S3222</b>	Elective Paper VII(A) Analytical Methods in Chemistry	75
	<b>BS-S3223</b>	Elective Paper VII(B) Environmental Chemistry	75
	<b>BS-S3224</b>	Elective Paper VII(C) Green Chemistry	75
	<b>HUMAN GENETICS</b>		
	<b>BS-S3321</b>	Elective Theory VII-A Basics of Human Biology	75
	<b>BS-S3322</b>	Elective Theory VII-B Human Genome Project and Genomes	75
	<b>BS-S3323</b>	Elective Theory VII-C Molecular Techniques in Genetic Engineering	75
	<b>ECONOMICS (See B.A. Time-Table)</b>		
	<b>BSS3343/ BA-S3226</b>	Elective Theory VII-A Agricultural Economics Elective Theory VII - F Public Finance	75

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**Thursday 20<sup>th</sup> June 2024**  
**2PM to 5PM**

**FISHERIES**

<b>BS-S3336</b>	Elective Paper VII-A Postharvest Technology	<b>75</b>
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**BIO-TECHNOLOGY**

<b>BS-S3287</b>	Elective Paper: VII(A) Plant and Animal Biotechnology	<b>75</b>
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<b>BS-S3288</b>	Elective Paper: VII (B) Environmental Biotechnology	<b>75</b>
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<b>BS-S3289</b>	Elective Paper: VII(C) Industrial Biotechnology (Elective Theory)	<b>75</b>
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**AGRICULTURE**

<b>BS-S3317</b>	Paper VII: Elective –A Extension	<b>75</b>
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**ELECTRONICS**

<b>BS-S3263</b>	Paper VII(A) Electronic Instrumentation(Elective)	<b>75</b>
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<b>BS-S3264</b>	Paper VII(B) Microcontroller and Interface (Elective)	<b>75</b>
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<b>BS-S3265</b>	Paper VII(C) Modern Communication Systems (Elective)	<b>75</b>
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**Horticulture**

<b>BS-S3333</b>	Paper VII Plantation Crops and Weed Management	<b>75</b>
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**MICROBIOLOGY**

<b>BS-S3299</b>	Elective Paper VII(A) Food and Industrial Microbiology <b>BS-S3299</b>	<b>75</b>
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<b>BS-S3300</b>	Elective Paper VII(B) Microbial Biotechnology	<b>75</b>
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<b>BS-S3301</b>	Elective Paper VII(C) Microbial Quality Control Instrumentation and bio techniques	<b>75</b>
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**STATISTICS**

(Common with B.A. & B.Sc.) with math combination

<b>BSS3311/ BA-S3311</b>	Elective Paper – VII(A) Applied Statistics	<b>75</b>
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<b>BSS3312/ BA-S3312</b>	Elective Paper – VII(B) Demography and Vital Statistics	<b>75</b>
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**Friday 21<sup>st</sup> June 2024**  
**2PM to 5PM**

Saturday 22<sup>nd</sup> June 2024  
2PM to 5PM

<b>Paper VIII</b>		
<b>CLUSTER ELECTIVES-1(A-1, B1 &amp; C1)</b>		
<b>MATHEMATICS (Common for B.A &amp; B.Sc)</b>		
BS-S3204/ BA-S3204	Cluster Elective VIII-A-1 Integral Transforms	75
BSS3206/ BA-S3206	Cluster Elective VIII-B-1 Principles of Mechanics	75
BSS3208/ BA-S3208	Cluster Elective VIII-C-1 Graph Theory	75
<b>PHYSICS</b>		
BS-S3213	Cluster Elective Paper VIII-A-1-Introduction to Microprocessors & Microcontrollers	75
BS-S3216	Cluster Elective Paper VIII-B-1 Fundamentals of Nanoscience	75
BS-S3219	Cluster Elective Paper VIII-C-1 Solar Thermal and Photovoltaic Aspects	75
<b>CHEMISTRY</b>		
BS-S3225	Cluster Electives – I Paper VIII-A-1 Polymer Chemistry	75
BS-S3228	Paper VIII-B-1 Fuel Chemistry & Batteries	75
BS-S3231	Paper VIII-C-I Organic Spectroscopic Techniques	75
<b>BOTANY</b>		
BS-S3237	VIII-A-1 Theory Plant diversity and human welfare	75
BS-S3240	VIII -B-1 Biological Instrumentation and Methodology	75
<b>ZOOLOGY</b>		
BS-S3245	Cluster Elective Paper VIII A-1 Clinical Biochemistry	75
BS-S3248	Cluster Elective Paper VIII B-1 Principles of Aquaculture	75
BS-S3251	Cluster Elective Paper VIII C-1 General Sericulture Mulberry Cultivation and Management	75

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Saturday 22<sup>nd</sup> June 2024  
2PM to 5PM

<b>COMPUTER SCIENCE</b>		
BS-S3257	Paper VIII Elective A 1 Foundations of Data Science	75
BS-S3259	Paper VIII Elective B-I Distributed Systems	75
BS-S3261	Paper VIII Elective –C-1 PHP-MySQL , Wordpress	75
<b>ELECTRONICS</b>		
BS-S3266	Paper VIII-A-1-Electronics Circuits and PCB Designing	75
BS-S3269	Paper VIII-B-1-Embedded Systems	75
BS-S3272	Paper VIII -C-1 Digital Signal Processing	75
<b>BIO-CHEMISTRY</b>		
BS-S3278	Cluster Theory VIII-(A-1) Molecular biology	75
BS-S3281	Cluster Theory VIII-(B-1) Cell Biology-1	75
BS-S3284	Cluster Theory VIII-(C-1) Diagnostic Biochemistry	75
<b>BIO-TECHNOLOGY</b>		
BS-S3290	Cluster Elective – I VIII-A (1) Nutritional Biotechnology	75
BS-S3293	Cluster Elective –II VIII-B-1-(1) Tissue culture	75
BS-S3296	Cluster Electives –III VIII-C-1- Cell Biology	75
<b>MICROBIOLOGY</b>		
BS-S3302	Cluster Elective VIII-A (1 )Industrial Microbiology	75
BS-S3305	Cluster Elective VIII –B (1) r DNA Technology	75
BS-S3308	Cluster Elective VIII – C (1) Biostatistics and Bioinformatics	75
<b>STATISTICS</b>		
BSS3313/ BA-S3313	VIII (A1) Optimization Techniques	75
BSS3315/ BA-S3315	VIII-B (1) Advanced Experimental Design	75
<b>AGRICULTURE</b>		
BS-S3318	(Cluster A-1) Paper VIII ( Forestry and Organic Farming) Forestry – I	75
<b>HUMAN GENETICS</b>		
BS-S3324	Cluster Theory VIII-A(1) Molecular Pathology in Human Diseases	75
BS-S3327	Cluster Theory VIII-B(1) Molecular Genetics	75
BS-S3330	Cluster Theory VIII-C(1) Clinical Genetics & Genetic Counseling	75

Saturday 22 <sup>nd</sup> June 2024 2PM to 5PM		<b>FISHERIES</b>	
	BS-S3337	Cluster Elective Paper VIII A 1 Fishery Economics and Extension	75
		<b>NUTRITION</b>	
	BS-S3341	Cluster Elective Paper VIII A 1 Applied Life Sciences	75
		<b>HORTICULTURE</b>	
	BS-S3334	Paper VIII A-1 Medicinal and Aromatic Crops (Elective)	75
Monday 24 <sup>th</sup> June 2024 2 PM to 5 PM	<b>Paper VIII</b> <b><u>CLUSTER ELECTIVES-2 (A2,B2 &amp; C2)</u></b>		
		<b><u>MATHEMATICS (Common for B.A &amp; B.Sc)</u></b>	
	BSS3205/ BA-S3205	Cluster Elective VIII-A-2 Advanced Numerical Analysis	75
	BSS3207/ BA-S3207	Cluster Elective VIII-B- 2 Fluid Mechanics	75
	BSS3209/ BA-S3209	Cluster Elective VIII-C-2 Applied Graph Theory	75
		<b>PHYSICS</b>	
	BS-S3214	Cluster Elective Paper VIII-A-2 Computational Physics and Programming	75
	BS-S3217	Cluster Elective Paper VIII-B-2 Synthesis and Characterization of Nanomaterials	75
	BS-S3220	Cluster Elective Paper VIII-C-2 Wind, Hydro and Ocean Energies	75
		<b>CHEMISTRY</b>	
	BS-S3226	Paper VIII-A-2 Instrumental Methods of Analysis	75
	BS-S3229	Paper VIII-B-2 Inorganic Materials of Industrial Importance	75
	BS-S3232	Paper VIII-C-2 Advanced Organic Reactions	75

Monday 24<sup>th</sup> June 2024  
2 PM to 5 PM

<b>BOTANY</b>		
BS-S3238	VIII-A-2 Theory Ethno botany and medicinal Botany	75
BS-S3241	VIII -B-2 Mushroom culture and Technology	75
<b>ZOOLOGY</b>		
BS-S3246	Cluster Elective Paper VIII A-2 Haematology	75
BS-S3249	Cluster Elective Paper VIII B-2 Aquaculture Management	75
BS-S3252	Cluster Elective Paper VIII C-2 Biology of Mulberry silk worm and Silk worm Rearing	75
<b>COMPUTER SCIENCE</b>		
BS-S3258	Paper VIII Elective A 2 Big Date Technology	75
BS-S3260	Paper VIII Elective B-2 Cloud Computing	75
BS-S3262	Paper VIII Elective-C-2 VIII Advanced Java Script: JQUERY/AJAX/JSON/ Angular JS	75
<b>ELECTRONICS</b>		
BS-S3267	Paper VIII-A-2- Bio Medical Instrumentation	75
BS-S3270	Paper VIII-B-2-Basic VLSI Design	75
BS-S3273	Paper VIII -C-2- Transmission Lines, Antenna and Wave Propagation	75
<b>BIO-CHEMISTRY</b>		
BS-S3279	Cluster Theory VIII-(A-2) R DNT Technology	75
BS-S3282	Cluster Theory VIII-(B-2) Cell Biology-2	75
BS-S3285	Cluster Theory VIII-(C-2) Clinical Biochemistry	75
<b>BIO-TECHNOLOGY</b>		
BS-S3291	Cluster Elective -I VIII-A(2) Food Biotechnology	75
BS-S3294	Cluster Elective -II VIII-B (2) Industrial Biotechnology	75
BS-S3297	Cluster Elective - III VIII-C (2) Gene Biotechnology	75

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Monday 24<sup>th</sup> June 2024  
2 PM to 5 PM

<b>MICROBIOLOGY</b>		
BS-S3303	Cluster Elective VIII- A(2)Food Microbiology	75
BS-S3306	Cluster Elective VIII –B (2) Microbes in Sustainable Agriculture	75
BS-S3309	Cluster Elective VIII –C (2) Bio safety and Intellectual property Right	75
<b>STATISTICS</b>		
BS-S3314/ BA-S3314	VIII A(2) Operations Research	75
BS-S3316/ BA-S3316	VIII-B (2) Actuarial Statistics	75
<b>AGRICULTURE</b>		
BS-S3319	Cluster A-2- Paper VIII (Forestry and organic Farming) Forestry – II	75
<b>HUMAN GENETICS</b>		
BS-S3325	Cluster Theory VIII-A(2) Cytogenetics	75
BS-S3328	Cluster Theory VIII-B(2) Human Biochemical Genetics	75
BS-S3331	Cluster Theory VIII-C(2) Laboratory Diagnosis in Genetics	75
<b>FISHERIES</b>		
BS-S3338	Cluster Elective Paper VIII A 2 Fish Genetics and Seed Production	75
<b>NUTRITION</b>		
BS-S3342	Cluster Elective Paper VIII A 2 Diet Therapy	75
<b>HORTICULUTRE</b>		
BS-S3335	Paper VIII A-2 Horticulture, Farm Finance and Marketing (Elective)	75



Tuesday 25<sup>th</sup> June 2024  
2 PM to 5 PM

Paper VIII CLUSTER ELECTIVES-3 (A-3, B-3 & C3)		
<b>PHYSICS</b>		
BS-S3215	Cluster Elective Paper VIII-A-3 Electronic Instrumentation	75
BS-S3218	Cluster Elective Paper VIII-B-3 Applications of Nanomaterials and Devices	75
BS-S3221	Cluster Elective Paper VIII-C-3 Energy Storage Devices	75
<b>CHEMISTRY</b>		
BS-S3227	Paper VIII-A-3 Analysis of Drugs, Foods, Dairy Products & Bio-chemical Analysis	75
BS-S3230	Paper VIII-B-3 Analysis of Applied Industrial Products	75
BS-S3233	Paper VIII-C-3 Pharmaceutical and Medicinal Chemistry	75
BS-S3239	<u>BOTANY</u> VIII-A3 Theory Pharmacognosy and Phytochemistry	75
<b>ZOOLOGY</b>		
BS-S3247	Cluster Elective Paper VIII A-3 Clinical Microbiology BS-S3247	75
BS-S3250	Cluster Elective Paper VIII B-3 Postharvest Technology	75
BS-S3253	Cluster Elective Paper VIII C-3 Silk Technology Silk Marketing and Extension	75
<b>ELECTRONICS</b>		
BS-S3268	Paper VIII-A-3- Consumer Electronics	75
BS-S3271	Paper VIII-B-3-Computer Net Works	75
BS-S3274	Paper VIII-C-3- Mobile Application Programming	75
<b>BIO-CHEMISTRY</b>		
BS-S3280	Cluster Theory VIII-(A-3) Microbiology	75
BS-S3283	Cluster Theory VIII-(B-3) Membrane Biology	75
BS-S3286	Cluster Theory VIII-(C-3) Bio-Chemical Genetics	75

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Tuesday 25<sup>th</sup> June 2024  
2 PM to 5 PM

BIO-TECHNOLOGY		
BS-S3292	Cluster Elective -I VIII –A (3) Metabolisms	75
BS-S3295	Cluster Elective-II VIII-B (3) Environmental Biotechnology	75
BS-S3298	Cluster Elective-III VIII-c(3) Biostatistics and Bioinformatics	75
MICROBIOLOGY		
BS-S3304	Cluster Elective VIII –A(3)Management of Human Microbial Diseases	75
BS-S3307	Cluster Elective VIII – B (3) Bio-fertilizers and Bio- pesticides	75
BS-S3310	Cluster Elective VIII-C (3) Drug design and Discovery	75
AGRICULTURE		
BS-S3320	(Cluster A-3) Paper VIII (Forestry and Organic Forming) Organic Farming & Sustainable Agriculture	75
HUMAN GENETICS		
BS-S3326	Cluster Theory VIII-A(3) Genetics and Society	75
BS-S3329	Cluster Theory VIII-B(3) Human Population Genetics	75
BS-S3332	Cluster Theory VIII-C(3) Developmental & Behavioral Genetics	75
FISHERIES		
BS-S3339	<u>FISHERIES</u> Cluster Elective paper VIII A 3 Fish Nutrition and Feed Technology	75

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(By order)

C.A.O., AU, VSP  
Dt:18-05-2024

  
(T. CHITTI BABU)  
JOINT REGISTRAR &  
CONTROLLER OF EXAMINATIONS



**ANDHRA UNIVERSITY**

ఆంధ్ర విశ్వకళాపరిషత్

Accredited by NAAC with A++ Grade & Score: 3.74

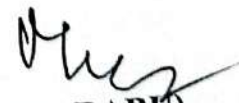
**B.Sc. – FOOD SCIENCE AND NUTRITION**  
**Admitted Batch 2015-2019, JUNE/JULY, 2024**  
**DEGREE EXAMINATIONS (CBCS) SEMESTER PATTERN**  
**SIXTH SEMESTER (SUPPLEMENTARY)**

**TIME-TABLE**

Day ,Date & Hours	PAPER CODE	SUBJECT	MAX.MARKS
Friday 14 <sup>th</sup> June 2024 2 PM to 5 PM	BS-S3345	DSC-1 Paper-7 Part: II Food Production	75
Saturday 15 <sup>th</sup> June 2024 2 PM to 5 PM	BS-S3346	DSC-1 Paper-7 Part: II Functional Foods and Nutraceuticals	75
Tuesday 18 <sup>th</sup> June 2024 2 PM to 5 PM	BS-S3347	DSC-1 Paper-7 Part: II Nutrition and Critical Care	75
<b>CLUSTER -1 (Paper-8)</b>			
Wednesday 19 <sup>th</sup> June 2024 2 PM to 5 PM	BS-S3348	A-1 : Food Packaging	75
	BS-S3351	B-1 : Food Service Management	75
	BS-S3354	C-1 : Sensory Evaluation	75
<b>CLUSTER -2 (Paper-8)</b>			
Thursday 20 <sup>th</sup> June 2024 2 PM to 5 PM	BS-S3349	A-2 : Food trade and business Management	75
	BS-S3352	B-2 : Food Production and Patisserie	75
	BS-S3355	C-2 : Food Product Development	75
<b>CLUSTER -3 (Paper-8)</b>			
Friday 21 <sup>st</sup> June 2024 2 PM to 5 PM	BS-S3350	A-3 : Food quality and certification	75
	BS-S3353	B-3 : Food Commodities and Preparation	75
	BS-S3356	C-3 : Food Service Facilities Planning	75

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C.A.O., AU, VSP  
Dt:18-05-2024

  
(T. CHITTI BABU)  
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ఆంధ్ర విశ్వకళాపరిషత్


Accredited by NAAC with A++ Grade & Score: 3.74

**B.Sc. – FOOD TECHNOLOGY**  
**Admitted Batch 2015-2019, JUNE/JULY, 2024**  
**DEGREE EXAMINATIONS (CBCS) SEMESTER PATTERN**  
**SIXTH SEMESTER (SUPPLEMENTARY)**

**TIME-TABLE**

Day ,Date & Hours	PAPER CODE	SUBJECT	MAX.MARKS
Friday 14 <sup>th</sup> June 2024 2 PM to 5 PM	BS-S3357	DSC-1 Paper-7 Part: II Research Methodology	75
Saturday 15 <sup>th</sup> June 2024 2 PM to 5 PM	BS-S3358	DSC-1 Paper-7 Part: II Food Processing Equipment-2	75
Tuesday 18 <sup>th</sup> June 2024 2 PM to 5 PM	BS-S3359	DSC-1 Paper-7 Part: II Food Packaging- 2	75
<b>CLUSTER -1 (Paper-8)</b>			
Wednesday 19 <sup>th</sup> June 2024 2 PM to 5 PM	BS-S3360	A-1 : Food quality and Certification	75
	BS-S3363	B-1 : Post harvest Technology	75
	BS-S3366	C-1 : Functional Foods and Nutraceuticals	75
<b>CLUSTER -2 (Paper-8)</b>			
Thursday 20 <sup>th</sup> June 2024 2 PM to 5 PM	BS-S3361	A-2 : Instrumentation for Food Analysis	75
	BS-S3364	B-2 : Food Science Technology	75
	BS-S3367	C-2 : Food Product Development & Evaluation	75
<b>CLUSTER -3 (Paper-8)</b>			
Friday 21 <sup>st</sup> June 2024 2 PM to 5 PM	BS-S3362	A-3 : Food Safety and Hygeine -1	75
	BS-S3365	B-3 : Banking Technology	75
	BS-S3368	C-3 : Sensory Evaluation	75

C.A.O., AU, VSP  
Dt:18-05-2024

  
(T. CHITTI BABU)  
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