



# ANDHRA LOYOLA COLLEGE

**AUTONOMOUS :: VIJAYAWADA - 520 008**

**Established : 1954**

**A CHRISTIAN MINORITY COLLEGE WITH CONSTITUTIONALLY PROVIDED RIGHT OF ADMISSION  
(AN ISO 14001 : 2015 INSTITUTION)**

**THE ONLY COLLEGE IN BOTH THE TELUGU STATES TO HAVE BEEN RANKED AMONG  
THE TOP 150 COLLEGES BY NIRF SINCE THE INCEPTION OF THE RANKING IN 2017**

**SELECTED UNDER THE STAR COLLEGE SCHEME OF DBT AND FIST PROGRAMME OF DST, GOVT.OF INDIA  
SELECTED FOR ENHANCEMENT OF QUALITY AND EXCELLENCE UNDER RUSA BY MHRD, GOVT.OF INDIA**

## COURSE STRUCTURES

**A College Dedicated to All-Round Development of its Students**



## STRUCTURE OF THE COURSES [ODD SEMESTERS-2021-2022]

ANDHRA LOYOLA COLLEGE[AUTONOMOUS], DEPARTMENT OF ENGLISH B.Sc./B.A/B.Com/B.B.A-Semesters I, III & V (Revised CBCS) STRUCTURE OF THE COURSES [ODD SEMESTERS-2021-2022]					
GENERAL ENGLISH COURSES					
Year	Semester	Course	Title of the Course	No. of Hrs/W	COURSE CODES
1	I	1	ENGLISH PRAXIS COURSE-1- A COURSE IN COMMUNICATION AND SOFT SKILLS	4	ENG111ACS
SKILL DEVELOPMENT COURSE					
1	I	SDC	OFFICE SECRETARY SHIP	2	SDC111OS
CERTIFICATE COURSE					
1	I	CC	ENGLISH ENRICHMENT AND CAREER DEVELOPMENT SKILLS	2	CC111ECD
2	III	3	ENGLISH FOR EMPOWERMENT-III	4	ENG233EE
SKILL DEVELOPMENT COURSE					
2	III	SDC	DISASTER MANAGEMENT	2	SDC231DM
COURSES: ENGLISH LITERATURE					
Year	Semester	Course	Title of the Course	No. of Hrs/W	
1	I	1	HISTORY OF ENGLISH LANGUAGE AND LITERATURE	5	ENG111HEL
2	III	3	BRITISH LITERATURE	5	ENG233BL
3	V	5A	CULTURAL DIVERSITY, GENDER AND HUMAN RIGHTS	5	ENG355CD
		6A	CONTEMPORARY INDIAN WRITINGS AND FILM STUDIES	5	ENG356CIW



## STRUCTURE OF THE COURSES [EVEN SEMS. -2021-22]

ANDHRA LOYOLA COLLEGE[AUTONOMOUS], DEPARTMENT OF ENGLISH B.Sc./B.A/B.Com/B.B.A-Semesters I, III & V (Revised CBCS) STRUCTURE OF THE COURSES [EVEN SEMS. -2021-2022]					
GENERAL ENGLISH COURSES					
Year	Semester	Course	Title of the Course	No. of Hrs/W	COURSE CODES
1	II	2	ENGLISH PRAXIS COURSE II- A COURSE IN READING AND WRITING	4	ENG122CWR
SKILL DEVELOPMENT COURSE					
1	II	SDC	JOURNALISTIC REPORTING	2	SDC121JR
1	III	SDC	BUSINESS COMMUNICATION		SDC122BC
2	IV	4	ENGLISH FOR EMPOWERMENT-IV	4	ENG244EE
SKILL DEVELOPMENT COURSE					
2	IV	SDC	DISASTER MANAGEMENT	2	SDC231DM
CERTIFICATE COURSE					
I	II	CC	ENGLISH PROFICIENCY FOR COMMUNICATION SKILLS	3	CC122EPC
COURSES: ENGLISH LITERATURE					
Year	Semester	Course	Title of the Course	No. of Hrs/W	COURSE CODES
1	II	2	AN INTRODUCTION TO LITERARY CRITICISM & LITERARY THEORY	5	ENG122ILC
2	IV	4	LITERARY CROSS CURRENTS	5	ENG244LCC
3	VI	7	ENGLISH FOR LANGUAGE & LINGUISTICS	4	ENG367EL
3	VI	8C1	ENGLISH LANGUAGE TEACHING	4	ENG368C1ELT
3	VI	8C2	SECOND LANGUAGE ACQUISITION	2	ENG368C2SLA
3	VI	8C3	AN INTRODUCTION TO SOCIOLINGUISTICS	2	ENG368C3ILS
ENGLISH LANGUAGE LAB					
3	VI	LAB	ENGLISH LITERATURE LAB	2	ENG367EL(P)





Mr. N. Ranga Babu

Head, Department of English

ANDHRA LOYOLA COLLEGE (AUTONOMOUS): VIJAYAWADA:8

DEPARTMENT OF TELUGU COURSES

COURSE STRUCTURE 2021-2022

క్రమ.సం	సమి	కోర్సు కోడ్	శీర్షిక	పీరియడ్లు/వారానికి	క్రెడిట్లు
<u>I</u>	<u>I</u>	<u>TEL111PTK</u>	ప్రాచీన తెలుగు కవిత్వం	<u>4</u>	<u>3</u>
<u>II</u>	<u>II</u>	<u>TEL122ATS</u>	ఆధునిక తెలుగు సాహిత్యం	<u>4</u>	<u>3</u>
<u>III</u>	<u>III</u>	<u>TEL233SR</u>	స్పృజనాత్మక రచన	<u>4</u>	<u>3</u>

<b>LSCs/ SDCs/ Certificate Courses</b>				
<b>LSC</b>	LSC 111 HVPE	HUMAN VALUES PROFESSIONAL ETHICS	2	2
<b>SDC</b>	SDC 121 PA	PERFORMING ARTS	2	2

K. S. S. S. S.  
HOD

**ANDHRA LOYOLA COLLEGE (AUTONOMOUS): VIJAYAWADA:8**

**HINDI LANGUAGE  
COURSE STRUCTURE 2021-22**

<b>B.Sc. Hindi Department COURSE STRUCTURE</b>						
<b>Year</b>	<b>Semester</b>	<b>Course Code</b>	<b>Title of the Course</b>	<b>Marks</b>	<b>No.of Hrs/W</b>	<b>No.of Credits</b>
<b>1</b>	<b>I</b>	<b>HIN111HGS</b>	<b>Hindi Gadya Sahitya</b>	<b>100</b>	<b>4</b>	<b>3</b>
	<b>II</b>	<b>HIN122HKS</b>	<b>Hindi Katha Sahitya</b>	<b>100</b>	<b>4</b>	<b>3</b>
<b>2</b>	<b>III</b>	<b>HIN233HSK</b>	<b>Hindi Sahitya ka Itihas</b>	<b>100</b>	<b>4</b>	<b>3</b>

*K. Sedhy*

HOD

ANDHRA LOYOLA COLLEGE (AUTONOMOUS): VIJAYAWADA:8

SANSKRIT LANGUAGE

COURSE STRUCTURE 2021-22

B.Sc. Sanskrit Department COURSE STRUCTURE						
Year	Semester	Course Code	Title of the Course	Marks	No.ofHrs/W	No.of Credits
1	I	SAN111SSP	SanskritaSahityaParichayaha	100	4	3
	II	SAN122SSV	SanskritaSahityaVijnanam	100	4	3
2	III	SAN233SSS	SanskritaSahityaSarvaswam	100	4	3

K. Sathya  
HOD



# ANDHRA LOYOLA COLLEGE (AUTONOMOUS)

## VIJAYAWADA- 520 008

### DEPARTMENT OF ECONOMICS - COURSE STRUCTURE (2021-22) SEMESER I, II, III IV, V, VI (REVISED CBCS)

Year	Semester	Course	Title of the Course		No of Hrs/Week	No of Credits	
I	I	1	Microeconomic Analysis	ECO111MEA	5	4	
		SDC1	Insurance Promotion	SDC111IP	2	2	
		Certificate Course 1	Environmental Economics	CC111EE	4	2	
	II	2	Macroeconomic Analysis	ECO122MEA	5	4	
		2(B.Com)	Business Economics	COM121BE	5	4	
		Certificate Course 2	Survey and Reporting	CC122SR	4	2	
II	III	3	Development Economics	ECO233DE	5	4	
		SDC2	Financial Markets	SDC232FM	2	2	
	IV	4	Economic Development in India and Andhra Pradesh	ECO244EDIAP	5	4	
		5	Statistical Methods for Economics	ECO245SME	5	4	
		III	V	5	Economic Development and Indian Economy	ECO355EDI	5
6	Quantitative Techniques and Statistical Applications			ECO356QTS	5	4	
VI	7		Public Finance	ECO367PF	5	4	
	<b>Cluster Electives – (A)</b>						
	8 A1		Public Economics	ECO368C1PE	5	4	
	8A2		Indian banking system	ECO368C2IBS	5	4	
	8 A3		Rural and Farm Credit	ECO368C3RFC	5	4	
PROJECT	PROJECT WORK	PRJ360ECO		3			

Dr. Baby Rani Bommadevara  
Head, Department of Economics



**ANDHRA LOYOLA COLLEGE (Autonomous), VIJAYAWADA**

**DEPARTMENT OF POLITICAL SCIENCE**

**COURSE STRUCTURE FOR THE SEMESTERS 2021-22**

SEMESTER	PAPER	NAME OF THE PAPER	Course Code	NO OF HOURS	NO OF CREDITS
I	I	Introduction to Political Science	POL/111	5	4
II	II	Basic Organs of the government	POL/122	5	4
III	III	Indian Government and Politics	POL/233	5	4
IV	IV	Indian Political Process	POL/244	5	4
V	V	Indian Political Thought	POL/355	5	4
	VI	Western Political Thought	POL/356	5	4
VI	VII	Principals Of Public Administration	POL/367	5	4
					4

*A. Chand Reddy*

# ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

(A Statutory body of the Government of Andhra Pradesh)

CBCS – UG SYLLABUS SUBJECT REVIEW COMMITTEE

2021-2022

(To Be Implemented From Academic Year)

PROGRAMME: THREE-YEAR B.A. (With History, Economics and PolSci., Disciplines)

Domain Subject: History

(Syllabus with Outcomes, Co-curricular Activities, References & Model Q.P  
for Five Courses of 1, 2, 3 & 4 Semesters)

Structure of HISTORY Syllabus under CBCS for 3-year B.A. Programme (with domain  
subject covered during the first 4 Semesters with 5 Courses)

Sl. No	Code	Sem	Courses 1, II, III, IV & V	Name of Course (Each Course consists 5 Units with each Unit having 12 hours of class-work)	Hours/Week	Credits	Marks	
							Mid Sem	Sem End
1		I	I	Ancient Indian History & Culture (From Indus Valley Civil. to 13 Century A.D)	5	4	25	75
2		II	II	Medieval Indian History & Culture (1206 A.D To 1764 A.D)	5	4	25	75
3		III	III	Modern Indian History & Culture (1764-1947 A. D)	5	4	25	75
4		IV	IV	History & Culture of Andhra (from 1512 to 1956 AD)	5	4	25	75
5		IV	V	History Of Modern World (From 15th Cent. AD to 1945 AD)	5	4	25	75

6		V - VI		Tourism Hospitality Management	5	4	25	75
7		V	IV	Tourism Guidance & Operation	5	4	25	75

*[Signature]*

Dr. MOUVA SANKIVASARAOY,

ANDHRA LOYOLA COLLEGE(AUTONOMOUS) VIJAYAWADA-8

**COURSE STRUCTURE**

**DEPARTMENT : MATHEMATICS**

**YEAR : 2021-2022**

SEMESTER	COURSE CODE	TITLE OF THE COURSE	Hrs / Week	Credits
I	MAT111DE	Differential Equations	6	5
II	MAT122ASG	Analytical Solid Geometry	6	5
III	MAT233AA	Abstract Algebra	6	5
	LSC232AS	Analytical Skills	2	2
IV	MAT244RA	Real Analysis	6	5
V	MAT355MT	Matrix Theory	5	5
	MAT356LA	Linear Algebra	5	5
VI	MAT367NT	Number Theory	5	5
	MAT368C1VC	Vector Calculus	5	5
	MAT368C2GT	Graph Theory	5	5
	MAT368C3NA	Numerical Analysis	5	5

*R. R. Rao*

**Andhra Loyola College**  
**Department of Statistics**  
**Course Structure for the academic year 2020-21**

Year	Semester	Course Code	Course Title	Hours per Week	No. of Credits
I	I	STA111DSP	Descriptive Statistics & Theory of Probability	4	3
		STA111DSP (P)	Descriptive Statistics & Theory of Probability Practicals	2	2
	II	STA122PD	Probability Distributions	4	3
		STA122PD (P)	Probability Distributions Practicals	2	2
II	III	STA233SMS	Statistical Methods and Exact Sampling Distributions	3	3
		STA233SMS (P)	Statistical Methods and Exact Sampling Distributions Practicals by Using MS-Excel	3	2
	IV	STA244SI	Statistical Inference	3	3
		STA244SI (P)	Statistical Inference Practicals by Using MS-Excel	3	2
III	V	STA355DES	Design of Experiments & Sample Surveys	3	3
		STA355DES (P)	Design of Experiments & Sample Surveys (P)	3	2
		STA356OR	Operations Research	3	3
		STA356OR (P)	Operations Research Practicals by Using SPSS (P)	3	2
		STA367AS	Applied Statistics	3	3
		STA367AS (P)	Applied Statistics (P)	3	2
		STA368C1SQC	Statistical Quality Control	3	3
		STA368C1SQC (P)	Statistical Quality Control Practicals by Using SPSS (P)	3	2

*Signature*

	VI	STA368C2OT	Optimization Techniques	3	3
		STA368C2OT (P)	Optimization Techniques (P)	3	2
		STA368C3BSD	Basic Statistical Data Analysis Using R	3	3
		STA368C3BSD (P)	Basic Statistical Data Analysis Using R Practicals	3	2
		PRJ360STA	Project Work		3

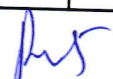
**Course Structure for the academic year 2020-21**  
**For Big Data Analytics and Artificial Intelligence**

Year	Semester	Course Code	Course Title	Hours per Week	No. of Credits
I	I	STA111SM	Statistical Methods	4	3
		STA111SM (P)	Statistical Methods Practicals	2	2
	II	STA122BPT	Basic Probability Theory	4	3
		STA122BPT (P)	Basic Probability Theory Practicals	2	2
II	III	STA233PD	Probability Distributions	3	3
		STA233PD (P)	Probability Distributions Practicals (P)	3	2
	IV	STA244ETH	Basic Theory of Estimation & Testing of Hypothesis	3	3
		STA244ETH (P)	Basic Theory of Estimation & Testing of Hypothesis Practicals (P)	3	2
III	V	STA355AS	Applied Statistics	3	3
		STA355AS (P)	Applied Statistics Practicals	3	2

*D. Srinivasulu*

# BSc Physics Course Structure for 2021-22

ANDHRA LOYOLA COLLEGE (AUTONOMOUS) VIJAYAWADA-8					
DEPARTMENT OF PHYSICS					
COURSE STRUCTURE FOR ODD & EVEN SEMESTERS OF 2021-22					
UNDER REVISED CBCS SYSTEM FOR BSC -MPC, MPCs, MPS					
Year	Semester	Course	Title of the Course	Number of HRS / week	Number of Credits
I BSc	1	1	Mechanics, waves and Oscillations Course code -PHY111MWO	4	4
			Practical course - I	2	1
		SDC	Electrical appliances Course Code – SDC111EA	2	2
	2	2	Wave Optics Course Code – PHY122WO	4	4
			Practical course – II	2	1
		SDC	Solar Energy Course Code – SDC122SE	2	2
II BSc	3	3	Heat & Thermodynamics Course Code – PHY233TH	4	4
			Practical Course – III	2	1
	4	4	Electricity Magnetism & Electronics Course Code – PHY244EME	4	4
			Practical course – IV	2	1
		5	Modern Physics Course Code – PHY245MP	4	4
			Practical course – V	2	1
III BSc OLD Regulation	5	6	Electricity & Magnetism (old pattern) Course code - – PHY355	3	2
			Practical course – IV	3	2
		7	Atomic, Molecular & Nuclear Physics Course code - – PHY356	3	2
			Practical course – VII	3	2
	6	8	Analog & Digital Electronics Course code – PHY367ADE	3	2
			Practical course – VIII	3	2
		9 (1)	Introduction to Microprocessors & Micro controllers Course code - PHY368C1IM	3	2
			Practical course – IX (1)	3	2
		9 (2)	Material Science – IX (3) Course Code - PHY368C2MS	3	2
			Practical course – IX (2)	3	2
		9 (3)	Electronic Instrumentation Course code – PHY368C3EI	3	2
			Practical course – IX (2)	3	2

  
 P. SREENIVASA SASTRY  
 HOD PHYSICS

**DEPARTMENT OF CHEMISTRY  
COURSE STRUCTURE  
ACADEMIC YEAR 21-22**

Year	Semester	Course	Title of the Course	Course code	No. of Hrs/W	No. of Credits
1	I	1	Inorganic and Physical chemistry	CHE111IPC	4	3
			Practical-1: Volumetric analysis	CHE111VA(P)	2	2
	II	2	Organic and General chemistry	CHE122OPC	4	3
			Practical-II: Analysis of salt mixture	CHE122MA(P)	2	2
2	III	3	Organic and Physical chemistry	CHE233POC	4	3
			Practical-III: Analysis of organic compounds	CHE233AOC(P)	2	2
	IV	4	Organic and spectroscopy of organic compounds	CHE244OCS	4	3
			Practical-IV: Organic Preparation and spectral analysis of organic compounds	CHE244OPSA(P)	2	2
		5	Inorganic and Physical chemistry	CH245IPC	4	3
			Practical-V: Physical and instrumental methods of analysis	2CH245PIM(P)	2	2
3	V	5	Organic chemistry and spectroscopy of organic compounds	CHE355OSC	3	3
			Lab	Practical-V: Physical chemistry	CHE355PI(P)	3
		6	Inorganic and physical chemistry	CHE356IPC	3	3
			Lab	Practical-VI: Instrumental methods of Analysis	CHE356IA(P)	3
	VI	7	Analytical methods of chemistry and general chemistry	CHE367AM	3	3
			Lab	Practical-VII: Analytical and Inorganic chemistry	CHE367AM(P)	3
		8 A	Organic spectroscopy & chemistry of natural products	CHE368C1OSC	3	3
			Lab	Practical-VIII A	368C1SOP(P)	3
		8 B	Mechanism and principle of organic synthesis	CHE368C2MPOS	3	3
			Lab	Practical-VIII B	CHE368C2MPOS(P)	3
		8 C	Pesticide, pharmaceutical and quantum chemistry	CHE368C3PQC	3	3
			Lab	Practical-VIII C	CHE368C3DCC(P)	3

*[Signature]*  
HOD Chemistry

**ANDHRA LOYOLA COLLEGE (AUTONOMOUS)::VIJAYAWADA**

**B.Sc., COMPUTER SCIENCE STRUCTURE & SYLLABUS**

**(W. E. F. 2021-2022)**



**DEPARTMENT OF COMPUTER SCIENCE**



**DEPARTMENT OF COMPUTER SCIENCE – COURSE STRUCTURE**

**SEMESTER I, II, III, IV, V & VI (REVISED CBCS)**

**B. Sc., – Maths, Physics, Computer Science; Maths, Statistics, Computer Science;**

**Maths, Computer Science, Electronics**

**B. Sc., – Electronic Technology, Computer Science**

<b>Year</b>	<b>Semester</b>	<b>Course</b>	<b>Title of the Course</b>	<b>No. of Hrs/W</b>	<b>No. of Credits</b>
1	I	1	Problem Solving using Computers & Python Programming	4	3
			Python Programming Lab	2	2
		LSC	Computer Applications	2	2
	II	2	Data Structures	4	3
			Data Structures using 'C' Lab	2	2
		LSC	Computer Applications	2	2
2	III	3	Database Management Systems	4	3
			MySQL Lab	2	2
	IV	4	• Operating System	4	3
			Unix Lab	2	2
			• Object Oriented Programming with Java	4	3
			Java lab	2	2
3	V	5	Principals of Operating System	4	3
			Unix Lab	3	2
		6	Software Engineering	4	3
			Software Design Tools Lab	3	2
	VI	7	Data Structures	4	3
			Data Structures using C Lab	3	2
		8C1	Big Data Technology	4	3
			Hadoop Lab	3	2
		8C2	Cloud Computing	4	3
			Cloud Computing Lab	3	2
		8C3	Foundation of Data Science	4	3
			R Programming Lab	3	2

*Handwritten signature*  
(S. B. NEHU)

**ANDHRA LOYOLA COLLEGE (AUTONOMOUS)::VIJAYAWADA**

**STRUCTURE & SYLLABUS  
(W. E. F. 2021-2022)**

**B.Sc., (Computer Science with Big Data Analytics)**



**DEPARTMENT OF COMPUTER SCIENCE**

**DEPARTMENT OF COMPUTER SCIENCES – COURSE STRUCTURE  
SEMESTER I, II, III, IV, V & VI (REVISED CBCS)**

**B. Sc., – Maths, Statistics , Big Data Analytics**

<b>Year</b>	<b>Semester</b>	<b>Course</b>	<b>Title of the Course</b>	<b>No. of Hrs/W</b>	<b>No. of Credits</b>
1	I	1	Programming using 'C'	4	3
			C Lab	2	2
		2	Database Management Systems	4	3
			MySQL Lab	2	2
	II	3	Data Visualization	4	3
			Table Lab	2	2
		4	Big Data Analytics	4	3
			Hadoop Lab	2	2
2	III	5	Data Warehouse & Data Mining	4	3
			Weka Lab	2	2
		6	Data Storage Technologies and Networks	4	3
			Data Storage Technologies Lab	2	2
		7	Object Oriented Programming With Java	4	3
	Java Lab		2	2	
	IV	8	Hadoop & Data Analysis	4	3
			R Programming Lab	2	2
		9	Principles of Operating System	4	3
			Unix Lab	2	2
10		Digital Computer Organization & Introduction to Computer System Architecture	4	3	
	PHP Lab	2	2		

3	V	11	Distributed Systems	4	3	
			Web Designing Lab	2	2	
		12	Cyber Security	4	3	
			Cyber Security Lab	2	2	
		13	Advanced Java Programming	4	3	
			Adv. Java programming Lab	2	2	
		14	Data Structures	4	3	
			Data Structures using C Lab	2	2	
		15	Software Engineering	4	3	
			Software Design Tools Lab	2	2	
		VI	INTERNSHIP			

**ANDHRA LOYOLA COLLEGE (AUTONOMOUS)::VIJAYAWADA**

**STRUCTURE & SYLLABUS**

**(W. E. F. 2021-2022)**

**B.Sc., (Computer Science with Artificial Intelligence)**



**DEPARTMENT OF COMPUTER SCIENCE**

**DEPARTMENT OF COMPUTER SCIENCE-COURSE STRUCTURE**  
**SEMESTER I, II, III, IV, V & VI**

**B. Sc.,- Maths, Statistics, Artificial Intelligence**

<b>Year</b>	<b>Semester</b>	<b>Course</b>	<b>Title of the Course</b>	<b>No. of Hrs/W</b>	<b>No. of Credits</b>	
1	I	1	Programming using 'C'	4	3	
			C Programming Lab	2	2	
		2	Application Based Programming in Python	4	3	
			Python Lab	2	2	
	II	3	Introduction to AI & ML	4	3	
			Machine Learning in Python	2	2	
		4	Database Management Systems	4	3	
			MySQL	2	2	
	2	III	5	Information Communication Technology (ICT-2)	4	3
				ICT-2 LAB	2	2
6			Applied Machine Learning	4	3	
			Advanced Python Lab	2	2	
7			Object Oriented Programming With Java	4	3	
			Java Lab	2	2	
IV		8	Theoretical Machine Learning (TML)	4	3	
			Machine Learning Lab	2	2	
		9	Statistical Machine Learning (SML)	4	3	
			Advanced R Programming Lab	2	2	
		10	Digital Computer Organization & Introduction to Computer System Architecture	4	3	
			PHP Lab	2	2	

<b>Year</b>	<b>Semester</b>	<b>Course</b>	<b>Title of the Course</b>	<b>No. of Hrs/W</b>	<b>No. of Credits</b>		
<b>3</b>	<b>V</b>	<b>11</b>	<b>Introduction to Neural Networks and Deep Learning</b>	<b>4</b>	<b>3</b>		
			<b>Neural Networks Lab</b>	<b>2</b>	<b>2</b>		
		<b>12</b>	<b>Operating Systems</b>	<b>4</b>	<b>3</b>		
			<b>Unix Lab</b>	<b>2</b>	<b>2</b>		
		<b>13</b>	<b>Natural Language Processing (NLP)</b>	<b>4</b>	<b>3</b>		
			<b>NLP Lab</b>	<b>2</b>	<b>2</b>		
		<b>14</b>	<b>Data Structures</b>	<b>4</b>	<b>3</b>		
			<b>Data Structures using C Lab</b>	<b>2</b>	<b>2</b>		
		<b>15</b>	<b>Software Engineering</b>	<b>4</b>	<b>3</b>		
			<b>Software Design Tools Lab</b>	<b>2</b>	<b>2</b>		
		<b>VI</b>	<b>INTERNSHIP</b>				





DEPARTMENT OF ELECTRONICS – COURSE STRUCTURE (2021 – 2022)					
B.Sc. (Maths, Computer Science, Electronics)					
Year	Semester	Course Code	Title of the Course	No. of Hrs/W	No. of Credits
I	I	ELE 111NAE	NETWORK ANALYSIS AND ANALOG ELECTRONICS	4	3
		ELE 111 NAE P	Practical - NETWORK ANALYSIS AND ANALOG ELECTRONICS	2	2
		ELE 112 FEC	FUNDAMENTALS OF ELECTRICAL AND ELECTRONIC COMPONENTS	4	3
		ELE 112 FEC P	Practical - FUNDAMENTALS OF ELECTRICAL AND ELECTRONIC COMPONENTS	2	2
	II	ELE 123 LDC	LINEAR AND DIGITAL INTEGRATED CIRCUITS	4	3
		ELE 123 LDC P	Practical - LINEAR AND DIGITAL INTEGRATED CIRCUITS	2	2
		ELE 124 PEP	PCB AND ELECTRONIC PRODUCT DESIGN	4	3
		ELE 124 PEP P	Practical - PCB DESIGN	2	2
II	III	ELE 235 MP	MICROPROCESSORS	4	3
		ELE 235 MP P	Practical - MICROPROCESSORS	2	2
		ELE 236 LDF	LED LIGHTING DESIGN FUNDAMENTALS AND TESTING	4	3
		ELE 236 LDF P	Practical - LUMINAIRES LAB	2	2
	IV	ELE 247 EI	ELECTRONIC INSTRUMENTATION	4	3
		ELE 247 EI P	Practical – ELECTRONIC INSTRUMENTATION	2	2
		ELE 248 SLA	SOLID STATE LIGHTING APPLICATION	4	3
		ELE 248 SLA P	Practical - SSL TESTING	2	2
III	V	ELE 359 MCI	MICROCONTROLLER AND INTERFACING	3	3
		ELE 359 MCI P	Practical - MICROCONTROLLER & INTERFACING	3	2
		ELE 35X CS	COMMUNICATION SYSTEMS	3	3
		ELE 35X CS	Practical – COMMUNICATION LAB	3	2
	VI	ELE 367 AMC	ADVANCED MICROCONTROLLERS	3	3
		ELE 367 AMC P	Practical – ADVANCED MICROCONTROLLERS	3	2
		ELE 368 PE	POWER ELECTRONICS	3	3
		ELE 368 PE P	Practical - POWER ELECTRONICS	3	2
		ELE 368 RES	RENEWABLE ENERGY SOURCES	3	3
		ELE 368 RES P	Practical - RENEWABLE ENERGY SOURCES	3	2
		ELE 368 VLD	VLSI DESIGN	3	3
		ELE 368 VLD P	Practical - VLSI DESIGN	3	2

A. Salim Khan  
HOD, Electronics  
Chairman, BOS

**DEPARTMENT OF ELECTRONICS – COURSE STRUCTURE (2021 – 2022)**

**B.Sc. Electronics Technology**

Year	Semester	Course Code	Title of the Course	No. of Hrs/W	No. of Credits		
I	I	ELE 111NAE	NETWORK ANALYSIS AND ANALOG ELECTRONICS	4	3		
		ELE 111 NAE P	Practical - NETWORK ANALYSIS AND ANALOG ELECTRONICS	2	2		
		ELE 112 FEC	FUNDAMENTALS OF ELECTRICAL AND ELECTRONIC COMPONENTS	4	3		
		ELE 112 FEC P	Practical - FUNDAMENTALS OF ELECTRICAL AND ELECTRONIC COMPONENTS	2	2		
		ELT 111 CE	CONSUMER ELECTRONICS	4	3		
	II	ELE 123 LDC	LINEAR AND DIGITAL INTEGRATED CIRCUITS	4	3		
		ELE 123 LDC P	Practical - LINEAR AND DIGITAL INTEGRATED CIRCUITS	2	2		
		ELE 124 PEP	PCB AND ELECTRONIC PRODUCT DESIGN	4	3		
		ELE 124 PEP P	Practical - PCB DESIGN	2	2		
		ELT 122 PMT	PC MAINTENANCE AND TROUBLE SHOOTING	4	3		
		ELT 122 WHS P	ENGINEERING DRAWING				
		II	III	ELE 235 MP	MICROPROCESSORS	4	3
	ELE 235 MP P			Practical - MICROPROCESSORS	2	2	
	ELE 236 LDF			LED LIGHTING DESIGN FUNDAMENTALS AND TESTING	4	3	
ELE 236 LDF P	Practical - LUMINAIRES LAB			2	2		
ELT 233 BN	BASICS OF NETWORKS			4	3		
IV	ELE 247 EI		ELECTRONIC INSTRUMENTATION	4	3		
	ELE 247 EI P		Practical – ELECTRONIC INSTRUMENTATION	2	2		
	ELE 248 SLA		SOLID STATE LIGHTING APPLICATION	4	3		
	ELE 248 SLA P		Practical - SSL TESTING	2	2		
	ELE 249 MCI		MICROCONTROLLER AND INTERFACING	4	3		
	ELE 249 MCI P		Practical - MICROCONTROLLER & INTERFACING	2	2		
	ELT 244 CNS		COMPUTER NETWORKS AND NETWORK SECURITY	4	3		
	III		V	ELE 356 MCI	ADVANCED MICROCONTROLLERS	3	3
				ELE 356 MCI P	Practical – ADVANCED MICROCONTROLEERS	3	2
ELE 35X CS		COMMUNICATION SYSTEMS		3	3		
ELE 35X CS P		Practical – COMMUNICATION LAB		3	2		
ELE 35XII PE		POWER ELECTRONICS		3	3		
ELE 35XII PE P		Practical – POWER ELECTRONICS		3	2		
ELE 35XIII RES		RENEWABLE ENERGY SOURCES		3	3		
ELE 35XIII RES P		Practical - RENEWABLE ENERGY SOURCES	3	2			
VI	INTERNSHIP						

*S. Salim Khan*  
HOD, Electronics  
Chairman, BOS

**APSCHE/ REVISION OF C.B.C.S - BOTANY COURSE STRUCTURE- W.E.F.2021-22**

<b>S. No.</b>	<b>Semester</b>	<b>Title of the Course (Paper)</b>	<b>COURSE CODES</b>	<b>Hours /week</b>	<b>Credits</b>
1.	SEM.-I/ Course-I	Fundamentals of Microbes and Non-vascular Plants	BOT-111-FMN	04	03
	Course-I Practical	Fundamentals of Microbes and Non-vascular Plants	BOT-111-FMN	03	02
2.	SEM.-II/ Course-2	Basics of Vascular plants and Phytogeography	BOT-122-BVP	04	03
	Course-2 Practical	Basics of Vascular plants and Phytogeography	BOT-122-BVP	03	02
3.	SEM.-III/ Course-3	Anatomy and Embryology of Angiosperms, Plant Ecology and Biodiversity	BOT-233- AEA	04	03
	Course-3 Practical	Anatomy and Embryology of Angiosperms, Plant Ecology and Biodiversity	BOT-233- AEA	03	02
4.	SEM.-IV Course-4	Plant Physiology and Metabolism	BOT-244-PPM	03	03
	Course- 4Practical	Plant Physiology and Metabolism	BOT-244-PPM	03	02
5.	SEM.- IV Course- 5	Cell Biology, Genetics and Plant Breeding	BOT-245-CGP	04	03
	Course- 5Practical	Cell Biology, Genetics and Plant Breeding	BOT-245-CGP	03	02
6.	<b>SEM -V</b> Course- 6-C	TISSUE CULTURE	BOT-356	03	03
	Course- 6-C- Practical	TISSUE CULTURE	BOT-356 -TC	03	02
	<b>SEM -V</b> Course- 7-C	MUSHROOM CULTIVATION	BOT-35-MC	03	03
	<b>Sem-V</b> Course- 6-C	MUSHROOM CULTIVATION	BOT-35-MC	03	02
	SEM -I SDC 1	<b>PLANT NURSERY</b>	BOT-I11-PN	2	2

SEM-2 SDC-2	<b>FRUIT AND VEGETABLE PRESERVATION</b>	BOT-122-FVP	2	2
SEM-2 CC	<b>MUSHROOM CULTIVATION</b>	BOT-122- CC	3	2

**ANDHRA LOYOLA COLLEGE (AUTONOMOUS), VIJAYAWADA**  
**ZOOLOGY Syllabus COURSE STRUCTURE**  
**For the Academic Year 2021-2022**

YEAR	SEM	COURSE	COURSE CODE	COURSE TITLE	Hrs /week	CR EDITS	
I	I	I	ZOO111 ADB	ANIMAL DIVERSITY- I: BIOLOGY OF NON CHORDATES (T)	4	3	
			ZOO111 ADB (P)	ANIMAL DIVERSITY- I: BIOLOGY OF NON CHORDATES (P)	2	2	
	II	II	ZOO122 ADB	ANIMAL DIVERSITY-I I: BIOLOGY OF CHORDATES (T)	4	3	
			ZOO122 ADB(P)	ANIMAL DIVERSITY-I I: BIOLOGY OF CHORDATES (P)	2	2	
II	III	III	ZOO233 CBGM	CELL BIOLOGY, GENETICS MOLECULAR BIOLOGY AND EVOLUTION(T)	4	3	
			ZOO233 CBGM(P)	CELL BIOLOGY, GENETICS MOLECULAR BIOLOGY AND EVOLUTION (P)	2	2	
	IV	IV	ZOO244 APCM	ANIMAL PHYSIOLOGY, CELLULAR METABOLISM AND EMBRYOLOGY(T)	4	3	
			ZOO244 APCM(P)	ANIMAL PHYSIOLOGY, CELLULAR METABOLISM AND EMBRYOLOGY(P)	2	2	
		V	ZOO245IAB	IMMUNOLOGY AND ANIMAL BIOTECHNOLOGY	4	3	
			ZOO245IAB (P)	IMMUNOLOGY AND ANIMAL BIOTECHNOLOGY	2	2	
	III	V	V	ZOO355 ABT	ANIMAL BIOTECHNOLOGY(T)	3	3
				ZOO355 ABT(P)	ANIMAL BIOTECHNOLOGY(P)	3	2
VI			ZOO356 ANH	ANIMAL HUSBANDRY(T)	3	3	
			ZOO356 ANH(P)	ANIMAL HUSBANDRY(P)	3	2	
VI		VII	ZOO367 IM	Elective: IMMUNOLOGY(T)	3	3	
			ZOO367 IM (P)	Elective: IMMUNOLOGY(P)	3	2	
		VIII C1	ZOO368C1 PAC	Cluster Elective: AQUACULTURE PRINCIPLES OF AQUACULTURE(T)	3	3	
			ZOO368C1 PAC(P)	Cluster Elective: AQUACULTURE PRINCIPLES OF AQUACULTURE (P)	3	2	
		VIII C2	ZOO368C2 ACM	Cluster Elective: AQUACULTURE AQUACULTURE MANAGEMENT(T)	3	3	
			ZOO368C2 ACM(P)	Cluster Elective: AQUACULTURE AQUACULTURE MANAGEMENT (P)	3	2	



**Head of the Department of Zoology**  
**Andhra Loyola College (Autonomous)**  
**VIJAYAWADA - 520 015**

	VIII C3	ZOO368C3 PHT	Cluster Elective: AQUACULTURE POSTHARVEST TECHNOLOGY(T)	3	3
		ZOO368C3 PHT(P)	Cluster Elective: AQUACULTURE POSTHARVEST TECHNOLOGY(P)	3	2
	PART-B	PRJ360 ZOO4	ZOOLOGY PROJECT		3

*P. Sankar*

Head of the Department of Zoology  
Andhra Loyola College (Autonomous)  
VIJAYAWADA - 520 004

**ANDHRA LOYOLA COLLEGE (Autonomous), VIJAYAWADA**  
**DEPARTMENT OF MICROBIOLOGY**  
**COURSE STRUCTURE FOR A.Y: 2021-22**  
**DEPARTMENT OF MICROBIOLOGY**  
**Structure of B.Sc Microbiology**

<b>2021-22</b>					
<b>DEPARTMENT; Microbiology</b>					
<b>SEM</b>	<b>CORE/ Foundation Course (FC) / Certificate Course</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>No. of Hrs/W</b>	<b>No. of Credits</b>
<b>I</b>	Core 1 - Theory	<b>MIB111MT</b>	Introductory Microbiology & microbial diversity	4	3
	Core 1 - Lab	<b>MIB111MT(P)</b>	Introductory Microbiology & microbial diversity	3	3
	SDC, If any				
	LSC, If any				
	CC, If any				
<b>II</b>	Core 2 - Theory	<b>MIB122MPB</b>	Microbial Biochemistry & physiology	4	3
	Core 2 - Lab	<b>MIB122MPB(p)</b>	Microbial Biochemistry & physiology	4	3
	SDC, If any	<b>SDC121DM</b>	Dairy Microbiology	2	2
	LSC, If any				
	CC, If any				
<b>III</b>	Core 3 - Theory	<b>MIB233MMG</b>	Microbial genetics & Molecular biology	4	3
	Core 3 - Lab	<b>MIB233MMG(P)</b>	Microbial genetics & Molecular biology	4	3
	FC If any				
	GE, If any				
	CC, If any				
<b>IV</b>	Core 4 - Theory	<b>MIB244IMB</b>	Immunology & Medical Microbiology	4	3
	Core 4 - Lab	<b>MIB244IMB(P)</b>	Immunology & Medical Microbiology		
	FC If any				
	GE, If any				
	CC, If any				
<b>V</b>	Core 5 - Theory	<b>MIB355EAM</b>	Environmental & Agricultural Microbiology	4	4

	Core 5 - Lab	MIB355EAM(P)	Environmental & Agricultural Microbiology	4	4
	Core 6 - Theory	MIB356FIM	Food and industrial Microbiology	4	4
	Core 6 - Lab	MIB356FIM(P)	Food and industrial Microbiology	4	4
VI	Core 7 - Theory	MIB367MBT	Microbial biotechnology	4	4
	Core 7 - Lab	MIB367MBT(P)	Microbial biotechnology	4	4
	Cluster A - Theory	MIB368C1MDH	Microbial diagnosis In Health clinics	4	4
	Cluster A - Lab	MIB368C1MDH(P)	Microbial diagnosis In Health clinics	4	4
	Cluster B - Theory	MIB368C2MFP	Microbial quality control In Food and Pharmaceutics	4	4
	Cluster B - Lab	MIB368C2MFP(P)	Microbial quality control In Food and Pharmaceutics	4	4
	Cluster C - Theory	MIB368C3BFB	Biofertilizers & Biopesticides	4	4
	Cluster C - Lab	MIB368C3BFB(P)	Biofertilizers & Biopesticides	4	4

Dr. kBalachandra



**ANDHRA LOYOLA COLLEGE (AUTONOMOUS): VIJAYAWADA**

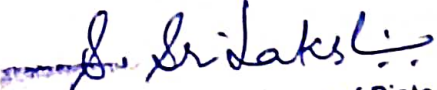
**DEPARTMENT: BIOTECHNOLOGY**

**ACADEMIC YEAR - 2021-22**

Year	Sem	Course	Title of the Course	COURSE CODE	Hrs/W	No. of Credits
1	I	1	Cell Biology & Genetics	BTY111CBG	4	3
		LAB	Cell Biology & Genetics(P)	BTY111CBG(P)	3	2
	II	2	Bioanalytical techniques and Biostatistics	BIO122MEM	4	3
		LAB	Bioanalytical techniques and Biostatistics(P)	BIO122MEM(P)	3	2
2	III	3	Bioanalytical Tools	BTY233BAT	4	3
		LAB	Bioanalytical Tools(P)	BTY233BAT(P)	3	2
	IV	4	Molecular Biology	BTY234MB	4	3
		LAB	Molecular Biology(P)	BTY234MB(P)	3	2
3	V	5	rDNA technology	BIO245RDNA	3	3
		LAB	rDNA technology(P)	BIO245RDNA(P)	3	2
		6	Molecular Biology	BTY356MB	3	3
		LAB	Molecular Biology(P)	BTY356MB(P)	3	2
	VI	7	rDNA technology	BTY367RDNA	3	3
		LAB	rDNA technology(P)	BTY367RDNA(P)	3	2
		8a	Industrial Biotechnology	BTY368C1IB	3	3
		LAB	Industrial Biotechnology(P)	BTY368C1IB(P)	3	2
		8b	Plant and Animal Biotechnology	BTY368C2PAB	3	3
		LAB	Plant and Animal Biotechnology(P)	BTY368C2PAB(P)	3	2
		8c	Computer applications, Biostatistics and bioinformatics	BTY368C3CABB	3	3
		LAB	Computer applications, Biostatistics and bioinformatics(P)	BTY368C3CABB(P)	3	2

**VALUE ADDED COURSES**

	SEM	TYPE	Title of the Course	COURSE CODE	Hrs/W	No. of Credits
SDC	I	Skill Development	Technology in Biology	SDC111CB	2	1
SDC	II	Skill Development	Genomics & Proteomics	SDC121FB	2	2

  
**Head of the Department of Biotechnology**  
**Andhra Loyola College (Autonomous)**  
**VIJAYAWADA - 520 008**

DEPARTMENT OF FOOD TECHNOLOGY

COURSE STRUCTURE AY 2021-22

Year	Sem	Course	Title of the Course	COURSE CODE	Hrs/W	No. of Credits	
1	I	Paper 1	Food Chemistry	FTE111FC	4	3	
		Lab	Food Chemistry	FTE111FC	2	2	
		Paper 2	Food Biochemistry and Nutrition	FTE112FNB	4	3	
		SDC	Fruit and Vegetable Preservation	SDC111FVP	2	2	
	II	Paper 3	Industrial Processing Equipment	FTE123IPE	4	3	
		Paper 4	Food Additives and Toxicology	FTE124FAT	4	3	
		Lab	Food Additives and Toxicology	FTE122FAT (P)	2	2	
		SDC	New Product Development	SDC121FST	2	2	
		SDC	Food Infestation Control	SDC122FIC	2	2	
	2	III	Paper 5	Post Harvest Technology of Field Crops	FTE235PHT	4	5
Paper 6			Technology of Milk and Milk Products	FTE236TMP	4	3	
Lab			Technology of Milk and Milk Products	FTE236TMP(P)	2	2	
IV		Paper 7	Technology of Oils & Fats	FTE247TOF	4	3	
		Lab	Technology of Oils & Fats	FTE247TOF (P)	2	2	
		Paper 8	Technology of Confectionery	FTE248TOC	4	3	
		Lab	Technology of Confectionery	FTE248TOC (P)	2	2	
		SDC	Nutraceuticals	SDC241NUT	2	2	
3		V	Paper 9	Technology of Meat, Fish, Poultry and their Products	FTE357TMFP	4	3
			Lab	Technology of Meat, Fish, Poultry and their Products	FTE355TMFP (P)	2	2
	Paper 10		Baking Science and Technology	FTE358BST	4	3	
	Lab		Baking Science and Technology	FTE356BST(P)	2	2	
	VI	Paper 11	Food Safety and Quality Control	FTE369SCQ	4	3	
		Lab	Food Safety and Quality Control	FTE367SCQ (P)	2	2	

Dr. K Balachandra

**Andhra Loyola College: Autonomous-Vijayawada**

**Course Structure -Anthropology-2021-2022**

<b>S.No</b>	<b>Course Code</b>	<b>Course Title</b>	<b>No of Hours</b>	<b>No of Credits</b>
<b>1</b>	ANT111MRA	Meaning Scope & Relevance of Anthropology	<b>5</b>	<b>5</b>
<b>2</b>	ANT122FA	Foundations of Anthropology	<b>5</b>	<b>5</b>



PRINCIPAL  
ANDHRA LOYOLA COLLEGE  
VIJAYAWADA-8.

**Andhra Loyola College: Autonomous-Vijayawada**

**Course Structure -Public Policy-2021-2022**

<b>S.No</b>	<b>Course Code</b>	<b>Course Title</b>	<b>No of Hours</b>	<b>No of Credits</b>
<b>1</b>	PP111IPP	Introduction to Public Policy	<b>5</b>	<b>5</b>
<b>2</b>	PP122IIC	Introduction to Indian Constitution	<b>5</b>	<b>5</b>


**PRINCIPAL**  
**ANDHRA LOYOLA COLLEGE**  
**VIJAYAWADA-8**

*A. Venkatesh Reddy*

## Programme Structure

SEM	Subject	Title	Hours	No. of credits
I	Core	General psychology-I	5	5
II	Core	General psychology-II	5	5

5.Fr. Bala Bollineni, SJ.

  
G. DV. B. RAJU

CHAIRMAN  
Rev. Fr. G. A. P. Kishore S  
Principal

## Programme Structure

SEM	Subject	Title	Hours	No. of credits
I	Core	General psychology-I	5	5
II	Core	General psychology-II	5	5

5.Fr. Bala Bollineni, SJ.



G. DV. B. RAJU

CHAIRMAN  
Rev. Fr. G. A. P. Kishore S.J.

Principal

# ANDHRA LOYOLA COLLEGE (AUTONOMOUS)

## DEPARTMENT OF COMMERCE

### B.COM PROGRAMME STRUCTURE

B.COM COURSE STRUCTURE UNDER CBCS 2021-2022								
Year	Semester	Course Code	Title of the Course	Marks	No. of Hrs/Week Theory	NO. of Credits	No. of Hrs/Week Lab	NO. of Credits
1	I	LANG	English	100	4	3	----- --	----- ----
		LANG	Language	100	4	3	----- --	----- ----
		LSC	Human Values and Professional Ethics	100	2	2	----- --	----- ----
		SDC	Office Secretaryship	100	2	2	----- --	----- ----
		CORE	Fundamentals of Accounting	100	5	4		
		CORE	Business Organization and Management	100	5	4	----- --	----- ----
		CORE	Business Environment (B. Com General)	100	5	4	-----	----- -
		CORE	Information Technology (B. Com Computer Applications)	100	5	4		
			TOTAL			27		
	II	LANG	English	100	4	3	----- --	----- ----
		LANG	Language	100	4	3	----- --	----- ----
		LSC	Entrepreneurship	100	2	2	----- --	----- ----
		SDC	Advertising	100	2	2	----- --	----- ----
		SDC	Logistics and Supply Chain Management	100	2	2	----- --	----- ----

	<b>COR E</b>	<b>Financial Accounting</b>	<b>100</b>	<b>5</b>	<b>4</b>		
	<b>COR E</b>	<b>Business Economics</b>	<b>100</b>	<b>5</b>	<b>4</b>		
	<b>COR E</b>	<b>Banking Theory &amp; Practice (B Com General)</b>	<b>100</b>	<b>5</b>	<b>4</b>		
	<b>COR E</b>	<b>E-Commerce and Web Designing (B Com CA)</b>	<b>100</b>	<b>5</b>	<b>4</b>		
		<b>Total</b>		<b>29</b>			

**B.COM COURSE STRUCTURE UNDER CBCS**

<b>Year</b>	<b>Semester</b>	<b>Course Code</b>	<b>Title of the Course</b>	<b>Marks</b>	<b>No. of Hrs/Week Theory</b>	<b>NO. of Credits</b>	<b>No. of Hrs/Week Lab</b>	<b>NO. of Credits</b>
<b>2</b>	<b>III</b>	<b>LANG</b>	English	<b>100</b>	<b>4</b>	<b>3</b>	----- -	----- ---
		<b>LANG</b>	Language	<b>100</b>	<b>4</b>	<b>3</b>	----- -	----- ---
		<b>LSC</b>	<b>Environmental Education</b>	<b>100</b>	<b>2</b>	<b>2</b>	----- -	----- ---
		<b>LSC</b>	<b>Health and Hygiene</b>	<b>100</b>	<b>2</b>	<b>2</b>	----- -	----- ---
		<b>SDC</b>	<b>Insurance Promotion</b>	<b>100</b>	<b>2</b>	<b>2</b>	----- -	----- ---
		<b>COR E</b>	Advanced Accounting	<b>100</b>	<b>5</b>	<b>4</b>		
		<b>COR E</b>	Business Statistics	<b>100</b>	<b>5</b>	<b>4</b>		
		<b>COR E</b>	Marketing (B Com General)	<b>100</b>	<b>5</b>	<b>4</b>	-----	-----
			Programing with C and C++ (B Com Computer Applications )	<b>100</b>	<b>5</b>	<b>4</b>		
			<b>TOTAL</b>		<b>29</b>			
	<b>IV</b>	<b>COR E</b>	Corporate Accounting	<b>100</b>	<b>5</b>	<b>4</b>		
			Cost and Manageme	<b>100</b>	<b>5</b>	<b>4</b>		



		nt Accounting					
	<b>COR E</b>	Income Tax	<b>100</b>	<b>5</b>	<b>4</b>		
	<b>COR E</b>	Business Law	<b>100</b>	<b>5</b>	<b>4</b>		
	<b>COR E</b>	Auditing	<b>100</b>	<b>5</b>	<b>4</b>		
	<b>COR E</b>	Goods and Service Tax (B Com General)	<b>100</b>	<b>5</b>	<b>4</b>		----- ---
	<b>COR E</b>	Data Base Managem ent System ((B Com CA)	<b>100</b>	<b>5</b>	<b>4</b>		
		<b>Total</b>		<b>30</b>		<b>08</b>	

<b>B.COM COURSE STRUCTURE UNDER CBCS</b>						
<b>Year</b>	<b>Semester</b>	<b>Course</b>	<b>Title of the Course</b>	<b>Marks</b>	<b>No. of Hrs/W</b>	<b>No. of Credits</b>
<b>3</b>	<b>V</b>	<b>CORE</b>	Cost Accounting	<b>100</b>	<b>5</b>	<b>4</b>
		<b>CORE</b>	Human Resource Management	<b>100</b>	<b>5</b>	<b>4</b>
		<b>CORE</b>	Marketing	<b>100</b>	<b>5</b>	<b>4</b>
		<b>CORE</b>	Goods and Service Tax	<b>100</b>	<b>5</b>	<b>4</b>
		<b>CORE</b>	E Commerce (B Com CA)	<b>100</b>	<b>5</b>	<b>4</b>
		<b>CORE</b>	DBMS (B Com CA)	<b>100</b>	<b>5</b>	<b>4</b>
		<b>CORE FINANCE CLUSTER</b>	Advanced Corporate Accounting (B Com General)	<b>100</b>	<b>5</b>	<b>4</b>
			Financial Markets (B Com General)	<b>100</b>	<b>5</b>	<b>4</b>
		<b>CORE MARKETIN G CLUSTER</b>	Retail Management (B Com General)	<b>100</b>	<b>5</b>	<b>4</b>
			Marketing of Services (B Com General)	<b>100</b>	<b>5</b>	<b>4</b>
			<b>TOTAL</b>			<b>30 / 40</b>

VI

<b>CORE</b>	Management Accounting	<b>100</b>	<b>5</b>	<b>4</b>
<b>CORE</b>	Auditing	<b>100</b>	<b>5</b>	<b>4</b>
<b>CORE</b>	Commercial Geography	<b>100</b>	<b>5</b>	<b>4</b>
<b>CORE</b>	Financial Management	<b>100</b>	<b>5</b>	<b>4</b>
<b>CORE</b>	Java (B Com CA)	<b>100</b>	<b>5</b>	<b>4</b>
<b>CORE</b>	PHP & My SQL (B Com CA)	<b>100</b>	<b>5</b>	<b>4</b>
<b>CORE FINANCE CLUSTER</b>	<b>Emerging Areas in Accounting</b> (B Com General)	<b>100</b>	<b>5</b>	<b>4</b>
	Stock Market Operations (B Com General)	<b>100</b>	<b>5</b>	<b>4</b>
<b>CORE MARKETING CLUSTER</b>	Global Marketing (B Com General)	<b>100</b>	<b>5</b>	<b>4</b>
	Advertising & Media Management (B Com General)	<b>100</b>	<b>5</b>	<b>4</b>
	<b>Total</b>		<b>30 /40</b>	



**Dr B Syam Sundar**  
**HOD-Commerce**  
**Andhra Loyola College**  
**Vijayawada**

## 2021-22

2021-22					
DEPARTMENT		BBA(GENERAL)			
SEM	CORE/ Foundatio n Course (FC) / Certificate Course	COURSE CODE	COURSE TITLE	No. of Hrs/ W	No. of Credit s
I	Core 1 - Theory	Language	English	4	3
		LSC111HVPE	HVPE	2	2
		SDC111PR	Public Relations	2	2
		Core:BBA111POM	Principles of Management	5	4
		Core:BBA111BO	Business Organization	5	4
		Core:BBA111FOA	Fundamentals of Accounting	5	4
		Core::BBA111BST	Business Statistics	5	4
II	Core 2 - Theory	Language	English	4	3
		SDC121AD	Advertising	2	2
		SDC122BC	Business Communication	2	2
		Core:BBA121ECS	Ethics and Corporate Social Responsibility	5	4
		Core:BBA121BENV	Business Environment	5	4
		Core:BBA121FA	Financial Accounting	5	4
		Core:BBA121ME	Managerial Economics	5	4
		LSC121CA	Life Skill Course (CA)	2	2
		ALN21CS	ALANA		
III	Core 3 - Theory	Language	English	4	3

		LSC231ENVE	Life Skill Course (ENVE) - 1	2	2
		LSC232PDL	Life Skill Course (PDL) - 2	2	2
		SDC231RET	Retailing	2	2
		Core:BBA231HR	Human Resource Management	5	4
		Core:BBA231OB	Organizational Behaviour	5	4
		Core:BBA231FM	Financial Management	5	4
		Core:BBA231FOM	Fundamentals of Marketing	5	4
		Core:BBA231BR	Business Research	6	4
IV	Core 4 - Theory	CoreBBA241TD	Training and Development	5	4
		Core:BBA241BL	Business Law	5	4
		Core:BBA241MSME M	Micro Small and Medium Enterprises Management	5	4
		Core:BBA241IB	International Business	5	4
		CoreBBA241CMA	Cost and Management Accounting	5	4
		CoreBBA241FS	Financial Services	5	4
V	Core 5 - Theory	BBA 351 IB	International Business	5	4
	Core 5 - Theory	BBA 351 BL	Business Laws	5	4
	Core 5 - Theory	BBA 351 TXT	Taxation	5	4
	Core 5 - Theory	BBA 351 LSM	Logistics and Supply Chain Management	5	4
	Core 5 - Theory	BBA 351 BM	Brand Management	5	4
	Core 5 - Theory	COM351GHRM	Elective-HR (Global Human Resource Management)	5	4

	Core 5 - Theory	COM356TD	Elective-HR (Training and Development)	5	4
	Core 5 - Theory	COM355MS	Elective-MARKETING (Marketing of Services)	5	4
	Core 5 - Theory	COM356RM	Elective-MARKETING (Retail Marketing)	5	4
VI	Core 6 - Theory	BBA362BS	Business Strategy	5	4
	Core 6 - Theory	BBA367MSE	Medium and Small Scale Enterprise Management	5	4
	Core 6 - Theory	BBA363PEM	Project Evaluation and Management	5	4
	Core 6 - Theory	BBA364WM	Warehouse Management	5	4
	Core 6 - Theory	BBA 361SDM	Sales and Distribution Management	5	4
	Core 6 - Theory	COM365TM	Elective-HR (Talent Management)	5	4
	Core 6 - Theory	COM366IR	Elective-HR (Industrial Relations)	5	4
	Core 6 - Theory	COM366AM	Elective-MARKETING (Advertising and Media Management)	5	4
	Core 6 - Theory	COM365MKT	Elective-MARKETING (Global Marketing)	5	4

  
T.JAGADISH

Head, Department of Business Administration

Chairman, Board of Studies

Department		AVIATION MANAGEMENT		I, III & V SEMESTERS : 2021-2022		
Course Structure						
Year	Semester	Category	Course Code	Course Title	Hrs/W	Credits
1	I	COURSE 1	BBA111ACS	Airline Customer Service	5	4
		COURSE 2	BBA111IAC	Introduction to Air Cargo	5	4
		COURSE 3	BBA111FAM	Fundamentals Of Aviation Management	5	4
		COURSE 4	BBA111ATI	Airlines Travel & Tourism Industry	5	4
2	III	COURSE 5	BBA231BS	Business Statistics	4	4
		Course 6 -	BBA231IOB	Organisational Behaviour	4	4
		Course 7	BBA231ARO	Airports & Ramp Operations	4	4
		COURSE 8	BBA231ATC	Air Traffic Controls	4	4
		COURSE 9	BBA231AMM	Aircraft Maintenance Management	4	4
		COURSE 10	BBA231ATS	Air Transportation Safety & Security	4	4
		SDC	BBA231CT	Culinary Tourism (CC)	2	2
		LSC	BBA231MT	MICE Tourism (SDC)	2	2
3	V	Course 11 - Theory	BBA351BL	Business Laws	5	4
		Course 12 - Theory	BBA351IR	Industrial Relations	5	4
		Course 13 - Theory	BBA351TFAE	Travel Formalities & Airport Essentials	5	4
		Course 14 - Theory	BBA351ATFO	Air Transport & Flight Operations	5	4
		Course 14- Theory	BBA351MAP	Managing Airports- An International Perspective	5	4
		Course 16 - Theory	BBA351ASO	Awareness of Aviation Security & On board Emergenc	5	4

Department		AVIATION MANAGEMENT		II/IV/VI SEMESTERS : 2021-2022		
Course Structure						
Year	Semester	Category	Course Code	Course Title	Hrs/W	Credits
1	II	COURSE 1	BBA121AOS	Airport Operations	5	4
		COURSE 2	BBA121ACM	Aircargo Management	5	4
		COURSE 3	BBA121AMM	Airlines & Airport Marketing Management	5	4
		COURSE 4	BBA121TAO	Travel Agency Operations	5	4
2	IV	COURSE 5	BBA241APH	Aviation Psychology & Human Factor	4	4
		Course 6 -	BBA241STC	Serving the Travel Customers	4	4
		Course 7	BBA241ANP	Airline Networking & Planning & Scheduling	4	4
		COURSE 8	BBA241ASM	Aviation Security Management	4	4
3	VI	INTERNSHIP		FOUR MONTH INTERNSHIP		12

*D. Kumar*

**ANDHRA LOYOLA COLLEGE (AUTONOMOUS)**

**BBA LOGISTICS**

**COURSE STRUCTURE**

**Academic Year 2021-22**

**SEMESTER I**

S.No	CODE	NAME OF THE COURSE	CREDITS	MARKS	
				CIA	SEM END
1	Eng111ACS	LANGUAGE - I ENGLISH	3	50	50
2	BBA111FL	FUNDAMENTALS OF LOGISTICS	4	50	50
3	BBA111POM	PRINCIPLES OF MANAGEMENT	4	50	50
4	BBA111BO	BUSINESS ORGANIZATION	4	50	50
5	BBA111MM	MATERIALS MANAGEMENT	4	50	50
6	BBA111WD	WAREHOUSING & DISTRIBUTION CENTRE OPERATIONS	4	50	50
		<b>TOTAL CREDITS</b>	23		

**SEMESTER II**

1	Eng121ACS	LANGUAGE - I ENGLISH	3	50	50
2	BBA121BST	BUSINES STATISTICS	4	50	50
3	BBA121FF	FRIEGHT FORWARDING	4	50	50
4	BBA121FIM	FORECASTING & INVENTORY MANAGEMENT	4	50	50
5	BBA121ST	SURFACE TRANSPORTATION	4	4	50
6	BBA121OB	ORGANISATION BEHAVIOUR	4	50	50
7	Eng121ACS	LANGUAGE - I ENGLISH	4	50	50
		<b>TOTAL CREDITS</b>	23	50	50

**ANDHRA LOYOLA COLLEGE (AUTONOMOUS)****BBA LOGISTICS****COURSE STRUCTURE****Academic Year 2021-22****SEMESTER III**

S.No	CODE	NAME OF THE COURSE	CREDITS	MARKS	
				CIA	SEM END
1	BBA231MIS	MIS FOR LOGISTICS	4	50	50
2	BBA231ILM	INTERNATIONAL LOGISTICS MANAGEMENT	4	50	50
3	BBA231MM	MARKETING MANAGEMENT	4	50	50
4	BBA231RLE	RETAIL LOGISTICS AND E COMMERCE	4	50	50
5	BBA231ENE	ENVIRONMENTAL STUDIES	4	50	50
6	BBA231LL	LINER LOGISTICS	4	50	50
		<b>TOTAL CREDITS</b>	24		
<b>SEMESTER IV</b>					
1	BBA241PTL	PORT TERMINAL LOGISTICS	4	50	50
2	BBA241CG	COMMERCIAL GEOGRAPHY	4	50	50
3	BBA241LND	LOGISTICS NETWORK DESIGN	4	50	50
4	BBA241LOG	LOGISTICS 4.0	4	50	50
5	BBA241FMO	FIRST MILE OPERATIONS	4	50	50
6	BBA241LMO	LAST MILE OPERATIONS	4	50	50
		<b>TOTAL CREDITS</b>	24		



**ANDHRA LOYOLA COLLEGE (AUTONOMOUS)**

**BBA LOGISTICE MANAGEMENT**

**COURSE STRUCTURE**

**THIRD YEAR V & VI SEMESTER- PAID APPRENTICESHIP**

**Academic Year 2021-22, SEMESTER-V**

No.	Course	Code	Type	Hours	Credit	CIA	ES E	Marks
1	Allied course - MOOC	L21A01A/2A/3A	Domain	60	2	50	50	100
2	Allied course - MOOC		Domain	60	2	50	50	100
3	Apprenticeship - I	L21C29	Domain	1008	22	250	150	400
	Total			1128	26	350	250	600

**SEMESTER VI**

No.	Course	Code	Type	Hours	Credit	CIA	ES E	Marks
1	Allied Course - MOOC	L21A02A/2B/2C	Domain	60	2	50	50	100
2	Allied Course - MOOC		Domain	60	2	50	50	100
3	Apprenticeship - II	L21C30	Domain	1008	22	250	150	400
	Total			1128	26	350	250	600

**Allied Courses - MOOC**

Sem	No	Type	Course	Code	Hours	Credit	Marks		
							CIA	Exam	Total
V	1	Domain	Warehouse Automation	L21A01A	60	2	50	50	100
V	2	Domain	Best Practices in Transportation	L21A01B	60	2	50	50	100
V	3	Domain	Inland Waterways & Coastal Shipping	L21A01C	60	2	50	50	100
VI	1	Domain	Courier, Express & Parcel Services	L21A02A	60	2	50	50	100
VI	2	Domain	In plant Logistics	L21A02B	60	2	50	50	100
VI	3	Domain	Documentation for Exports & Imports	L21A02C	60	2	50	50	100

  
 HEAD OF THE DEPARTMENT

**ANDHRA LOYOLA COLLEGE (AUTONOMOUS)****BMS E COMMERCE OPERATIONS****COURSE STRUCTURE****Academic Year 2021-22****SEMESTER I**

S.No	CODE	NAME OF THE COURSE	CREDITS	MARKS	
				CIA	SEM END
1	Eng111ACS	LANGUAGE - I ENGLISH	3	50	50
2	BMS111POM	PRINCIPLES OF MANAGEMENT	4	50	50
3	BMS111AFS	ANALYSING FINANCIAL ACCOUNTING STSTEMENTS	4	50	50
4	BMS111IM	INVENTORY MANAGEMENT	4	50	50
5	BMS111IE	INTRODUCTION TO E COMMERCE LOGISTICS	4	50	50
6	BMS111BO	BUSINESS ORGANISATION	4	50	50
		<b>TOTAL CREDITS</b>	<b>23</b>		

**SEMESTER II**

1	BMS121ME	MANAGERIAL ECONOMICS	4	50	50
2	BMS121BENV	BUSINESS ENVIRONMENT	4	50	50
3	BMS121MM	MARKETING MANAGEMENT	4	50	50
4	BMS121WM	WAREHOUSE MANAGEMENT	4	50	50
5	BMS121MH	MATERAIL HANDILING	4	4	50
6	BMS121FMO	FIRST MILE OPERATIONS	4	50	50
		<b>TOTAL CREDITS</b>	<b>24</b>	<b>50</b>	<b>50</b>

**ANDHRA LOYOLA COLLEGE (AUTONOMOUS)****BMS E COMMERCE OPERATIONS****COURSE STRUCTURE****Academic Year 2021-22****SEMESTER III**

S.No	CODE	NAME OF THE COURSE	CREDITS	MARKS	
				CIA	SEM END
1	BMS231ENVE	ENVIRONMENTAL STUDIES	3	50	50
2	BMS231MIS	MIS FOR LOGISTICS	4	50	50
3	BMS231ELO	E COMMERCE LOGISTICS OPERATIONS	4	50	50
4	BMS231TFE	TRANSPORTATION FOR E COMMERCE	4	50	50
5	BMS231RLE	REVERSE LOGISTICS FOR E COMMERCE	4	50	50
6	BMS231LMO	LAST MILE OPERATIONS	4	50	50
		<b>TOTAL CREDITS</b>	<b>23</b>		
<b>SEMESTER IV</b>					
1	BMS241CMA	MANAGEMENT ACCOUNTING	4	50	50
2	BMS241HLO	HUB & LINE OPERATIONS	4	50	50
3	BMS241ECS	E COMMERCE CUSTOMER SERVICE	4	50	50
4	BMS241OFE	OUTSOURCING IN E COMMERCE	4	50	50
5	BMS241FO	FULLFILLMENT OPERATIONS	4	50	50
6	BMS241PFE	PACAGING FOR E COMMERCE	4	50	50
		<b>TOTAL CREDITS</b>	<b>24</b>		

  
HEAD OF THE DEPARTMENT

Department	B.Sc H&HA		I, III & V SEMESTERS : 2021-22				
Course Structure							
Year	Semester	Category	Course Code	Course Title	Hrs/W	Credits	
1	I	COURSE 1		Food & Beverage service	4	4	
				Food & Beverage Service Practical	2	2	
		COURSE 2		Housekeeping	4	4	
				Housekeeping Practical	2	2	
		COURSE 3		Cookery & Kitchen	4	4	
				Food Production Practical-I	2	2	
		COURSE 4		Front Office	4	4	
				Front Office Practical-I	2	2	
2	III	COURSE 9		Beverage Service Operations	4	4	
				Food & Beverage Service Practical III	2	2	
		COURSE 10		Linen & Laundry Operations	4	4	
				Housekeeping Practical-III	2	2	
		COURSE 11		Indian Cooking & Menu planning	4	4	
				Food Production Practical-III	2	2	
		COURSE 12		Specialized Front Office	4	4	
				Front Office Practical-III	2	2	
3	V			Advance Culinary Preparation	5	4	
				Food Production Practical	4	2	
				Food & Beverage Management	5	4	
				Accommodation Management	5	4	
				Bar Management	5	4	
				Sales & Marketing Management	4	4	
				Tourism Management	4	4	

Department	B.Sc H&HA		II/IV/VI SEMESTERS : 2021-22			
Course Structure						
Year	Semester	Category	Course Code	Course Title	Hrs/W	Credits
1	II	COURSE 5		Food Service Operations	4	4
				Food & Beverage Service Practical	2	2
		COURSE 6		Housekeeping Operations	4	4
				Housekeeping Practical-II	2	2
		COURSE 7		Meat & Sauce Cookery	4	4
2	IV			Food Production Practical-II	2	2
				Room's Division	4	4
		COURSE 8		Front Office Practical-II	2	2
		SDC 01		Health & Hygiene	2	2
		SDC 02		Fruit & Vegetable preparation	2	2
				Industrial Exposure Training	900	48
Old Structure						
3	VI	INTERNSHIP		On job Specialization Training	900	48

Anir

Andhra Loyola College: Vijayawada (Autonomous)

Course Structure-Paramedical and Hospital Administration

S.No	SEM	Course Code	Course Title	No of Hours	No of Credits
1	I	PMV111BPB	Basic Principles of Biochemistry	5	5
2	I	PMV111BPH	Basic Principles of Hematology & Pathology	5	5
3	I	PMV111SPM	Social & Preventive Medicine	5	5
4	I	PMV111HAP	Human Anatomy & Physiology	5	5
5	II	PMV122BPB	Basic Principles of Biochemistry	3	3
6	II	PMV122BHP	Basic Principles of Haematology & Pathology	3	3
7	II	PMV121HAA	Hospital Awareness & Administration	3	3
8	II	PMV122HAP	Human Anatomy & Physiology	3	3
9	II	PMV122BPB (P)	Basic Principles of Biochemistry	3	2
10	II	PMV122BHP (P)	Basic Principles of Haematology & Pathology	3	2
11	II	PMV121HAA (P)	Hospital Awareness & Administration	3	2
12	II	PMV122HAP (P)	Human Anatomy & Physiology	3	2



HEAD

Dept. of Paramedical & Health Admin

Andhra Loyola Colleg

(AUTONOMOUS)

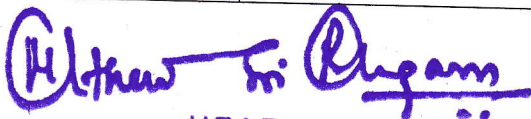
VIJAYAWADA-520008,



Andhra Loyola College: Vijayawada (Autonomous)

Course Structure-Paramedical and Hospital Administration

S.No	SEM	Course Code	Course Title	No of Hours	No of Credits
1	III	PMV231RDE	Radiology Diagnostic Equipment	5	5
2	III	PMV231IMGT	Imaging Technology	5	5
3	III	PMV231IMM	Introduction of Medical Microbiology	5	5
4	III	PMV231RPD	Radiation Physics & Physics For Diagnostic Radiology	5	5
5	IV	PMV241PA	Principles Of Anesthesia	3	3
6	IV	PMV244AT	Anesthesia Technology -II	3	3
7	IV	PMV242BAT	Basic Anesthetic Techniques	3	3
8	IV	PMV243AT	Anesthesia Technology -I	3	3
9	IV	PMV241AT (P)-1	Principles of Anesthesia & Basic Anesthetic Techniques	3	2
10	IV	PMV242AT (P)-2	Anesthesia Technology-I & II	3	2
11	IV	PMV243RPIT(P)-3	Radiation Physics & Imaging Technology	3	2
12	IV	PMV244GM (P)-4	General Microbiology	3	2
13	IV	PMV245 IT (P)-5	Imaging Technology	3	2



HEAD

Dept. of Paramedical & Health Admin  
Andhra Loyola College  
(AUTONOMOUS)  
VIJAYAWADA-520008.



**ANDHRA LOYOLA COLLEGE (AUTONOMOUS)**  
**DEPARTMENT OF AGRICULTURE AND RURAL DEVELOPMENT**  
**COURSE STRUCTURE (I, II, III AND IV SEMESTERS)**

**SEMESTER -I**

S.No.	COURSE TITLE	CODE	SEM	CREDITS	THEORY	LAB
1	English		I	4	4	0
2	Fundamentals of Agronomy	AGRO101	I	3	2	1
3	Fundamentals of Plant Biochemistry and Soil Science	BICM101	I	3	2	1
4	Fundamentals of Agriculture Economics	AECO141	I	2	2	0
5	Fundamentals of Horticulture	HORT181	I	3	2	1
6	Rural Sociology, Educational Psychology and Human Values	AEXT 191	I	2	2	0
7	HVPE	LS-1	I	2	2	0
8	Vermicompost Production	SDC-1	I	2	1	1
9	MSPA	CERTIFICATE	I	2	1	1

**MSPA: Minimum Supporting Price for Agriculture crops in Andhra Pradesh**

**SEMESTER-II**

S.No.	COURSE TITLE	CODE	SEM	CREDITS	THEORY	LAB
1	English		II	4	4	0
2	Introductory Agrometeorology and Climate Change	AGRO 103	II	3	2	1
3	Fundamentals of Genetics	GPBR 111	II	3	2	1
4	Fundamentals of Entomology-1	ENTO 131	II	3	2	1
5	Soil and Water conservation engineering	AENG 151	II	3	2	1
6	Fundamentals of Plant Pathology -I	PATH 171	II	3	2	1
7	COMPUTER	LS-2	II	2	2	0
8	Mushroom Cultivation	SDC-2	II	2	1	1

(2)

**SEMESTER-III**

S.No.	COURSE TITLE	CODE	SEM	CREDITS	THEORY	LAB
1	Crop Production Technology (Cereals, Millets and Pulses)	AGRO 201	III	3	2	1
2	Fundamentals of Plant Breeding	GPBR 211	III	3	2	1
3	Fundamentals of Entomology II (Insect Ecology and Concepts of IPM)	ENTO 231	III	2	1	1
4	Fundamentals of Plant Pathology II (Plant Pathology Principles)	PATH271	III	2	1	1
5	Farm Machinery and Power	AENG 251	III	2	1	1
6	Production Technology for Vegetables and Spices	HORT 281	III	2	1	1
7	Agricultural Finance and Co-operation	AECO 241	III	2	1	1
8	Fundamentals of Agricultural Extension	AEXT 291	III	3	2	1
9	Economics for Rural Development	AERD201	III	2	2	0
10	Eco-physiology	CPHY 261	III	2	1	1

**SEMESTER-IV**

S.No.	COURSE TITLE	CODE	SEM	CREDITS	THEORY	LAB
1	Crop Production Technology - II (Oilseeds, Fibre, Sugar, Tobacco and Fodder crops)	AGRO 202	IV	3	2	1
2	Irrigation water management, farming systems and sustainable agriculture	AGRO 203	IV	3	2	1
3	Agriculture Marketing, Trade, Prices	AECO 242	IV	3	2	1
4	Manures, Fertilizers and Soil Fertility Management	SSAC 221	IV	3	2	1
5	Production Technology for Ornamental Crops, Medicinal and Aromatic Plants and Landscaping	HORT 282	IV	2	1	1
6	Entrepreneurship Development and Business Communication	AEXT 292	IV	2	1	1
7	Renewable energy and Green Technology	AENG 252	IV	2	1	1
8	Live-stock and Poultry Management	LSPM 201	IV	3	2	1
9	Statistical Methods	SMCA 201	IV	2	1	1
10	Rural Development Planning and Management	PMRD202	IV	2	2	0



Andhra Loyola College-Vijayawada(Autonomous)  
Department of Botany-PG-Course Structure

SNo	SEM	Course Code	Course Title	Hours/Week	Credits
1	I	MAT115TY	TOPOLOGY	5	5
2	I	MAT112RA	REAL ANALYSIS	5	5
3	I	MAT113DE	ORDINARY DIFFERENTIAL EQUATIONS	5	5
4	I	MAT114GT	GRAPH THEORY	5	5
5	I	MAT111AA	ABSTRACT ALGEBRA	5	5
6	I	MAT111FC	FOUNDATION COURSE (APPLICATION OF MATHS)	2	2
7	I	MAT111QA	GENERAL ELECTIVE (Quantitative Aptitude)	2	2
8	I	MAT111GE(ESC)	General Elective (Environmental Chemistry)	2	2
9		MAT111GE(SS)	GENERAL ELECTIVES(SOFT SKILLS)	2	2

SNo	SEM	Course Code	Course Title	Hours/Week	Credits
1	II	MAT121AA	ABSTRACT ALGEBRA-II	5	5
2	II	MAT122RA	REAL ANALYSIS-II		
3	II	MAT123PD	PARTIAL DIFFERENTIAL EQUATIONS	5	5
3	II	MAT123LA	LINAER ALZEBRA	5	5
4	II	MAT124ANM	ADVANCED NUMERICAL METHODS	5	5
5	II	MAT121GE(OA)	GENERAL ELECTIVE(OFFICE AUTOMATION)	5	5
6	II	MAT121GE	GENERAL	2	2

*Madhavi*

		(EM)	ELECTIVE(ENERGY MANAGEMENT)		
7	II	MAT121GE (R)	GENERAL ELECTIVE (REASONING)	2	2
8	II	MAT121SC MAT121SC	SEMINAR COURSE		

SNo	SEM	Course Code	Course Title	Hours/Week	Credits
1	III	MAT231CA	COMMUTATIVE ALGEBRA - I	5	5
2	III	MAT232FA	FUNCTIONAL ANALYSIS - II	5	5
3	III	MAT234CAL	COMPLEX ANALYSIS - III	5	5
4	III	MAT233FS	FUZZY SETS AND APPLICATIONS - IV	5	5
5	III	MAT235LT	LATTICE THEORY - V	5	5
6	III	MAT231RO C	RESEARCH ORIENTED COURSE	5	5

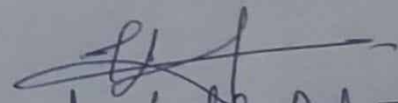
SNo	SEM	Course Code	Course Title	Hours/Week	Credits
1	IV	MAT241CA	COMMUTATIVE ALGEBRA- II	4	4
2	IV	MAT244ACT	ALGEBRAIC CODING THEORY	4	4
3	IV	MAT243MI	MEASURE AND INTEGRATION	4	4
4	IV	MAT242OT	OPERATOR THEORY	3	3
5	IV	MAT245NT	NUMBER THEORY	3	2
6	IV	MAT241ROC	RESEARCH ORIENTED COURSE	2	2

*Handwritten signature*

**DEPARTMENT OF M.Sc. – CHEMISTRY**

**PROGRAMME STRUCTURE (2021-22)**

SEM	Subject	Course	Title of the Course	Hrs/W	No. of Credits	Hrs/W	No. of Credits
		Course Code		Theory		Lab	
I	Core	CHE111GC	General Chemistry - 1	4	4		
	Core	CHE112IC	Inorganic Chemistry - 1	4	4		
	Core	CHE113OC	Organic Chemistry - 1	4	4		
	Core	CHE114PC	Physical Chemistry - 1	4	4		
	Lab	CHEP111(P)	General Chemistry 1 - Lab-1			3	2
	Lab	CHEP112 (P)	Inorganic Chemistry 1 - Lab-2			3	2
	Lab	CHEP113 (P)	Organic Chemistry 1 - Lab-3			3	2
	Lab	CHEP114 (P)	Physical Chemistry 1 - Lab-4			3	2
	FC	CHE111RM	Research Methodology	4	2		
	GE	CHE111GE	Environmental Chemistry(GE)	4	2		
			<b>TOTAL</b>		<b>24</b>	<b>20</b>	<b>12</b>
SEM	Subject	Course	Title of the Course	Hrs/W	No. of Credits	Hrs/W	No. of Credits
		Course Code		Theory		Lab	
II	Core	CHE121GC	General Chemistry - 2	4	4		
	Core	CHE122IC	Inorganic Chemistry - 2	4	4		
	Core	CHE123OC	Organic Chemistry - 2	4	4		
	Core	CHE124PC	Physical Chemistry - 3	4	4		
	Lab	CHEP121(P)	General Chemistry 2 - Lab-1			3	2
	Lab	CHEP122 (P)	Inorganic Chemistry 2 - Lab-2			3	2
	Lab	CHEP123 (P)	Organic Chemistry 2 - Lab-3			3	2
	Lab	CHEP124 (P)	Physical Chemistry 2- Lab-4			3	2
	SC	CHE121SC	Seminar Course	4	2		
	GE	CHE121GE	Environmental Studies (GE)	4	2		
			Extension Activity				2
			<b>TOTAL</b>		<b>24</b>	<b>20</b>	<b>12</b>

  
 Head of the Department  
 P. G. - Chemistry

OLD  
CBCS

III	Core 1 - Theory	CHE231OS	Organic Synthesis -1	4	4
	Core 1 - Lab	CHE231(P1)	Three step synthesis	3	2
	Core 2- Theory	CHE232OR	Oxidations .Reductions & Heterocyclic chemistry	4	4
	Core 2-Lab	CHE232(P2)	Analysis of organic binary mixture	3	2
	Core 3- Theory	CHE233MR	Molecular rearrangements,pericyclic reactions & photochemistry	4	4
	Core 3-Lab	CHE233(P3)	Estimation of organic compounds-1	3	2
	SBSE 1-Theory	CHE234OS/ CHE234IC	Organic spectroscopy/ Industrial chemistry	3	3
	SBSE 1-lab	CHE234(P4)	Spectral Charecterization of Organic Compounds/ Industrial chemistry practicals	3	2
	SBSE 2-Theory	CHE235PA/CHE235NC	Pharmaceutical Analysis/Nanochemistry-1	3	3
	SBSE 2-lab	CHE235(P5)	Pharmaceutical Analysis Practical/Nanochemistry-1	3	2
	ROC	CHE231ROC	Research Oriented Course	3	3
IV	Core 1 - Theory	CHE241OS	Organic synthesis-2	4	4
	Core 1 - Lab	CHEP241FS(P1)	Four step synthesis	3	2
	Core 2- Theory	CHE242OR	Organic reagents & Heterocyclic chemistry	4	4
	Core 2-Lab	CHE242PB(P2)	Preparations based on named reactions	3	2
	Core 3- Theory	CHE243OC	Organo metallic chemistry Natural Products & Antibiotics	4	4
	Core3-Lab	CHE243EO(P3)	Estimation of organic compounds	3	2
	SBSE 1-Theory	CHE244OS/CHE244NC	Organic spectroscopy/Nanochemistry	3	3
	SBSE 1-lab	CHE244SC(P4)/ CHE244NC(P4)	Spectral Charecterization of Organic Compounds/ Nanochemistry-2	3	2
	SBSE 2-Theory	CHE245GC/CHE245IA	Green chemistry / Instrumental method of analysis	3	3
	SBSE 2-lab	CHE245GC(P5)/ CHE245IM(P5)	Green chemistry practical / Instrumental method of analysis	3	2
	ROC	CHE241ROC	Research Oriented Course	3	3
	Project work	CHE241SP	Summer Project	-	4

*[Signature]*  
Head of the Department  
P. Gr - Chemistry

ANDHRA LOYOLA COLLEGE (AUTONOMOUS); VIJAYAWADA

DEPARTMENT: M.Sc BIOTECHNOLOGY

ACADEMIC YEAR - 2020-21

Semester 1

Course Type	Title of the Course	COURSE CODE	Hrs/W	No. of Credits
Foundation Course	Essentials for Biotechnology	BTY111FC	4	4
Core course I	Cell Biology & Genetics	BTY111CBG	4	4
Core course II	Biochemistry	BTY112BC	4	4
Core course III	Microbiology	BTY113MB	4	4
Core course IV	Bioinstrumentation	BTY114BI	4	4
Core Practical I	Cell Biology & Genetics	BTY111CBG(P)	3	2
Core Practical II	Biochemistry	BTY112BC(P)	3	2
Core Practical III	Microbiology	BTY113MB(P)	3	2
Core Practical IV	Bioinstrumentation	BTY114BI(P)	3	2
Seminar Course	Seminar Course	BTY111SC	4	2
General Elective	Applied Biotechnology	BTY111GE	4	2

Semester 2

Course Type	Title of the Course	COURSE CODE	Hrs/W	No. of Credits
Core course I	Molecular Biology	BTY121MB	4	4
Core course II	Enzymology	BTY122EM	4	4
Core course III	Biostatistics & Bioinformatics	BTY123BB	4	4
Core course IV	Food Biotechnology	BTY124FB	4	4
Core Practical I	Molecular Biology	BTY121MB(P)	3	2
Core Practical II	Enzymology	BTY122EM(P)	3	2
Core course III	Biostatistics & Bioinformatics	BTY123BB(P)	3	2
Core course IV	Food Biotechnology	BTY124FB(P)	3	2
Seminar Course	Seminar Course	BTY122SC	4	2
General Elective	Forensic Science	BTY122GE	4	2
Extension Activity	ALANA	-	-	4

*S. Sridhar*

Head of the Department of Biotechnology  
Andhra Loyola College (Autonomous)  
VIJAYAWADA - 520 008

Semester 3				
Course Type	Title of the Course	COURSE CODE	Hrs/W	No. of Credits
Core course I	Genetic Engineering	BTY231GE	4	4
Core course II	Immunology And Immunotechnology	BTY232IT	4	4
Core course III	Genomics And Proteomics	BTY233GP	4	4
Skill Based Subject Elective-1	Industrial Biotechnology	BTY234IB	4	4
Skill Based Subject Elective-2	Environmental Biotechnology	BTY235EB	4	4
Core Practical I	Genetic Engineering (P)	BTY231 (P)	3	2
Core Practical II	Immunology And Immuno Technology (P)	BTY232 (P)	3	2
Core Practical III	Genomics And Proteomics (P)	BTY233 (P)	3	2
Skill Based Subject Elective-1	Industrial Biotechnology (P)	BTY234 (P)	3	2
Skill Based Subject Elective-2	Environmental Biotechnology (P)	BTY235 (P)	3	2
RESEARCH ORIENTED COURSE	Research Oriented Course	BTY231ROC	3	3
Summer Project	-	-	-	4
Semester 4				
Course Type	Title of the Course	COURSE CODE	Hrs/W	No. of Credits
Core course I	Plant Biotechnology	BTY241PB	4	4
Core course II	Animal Biotechnology	BTY242AB	4	4
Core course III	Entrepreneurship And Management In Biotechnology	BTY243EMB	4	4
Skill Based Subject Elective-1	Marine Biotechnology	BTY244MB	3	3
Skill Based Subject Elective-2	Medical Biotechnology	BTY245MB	3	3
RESEARCH ORIENTED COURSE	Research Oriented Course	BTY241ROC	3	3
Core Practical I	Plant Biotechnology	BTY241 (P)	3	2
Core Practical II	Animal Biotechnology (P)	BTY242 (P)	3	2
Core Practical III	Entrepreneurship And Management In Biotechnology (P)	BTY243 (P)	3	2
Skill Based Subject Elective-1	Marine Biotechnology (P)	BTY244 (P)	3	2
Skill Based Subject Elective-2	Medical Biotechnology (P)	BTY245 (P)	3	2
	Final Project	BTY241 P		4

*S. Sri Lakshmi*

Head of the Department of Biotechnology  
Andhra Loyola College (Autonomous)  
VIJAYAWADA - 520 008



**ANDHRA LOYOLA COLLEGE**  
**VIJAYAWADA**  
**CHOICE BASED CREDIT SYSTEM (CBCS)**  
**MASTER OF**  
**BUSINESSADMINISTRATION**  
**(With effect from 2021-2023)**  
**MBA COURSE FRAME WORK**

COURSES	SEMESTER I	SEMESTER II	SEMESTER III	SEMESTER IV
FOUNDATION COURSE (Business Fundamentals)	45(2)( AFTER COLLEGE HOURS)			
Extension Activity		45(2)(AFTER COLLEGE HOURS)		
Core Courses				
1	4(3)	5(4)	3(3)	3(3)
2	5(4)	5(4)	5(4)	5(4)
3	5(4)	5(4)	5(4)	5(4)
4	5(4)	5(4)	5(4)	5(4)
5	4(3)	4(3)	5(4)	5(4)
6	5(4)	4(3)	5(4)	5(4)
7	4(3)	4(3)	5(4)	5(4)
8	----	----	-----	-----
Communication Skills		----	—	
General Elective	4(2)	4(2)		
Generic Elective			3(2)	3(2)
Research oriented course				
Project viva voce/ Comprehensive viva voce			0(2)	0(4)
MOOCS				0(4)
Semester wise credits	36(29)	36(29)	36(31)	36(37)
Total Credits			126	

**SCHEME OF TEACHING AND EXAMINATION  
MASTER OF BUSINESS ADMINISTRATION (MBA)  
CHOICE BASED CREDIT SYSTEM (CBCS) W.E.F 2022-2023**

**SEMESTER-I**

<b>Code</b>	<b>Courses</b>	<b>Lecture /week</b>	<b>Elective</b>	<b>Internal Marks</b>	<b>External Marks</b>	<b>No.of Credits</b>
MBA101	Managing people & Organizations	4	Core	50	50	3
MBA 102	Managerial Economics	5	Core	50	50	4
MBA 103	Quantitative Analysis For Business Decisions	5	Core	50	50	4
MBA 104	Business, Government & Society	5	Core	50	50	4
MBA 105	Managerial Communication	4	Core	50	50	3
MBA 106	Accounting for Managers	5	Core	50	50	4
MBA 107	Legal framework for business	4	core	50	50	3
MBA 108	Foundation course	2(After college hours)		50	50	2
MBA 109	General Elective I	4	-	50	50	2
MBA 110	Extension Activity	-	-	-	-	-
<b>Total for First Semester</b>		<b>36</b>	<b>-</b>	<b>450</b>	<b>450</b>	<b>29</b>



## SEMESTER-II

Code	Courses	Lecture /week	Elective	Internal Marks	External Marks	No.of Credits
MBA201	Marketing Management	5	Core	50	50	4
MBA 202	Human Resource Management	5	Core	50	50	4
MBA 203	Financial Management	5	Core	50	50	4
MBA 204	Operation Research	5	Core	50	50	4
MBA 205	Entrepreneurship : Theory and Practice	4	Core	50	50	3
MBA 206	Business Research Methods	4	Core	50	50	3
MBA 207	Project Management	4	core	50	50	3
MBA 208	General Elective-2	4		50	50	2
MBA 110/209	Extension Activity	0	-	50	50	2
<b>Total for II Semester</b>		<b>36</b>	<b>-</b>	<b>450</b>	<b>450</b>	<b>29</b>

### SEMESTER-III

Paper Code	Paper Title Generic core course	Teaching Hours/ week			Core / Elective	Internal Marks	External Marks	No. of Credits
		Lecture	Tutorial	Practical				
MBA301	Strategic Management	1	1	1	Core	50	50	3
<b>FUNCTIONAL SPECIALISATIONS</b> (Choose any 6 elective courses out of 5 Specializations having 5 courses each as shown in Table-1)								
MBA302 MKT – MBA 306 MKT	Marketing	6X5=30HOURS (18L +6T+6P)			Electives	6X50	6X50	6X4=24
MBA302 HRMOB - MBA306 HRMOB	HRM & OB							
MBA302 FIN - MBA306 FIN	Finance							
MBA302OPS- 306OPS)	Operations							
MBA302ENT- 306ENT)	Entrepreneurship							
MBA307	Project Work	-	-	-			50	2
<b>Generic Elective Courses (Choose any one out of three courses)</b>								
MBA308	Leadership	1	1	1	Elective-1	50	50	2
MBA 309	Creativity & Innovation	1	1	1	Elective-2	-	-	-
MBA310 MOOCS /NCFM/IRDA/NISM	Any online course related to MBA from the authentic sources	1	1	1	Elective-3	A PASS CERTIFICATE WITH 50% MARKS		-
<b>TOTAL FOR III SEMESTER</b>		<b>20</b>	<b>8</b>	<b>8</b>	<b>-</b>	<b>400</b>	<b>450</b>	<b>31</b>

**Note: Candidates are encouraged to opt for MBA310 (MOOCS and other certificate courses).**

### SEMESTER-IV

Paper Code	Paper Title Generic core course	Teaching Hours/ week			Core / Elective	Internal Marks	External Marks	No. of Credits
		Lecture	Tutorial	Practical				
MBA401	International Business	1	1	1	Core	50	50	3
<b>ADVANCED SPECIALISATIONS</b>								
(Choose any 6 elective courses out of 5 Specializations having 5 courses each as shown in Table-2)								
MBA402 MKT – MBA 406 MKT	Marketing	6X5=30HOURS (18L +6T+6P)			Electives	6X50	6X50	6 X 4=24
MBA402 HRMOB -MBA406 HRMOB	HRM & OB							
MBA402 FIN - MBA406 FIN	Finance							
MBA402OPS- MBA406OPS	Operations							
MBA402ENT- MBA406ENT	Entrepreneurship							
MBA408	Comprehensive Viva-voce	-	-	-			100	4
<b>GENERIC ELECTIVE COURSES (Choose any One out of Three courses)</b>								
MBA 409	Employability Skills Lab	1	1	1	Elective-1	50	50	2
MBA 410	Selling & Negotiation Skills Lab	1	1	1	Elective-2	50	50	2
MBA 411	Statistical Software Applications Lab	1	1	1	Elective-3	50	50	2
<b>*CHOOSE MOOCS FROM SWAYAM/NPTEL SOURCES</b>								
MOOCS								4
<b>TOTAL FOR IV SEMESTER</b>		<b>20</b>	<b>8</b>	<b>8</b>	-	<b>400</b>	<b>500</b>	<b>37</b>

**NOTE:-**

Students may be allowed to register and appear for MOOCS from the Second Semester itself. However students have to complete the MOOCS successfully and submit pass certificate of the same to the University through the Principal of the college concerned for approval and endorsement of the same on Grade cards and PCs and ODs as per the regulations of the University.

## ELECTIVES IN FUNCTIONAL SPECIALIZATIONS IN SEMESTER-III

<b>MARKETING</b>	<ol style="list-style-type: none"> <li>1. Consumer Behaviour &amp; Marketing Research(MBA302MKT)</li> <li>2. Product and Brand Management(MBA303MKT)</li> <li>3. Advertising management(MBA304MKT)</li> <li>4. Services Marketing(MBA305MKT)</li> <li>5. Industrial Marketing (B2B)(MBA306MKT)</li> </ol>
<b>HRM &amp; OB</b>	<ol style="list-style-type: none"> <li>1. Human Resource Planning (MBA302HRMOB)</li> <li>2. Performance &amp; Reward Management (MBA303HRMOB)</li> <li>3. Training and Development (MBA304HRMOB)</li> <li>4. Organization Development and Change (MBA305HRMOB)</li> <li>5. Industrial Relations &amp; Employment Laws (MBA306HRMOB)</li> </ol>
<b>FINANCE</b>	<ol style="list-style-type: none"> <li>1. Financial Institutions &amp; Markets (MBA302FIN)</li> <li>2. Corporate Finance (MBA303FIN)</li> <li>3. Security Analysis &amp; Portfolio Management (MBA304FIN)</li> <li>4. Investment &amp; Commercial Banking (MBA305FIN)</li> <li>5. Mergers &amp; Acquisitions (MBA306 FIN)</li> </ol>
<b>OPERATIONS</b>	<ol style="list-style-type: none"> <li>1. Manufacturing systems in Management (MBA302OPS)</li> <li>2. Services Operations Management (MBA303OPS)</li> <li>3. Logistics and Distribution Management (MBA304OPS)</li> <li>4. Supply Chain Management (MBA305OPS)</li> <li>5. Operations Research Applications (MBA306OPS)</li> </ol>
<b>ENTREPRENEURSHIP</b>	<ol style="list-style-type: none"> <li>1. Business Opportunities in Emerging Economies (MBA302ENT)</li> <li>2. Basic Management Aspects of Startups and SMEs (MBA303ENT)</li> <li>3. Startup &amp; New Venture Management (MBA304ENT)</li> <li>4. Venture Capital &amp; Private Equity (MBA305ENT)</li> <li>5. Entrepreneurial ecosystem in India (MBA306ENT)</li> </ol>

# ELECTIVES IN ADVANCED SPECIALIZATIONS IN SEMESTER-IV

<b>MARKETING</b>	<ol style="list-style-type: none"><li>1. Strategic Marketing (MBA 402MKT)</li><li>2. Sales &amp; Distribution Management (MBA 403MKT)</li><li>3. Retail Management (MBA 404MKT)</li><li>4. Rural &amp; Agri Marketing (MBA 405MKT)</li><li>5. E-Marketing (MBA 406MKT)</li></ol>
<b>HRM &amp; OB</b>	<ol style="list-style-type: none"><li>1. Human Resource Development (MBA402HRMOB)</li><li>2. Leadership(MBA403HRMOB)</li><li>3. Strategic HRM (MBA404HRMOB)</li><li>4. International HRM (MBA405HRMOB)</li><li>5. Stress Management (MBA406HRMOB)</li></ol>
<b>FINANCE</b>	<ol style="list-style-type: none"><li>1. Financial Risk Management (MBA402FIN)</li><li>2. Financial Derivatives(MBA403 FIN)</li><li>3. Global Finance (MBA404FIN)</li><li>4. Strategic Investment &amp; Financial Decision Making (MBA405FIN)</li><li>5. Strategic Cost Management (MBA406 FIN)</li></ol>
<b>OPERATIONS</b>	<ol style="list-style-type: none"><li>1. Advance Data Analysis for Management (MBA402OPS)</li><li>Strategic Sourcing (MBA403OPS)</li><li>Quality Assurance Management (MBA404OPS)</li><li>4. Lean Manufacturing (MBA405OPS)</li><li>Total Quality Management (MBA406OPS)</li></ol>
<b>ENTREPRENEURSHIP</b>	<ol style="list-style-type: none"><li>1. Family Business Management (MBA402ENT)</li><li>Social Entrepreneurship (MBA403ENT)</li><li>Corporate Entrepreneurship (MBA404ENT)</li><li>Entrepreneurial Leadership (MBA405ENT)</li><li>Global Entrepreneurial Ecosystem (MBA406ENT)</li></ol>

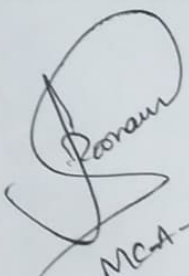
*A. Madhava*

ANDHRA LOYOLA COLLEGE

I SEMESTER

YEAR -2021-2022

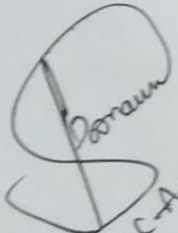
Course Code	Course Name	Teaching Hours/ week			CORE / IDC/DSE / SEC/OEC / MOOCS	Internal Marks	External Marks	No. of Credits
		Lecture	Practical	Tutorial				
22MCA101	Programming and Problem Solving using Python	4	0	0	Core	50	50	4
22MCA102	Data Structures	4	0	0	Core	50	50	4
22MCA103	Mathematical and Statistical Foundations	4	0	0	Core	50	50	4
22MCA104	Operating Systems	4	0	0	Core	50	50	4
22MCA105 <b>COMPULSORY</b>	<b>Personality Development through Life Enlightenment Skills</b>	3	1	0	Core	50	50	3
22MCA106	Data Structures Lab	0	6	0	Core	50	50	3
22MCA107	Python Lab	0	6	0	Core	50	50	3
22MCA108	Soft Skills -GE(AI Tools)	4						2
22MCA109	Foundation Course - UNIX							2
<b>TOTAL FOR FIRST SEMESTER</b>						<b>350</b>	<b>350</b>	<b>29</b>

  
 MCA-101

Year -2021-2022

**II SEMESTER**

Course Code	Course Name	Teaching Hours/ week			COR E / IDC/D SE/ SEC/ OEC/ MOO CS	Internal Marks	External Marks	No. of Credits
		Lecture	Practical	Tutorial				
22MCA201	Software Engineering and Design Patterns	4	0	0	Core	50	50	4
22MCA202	Database Management Systems	4	0	0	Core	50	50	4
22MCA203	Computer Networks	4	0	0	Core	50	50	4
22MCA204 COMPULSORY	Research Methodology & IPR	3	1	0	SEC	50	50	3
<b>DOMAIN SPECIFIC ELECTIVE COURSES (CHOOSE ANY ONE)</b>								
22MCA205E1	Design and Analysis of Algorithms	4	0	0	DSE	50	50	4
22MCA205E2	Data warehousing and Data Mining	4	0	0	DSE	50	50	4
22MCA205E3	Cloud Computing	4	0	0	DSE	50	50	4
<b>LAB PRACTICALS</b>								
22MCA206	Data Mining Lab	0	6	0	Core	50	50	3
22MCA207	Database Management Systems Lab	0	6	0	Core	50	50	3
22MCA208	Advanced-AI TOOLS(Skilled course)	4						2
<b>TOTAL FOR SECOND SEMESTER</b>						<b>210</b>	<b>490</b>	<b>27</b>

  
 Dr. Praveen  
 M.C.A. - HoD

### III SEMESTER

Course Code	Course Name	Teaching Hours/ week			CORE / IDC/DSE / SEC/OEC/MOOC/CS	Internal Marks	External Marks	No. of Credits
		u e	cti al	pr i				
22MCA301		4	0	0	Core	50	50	4
<b>DOMAIN SPECIFIC ELECTIVE COURSES (CHOOSE ANY THREE)</b>								
22MCA302E1	Principles of Programming Languages	4	0	0	DSE	50	50	4
22MCA302E2		4	0	0	DSE	50	50	4
22MCA302E3	Block Chain Technologies	4	0	0	DSE	50	50	4
22MCA302E4		4	0	0	DSE	50	50	4
22MCA302E5	Applied Data Analytics	4	0	0	DSE	50	50	4
22MCA302E6		4	0	0	DSE	50	50	4
<b>LAB PRACTICALS</b>								
22MCA303	Data Science lab	0	6	0	Core	50	50	3
22MCA304	Web Technologies Lab	0	6	0	Core	50	50	3
<b>OPEN ELECTIVE (INTERDISCIPLINARY/MULTIDISCIPLINARY) COURSES (CHOOSE ANY ONE)</b>								
22MCAOE1	R Programming	3	0	0	OEC	50	50	3
22MCAOE2		4	0	0	OEC	50	50	3
22MCAOE3	Unix Programming	3	0	0	OEC	50	50	3
22MCAOE4	Office Tools	3	0	0	OEC	50	50	3
22MCAOE5	Python Programming	3	0	0	OEC	50	50	3
<b>TOTAL FOR III SEMESTER</b>						<b>350</b>	<b>350</b>	<b>26</b>

*Signature*  
MCA-HOD



**IV SEMESTER**

Course Code	Course Name	Teaching Hours/ week			CORE / IDC/DSE / SEC/OEC/ MOOCS	Internal Marks	External Marks	No. of Credits	
		Lecture	Practical	Tutorial					
22MCA401	Big Data Analytics	4	0	0	Core	50	50	4	
<b>DOMAIN SPECIFIC ELECTIVE COURSES (CHOOSE ANY ONE)</b>									
22MCA402 E1	Dynamic Web programming	4	0	0	DSE	50	50	4	
22MCA402 E2	Fog Computing for IOT	4	0	0	DSE	50	50	4	
22MCA402 E3	Technical Report writing	4	0	0	DSE	50	50	4	
22MCA402 E4	Machine Learning	4	0	0	DSE	50	50	4	
<b>LAB PRACTICALS</b>									
22MCA403	Big Data Analytics Lab	0	6	0	Core	50	50	3	
<b>ENTREPRENEURIAL &amp; INNOVATION/IT SKILL RELATED TO DOMAIN SPECIFIC ELECTIVE COURSES</b>									
<b>(CHOOSE ANY ONE)</b>									
22MCA404E1	Social Networking	3	0	0	SEC	50	50	3	
22MCA404E2	Deep Learning	3	0	0	SEC	50	50	3	
22MCA404E3	NO SQL Databases	3	0	0	SEC	50	50	3	
<b>* CHOOSE MOOCS FROM SWAYAM/NPTEL SOURCES</b>									
MOOCS								4	
<b>PROJECT WORK EVALUATION AND VIVA-VOCE</b>								4	
<b>TOTAL FOR IV SEMESTER</b>							120	200	30

Handwritten signature and date: 06/10/2024