

### **ANDHRA LOYOLA COLLEGE**

**AUTONOMOUS:: VIJAYAWADA - 520 008** 

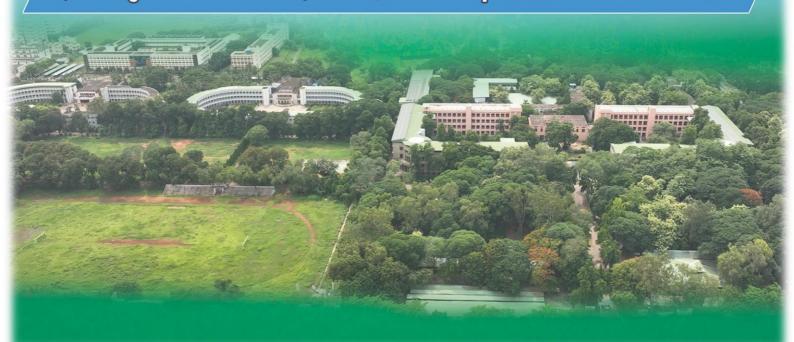
Established: 1954

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 SEMS-2020-2021]

### 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-2020-2021]

			GENERAL ENGLISH COURSES		
Year	Semester	Course	Title of the Course	No. of Hrs/W	COURSE CODES
1	I	1	ENGLISH PRAXIS COURSE-	4	ENG111ACS
			1- A COURSE IN		
			COMMUNICATION AND		
			SOFT SKILLS		
			KILL DEVELOPMENT COURS		
1	I	SDC	OFFICE SECRETARY SHIP	2	SDC111OS
			CERTIFICATE COURSE		
1	I	CC	ENGLISH ENRICHMENT	3	CC111ECD
			AND CAREER		
			DEVELOPMENT SKILLS		
2	III	3	ENGLISH FOR	4	ENG233EE
			EMPOWERMENT-III		
		4	ENGLISH LANGUAGE LAB	-	
2	III	LAB	GENERAL ENGLISH	2	ENG233(P)
			LANGUAGE LAB		
			FOUNDATION COURSES		
2	III	FC	COMMUNICATION AND	3	FOU244CSS
		P.3	SOFT SKILLS [CSS-2]		
1.8		CO	URSES: ENGLISH LITERATU	RE	1 No. 1 - 11
Year	Semester	Course	Title of the Course	No. of Hrs/W	
	I	1	HISTORY OF ENGLISH	5	ENG111HEI
1			LANGUAGE AND		
			LITERATURE		
2	III	3	BRITISH LITERATURE	5	ENG233BL
	V	5	CULTURAL DIVERSITY,	5	ENG355CD
			GENDER AND HUMAN		
3			RIGHTS		
5			CONTEMPORARY INDIAN	5	ENG356CIV
		7 6	WRITINGS AND FILM		
			STUDIES		

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#### STRUCTURE OF THE COURSES [EVEN SEMS. -2020-2021]

# 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. -2020-2021]

X7	Ta		GENERAL ENGLISH COURSE	ES	
Year	Semester	Course	Title of the Course	No. of Hrs/W	
1	II	2	ENGLISH PRAXIS COURSE II- A COURSE IN READING AND WRITING	4	ENG122CW
		S	KILL DEVELOPMENT COURS	SES	
1	п	SDC	JOURNALISTIC REPORTING	2	SDC122JR
1	II	SDC	BUSINESS COMMUNICATION	2	SDC122BC
2	IV	4	ENGLISH FOR EMPOWERMENT-III(CSS- III)	4	ENG244EE
			FOUNDATION COURSE		
2	IV	FC	COMMUNICATION AND SOFT SKILLS [CSS-2]	3	FOU244CSS2
_			<b>CERTIFICATE COURSE</b>		
I	п	CC	ENGLISH PROFICIENCY FOR COMMUNICATION SKILLS	3	CC122EPC
		CO	URSES: ENGLISH LITERATU	RE	
ear	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		ENGLISH FOR LANGUAGE & LINGUISTICS	4	ENG367EL
3	VI		ENGLISH LANGUAGE TEACHING	4	ENG368C1ELT



3	VI	8-B	SECOND LANGUAGE ACQUISITION	2	ENG368C2SLA
3	VI	8-C	AN INTRODUCTION TO SOCIOLINGUISTICS	2	ENG368C31LS

Mr. N. Ranga Babu

Head, Department of English

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

#### DEPARTMENT OF TELUGU COURSES

#### COURSE STRUCTURE 2020-2021

క్రమ.సం	సెమి	కోర్సు కోడ్	ව්රූජ	పీరియడ్లు/వారానికి	క్రెడిట్లు
Ī	Ī	TEL111PTK	ప్రాచీన తెలుగు కవిత్వం	4	3
II	ĪĪ	TEL122ATS	ఆధునిక తెలుగు సాహిత్యం	4	3
III	III	TEL233PPG	Poetry, Prose & Gen. Essay	4	3

	LSCs	SDCs/ Certificate Cou	rses	
LSC	LSC 111 HVPE	HUMAN VALUES	2	2
		PROFESSIONAL ETHICS		
SDC	SDC 121 PA	PERFORMING ARTS	2	2

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

#### HINDI LANGUAGE COURSE STRUCTURE 2020-21

	B.S	Sc. Hindi Dep	oartment COURSE S	TRUCT	URE	
Year	Semester	Course Code	Title of the Course	Marks	No.of Hrs/W	No.of Credits
1	I	HIN111PNG	Prose, Non-detailed & Applied Grammar	100	4	3
	II	HIN122PNA	Prose, Non-detailed & Applied Grammar -II	100	4	3
2	Ш	HIN233HLT	Poetry, History of Hindi Literature &Translation	100	4	3

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### ANDHRA LOYOLACOLLEGE [AUTONOMOUS]: VIJAYAWADA:8 SANSKRIT LANGUAGE

COURSE STUCTURE 2020 - 21

#### DEPARTMENT OF SANSKRIT

#### Courses offered by the Department

#### **Theory**

S.No.	Semester	Course Code	Title of the Course	No.of Hrs/W	No.of Credits
1	I	SKT111	Poetry, Prose & Grammar-1	4	3
2	II	SKT222	Poetry, Prose & Grammar-1I	4	3
3	III	SKT333	Drama, History Of Sanskrit Sanskrit Literature & Alankaras	4	3

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### ANDHRA LOYOLA COLLEGE (AUTONOMOUS) VIJAYAWADA- 520 008

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

	2020-21 ECONOMICS COURSE STRUCTURE										
SEM	CORE/ Foundation Course (FC) / Certificate Course	COURSE CODE	COURSE TITLE	No.of Hrs/W	No. of Credits						
1	Core 1 - Theory	ECO111MEA	Micro Economic Anaysis	5	4						
	SDC, If any	SDC111IP	Insurance Promotion	2	2						
II	Core 2 - Theory	ECO122MEA	Macro Economic Anaysis	5	4						
III	Core 3 - Theory	ECO233DE ECO244EDIAP ECO245SME	Development Economics	5	4						
	GE, If any	SDC232FM	Financial Markets	2	2						
IV	Core 4 - Theory	ECO244EDIAP	Economic Development in India and Andhra Pradesh	5	4						
	Core 5 - Theory	ECO245SME	Statistical Methods for Economics	5	4						
V	Core 5 - Theory	ECO355EDI	Economic Development and Indian Economy	5	4						
	Core 6 - Theory	ECO356QTS	Quantitative Techniques and Statistical Applications	5	4						
VI	Core 7 - Theory	ECO367PF	Public Finance	5	4						
	Cluster A - Theory	ECO368C1PE	A-1: Public Economics	5	4						
	Cluster B - Theory	ECO368C2IBS	A-2: Indian banking system	5	4						
	Cluster C - Theory	ECO368C3RFC	A-3:. Rural and Farm Credit	5	4						

Dr. Baby Rani Bommadevara

Head, Department of Economics

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

#### DEPARTMENT OF POLITICAL SCIENCE

#### **COURSE STRUCTURE FOR THE SEMESTERS 2020-2021**

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
Ш	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

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#### ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

(A Statutory body of the Government of Andhra Pradesh)

#### CBCS - UG SYLLABUS SUBJECT REVIEW COMMITTEE

(To Be Implemented From 2020-21 Academic Year)

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

SI. No	Code	Sem	Courses 1, II, III,	Name of Course (Each Course consists 5 Units with	Hours/ Week	Credits	Ma	irks
	e.	8	IV & V	each Unit having 12 hours of class- work)			Mid Sem	Sem End
1		1	1	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	111	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
				·	201	200	105	3.5
6		V.	N	Tourism & teospitality	5	4	25	78
7		V	Vitou	Tourism & Hospitality managener invon Guidence Soperatus had Tourin AIAPA las marent & Arolm	slan 5	4	25	73
8		VI	Cerl	had Townen (+1/1)		学	- N	
a	-	VI	popu	lar moret of Arolm	2	4	25	2
1/1						LNU	A Kr	

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Dr. MOVUA SAINIVASANDOM,

#### ANDHRA LOYOLA COLLEGE(AUTONOMOUS) VIJAYAWADA-8

#### **COURSE STRUCTURE**

**DEPARTMENT: MATHEMATICS** 

YEAR: 2020-2021

SEMESTE	COURSE	TITLE OF THE COURSE	Hrs /	Credits
R	CODE		Week	
I	MAT111DE	Differential Equations	6	5
II	MAT122ASG	Analytical Solid Geometry	6	5
III	MAT233RA	Real Analysis	6	5
IV	MAT244MA	Modern Algebra	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

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#### **BSc Physics Course Structure for 2020-21**

#### ANDHRA LOYOLA COLLEGE (AUTONOMOUS) VIJAYAWADA-8

#### **DEPARTMENT OF PHYSICS**

#### COURSE STRUCTURE FOR ODD & EVEN SEMESTERS OF 2020-21 UNDER REVISED CBCS SYSTEM FOR BSC -MPC, MPCS, MPS

				Numbe	Number of
Year	Semeste	Course	Title of the Course	r of	Credits
1 car	r	Course	The of the course	HRS /	Credits
	1		9	week	
		1	Mechanics, waves and Oscillations	4	4
	1	1	Course code -PHY111MWO	Т	7
	_		Practical course - I	2	1
I BSc		SDC	Electrical appliances	2	2
		520	Course code – SDC111EA	2	,2
		2	Wave Optics	4	4
	2	_	Course code- PHY122WO	7	7
			Practical course – II	2	1
		SDC	Solar Energy- SDC122SE	2	2
			Course code		2
	3	3	Wave Optics	3	3
			Course code - PHY233		3
			Practical Course – III	3	3
II BSc		4	Thermal Physics	3	3
OLD	4		Course code - PHY244TPH		3
Regul			Practical course – IV	3	3
ation					<u> </u>
		6	Electricity & Magnetism (old pattern)	3	3
	5		Course code PHY355		
			Practical course – IV	3	2
		7	Atomic, Molecular & Nuclear Physics	3	3
III BSc			Course code - – PHY356		
OLD			Practical course – VII	3	2
Regul		8	Analog & Digital Electronics	3	3
ation	96		Course code – PHY367ADE		-
ation			Practical course – VIII	3	2
	6	9 (1)	Introduction to Microprocessors &	3	3
	.3		Micro controllers		
	1		Course code - PHY368C1IM		
s		0 (0)	Practical course – IX (1)	3	2
		9 (2)	Material Science – IX (2)	3	3
	-		Course code - PHY368C2MS		
	·	0 (5)	Practical course – IX (2)	3	2
		9 (3)	Electronic Instrumentation	3	3
	-		Course code – PHY368C3EI		
			Practical course – IX (2)	3	2

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### DEPARTMENT OF CHEMISTRY COURSE STRUCTURE ACADEMIC YEAR (20-21)

Year	Semester	Course	Title of the Course	Course code	Hrs/	No.of Credit	
	1	1	General, Physical and Inorganic chemistry	CHEIIIIPC	4	3	
1			Practical-1: Volumetric analysis	CHEIIIVA(P)	3	2	
	11	2	Organic and General chemistry	CHE122OPC	4	3	
		2	Practical-II: Analysis of salt mixture	CHE122MA(P)	4 3	2	
			Physical and Organic chemistry	CHE233POC	4	3	
2	111	3	Practical-III: Analysis of organic compounds	CHE233AOC(P)	3	2	
2			Inorganic and Physical chemistry	CHE244IPC	4	3	
	IV	4	Practical-IV: Analytical skill	CHE244AS(P)	3	2	
					W 4 3 4 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3		
	V	5	Organic chemistry and spectroscopy of organic compounds	CHE355OSC	3	3	
		Lab	Practical-V: Physical chemistry	CHE355PI(P)	3	2	
		6	Inorganic and physical chemistry	CHE356IPC	3	3	
		Lab	Practical-VI: Instrumental methods of Analysis	CHE356IA(P)	3	2	
		7	Analytical methods of chemistry and general chemistry	CHE367AM	3	3	
3			Lab	Practical-VII: Analytical and Inorganic chemistry	CHE367AM(P)	3	2
		8 A	Organic spectroscopy & chemistry of natural products	CHE368C1OSC	3	3	
		Lab	Practical-VIII A	368C1SOP(P)	3	2	
	VI -	8 B	Mechanism and principle of organic synthesis	CHE368C2MPOS	3	3	
			Lab	Practical-VIII B	CHE368C2MPOS(P)	3	2
		8 C	Pesticide, pharmaceutical and quantum chemistry	CHE368C3PQC	3	3	
		Lab	Practical-VIII C	CHE368C3DCC(P)	3	2	

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## 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	STA111DSP	Descriptive Statistics & Theory of Probability	4	3
I		STA111DSP (P)	Descriptive Statistics & Theory of Probability Practicals	2	2
		STA122PD	Probability Distributions	4	3
	II	STA122PD (P)	Probability Distributions Practicals	2	2
		STA233SMS	Statistical Methods and Exact Sampling Distributions	3	3
II	Ш	STA233SMS (P)	Statistical Methods and Exact Sampling Distributions Practicals by Using MS-Excel	3	2
		STA244SI	Statistical Inference	3	3
	IV	STA244SI (P)	Statistical Inference Practicals by Using MS-Excel	3	2
		STA355DES	Design of Experiments & Sample Surveys	3	3
	V	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
III		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



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
		STA111SM	Statistical Methods	4	3
	I	STA111SM (P)	Statistical Methods Practicals	2	2
I		STA122BPT	Basic Probability Theory	4	3
I	II	STA122BPT (P)	Basic Probability Theory Practicals	2	2
	+=	STA233PD	Probability Distributions	3	3
ΤΤ	III	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
		STA355AS	Applied Statistics	3	3
III	V	STA355AS (P)	Applied Statistics Practicals	3 -	2

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

# B.Sc., COMPUTER SCIENCE STRUCTURE & SYLLABUS (W. E. F. 2020-2021)



DEPARTMENT OF COMPUTER SCIENCE

Semester	Paper	Subject	Hrs	Credits	IA	ES	Total
		FIRST YEAR					
Semester	I	Problem Solving using Computers & Python Programming	4	3	50	50	100
		Python Lab	3	2	50	50	100
Semester	II	Database Management Systems	4	3	50	50	100
II	11	DBMS Lab	3	2	50	50	100
		SECOND YEAR					
Semester III	III	Object Oriented Programming with Java	4	3	50	50	100
		Java Lab	3	2	50	50	100
Semester IV	IV	Digital Computer Organization and Introduction to Computer Architecture	4	3	50	50	100
		PHP Lab	3	2	50	50	100
		THIRD YEAR	T		ı	T	
	V	Principles of Operating System	4	3	50	50	100
Semester	v	Linux Lab	3	2	50	50	100
V		Software Engineering	4	3	50	50	100
·	VI	Software Engineering Design Tools	3	2	50	50	100
		Data Structures	3	3	50	50	100
	VII	VII	3	2	50	50	50
		D-4- Ctt I -1-	3	3	50	50	100
		Data Structures Lab	3	2	50	50	100
Semester VI	VIII Cluster A	A1. Big Data Technology Big Data Technology lab (Hadoop) A2. Cloud Computing Cloud Computing Lab A3. Foundations of Data Science Foundations of Data Science Lab (R programming)	3	3	50	50	100
		Project Work	3	2	50	50	100
	VIII Cluster B	B1.PHP – MySql & Word press PHP-MySql & Word press Lab B2. Internet Technologies Advanced JavaScript Lab B3. Computer Networks	3	3	50	50	100
		Computer Network Lab Project Work	3	2	50	50	100

(S. A.B. NEHRU)

	DEPA		ECTRONICS – COURSE STRUCTURE (2020 Maths, Computer Science, Electronics)	<b>– 2021)</b>	
Year	Semester	Course Code	Title of the Course	No. of Hrs/W	No. of Credits
		ELE 111	NETWORK ANALYSIS AND ANALOG ELECTRONICS	4	3
		ELE 111 P	Practical - NETWORK ANALYSIS AND ANALOG ELECTRONICS	2	2
I	I	ET ELE 111	FUNDAMENTALS OF ELECTRICAL AND ELECTRONIC COMPONENTS	4	3
	11	ET ELE 111 P	Practical - FUNDAMENTALS OF ELECTRICAL AND ELECTRONIC COMPONENTS	2	2
		ELE 122	LINEAR AND DIGITAL INTEGRATED CIRCUITS	4	3
	II	ELE 122 P	Practical - LINEAR AND DIGITAL INTEGRATED CIRCUITS	2	2
		ET ELE 122	PCB AND ELECTRONIC PRODUCT DESIGN	4	3
		ET ELE 122 P	Practical - PCB DESIGN	2	2
		ELE 233	ELECTRONIC INSTRUMENTATION	4	3
	ш	ELE 233 P	Practical - ELECTRONIC INSTRUMENTATION	2	2
		ET ELE 233	LED LIGHTING DESIGN FUNDAMENTALS AND TESTING	4	3
II		ET ELE 233 P	Practical - LUMINAIRIES LAB	2	2
		ELE 244	MICROPROCESSORS	4	3
	77.7	ELE 244 P	Practical - MICROPROCESSORS	2	2
	IV	ET ELE 244	SOLID STATE LIGHTING APPLICATION	4	3
ě:		ET ELE 244 P	Practical - SSL TESTING	2	2
		ELE 355	MICROCONTROLLER AND INTERFACING	3	3
	v	ELE 355 P	Practical - MICROCONTROLLER & INTERFACING	3	2
		ELE 356	COMMUNICATION SYSTEMS	3	3
		ELE 356 P	Practical – COMMUNICATION LAB	3	2
		ELE 367	ADVANCED MICROCONTROLLERS	3	3
Ш		ELE 367 P	Practical - INTERNET OF THINGS(IoT)	3	2
		ELE 368A1	POWER ELECTRONICS	3	3
		ELE 368A1 P	Practical - POWER ELECTRONICS	3	2
	VI	ELE 368A2	RENEWABLE ENERGY SOURCES	3	3
		ELE 368A2 P	Practical - RENEWABLE ENERGY SOURCES	3	2
		ELE 368A3	VLSI DESIGN	3	3
		ELE 368A3 P	Practical - VLSI DESIGN	3	2

A. Solain Verm HOD, Electronics Chairman, BOS

	DEPA	RTMENT OF ELI	ECTRONICS – COURSE STRUCTURE (2020 B.Sc. Electronics Technology	- 2021)	//HT _ T = _ A.
Year	Semester	Course Code	Title of the Course	No. of Hrs/W	No. of Credits
		ELE 111	NETWORK ANALYSIS AND ANALOG ELECTRONICS	4	3
		ELE 111 P	Practical - NETWORK ANALYSIS AND ANALOG ELECTRONICS	2	2
	I	ET ELE 111	FUNDAMENTALS OF ELECTRICAL AND ELECTRONIC COMPONENTS	4	3
		ET ELE 111 P	Practical - ELECTRICITY AND ELECTRONIC COMPONENTS	2	2
Y	5	ET ELE 111A	CONSUMER ELECTRONICS ENGINEERING DRAWING	4	3
Ι		ELE 122	LINEAR AND DIGITAL INTEGRATED CIRCUITS	4	3
		ELE 122 P	Practical - LINEAR AND DIGITAL INTEGRATED CIRCUITS	2	2
	11	ET ELE 122	PCB AND ELECTRONIC PRODUCT DESIGN	4	3
		ET ELE 122 P	Practical - PCB DESIGN	2	2
		ET ELE 122A	PC MAINTENANCE AND TROUBLESHOOTING		
			WORKSHOP		
		ELE 233	ELECTRONIC INSTRUMENTATION  Practical - ELECTRONIC	4	3
		ELE 233 P	INSTRUMENTATION	2	2
	III	ET ELE 233	LED LIGHTING DESIGN FUNDAMENTALS AND TESTING	4	3
П		ET ELE 233 P	Practical - LUMINAIRIES LAB	2	2
11		ET ELE 233A	BASICS OF NETWORKS	4	3
9.		ELE 244	MICROPROCESSORS	4	3
		ELE 244 P	Practical - MICROPROCESSORS	2	2
	IV	ET ELE 244	SOLID STATE LIGHTING APPLICATION	4	3
	(2)5 (1) Syri	ET ELE 244 P	Practical - SSL TESTING	2	2
		ET ELE 245	SOLAR PHOTO VOLTAIC TECHNOLOGY	4	3
		ELE 355	MICROCONTROLLER AND INTERFACING	3	3
		ELE 355 P	Practical - MICROCONTROLLER AND INTERFACING	3	3
		ELE 356	COMMUNICATION SYSTEMS	3	3
	V	ELE 356 P	Practical - COMMUNICATION SYSTEMS	3	2
III	l ja	ELE 357	POWER ELECTRONICS	3	3
	e e	ELE 357 P	Practical - POWER ELECTRONICS	3	2
		ELE 358	RENEWABLE ENERGY SOURCES	3	3
2:		ELE 358 P	Practical - RENEWABLE ENERGY SOURCES LAB	3	2
	VI	INTERNSHIP			

M. Malain New HoD, Electronics Chairman, Bos

#### Andhra Loyola College (Autonomous): Vijayawada

### B. Sc., Maths, Statistics & Computer Science (Artificial Intelligence) Structure and Syllabus (w.e.f 2020-2021)

Semester	Paper	Subject	Hrs	Credits	IA	ES	Total
		FIRST YEAR					
	1	Programming using C	4	3	50	50	100
Semester I	1	C programming Lab	3	2	50	50	100
Semester 1	2	Application Based programming in Python	4	3	50	50	100
	2	Python Lab	3	2	50	50	100
	3	Introduction to AI & ML	4	3	50	50	100
Semester II	3	Machine Leaning in Python	3	2	50	50	100
Semester II	4	Database Management Systems	4	3	50	50	100
	4	MySql Lab	3	2	50	50	100
		SECOND YEAR					
	5	ICT-2	3	3	50	50	100
		ICT Lab	3	2	50	50	100
Semester III		Applied Machine learning	4	3	50	50	100
Semester III	0	Advanced Python Lab	3	2	50	50	100
	7	Object Oriented Programming with Java	4	3	50	50	100
	/	Java Lab	3	2	50	50	100
	0	Theoretical ML	4	3	50	50	100
	8	Lab	3	2	50	50	100
	0	Statistical ML	4	3	50	50	100
Semester IV	9	Advanced R Programming Lab	3	2	50	50	100
	10	Digital Computer Organization & Introduction to Computer System Architecture	4	3	50	50	100
		PHP Lab	3	2	50	50	100

#### Andhra Loyola College (Autonomous): Vijayawada

### B. Sc., Mathematics, Statistics & Computer Science (Big Data Analytics) Structure and Syllabus (w.e.f 2020-2021)

Semester	Paper	Subject	Hrs	Credits	IA	ES	Total
		FIRST YEAR	ı				
	1	Programming using C	4	3	50	50	100
Semester	1	C programming Lab	3	2	50	50	100
I	2	Database Management Systems	4	3	50	50	100
	2	MySql lab	3	2	50	50	100
	3	Data Visualization	4	3	50	50	100
Semester		Tablue Lab	3	2	50	50	100
II	4	Big Data Analytics	4	3	50	50	100
	4	Hadoob Lab	3	2	50	50	100
		SECOND YEAR					
	5	Data Warehousing & Data Mining	4	3	50	50	100
		Mining Lab (Weka)	3	2	50	50	100
Semester		Data Storage Technologies and Networks	4	3	50	50	100
III	6	Data Storage Technologies Lab	3	2	50	50	100
	7	Object Oriented Programming with Java	4	3	50	50	100
	,	Java lab	3	2	50	50	100
	8	Hadoop & Data Analysis	4	3	50	50	100
	o	R Programing lab	3	2	50	50	100
Semester	9	Principles of Operating System	4	3	50	50	100
IV	9	Linux Lab	3	2	50	50	100
	10	Digital Computer Organization & Introduction to Computer System Architecture	4	3	50	50	100
		PHP Lab	3	2	50	50	100

#### APSCHE/ REVISION OF C.B.C.S - BOTANY COURSE STRUCTURE - W.E.F.2020-21

s. No.	Semester	Title of the Course (Paper)	COURSE CODES	Hours /wee k	Credit s
1.	SEM1/ Course-I	Fundamentals of Microbes and Non-vascular Plants	BOT-111-FMN	04	03
1.	Course-I Practical	Fundamentals of Microbes and Non-vascular Plants	BOT-111-FMN	03	02
2	SEM11/ Course-2	Basics of Vascular plants and Phytogeography	BOT-122-BVP	04	03
2.	Course-2 Practical	Basics of Vascular plants and Phytogeography	BOT-122-BVP	03	02
3.	SEMIII/ 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.	SEMIV 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
	SEM -V Course- 6-C	TISSUE CULTURE	BOT-356	03	03
6.	Course- 6-C- Practical	TISSUE CULTURE	BOT-356 -TC	03	02
	SEM -V Course- 7-C	MUSHROOM CULTIVATION	BOT-35-MC	03	03
	Sem-V Course- 6-C	MUSHROOM CULTIVATION	BOT-35-MC	03	02
	SEM -1 SDC 1	PLANT NURSERY	BOT-I11-PN	2	2

SEM-2	FRUIT AND VEGETABLE	BOT-122-FVP	2	2
SDC-2	PRESERVATION			
				_
SEM-2	MUSHROOM CULTIVATION	BOT-122- MC	3	2
CC				

# ANDHRA LOYOLA COLLEGE (Autonomous), VIJAYAWADA DEPARTMENT OF MICROBIOLOGY COURSE STRUCTURE FOR A.Y: 2020-21 DEPARTMENT OF MICROBIOLOGY

#### Structure of B.Sc Microbiology

		2	020-21	THE SECTION	
	DEPARTMENT		Microbiology		
SEN	CORE/ Foundation Course (FC) / Certificate Course	COURSE	COURSE TITLE	No.of Hrs/W	No. of Credits
	Core 1 - Theory	MIBIHIMT	Introductory Microbiology &microbial diversity	4	
	Core 1 - Lab	MIBITIMT(P)	Introductory Microbiology &microbial diversity	3	3
	FC, If any	A September 1945			
	GE If any	Name of the last			
	CC, If any	al repair			
11	Core 2 - Theory	MIB122MPB	Microbial Biochemistry & physiology	4	3
	Core 2 - Lab	MIB122MPB(p)	Microbial Biochemistry & physiology		
"	FC, If any		physiology	4	3
	GE If any				
	CC, If any				
	Core 3 - Theory	MIB233MMG	Microbial genetics & Molecular biology	4	
III	Core 3 - Lab	MIB233MMG(P)	Microbial genetics & Molecular biology		3
	FC, If any			4	3
	GE If any				
	CC, If any				
	Core 4 - Theory				
	Core 4 - Lab				
v	FC, If any	MIB244IMB	Immunology & Medical Microbiology		
	GE If any	MIB244IMB(P)	Immunology & Medical Microbiology	4	3
	CC, If any		- The state of the		
	Core 5 - Theory	MIB355EAM	Environmental & Agricultural Microbiology	4	

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-	Core 5 - Lab	MIIID55EAM(P)	Environmental & Agricultural Microbiology	4	4
-	Core 6 - Theory	MIB356FIM	Food and industrial Microbiology		4
	Core 6 - Lab	MIB356FIM(P)	Food and industrial Microbiology	4	4
2	Core - Theory			4	4
	Core 7 - Theory	MIB367MBT	Microbial biotechnology and its applications	4	4
	Core 7 - Lab	MIB367MBT(P)	Microbial biotechnology and its applications	4	4
	Cluster A - Theory	MIB368CIMDH	Microbial diagnosis In Health clinics	4	4
VI	Cluster A - Lab	MIB368CIMDR(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	МІВЗ68СЗВЕВ	Biofertilizers & Biopesticides	4	4
	Cluster C - Lab	MIB368C3BFB(P)	Biofertilizers & Biopesticides	4	4

Dr. KBalachandra

			DEPARTMENT: BIOTECHNOLOG	The second secon		ACTIVITIES AND ACTIVITIES
		ar and the	ACADEMIC YEAR - 2020-21			
ar	Sem	Course T	itle of the Course	Course Code	Hrs/W	No. of Credits
		1 N	Microbiology	BIO111MB	4	3_
.		LAB N	/licrobiology(P)	BIO111MB(P)	3	2
1		2	Macromolecules, enzymology and Metabolism	BIO122MEM	4	3
	11	LAB I	Macromolecules, enzymology and Metabolism(P)	BIO122MEM(P)	3	2
		3	Bioanalytical Tools	BTY233BAT	4	3
2	111	LAB	Bioanalytical Tools(P)	BTY233BAT(P)	3	2
		4	Immunotechnology	BTY244IMT	4	3
	IV	LAB	Immunotechnology(P)	BTY244IMT(P)	3	2
	\ v	5	Cell Biology & Genetics	BTY355CBG	3	3
		LAB	Cell Biology & Genetics(P)	BTY355CBG(P)	3	2
		6	Molecular Biology	BTY356MB	3	3
		LAB	Molecular Biology(P)	BTY356MB(P)	3	2
		7	Computer applications, Biostatistics and Bioinformatics	BTY367CABB	3	3
3		LAB	Computer applications, Biostatistics and Bioinformatics(P)	BTY367CABB(P)	3	2
		8a	Microbial Biotechnology	BTY368C1MBT	3	3
	VI	LAB	Microbial Biotechnology(P)	BTY368C1MBT(P)	3	2
		8b	Plant and Animal Biotechnology	BTY368C2PAB	3	3
		LAB	Plant and Animal Biotechnology(P)	BTY368C2PAB(P)	3	2
		8c	rDNA technology	BTY368C3RDNA	3	3
		LAB	rDNA technology(P)	BTY368C3RDNA(P)	3	2
			VALUE ADDED COURSES		A. S	
	SEM	TYPE	Title of the Course	COURSE CODE	Hrs/W	No. of Credit
SDC	<u> </u>	Skill Developme	Bioinformatics & Biostatistics	SDC111BB	2	2
СС	ı	Certificate Cour	Technology in Biology-1	CC111TB	2	1
SDC	) II	Skill Developme	Genomics & Proteomics	SDS121GP	2	2
CC	11	Certificate Cour	Technology in Biology-2	CC122TB	2	1

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

### ANDHRA LOYOA COLLEGE (AUTONOMOUS): 520008 DEPARTMENT OF FOOD TECHNOLOGY

#### COURSE STRUCTURE AY - 2020-21

Year	Sem	Course	Title of the Course	COURSE	Hrs/W	No. of Credits
		Paper 1	Food Chemistry	FTEIIIFC	4	3
		Lab	Food Chemistry and Food Nutrition	FTEIIIFCN (P)	2	2
	1	Paper 2	Food Biochemistry and Nutrition	FTE112FNB	4	3
		SDC	New Product Development	SDC111NPD	2	2
,		CC	Food Fermentation Technology	CC111FFT	2	1
		Paper 3	Food Processing and Engineering Technology	FTE123FPT	4	3
		Lab	Principles of Food Chemistry	FTE122PFC (P)	2	2
	II	Paper 4	Food Additives and Toxicology	FTE124FAT	4	3
		SDC	Food Storage Techniques	SDC121FST	2	2
		SDC	Food Infestation Control	SDC122FIC	2	2
		CC	Home Based Catering	CC121HBC	2	1
		Paper 5	Post Harvest Technology of Field Crops	FTE235PHT	4	5
	III	Paper 6	Dairy Technology	FTE236DT	4	3
and the		Lab	Dairy Technology	FTE234DT(P)	2	2
2		Paper 7	Technology of Oils & Fats	FTE247TOF	4	3
	IV	Lab	Technology of Oils & Fats	FTE247TOF (P)	2	2
	IV	Paper 8	Technology of Confectionery	FTE248TOC	4	3
		Lab	Technology of Confectionery	FTE248TOC (P)	2	2
		Paper 9	Technology of Meat, Fish, Poultry and their Products	FTE357TMFP	4	3
	v	Lab	Technology of Meat, Fish, Poultry and their Products	FTE355TMFP (P)	2	2
		Paper 10	Baking Science and Technology	FTE358BST	4	3
3		Lab	Baking Science and Technology	FTE356BST(P)	2	2
		Paper 11	Food Safety and Quality Control	FTE369SCQ	4	3
	VI	Lab	Food Safety and Quality Control	FTE367SCQ (P)	2	2
		Paper 12	Packaging Technology	FTE3610PT	4	3

Dr. kB ale Chadra

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#### ANDHRA LOYOLA COLLEGE (AUTONOMOUS), VIJAYAWADA ZOOLOGY Syllabus COURSE STRUCTURE For the Academic Year 2020-2021

***				the Academic Year 2020-2021		
YEAR	SEM	COURSE	E COURSE CODE	COURSE TITLE	Hrs	
YEAR I	I	I	Z00111 AD1	N ANIMAL DIVERSITY- I:BIOLOGY OF NON CHORDATES (T)	/wk 4	DI'
			ZOO111 ADN (P)	ANIMAL DIVERSITY- I: BIOLOGY OF NON CHORDATES (P)	2	2
	II	II	ZOO122 ADO	ANIMAL DIVERSITY-I I: BIOLOGY OF CHORDATES (T)	4	3
			ZOO122 ADC(P)	ANIMAL DIVERSITY-I I: BIOLOGY OF CHORDATES (P)	2	2
11	III	III	ZOO233 CGE	CYTOLOGY, GENETICS AND EVOLUTION(T)	4	3
			ZOO233 CGE(P)	CYTOLOGY, GENETICS AND EVOLUTION(P)	2	2
	IV	IV	ZOO244 EPE	EMBRYOLOG, PHYSIOLOGY & ECOLOGY(T)	4	3
			ZOO244 EPE(P)	EMBRYOLOGY, PHYSIOLOGY & ECOLOGY(P)	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
		II II	ZOO356 ANH(P)	ANIMAL HUSBANDRY(P)	3	2
		VII	ZOO367 IM	Elective: IMMUNOLOGY(T)		
			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
	VI		ZOO368C2 ACM	Cluster Elective: AQUACULTURE AQUACULTURE MANAGEMENT(T)	3	3
			ZOO368C2 ACM(P)	Cluster Elective: AQUACULTURE AQUACULTURE MANAGEMENT (P)	3	2
		1		Cluster Elective: AOUACLU TUDE	3	3
			ZOO368C3	Cluster Elective: AOLIA CLIP TELES	3 2	?
			PRJ360	ZOOLOGY PROJECT	3	-



Mead of the Department of Zoology
Andhra Loyola Cellege (Autonomous)
VIJAYAWADA - 520 008

# ANDHRA LOYOLA COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE B.COM PROGRAMME STRUCTURE

			020-21		
D	<b>EPARTMENT</b>		COMMERCE B.COM GEN	ERAL	
	CORE/				
SEM	Foundation Course (FC) / Certificate Course	COURSE CODE	COURSE TITLE	No.of Hrs/W	No. of Credits
	Core 1 - Theory	COM111FOA	Fundamentals of Accounting-1	4 + 2	4
	Core 1 theory	COM111BOM	Business Organisation and Management	6	4
1	core	COM111BENV	Business Environment	6	4
	core	COM111IT	Information Technology-1	4 + 2	4
	LSC, If any	LSC111HVPE	HVPE	2	2
	SDC, If any	SDC111OS	Office Secretaryship	2	2
	CC, If any	CC111TA	TALLY	2	1
	Core 2 - Theory	COM122FA	Financial Accounting-2	4+2	4
	core	COM122BE	Business Economics-2	6	4
	core	COM121BTP	Banking Theory & Practice -1	6	4
	core	COM121EWD	E-Commerce and Web Designing	4+2	4
II	Core 2 - Theory	CC121AST	Accounting Software Tally ERP 9	2	1
	SDC, If any	SDC121AD:	Advertising	2	2
	SDC, If any	SDC122LSC	Logistics and Supply Chain Management	2	2
	LSC, If any	LSC121ED	Entrepreneurship	2	2
	CC, If any				
	Core 3 - Theory	COM231CA	Corporate Accounting-1	4 + 2	4
		COM231BST	Business Statistics-1	4 + 2	4
		COM231BTP	Banking Theory & Practice-1	6	4
III	Core 3 - theory	COM231BM	Business Management	6	4
	FC If any				
	GE, If any				
	CC, If any				
	Core 4 - Theory	COM241ASo	Accounting for service organisations	4+2	4
		COM241BL	Business Law	4 + 2	4
			Income Tax law and		
IV		COM241ITP	Practice	4 + 2	4
1 V			E commerce& web		
	Core 4 - theory	COM241EWD	Designing	6	4
	FC If any	FOU242CSS	Foundation course(CSS)-II		
	GE, If any				

	CC, If any				
	Core 5 - Theory	COM111CA	Cost Accounting	6	4
			Human Resource		
		COM111HRM	Management	6	4
		COM111MKT	Marketing	6	4
V	Core 5 - Lab	COM111GST	Goods and Service Tax	6	4
	Core 6 - Theory	COM111ACA	Advanced Corporate Accounting	4 + 2	4
		COM111FM	Financial Markets	6	4
		COM111RM	Retail Management	6	4
	Core 6 - Lab	COM111FOA	Marketing of Services	6	4
	Core 7 - Theory	COM111MA	Management Accounting	4 + 2	4
	Core 7 - Lab	COM111AUD	Auditing	6	4
	core Theory	COM111CG	Commercial Geography	6	4
	Cluster A - Lab	COM111FM	Financial Management	6	4
VI	Cluster B -		Emerging Areas in		
VI	Theory	COM111EAA	Accounting	4 + 2	4
	Cluster B - Lab	COM111SMO	Stock Market Operations	6	4
	Cluster C -				4
	Theory	COM111GM	Global Marketing Advertising & Media	6	4
	Cluster C - Lab	COM111AMM	Management	6	4
	2020	0-21 B. CO	OM COMPUTER	RS	
D)	<b>EPARTMENT</b>				
	CORE/				
SEM	Foundation	COURSE	COURSE TITLE	No.of	No. of
SEM	Course (FC) /	COURSE CODE	COURSE TITLE	No.of Hrs/W	No. of Credits
SEM					
SEM	Course (FC) / Certificate Course	CODE	Fundamentals of	Hrs/W	Credits
SEM	Course (FC) /		Fundamentals of Accounting-1		
SEM	Course (FC) / Certificate Course  Core 1 - Theory	CODE COM111FOA	Fundamentals of Accounting-1 Business Organisation and	Hrs/W 4 + 2	Credits
SEM	Course (FC) / Certificate Course  Core 1 - Theory  Core 2-	CODE  COM111FOA  COM111BOM	Fundamentals of Accounting-1 Business Organisation and Management	Hrs/W	Credits 4
	Course (FC) / Certificate Course  Core 1 - Theory  Core 2- Core 3	CODE  COM111FOA  COM111BOM  COM111BENV	Fundamentals of Accounting-1 Business Organisation and Management Business Environment	Hrs/W 4+2 6 6	Credits 4 4
	Course (FC) / Certificate Course  Core 1 - Theory  Core 2- Core 3  LSC, If any	CODE  COM111FOA  COM111BOM  COM111BENV  COM111IT	Fundamentals of Accounting-1 Business Organisation and Management Business Environment Information Technology-1	Hrs/W 4+2 6	Credits  4  4  4
	Course (FC) / Certificate Course  Core 1 - Theory  Core 2- Core 3  LSC, If any  SDC, If any	CODE  COM111FOA  COM111BOM  COM111BENV  COM111IT  SDC111OS	Fundamentals of Accounting-1 Business Organisation and Management Business Environment Information Technology-1 office secretaryship	Hrs/W 4+2 6 6 4+2	Credits  4  4  4
	Course (FC) / Certificate Course  Core 1 - Theory  Core 2- Core 3  LSC, If any SDC, If any CC, If any	CODE  COM111FOA  COM111BOM COM111BENV COM111IT SDC111OS CC111TA	Fundamentals of Accounting-1 Business Organisation and Management Business Environment Information Technology-1 office secretaryship TALLY	Hrs/W 4+2 6 4+2 2	Credits  4  4  4  4  4
	Course (FC) / Certificate Course  Core 1 - Theory  Core 2- Core 3  LSC, If any SDC, If any CC, If any Core 2 - Theory	CODE  COM111FOA  COM111BOM  COM111BENV  COM111IT  SDC111OS  CC111TA  COM122FA	Fundamentals of Accounting-1 Business Organisation and Management Business Environment Information Technology-1 office secretaryship TALLY Financial Accounting-2	Hrs/W 4+2 6 6 4+2 2 2 4+2	Credits  4  4  4  4  1
1	Course (FC) / Certificate Course  Core 1 - Theory  Core 2- Core 3  LSC, If any SDC, If any CC, If any	CODE  COM111FOA  COM111BOM COM111BENV COM111IT SDC111OS CC111TA	Fundamentals of Accounting-1 Business Organisation and Management Business Environment Information Technology-1 office secretaryship TALLY Financial Accounting-2 Business Economics-2	Hrs/W  4+2  6  4+2  2  2	4 4 4 4 4 4 4 4 4
	Course (FC) / Certificate Course  Core 1 - Theory  Core 2- Core 3  LSC, If any SDC, If any CC, If any Core 2 - Theory	CODE  COM111FOA  COM111BOM  COM111BENV  COM111IT  SDC111OS  CC111TA  COM122FA	Fundamentals of Accounting-1 Business Organisation and Management Business Environment Information Technology-1 office secretaryship TALLY Financial Accounting-2	Hrs/W 4+2 6 6 4+2 2 2 4+2	4 4 4 4 4 4 4 4 4
1	Course (FC) / Certificate Course  Core 1 - Theory  Core 2- Core 3  LSC, If any SDC, If any CC, If any Core 2 - Theory core	CODE  COM111FOA  COM111BOM COM111BENV COM111IT SDC111OS CC111TA COM122FA COM122BE	Fundamentals of Accounting-1 Business Organisation and Management Business Environment Information Technology-1 office secretaryship TALLY Financial Accounting-2 Business Economics-2 Banking Theory &	Hrs/W  4 + 2  6  6  4 + 2  2  2  4+2  6	4 4 4 4 4 4 4 4 4 4 4
1	Course (FC) / Certificate Course  Core 1 - Theory  Core 2- Core 3  LSC, If any SDC, If any CC, If any Core 2 - Theory core core	CODE  COM111FOA  COM111BOM COM111BENV COM111IT SDC111OS CC111TA COM122FA COM122BE  COM121BTP	Fundamentals of Accounting-1 Business Organisation and Management Business Environment Information Technology-1 office secretaryship TALLY Financial Accounting-2 Business Economics-2 Banking Theory & Practice -1	Hrs/W  4 + 2  6  6  4 + 2  2  4+2  6  6	4 4 4 4 4 4 4 4 4
1	Course (FC) / Certificate Course  Core 1 - Theory  Core 2- Core 3  LSC, If any SDC, If any CC, If any Core 2 - Theory core core	CODE  COM111FOA  COM111BOM COM111BENV COM111IT SDC111OS CC111TA COM122FA COM122BE  COM121BTP COM121EWD	Fundamentals of Accounting-1 Business Organisation and Management Business Environment Information Technology-1 office secretaryship TALLY Financial Accounting-2 Business Economics-2 Banking Theory & Practice -1 E-Commerce and Web Designing	Hrs/W  4 + 2  6  6  4 + 2  2  4+2  6  6  4+2	4 4 4 4 4 4 4 4 4 4
1	Course (FC) / Certificate Course  Core 1 - Theory  Core 2- Core 3  LSC, If any SDC, If any CC, If any Core 2 - Theory core  core core Core 2 - Theory	CODE  COM111FOA  COM111BOM COM111BENV COM111IT SDC111OS CC111TA COM122FA COM122BE  COM121BTP COM121EWD CC121AST	Fundamentals of Accounting-1 Business Organisation and Management Business Environment Information Technology-1 office secretaryship TALLY Financial Accounting-2 Business Economics-2 Banking Theory & Practice -1 E-Commerce and Web Designing Accounting Software Tally ERP 9	Hrs/W  4 + 2  6  6  4 + 2  2  4+2  6  4+2  2  2  4+2	4 4 4 4 4 4 4 1 1 4 1 1 1 1 1 1 1 1 1 1

	CC, If any				
	CC, If any				
	Core 3 - Theory	COM231CA	Corporate Accounting-1	4 + 2	4
		COM231BST	Business Statistics-1	4+2	4
III			Banking Theory &		
111		COM231BTP	Practice-1	6	4
	Core 3 - theory	COM231BM	programming with C	4+2	4
	FC If any				
	Core 4 - Theory	COM241ASo	Accounting for service organisations	4 + 2	4
		COM241BL	Business Law	4 + 2	4
IV			Income Tax law and		
		COM241ITP	Practice	4 + 2	4
	Core 4 - theory	COM241EWD	Programming with C++	6	4
	FC If any	FOU242CSS	Foundation course(CSS)-II		
	Core 5 - Theory	COM354GST	Goods&Service Tax	6	4
	Core 5 - Lab	COM351CMA	cost Accounting	6	4
	Core 6 - Theory	COM353MS	Marketing	6	4
			Human Resource		
	Core 6 - Lab	COM352HRM	Management	6	4
V			E commerce& Web	_	
	core	COM356EW	desigining	6	4
		COM255DDM	Data Base Management	(	4
	core	COM355DBM	System	6	4
	cluster				
	cluster				
		0015055			,
	core	COM361MA	Management Accounting	6	4
	core	COM364AUD	Auditing	6	4
VI	Core 7 - Theory	COM362FM	Financial Management	6	4
	core	COM363CG	Commercial Geography	6	4
	core	COM365PHP	PHP&MY SQL	6	4
	core	COM366JA	Java	6	4
	Cluster B - Lab				
	Cluster C - Theory				
	Cluster C - Lab				

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Dr B Syam Sundar HOD-Commerce Andhra Loyola College Vijayawada

		202	20-21		
DEP	ARTMENT		BBA(GENERAL)		
SE M	CORE/ Foundatio n Course (FC) / Certificate Course	COURSE CODE	COURSE TITLE	No. of Hrs/W	No. of Credit s
	Core 1 - Theory	Language	English	4	3
	Core 1 - Theory	LSC111HVPE	HVPE	2	2
	Core 1 - Theory	SDC111PR	Public Relations	2	2
	Core 1 - Theory	Core:BBA111POM	Principles of Management Business	5	4
1	Core 1 - Theory Core 1 -	Core:BBA111BO	Organization Fundamentals of	5	4
	Theory Core 1 -	Core:BBA111FA	Accounting	5	4
	Theory Core 1 -	Core::BBA111BS	Business Statistics Information	5	4
	Theory Core 1 -	Core:BBA11IT	Technology	2	3
	Theory Core 1 -	CC111HM	Hotel Management	2	1
	Theory Core 2 -	CC112EM	Event Management	2	1
	Theory Core 2 -	Language	English	4	3
	Theory Core 2 -	LSC121ICT	HTML Programming	2	2
	Theory Core 2 -	SDC121AD	Advertising Business	2	2
	Theory Core 2 -	SDC122BC	Communication	2	2
II	Theory	Core:BBA121ECS	Ethics and Corporate Social Responsibility	5	4
	Core 2 - Theory	Core:BBA121BENV	Business Environment	5	4
	Core 2 - Theory	Core:BBA121FA	Financial Accounting	5	4
	Core 2 - Theory	Core:BBA121ME	Managerial Economics	5	4
	Core 2 - Theory	Core:BBA121ECM	E-Commerce	4	2

	I a .				
	Core 2 - Theory	CC121TM	Tourism Management	2	2
		CC1211IVI	Tourism Management	Δ	
	Core 3 -	Lamana	English	4	2
	Theory	Language	English	4	3
	Core 3 -	I GGOODEE	Environmental	2	
	Theory	LSC232EE	Education	2	2
	Core 3 -				
	Theory	SDC232AS	Analytical skills	2	2
	Core 3 -				
	Theory	SDC:232RT	Retailing	2	2
III	Core 3 -		Human Resource		
111	Theory	Core:BBA231HR	Management	5	4
	Core 3 -		Organizational		
	Theory	Core:BBA2310B	Behavior	5	4
	Core 3 -		Financial		
	Theory	Core:BBA231FM	Management	5	4
	Core 3 -		Fundamentals of		
	Theory	Core:BBA231FMR	Marketing	5	4
	Core 3 -	Corc.DD/12511 WIR	Widikethig	<u> </u>	
	Theory	Core:BBA231BR	Business Research	6	4
		Colt.DDA231DK		U	4
	Core 4 -	CDD 4 241TD	Training and	_	4
	Theory	CoreBBA241TD	Development	5	4
	Core 4 -	G PD (A)		_	
	Theory	Core:BBA241BL	Business Law	5	4
	Core 4 -		Micro Small and		
	Theory	Core:BBA241MSM	Medium Enterprises		
		Е	Management	5	4
	Core 4 -			_	
17.7	Theory	Core:BBA241IB	International Business	5	4
IV	Core 4 -		Cost and management		
	Theory	CoreBBA241CMA	accounting	5	4
	Core 4 -				
	Theory	CoreBBA241FS	Financial Services	5	4
	Core 4 -		Production		
	Theory	Core:BBA241PM	Management	5	4
			NSS/NCC/SPORT/E		
			C		2
				1	
			YOGA	1	1
	Core 5 -	nn		_	
	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
V	Core 5 -		Logistics and Supply		
	Theory	BBA 351 LSM	Chain Management	5	4
	Core 5 -	DDIT JUIT DUIVI	Chain Management	5	-
	Theory	BBA 351 BM	Brand Management	5	4
	THEOLY	DDA JUI DM	Drand Management	3	+

			Elective-HR (Global		
	Core 5 -		Human Resource		
	Theory	COM351GHRM	Management)	5	4
	Core 5 -	GO) (25 (TP)	Elective-HR (Training	_	
	Theory	COM356TD	and Development)	5	4
			Elective-MARKETIN		
	Core 5 -		G (Marketing of	_	
	Theory	COM355MS	Services)	5	4
	Core 5 -		Elective-MARKETIN		
	Theory	COM356RM	G (Retail Marketing)	5	4
	Core 6 -				
	Theory	BBA362BS	Business Strategy	5	4
			Medium and Small		
	Core 6 -		Scale Enterprise		
	Theory	BBA367MSE	Management	5	4
	Core 6 -		Project Evaluation		
	Theory	BBA363PEM	and Management	5	4
	Core 6 -		Warehouse		
	Theory	BBA364WM	Management	5	4
	Core 6 -		Sales and Distribution		
VI	Theory	BBA 361SDM	Management	5	4
		BBN 3018BW		3	'
	Core 6 -	COMPLETIM	Elective-HR (Talent	_	4
	Theory	COM365TM	Management)	5	4
	Core 6 -		Elective-HR		
	Theory	COM366IR	(Industrial Relations)	5	4
			Elective-MARKETING		
	Core 6 -		(Advertising and Media		
	Theory	COM366AM	Management)	5	4
	Core 6 -		Elective-MARKETING		
	Theory	COM365MKT	(Global Marketing)	5	4

T. JAGADISH

Head, Department of Business Administration

Chairman, Board of Studies

Department	AVIATIO	ON MANAGEMENT		I, III & V SEMESTERS : 2020-2021					
			Cor	urse Structure					
Year	Semester	Category	Course Code	Course Title	Hrs/W	Credit			
		COURSE 1	BBA111ACS	Airline Customer Service	5	4			
		COURSE 2	BBA111IAC	Introduction to Air Cargo	5	4			
1	1	COURSE 3	BBA111FAM	Fundamentals Of Aviation Management	5	4			
		COURSE 4	BBAIIIATI	Airlines Travel & Tourism Industry	5	4			
		COURSE 5	BBA231BS	Business Statistics	4	4			
		Course 6 -	BBA231OB	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			
	III	COURSE 10	BBA231ATS	Air Transportation Safety & Security	4	4			
2		SDC	BBA231CT	Culnary Tourism (CC)	2	2			
		LSC	BBA231MT	MICE Tourism (SDC)	2	2			
				WENT E					
		Course 11 - Theory	BBA351BL	Business Laws	5	4			
2		Course 12 - Theory	BBA351IR	Industrial Relations	5	4			
3	V	Course 13 - Theory	BBA351TFAE	Travel Formalities & Airport Essentials	5	4			
		Course 14 - Theory	BBA351ATFC	Air Transport & Flight Operations	5	4			
		Course 14- Theory	BBA351MAP	Managing Airports- An International Perspective	5	4			
		Course 16 - Theory	BBA351ASO	wareness of Aviation Security & On board Emergencie	5	4			

epartment	AVIATIO	ON MANAGEMENT		П/IV/VI SEMESTERS : 2020-2021		
			Cor	urse Structure		4
Year	Semester	Category	Course Code	Course Title	Hrs/W	Credit
	II	COURSE 1	BBA121AOS	Airport Operations	5	4
		COURSE 2		Aircargo Management	5	4
1		COURSE 3		Airlines & Airport Marketing Management	5	4
		COURSE 4		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
	_				_	

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### ANDHRA LOYOLA COLLEGE (AUTONOMOUS)

### BBA LOGISTICE MAMAGEMENT

### COURSE STRUCTURE

### Academic Year 2020-21

### SEMESTER I

S.No	CODE	NAME OF THE COURSE	CREDITS	MARKS		
		0001152		CIA	SEM END	
1	Eng111ACS	LANGUAGE – I	3	50	50	
		ENGLISH				
	BBA111FL	FUNDAMENTALS		50	50	
2		OF LOGISTICS	4			
		PRINCIPLES OF		50	50	
3	BBA111POM	MANAGEMENT	4			
		BUSINESS		50	50	
4	BBA111BO	ORGANIZATION	4			
		MATERIALS		50	50	
5	BBA111MM	MANAGEMENT	4			
		WAREHOUSING &		50	50	
6	BBA111WD	DISTRIBUTION	4			
		CENTRE				
		OPERATIONS				
		TOTAL CREDITS	23			
		SEMESTE	RII			
1	Eng121ACS	LANGUAGE – I ENGLISH	3	50	50	
2	BBA121BST	BUSINES	4	50	50	
		STATISTICS				
3	BBA121FF	FRIEGHT		50	50	
		FORWARDING	4			
4	BBA121FIM	FORECASTING &		50	50	
4	BBA121FIM	FORECASTING & INVENTORY	4	50	50	
4	BBA121FIM		4	50	50	
5	BBA121FIM BBA121ST	INVENTORY	4	50	50	
		INVENTORY MANAGEMENT	4	50		
		INVENTORY MANAGEMENT SURFACE				
5	BBA121ST	INVENTORY MANAGEMENT SURFACE TRANSPORTATION	4	4	50	

### ANDHRA LOYOLA COLLEGE (AUTONOMOUS) BBA LOGISTICE MAMAGEMENT

### **COURSE STRUCTURE**

### Academic Year 2020-21

### SEMESTER III

S.No	CODE	NAME OF THE COURSE	CREDITS	MARKS		
		COUNDS		CIA	SEM END	
4	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	
		TOTAL CREDITS	24			
		SEMESTE	RIV			
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	
		TOTAL CREDITS	24			

HEAD OF THE DEPARTMENT

Department	- 1	B.Sc H&HA	I, III & V SEMESTERS : 2020-21					
			Co	urse Structure				
Year	Semester	Category	Course Code	Course Title	Hrs/W	Credits		
		COURSE 1		Food & Beverage service	4	4		
	1			Food & Beverage Service Practical	2	2		
1	I	COURSE 2		Housekeeping	4	4		
				Housekeeping Practical	2	2		
		COURSE 3	F. C.	Cookery & Kitchen	4	4		
		4		Food Production Practical-I	2	2		
		COURSE 4	111	Front Office	4	4		
			1 /	Front Office Practical-I	2	2		
	1	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		
2	III	COURSE 12		Specialized Front Office	4	4		
		2		Front Office Practical-III	2	2		
			4					
	T		T	Advance Culinary Preparation	5	T 4		
				Food Production Practical	4	2		
3	V		-	Food& Beverage Management	5	4		
				Accommodation Management	5	4		
	<b> </b>			Bar Management	5	4		
				Sales & Marketing Management	4	4		
		-		Tourism Management	4	4		

Department	1	3.Sc H&HA II/IV/VI SEMESTERS : 2020-21						
			Cor	urse Structure				
Year	Semester	Category	Course Code	Course Title	Hrs/W	Credits		
		COURSE 5		Food Service Operations	4	4		
				Food & Beverage Service Practical	2	2		
1	II	COURSE 6		Housekeeping Operations	4	4		
				Housekeeping Practical-II	2	2		
		COURSE 7		Meat & Sauce Cookery	4	4		
			Ţ	Food Production Practical-II	2	2		
				Room's Division	4	4		
		COURSE 8		Front Office Practical-II	2	2		
	IV	SDC 01		Health & Hygiene	2	2		
		SDC 02		Fruit & Vegetable preparation	2	2		
2					900	48		
				Industrial Exposure Training	900	46		
				Old Structure		,		
		INTERNSHIP		On job SpecalizationTraining	900	48		
3	VI							
						-		
		<u> </u>						



### ANDHRA LOYOLA COLLEGE (AUTONOMOUS)

### **BMS E COMMERCE OPERATIONS**

### **COURSE STRUCTURE**

### Academic Year 2020-21

### SEMESTER I

S.No	CODE	NAME OF THE COURSE	CREDITS	MARKS -		
		GOORIOD		CIA	SEM END	
1	Eng111ACS	LANGUAGE – I	3	50	50	
	O O	ENGLISH				
	BMS111POM	PRINCIPLES OF		50	50	
2		MANAGEMENT	4			
		ANALYSING		50	50	
3	BMS111AFS	FINANCIAL	4			
		ACCOUNTING				
		STSTEMENTS				
		INVENTORY		50	50	
4	BMS111IM	MANAGEMENT	4			
		INTRODUCTION TO		50	50	
5	BMS111IE	E COMMERCE	4			
		LOGISTICS				
		BUSINESS		50	50	
6	BMS111BO	ORGANISATION	4			
		TOTAL CREDITS	23			
		SEMESTER	R 11			
1	BMS121ME	MANAGERIAL ECONOMICS	4	50	50	
2	BMS121BENV	BUSINESS		50	50	
2	DMSTATDEMA	ENVIRONMENT	4	30	30	
3	BMS121MM	MARKETING	7	50	50	
3	DMS121MM	MANAGEMENT	4	30	30	
4	BMS121WM	WAREHOUSE	<u> </u>		50	
7	DMS121VVM	MANAGEMENT	4	4	30	
5	BMS121MH	MATERAIL	4	50	50	
5	DMOTTIMII	HANDILING	7	30	30	
6	BMS121FMO	FIRST MILE	4	50	50	
U	DMSTTLMO	OPERATIONS		30	30	
		TOTAL CREDITS	24	50	50	
		TOTAL CREDITS	24	30	30	

HEAD OF THE DEPARTMENT

# ANDHRA LOYOLA COLLEGE (AUTONOMOUS) DEPARTMENT OF AGRICULTURE AND RURAL DEVELOPMENT COURSE STRUCTURE (1st & 2nd SEMESTERS) (2020-21)

### 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	Ι	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

1 English III 4 4 0 2 Introductory AGRO 103 II 3 2 1 Agrometeorology and Climate Change 3 Fundamentals of Genetics GPBR 111 II 3 2 1 4 Fundamentals of ENTO 131 II 3 2 1 5 Soil and Water conservation engineering AENG 151 II 3 2 1	S.No.	COURSE TITLE	CODE	SEM	CREDITS	THEORY	LAB
Agrometeorology and Climate Change  3 Fundamentals of Genetics GPBR 111 II 3 2 1 4 Fundamentals of ENTO 131 II 3 2 1 5 Soil and Water conservation engineering AENG 151 II 3 2 1	1	English		II	4		
Climate Change  3 Fundamentals of Genetics GPBR 111 II 3 2 1  4 Fundamentals of ENTO 131 II 3 2 1  5 Soil and Water conservation engineering AENG 151 II 3 2 1	2	Introductory	AGRO 103	II	3		1
Climate Change  3 Fundamentals of Genetics GPBR 111 II 3 2 1  4 Fundamentals of ENTO 131 II 3 2 1  5 Soil and Water conservation engineering AENG 151 II 3 2 1		Agrometeorology and				_	•
4 Fundamentals of ENTO 131 II 3 2 1  5 Soil and Water conservation engineering AENG 151 II 3 2 1							
Entomology-1  5 Soil and Water conservation engineering  AENG 151 II 3 2 1	3	Fundamentals of Genetics	GPBR 111	II	3	2	1
5 Soil and Water AENG 151 II 3 2 1 conservation engineering	4	Fundamentals of	ENTO 131	II	3	2	1
conservation engineering		Entomology-1				_	•
	5	Soil and Water	AENG 151	II	3	2	1
6 Fundamentals of Plant DATH 171 II 2	a l	conservation engineering				_	^
o   Tariounientais of Flant   FATFIT/T   II   5   2	6	Fundamentals of Plant	PATH 171	II	3	2	1
Pathology –I		Pathology –I					^
7 COMPUTER LS-2 II 2 2 0	7	COMPUTER	LS-2	II	2	2	0
8 Mushroom Cultivation SDC-2 II 2 1 1	8	Mushroom Cultivation	SDC-2	II	2	1	1



### 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	MV111BPH Basic Principles of Hematology & Pathology		5
3	Social & Treventive ividulence		Social & Preventve Medicine	5	5
4	I	PMV111HAP	Human Anatomy & Physiology	5	5
5	II	I PMV122BPB Basic Principles of Biochemistry		3	3
6	6 II PMV122BHP Basic Principles of Haematology & Pathology		Haematology &	3	3
7	П	PMV121HAA	Hospital Awareness & Administration	3	3
8	II	PMV122HAP	Human Anatomy & Physiology	3	3
9	II	I PMV122BPB (P) Basic Principles of Biochemistry		3	2
10	II PMV122BHP (P) Basic Principles of Haematology & Pathology		3	2	
11	11 II PMV121HAA		Hospital Awareness & Administration	3	2
12	П	PMV122HAP (P)	Human Anatomy & Physiology	3	2

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Dept.of Paramedical & Health Admin Andhra Loyola Colleg (AUTONOMOUS) VIJAYAWADA-520008 T. Sand

### 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		Tadiology Biagnostic	PMV231RDE Radiology Diagnostic Equipment		5	5
2	III	PMV231IMGT	Imaging Technology	5	5			
3	Ш	PMV231IMM	Introduction of Medical Microbiology	5	5			
4	III PMV231RPD Radiation Physics & Physics For Diagnostic Radiology		For			5	5	
5	IV	PMV241PA	Principles Of Anesthesia	3	3			
6	IV	PMV244AT	Anesthesia Technology -II	3	3			
7	IV	PMV242BAT	Basic Anethestc Techniques	3	3			
8	IV	PMV243AT	Anesthesia Technology -I	3	3			
9	IV	PMV241AT (P)-1	Principles of Anesthesia & Basic Anethesic Techniques	3	2			
10	IV	PMV242AT (P)-2	Anesthesia Technology-I & II y	3	2			
11	IV PMV243RPIT(P)-3 Radiaton Physics & Imaging Technology  IV PMV244GM (P)-4 General Microbiology		3	2				
12			General Microbiology	3	2			
13	IV	PMV245 IT (P)-5	Imaging Technology	3	2			

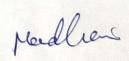
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HEAD
Dept.of Paramedical & Health Admin
Andhra Loyola Colles
(AUTONOMOUS)
VIJAYAWADA-520008

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

SNo	SE M	Course Code	Course Title	Hours/Week	Credits
1	I	MAT112RA	REAL ANALYSIS	4	4
2	D		ORDINARY DIFFERENTIAL EQUATIONS	4	4
3	I	MAT113CP	C-PROGRAMMING	4	4
4	I	MAT111AL	ALGEBRA	4	4
5	I	MAT111PR (P)	PRACTICAL	6	4
6	I	MAT112CP (P)	C-PROGRAMMING LAB	6	4
7	I	MAT111FC	FOUNDATION COURSE (APPLICATION OF MATHS)	2	2
8	I	MAT111QA	GENERAL ELECTIVE (Quantitative Aptitude)	2	2
SNo	SEM	Course Code	Course Title	Hours/Week	Credits
1	II	MAT121CA	COMPLEX ANALYSIS	4	4
2	II	MAT122NM	NUMERICAL METHODS	4	4
3	П	MAT123PD	PARTIAL DIFFERENTIAL EQUATIONS	4	4
4	II	MAT124LT	LATTICE THEORY	4	4
5	II	MAT125GT	GRAPH THEORY	4	4
6		MAT126RA	REAL ANALYSIS - II	4	4
7		MAT121NM (P)	NUMERICAL METHODS LAB	3	2
	Rs 100 15	MAT121SC	SEMINAR COURSE	2	2
8		WIATIZISC		A CARL THE REAL PROPERTY OF THE PARTY OF THE	



SNo	SEM	Course Code	Course Title	Hours/Week	Credits
1	III	MAT231CA	COMMUTATIVE ALGEBRA - I	5	5
2	III	MAT232FA	FUNCTIONAL ANALYSIS -	5	5
3	III	MAT233FS	FUZZY SETS AND APPLICATIONS	4	3
4	III	MAT234CAL	COMPLEX ANALYSIS	5	5
5	III	MAT235LT	LATTICE THEORY	4	3
6	Ш	MAT231RO C	RESEARCH ORIENTED COURSE	5	4
SNo	SEM	Course Code	Course Title	Hours/Week	Credits
1	IV	MAT241CA	COMMUTATIVE ALGEBRA- II	5	4
2	IV	MAT242OT	OPERATOR THEORY	5	4
3	IV	MAT243MI	MEASURE AND INTEGRATION	5	4
4	IV	MAT244NT	ALGEBRAIC NUMBER THEORY	5	4
5	IV	MAT244ACT	ALGEBRAIC CODING THEORY	5	4
6	IV	MAT241ROC	RESEARCH ORIENTED COURSE	3	3



## ANDHRA LOYOLA COLLEGE (Autonomous):: VIJAYAWADA-8 DEPARTMENT OF PHYSICS

M.Sc. PROGRAMME STRUCTURE (UNDER CBCS) (2020-21)

	SE	MI	SE	MII	SEI	VI III	SE	M IV
Subjects	Hrs/W	Credits	Hrs/W	Credits	Hrs/W	Credits	Hrs/W	Credits
Foundation courses						24F-6		
Subject related FC	4	2				27 No. 27		
Core Papers					4+3	4+2	4+3	4+2
Core 1	4+3	4+2	4+3	4+2	4+3	4+2	4+3	4+2
Core 2	4+3	4+2	4+3	4+2	4+3	4+2 4+2	4+3	4+2
Core 3	4+3	4+2	4+3	4+2	4+3	412	717	π,2
Core 4	4+3	4+2	4+3	4+2				
Skill Based Subject Elective 1					3+3	3+2	3+3	3+2
Skill Based Subject Elective 2					3+3	3+2	3+3	3+2
Seminar Course			4	2				
General Electives (Interdisciplinary)	4	2	4	2				conducer for what yet fact for the set of th
Reasearch Oriented Course					3	3	3	3
Project Work/Insdustry Internship	To be	done durin	g summer	vacation b	etween II	and III Ser	mesters	5
Hrs/W(Academic Credits)	36	28	36	28	36	31	36	36
Extension Activities (Non Academic Credits) ALANA				2				
OVERALL CREDITS				1	25			7



## ANDHRA LOYOLA COLLEGE (Autonomous):: VIJAYAWADA-8 DEPARTMENT OF PHYSICS

M.Sc. PROGRAMME STRUCTURE (UNDER CBCS) (2020-21)

Name of the Program			SCIENCES (NON-PE	(OFESSIONAL)
Courses	Semester 1	S		
Foundation courses	Semester 1	Semester 2	Semester 3	Semester 4
1. Subject	Concepts for		B. P. Carlotte	
related FC	Physicists			
2. Extension				THE THE PARTY OF T
activity				
Core Courses				
1.	Mathematical	Statistical	Atomic Physics	Molecular Physics
	Methods for	Mechanics		Wioleccular Filysics
	Physicists			
<b>2.</b>	Classical	Advanced	Nuclear &	Nuclear &
	Mechanics	Quantum	Particle Physics-I	Particle Physics-II
		Mechanics		11/0100 11
3.	Quantum	Solid State	Properties of Solids	Advances in
	Mechanics	Physics		materials Science
4.	Electronics	EM Theory		
		Lasers and		
DHIT I SAME TO THE SAME OF THE	The second of the control of the second of t	Optics		
kill based subject lective-I			Glass Science and	Analytical
rective=1			Technology/Thin	Techniques/Solar
			film technology	energy&
kill based subject				Photovoltaic Aspect
lective-II			Dielectrics,	C-Programming and
			Ferroelectrics& High	Computational
			Temperature Super Conductors/	Methods/ Renewable
			Radiation Physics	Energy
			Radiation Physics	
eminar Course		Seminar		The same of the sa
eneral Electives	Physics of	Radiation		
nterdisciplinary	everyday life/	Hazards,		
ourses)	Medical Imaging	Evaluation and		
	Techniques	Control/		
		Energy		
	TO THE PARTY OF TH	Management		
esearch oriented			Material Science	Material Science
ourses				- Autorial Science
roject				
ork/Industry				
nmersion module				
nal Credits	36+28	36+28	36+31	36+31+5+2



## ANDHRA LOYOLA COLLEGE (Autonomous):: VIJAYAWADA-8 DEPARTMENT OF PHYSICS M.Sc. PROGRAMME STRUCTURE (UNDER CBCS) SEMESTER I (2020-21)

S.No.	Course	Title	Hours /week	No of Credits	CIA	SE	Total
1	Foundation Course	Concepts for Physicists	4	2	50	50	100
2	Core Course	Mathematical Methods for Physicists	4	4	50	50	100
3	Core Course	Classical Mechanics	4	4	50	50	100
4	Core Course	Quantum Mechanics	4	4	50	50	100
5	Core Course	Electronics	4	4	50	50	100
6	General Elective	Physics of Everyday life / Medical Imaging Techniques	4	2	50	50	100
7	Practical course 1	General Physics-I	3	2	50	50	100
8	Practical course 2	General Physics-II	3	2	50	50	100
9	Practical course 3	General Electronics	3 1 1 1 1 1 1 1 1 1 1 1	2	50	50	100
10	Practical course 4	Digital Electronics	3	2	50	50	100
			36	28	550	450	1000

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## ANDHRA LOYOLA COLLEGE (Autonomous) :: VIJAYAWADA-8 DEPARTMENT OF PHYSICS M.Sc. PROGRAMME STRUCTURE (UNDER CBCS)

SEMESTER H (2020-21)

S. No.	Course	Title	Hours/w eek	No of Credits	CI A	SE	Total
i	Core Course	Statistical Mechanics	4	4	50	50	100
2	Core Course	Advanced Quantum Mechanics	4	4	50	50	100
3	Core Course	Solid state Physics	4	4	50	50	100
4	Core Course	EM Theory, Lasers & Optics	4	4	50	50	100
5	Seminar Course	Student Activity	4	2	50	50	100
6	General Elective	Energy Management/Radiati on HazardsEvaluation & Control	4	2	50	50	100
7	Practical course 1	Advanced Physics & Optics - I	3	2	50	50	100
8	Practical course 2	Advanced Physics & Optics-II	3	2	50	50	100
9	Practical course 3	Operational Amplifiers-I	3	2	50	50	100
10	Practical course 4	Operational Amplifiers-II	3	2	50	50	100
11	Extension Activity	Lab to School/School to Lab	45(Off campus)	2			
			36	30	50	500	1000



# ANDHRA LOYOLA COLLEGE (Autonomous):: VIJAYAWADA-8 DEPARTMENT OF PHYSICS M.Sc. PROGRAMME STRUCTURE (UNDER CBCS) SEMESTER III (2020-21)

S.No	and the state of t	Title	Hours /week	No of Credits	CIA	SE	Total
1	Core Course	Atomic Physics	4	4	50	50	100
2	Core Course	Nuclear & Particle Physics - I	4	4	50	50	100
3	Core Course	Properties of Solids	4	4	50	50	100
4	Skill Based Electives	Glass Science & Technology/Thin film technology	3	3	50	50	100
5	Skill Based Electives	Dielectrics, Ferroelectrics & High Temperature Super Conductors/ Radiation Physics	3	3	50	50	100
5	Practical course 1	Material Science -I	3	2	50	50	100
	Practical course 2	Material Science -II	3	2	50	50	100
	Practical course 3	Preparation and Characterisation of Binary glass	3	2	50	50	100
	Practical course 4	Micro Processor - I	3	2	50	50	100
0	Practical course 5	Micro Processor -II	3	2	50	50	100
	Research Oriented Course	Material Science	3	3	50	50	100
			36	31	550	550	1100



# ANDHRA LOYOLA COLLEGE (Autonomous):: VIJAYAWADA-8 DEPARTMENT OF PHYSICS M.Sc. PROGRAMME STRUCTURE (UNDER CBCS) SEMESTER IV (2020 -21)

S.No	Course	Title	Hours /week	No of Credits	CIA	SE	Total
1	Core Course	Molecular Physics	4	4	50	50	100
2	Core Course	Nuclear & Particle Physics - II	4	4	50	50	100
	Core Course	Advances in materials Science	4	4	50	50	100
4	Skill Based Electives	Analytical Techniques/Solar Energy & Photovoltaic Aspects	3	3	50	50	100
<b>S</b>	Skill Based Electives	Computational Methods & C programming/Renewable Energy	3	3	50	50	100
6	Practical course 1	C-Programming	3	2	50	50	100
7	Practical course 2	Numerical Methods & Programming	3	2	50	50	100
8	Practical course 3	Condensed Matter Physics	3	2	50	50	100
9	Practical course 4	Nuclear & Particle Physics	3	2	50	50	100
10	Practical course 5	Thermodynamic & Thermoacoustic Properties of materials	3	2	50	50	100
[1]	Research Oriented Course	Material Science	3	3	50	50	100
e de la companya de	Comoc		36	31	550	550	1100



	-			2020-21		
		DEPARTMENT		2 2	7	
	SEM	CORE/ Foundation Course (FC) / Certificate Course	COURSE CODE	COURSE TITLE	No.of Hrs/W	No. of Credits
		Core 1 - Theory	CHETTIGC	General chemistry	4	4
		Core 1 - Lab	CHEP111GC(P1)	General chemistry practical-I	3	2
		Core 2- Theory	CHE112IC	Inorganic chemistry	4	4
		Core 2-Lab	CHEP112OC(P2)	Organic chemistry practical-1	3	2
NEW	١	Core 3- Theory	CHE113OC	Organic chemistry	4	4
CBCS	ı	Core 3-Lab	CHEP113IC(P3)	Inorganic chemistry Practical-1	3	2
		Core 4- Theory	CHE114PC	Physical chemistry	4	4
		Core 4-Lab	CHEP114PC(P4)	Physical chemistry Practical-1	3	2
		FC	CHETTIFC	Concepts of chemistry	4	2
		GE	CHE111EC(GE)	Environmental chemistry	4	2
		Core 1 - Theory	CHE121GC	General chemistry	4	4
		Core 1 - Lab	CHE121OC(P1)	Organic chemistry Practical -2A	3	2
1		Core 2- Theory	CHE122IC	Inorganic Chemistry	4	4
		Core 2-Lab	CHE122OC(P2)	Organic chemistry practical -2B	3	2
		Core 3- Theory	CHE123OC	Organic Chemistry	4	4
	II	Core 3-Lab	CHE123IC(P3)	Inorganic Chemistry Practical -2	3	2
1		Core 4- Theory	CHE124PC	Physical Chemistry	4	4
		Core 4-Lab	CHE124PC(P4)	Physical Chemistry Practical -2	3	2
		GE	CHE121GE(ES)	Environmental studies	4	2
		Seminar Course	CHE121SC	Seminar	4	2
		Extension activity	ALANA	Community service	-	2

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OLD		Core 1 - Theory	CHE231OS	Organic Synthesis -1	4	4
CBCS		Core 1 - Lab	CHEP231(P1)	Three step synthesis	3	2
		Core 2- Theory	CHE232OR	Oxidations ,Reductions & Protecting groups	4	4
		Core 2-Lab	CHEP232(P2)	Analysis of organic binary mixture	3	2
	[	Core 3- Theory	CHE233OS	Organic spectroscopy-1	4	4
	111	Core 3-Lab	CHEP233(P3)	Spectral Charecterisation of Organic Compounds	3	2
		SBSE 1-Theory CHE234IA / CHE234IC Instrumental methods of analysis / Industrial chemistry		3	3	
	;	SBSE 1-lab	CHEP234(P4)	Instrumental methods of analysis practical / Industrial chemistry practical	3	2
		SBSE 2-Theory	CHE235PA / CHE235 NC	Pharmaceutical Analysis / Nanochemistry-1	3	3
-		SBSE 2-lab	CHEP235(P5)	Pharmaceutical Analysis Practical / Nanochemistry practical	3	2
		ROC	CHE231ROC	Research Oriented Course	3	3
		Core 1 - Theory	CHE241OS	Organic synthesis-2	4	4
		Core 1 - Lab	CHEP241FS(P1)	Four step synthesis	3	2
		Core 2- Theory	CHE242MR	Molecular rearrangements, pericyclic , photochemistry	4	4
		Core 2-Lab	CHEP242PB(P2)	Preaparations based on named reactions	3	2
		Core 3- Theory	CHE243OC	Organo metallic chemistry and heterocyclic chemistry	4	4
		Core3-Lab	CHEP243EO(P3)	Estimation of organic compounds	3	2
	IV	SBSE 1-Theory	CHE244OS / CHE244 GC	Advanced organic spectroscopy / Green chemistry	3	3
		SBSE-1-lab	CHEP244SC(P4)/ CHEP244GC (P4)	Spectral Charecterisation of Organic Compounds / Green chemistry practicals	3	2
		SBSE 2-Theory	CHE245NP / CHE245NC	Natural products and antibiotics / Nanochemistry-2	3	3
		SBSE 2-lab	CHEP245NP(P5) / CHEP245NC (P5)	Natural products practical / Nanochemistry practicals	3	2
1		ROC	CHE241ROC	Research Oriented Course	3	3
1		Project work	CHE241SP	Summer Project	-	4

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#### ANDHRA LOYOLA COLLEGE (AUTONOMOUS): VIJAYAWADA DEPARTMENT: M.Sc BIOTECHNOLOGY ACADEMIC YEAR - 2020-21 Semester 1 COURSE CODE No. of Credits Hrs/W Title of the Course Course Type BTY111FC Essentials for Biotechnology **Foundation Course** BTY111CBG Core course I Cell Biology & Genetics 4 BTY112BC Biochemistry Core course II 4 BTY113MB Microbiology Core course III 4 4 BTY114BI Bioinstrumentation Core course IV 2 3 BTY111CBG(P) Cell Biology & Genetics Core Practical I 2 BTY112BC(P) Biochemistry Core Practical II 3 BTY113MB(P) Core Practical III Microbiology BTY114BI(P) Bioinstrumentation Core Practical IV BTY111SC Seminar Course Seminar Course 4 BTY111GE General Elective Applied Biotechnology Semester 2 No. of Credits Hrs/W COURSE CODE Title of the Course Course Type BTY121MB Molecular Biology Core course I BTY122EM Core course II Enzymology BTY123BB **Biostatistics & Bioinformatics** Core course III 4 BTY124FB Food Biotechnology Core course IV 3 BTY121MB(P) Molecular Biology Core Practical I 3 2 BTY122EM(P) Enzymology Core Practical II 2 3 BTY123BB(P) **Biostatistics & Bioinformatics** Core course III 3 BTY124FB(P) Food Biotechnology Core course IV BTY122SC Seminar Course Seminar Course 2 BTY122GE 4 Forensic Science General Elective 4

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**Extension Activity** 

S. Laitakeli

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

emester 3  Course Type	Title of the Course	COURSE CODE	Hrs/W	No. of Credits
core course I	Genetic Engineering	BTY231GE	4	4
ore course II	Immunology And Immmunotechnology	BTY232IT	4	4
ore course III	Genomics And Proteomics	BTY233GP	4	4
kill Based Subject Elective-1	Industrial Biotechnology	BTY234IB	4	4
kill Based Subject Elective-2	Environmental Biotechnology	BTY235EB	4	4
Core Practical I	Genetic Engineering (P)	BTY231 (P)	3	2
Core Practical II	Immunology And Immmuno Technology (P)	BTY232 (P)	3	2
Core Practical III	Genomics And Proteomics (P)	BTY233 (P)	3	2
	Industrial Biotechnology (P)	BTY234 (P)	3	2
Skill Based Subject Elective-1	Environmental Biotechnology (P)	BTY235 (P)	3	2
Skill Based Subject Elective-2	Research Oriented Course	BTY231ROC	3	3
RESEARCH ORIENTED COURSE	Research Oriented Course	-		4
Summer Project				
Semester 4	THE CHARLES	COURSE CODE	Hrs/W	No. of Credit
Course Type	Title of the Course	BTY241PB	4	4
Core course I	Plant Biotechnology	BTY242AB	4	4
Core course II	Animal Biotechnology	BTY243EMB	4	4
Core course III	Entrepreneurship And Management In Biotechnology	BTY244MB	3	3
Skill Based Subject Elective-1		BTY245MB	3	3
Skill Based Subject Elective-2		BTY241ROC	3	3
RESEARCH ORIENTED COURSE	Research Oriented Course		3	2
Core Practical I	Plant Biotechnology	BTY241 (P) BTY242 (P)	3	2
Core Practical II	Animal Biotechnology (P)		3	2
Core Practical III	Entrepreneurship And Managment In Biotechnology (P)	BTY243 (P)		2
	1 Marine Biotechnology (P)	BTY244 (P)	3	
Skill Based Subject Elective-			0	7
Skill Based Subject Elective-		BTY245 (P) BTY241 P	3	4

S. Law Lakel.

Jead of the Department of Biotechnology
(Autonomous)

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

### ANDHRA LOYOLA COLLEGE (AUTONOMOUS): VIJAYAWADA DEPARTMENT: M.Sc BIOTECHNOLOGY ACADEMIC YEAR - 2018-19

#### Semester 1

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

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 Immmunotechnology	BTY232IT	4	4
Core course III	Genomics And Proteomics	BTY233GP	4	4
Core course IV	Industrial Biotechnology	BTY234IB	4	4
Core course V	Environmental Biotechnology	BTY235EB	4	4
RESEARCH ORIENTED COURS	Research Oriented Course	BTY231ROC	3	3
Core Practical I	Genetic Engineering (P)	BTY231 (P)	3	2
Core Practical II	Immunology And Immmuno Technology (P)	BTY232 (P)	3	2
Core Practical III	Genomics And Proteomics (P)	BTY233 (P)	3	2
Core Practical IV	Industrial Biotechnology (P)	BTY234 (P)	3	2
Core Practical V	Environmental Biotechnology (P)	BTY235 (P)	3	2
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
Core course IV	Marine Biotechnology	BTY244MB	3	3
Core course V	Medical Biotechnology	BTY245MB	3	3
RESEARCH ORIENTED COURS	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 Managment In Biotechnology (P)	BTY243 (P)	3	2
Core Practical IV	Marine Biotechnology (P)	BTY244 (P)	3	2
Core Practical V	Medical Biotechnology (P)	BTY245 (P)	3	2
	Final Project	BTY241 P		4



### YEAR-2020-2021

### SEMESTER I

SI. No	Subject Code	Subject Title	Intern a l Marks	Externa I Marks	Total Marks	Per	No. of Credits / Week
1	Foundation Course	Basics of OS (UNIX & LINUX)	50	50	50		2
2	MCA10117	Programming and Problem Solving	50	50	100	4	4
3	MCA10217	Discrete Mathematical Structures	50	50	100	4	4
4	MCA10317	Computer Organization	50	50	100	4	4
5	MCA10417	Introduction to Internet Programming	50	50	100	4	4
6	MCA10517	Accounting Financial Management	50	50	100	4	4
7	MCA10617	General Elective Soft Skills	50	50	100	4	2
8	MCA107P17	C Programming Lab	50	50	100	6	3
	9 MCA108P17	Internet Programming Lab	50	50	100	6	3
-		Total	450	450	900	36	30



### ANDHRA LOYOLA COLLEGE (AUTONOMOUS) DEPARTMENT OF MCA II SEMESTER DETAIL SYLLABUS

### Year -2020-2021

#### SEMESTER II

SI. No	Subject Code	Subject Title	Interna l Marks	External Marks	Total Mark s	Hours Per Week	No. of Credits/ Week
1	Foundation	Communication Skills	50	50	50		2
2	Course MCA20117	Data Structures	50	50	100	4	4
3	MCA20217	Object Oriented Programming	50	50	100	4	4
4	MCA20317	Operating Systems	50	50	100	4	4
5	MCA20417	Database Management System	50	50	100	4	4
6	MCA20517	Computer Networks	50	50	100	4	4
7	MCA20617	General Elective Office Automation	50	50	100	4	2
8	MCA207P17	Data Structures Lab	50	50	100	6	3
9	MCA208P17	DBMS Lab	50	50	100	6	3
9		otal	450	450	900	36	30

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	SEMESTER -I		Interna	External	Total Mark	Hours Per	No. of Credits
SL No	Subject Code	Subject Title	Marks	Marks	S	Week	Week
1	MCA30117	Cryptography & Network Security	50	50	100	4	4
2	MCA30217	Advanced JAVA	50	50	100	4	4
3	MCA30317	Object Oriented Software Engineering	50	50	100	4	4
4	MCA30417	Operations Research	50	50	100	4	4
5	MCA30517	Programming in Python	50	50	100	4	4
6	MCA306P17	Python Lab	50	50	100	6	3
7	MCA307P17	Advanced Java Lab	50	50	100	6	3
8	MCA308P17	Seminar		50	50	3	2
	То	tal	350	400	750	35	28

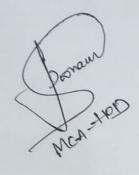
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SI. No	SEMESTER IV Subject Code	Subject Title	Interna l Marks	External Marks	Total Mark s	Hours Per Week	No. of Credits Week
1	MCA40117	Computer Graphics	50	50	100	4	4
2	MCA40217	Open Source Technologies	50	50	100	4	4
3	MCA40317	Data mining & Data Warehouse	50	50	100	4	4
4	MCA40417	Android Application Development	50	50	100	4	4
	MCA405.117	Enterprise Resource Planning					
5	MCA405.217	Compiler Design					
	MCA405.317	Software Testing					
6	MCA406P17	Data Mining Lab	50	50	100	6	3
7	MCA407P17	Android App Lab	50	50	100	6	3
8	MCA40817	Project Planning& Mini Project & Mini Project		50	100	3	2
	Tota	1	350	400	750	35	28



### SEMESTER V

Sl. No	Subject Code	Subject Title	Inter na l Mar ks	External Marks	Total Mark s	Hours Per Week	No. of Credits/ Week
1	MCA50117	Data Sciences	50	50	100	4	4
2	MCA50217	Design and Analysis of Algorithms	50	50	100	4	4
3	MCA50317	Dot Net Programming	50	50	100	4	4
4	MCA50417	Artificial Intelligence	50	50	100	4	4
	MCA505.117	Robotics	, v				
	MCA505.217	IoT					
5	MCA505.317	Block Chain Technologies					
	MCA505.417	Cyber Crimes and Cyber Laws	50	50	100	4	4
6	MCA506P17	Data Science Lab	50	50	100	6	3
7	MCA507P17	Dot Net Programming Lab	50	50	100	6	3
8	MCA508P17	Mini Project		50	50	3	2
	Т	otal	350	400	750	35	28



### SEMESTER VI

Major Project: Credits

### Objectives:

To explore the knowledge of students in technical domain and application domain.

0. To get an experience to develop software in the corporate domain.

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### COURSE STRUCTURE

	S SEMESTER I	SEMESTER II	SEMESTER III	SEMESTER IV
Foundation Course				
BUSINESS FUNDAM NTALS	S 4(2)			
Extension Activity Core		45(2) (AFTER COLLEGE HOURS)		
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)
3				
Communic tion Skills				
General Electives	4(2)	4(2)		
ENERIC LECIVE			3(2)	3(2)
esearch riented ourse	å			
oject ork / omprehe ive viva			0(2)	0(4)
	36(29)	36(29)	36(31)	36(33)

### Semester II

Code	Courses	Lecture /week	Elective	Internal Marks	External Marks	No.of Credits
MBA201	Marketing Management	5	Core	50	50	4
MBA 202	HumanResource Management	5				
MBA 203	Financial Management		Core	.50	50	4
		5	Core	50	50	4
MBA 204	Operation Research	5	Core	50	50	4
1BA 205	Entrepreneurship: Theory and Practice	4				
1BA 206	Business Research Methods	4	Core	50	50	3
Para San San San San San San San San San Sa	The second of th		Core	50	50	3
1BA 207	Project Management	4	core	50	50	3
BA 208	General Elective-2	4				
BA 209	Extension Activity			50	50	2
	The state of the s	0	-		100	2
tal for II Semester		36				

### **III-SEMESTER**

Paper Code	Paper Title Generic core	Teaching	Hours/ w		Core /	Internal	External	No. of
	course	Lecture	Tutorial	Practical	Elective	Marks	Marks	Credit
MBA301	Strategic Management	1	1	1	Core	50	50	3
FUNCTIONAL SPEC	CIALISATIONS							
(Choose any 6 elective	e courses out of 5 Spec	cialization	s having 5	courses e	ach as shov	yn in Table	<b>-</b> 1)	
MBA302 MKT – MBA 306 MKT	Marketing							
MBA302 HRMOB - MBA306 HRMOB	HRM & OB							-
MBA302 FIN - MBA306 FIN	Finance	6X5=30H (18L +6T			Electives	6X50	6X50	6X4=2
MBA302OPS- 306OPS)	Operations		,					
MBA302ENT- 306ENT)	Entrepreneurship							
MBA307	Project Work	-	-	-			50	2
Generic Elective Cou	irses (Choose any on	e out of tl	hree cour	ses)				
MBA308	Leadership	1	1	1	Elective-1	50	50	2
MBA 309	Creativity & Innovation	1	1	1	Elective-2	-	-	-
MBA310 MOOCS	Any online course related to MBA from the authentic					A PASS		
/NCFM/IRDA/NISM		1	1	1	Elective-3	CERTIFIC WITH 50%		-
TOTAL FOR III SE	 MESTER	20	8	8	-	400	450	31

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

### IV SEMESTER

aper Code	Paper Title Generic core	Teachin	g Hours/	week	Core / Elective	Internal Marks	External Marks	No. 6 Cred
	Course	Lecture	Tutorial	Practical	Core	50	50	3
MBA401	International Business	1	1					
ADVANCED SPE	CIALISATIONS					1 140.5		
Choose any 6 elec	tive courses out of 5	Specializati	ons having	g 5 courses	each as sho	wn in Table	-2)	
MBA402 MKT – MBA 406 MKT	Marketing							
MBA402 HRMOB -MBA406 HRMOB	HRM & OB							
MBA402 FIN - MBA406 FIN	Finance	$6 \times 5 = 30 1$	HOURS L +6T+6P)	Ek	ectives 6 3	(50   6 X	50 6 X	4=24
MBA408	Comprehensive Viva-voce					100	0 /4	_//
GENERIC ELECT	IVE COURSES (Cho	ose any On	e out of T	hree cours	es)			_[/]
MBA 409	Employability Skills Lab	1	1	Elect		50	2	]
MBA 410	Selling & Negotiation Skills Lab		1	Electi	ve-2 50	50	2	
MBA 4121	Statistical Software Applications Lab	1	1 32 1	Electiv	May Like S.	50	2	
TOTAL FOR IV SE		20   8	8 8	544 L - 1884 S	400	500	33	1

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