



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-2019-2020]

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-2019-2020]					
GENERAL ENGLISH COURSES					
Year	Semester	Course	Title of the Course	No. of Hrs/W	COURSE CODES
1	I	1	ENGLISH FOR EMPOWERMENT	4	ENG 111 EE
2	III	3	ENGLISH FOR EMPOWERMENT-III	4	ENG233EE
FOUNDATION COURSE					
2	III	FC	COMMUNICATION AND SOFT SKILLS-II	3	FOU244CSS
ENGLISH LANGUAGE LAB					
2	III	LAB	GENERAL ENGLISH LANGUAGE LAB	2	ENG233(P)
COURSES: ENGLISH LITERATURE					
Year	Semester	Course	Title of the Course	No. of Hrs/W	
1	I	1	HISTORY OF ENGLISH LANGUAGE AND LITERATURE	4	ENG111HEL
ENGLISH LANGUAGE LAB					
1	I	LAB	ENGLISH LITERATURE (P)-1	2	ENGHEL(P)
2	III	3	BRITISH LITERATURE	4	ENG233BL
ENGLISH LANGUAGE LAB					
2	III	LAB	ENGLISH PRACTICAL III	2	ENG233BL (P)
3	V	VA	CULTURAL DIVERSITY, GENDER AND HUMAN RIGHTS	4	ENG355CD
		VI A	CONTEMPORARY INDIAN WRITINGS AND FILM STUDIES	4	ENG356CIW
ENGLISH LANGUAGE LAB					
3	V	LAB	ENGLISH LITERATURE (P)-V	2	ENG355GWE(P)



STRUCTURE OF THE COURSES [EVEN SEMS. -2019-2020]

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. -2019-2020]					
GENERAL ENGLISH COURSES					
Year	Semester	Course	Title of the Course	No. of Hrs/W	COURSE CODES
1	II	2	ENGLISH FOR EMPOWERMENT	4	ENG 122EE
2	IV	4	ENGLISH FOR EMPOWERMENT [CSS-III]	4	ENG244EE
FOUNDATION COURSE					
2	IV	FC	COMMUNICATION AND SOFT SKILLS-II	3	FOU244CSS
COURSES: ENGLISH LITERATURE					
Year	Semester	Course	Title of the Course	No. of Hrs/W	COURSE CODES
1	II	1	AN INTRODUCTION TO LITERARY CRITICISM & LITERARY THEORY	4	ENG122ILC
ENGLISH LANGUAGE LAB					
1	II	LAB	ENGLISH LITERATURE (P)- 2	2	ENG122ILC (P)
2	IV	2	LITERARY CROSS CURRENTS	4	ENG244LCC
ENGLISH LANGUAGE LAB					
2	IV	LAB	LITERATURE PAPER IV	2	ENGLT244 (P)
3	VI	3	ENGLISH FOR LANGUAGE AND LINGUISTICS	4	ENG 367EL
ENGLISH LANGUAGE LAB					
3	VI	LAB	ENGLISH LITERATURE-VII (P)	2	ENG367EL(P)
3	VI	3	ENGLISH LANGUAGE TEACHING	4	ENG368C1ELT
3	VI	3	SECOND LANGUAGE ACQUISITION	4	ENG368C2SLA
3	VI	3	AN INTRODUCTION TO SOCIOLINGUISTICS	4	ENG368C3ILS


 Mr. N. Ranga Babu,

Head, Department of English

ANDHRA LOYOLA COLLEGE (AUTONOMOUS): VIJAYAWADA:8

DEPARTMENT OF TELUGU COURSES

COURSE STRUCTURE 2019-2020

క్రమ.సం	సమి	కోర్సు కోడ్	శీర్షిక	పీరియట్లు/వారానికి	క్రెడిట్లు
<u>I</u>	<u>I</u>	<u>TEL111PPG</u>	Poetry, Prose & Grammar	<u>4</u>	<u>3</u>
<u>II</u>	<u>II</u>	<u>TEL122PNC</u>	Poetry, Novel & Comprehensive	<u>4</u>	<u>3</u>
<u>III</u>	<u>III</u>	<u>TEL233PPG</u>	Poetry, Prose & Gen. Essay	<u>4</u>	<u>3</u>
<u>V</u>	<u>VI</u>	<u>TEL233PPG</u>	Literary Criticism	<u>4</u>	<u>3</u>
<u>VI</u>	<u>VIII</u>	<u>TEL233PPG</u>	Telugu Journalism and Research Methodology	<u>4</u>	<u>3</u>

1	I&II	DTP1	Telugu DTP	Certificate
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K. Seshu
HOD

ANDHRA LOYOLACOLLEGE [AUTONOMOUS]: VIJAYAWADA:8

SANSKRIT LANGUAGE

COURSE STRUCTURE 2019 - 20

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

K. Sathya

HOD



ANDHRA LOYOLA COLLEGE (AUTONOMOUS)

VIJAYAWADA- 520 008

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

2019-2020					
ECONOMICS COURSE STRUCTURE					
SEM	CORE/ Foundation Course (FC) / Certificate Course	COURSE CODE	COURSE TITLE	No.of Hrs/W	No. of Credits
I	Core 1 - Theory	ECO111ME1	Microeconomics–I	5	4
II	Core 2 - Theory	ECO122ME2	Microeconomics–II	5	4
III	Core 3 - Theory	ECO233ME1	Macro Economic I	5	4
IV	Core 4 - Theory	ECO234ME2	Macro Economic II	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 - Theory				
	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 2019-20


SEMESTER	PAPER	NAME OF THE PAPER	Course Code	NO OF HOURS	NO OF CREDITS
I	I	Introduction to Political Theory	POL/111	5	4
II	II	Indian Government and Politics	POL/122	5	4
III	III	Comparative Government and Politics	POL/233	5	4
IV	IV	Introduction To International Relations	POL/244	5	4
V	V	Indian Political Thought	POL/355	5	4
V	VI	Western Political Thought	POL/356	5	4
VI	VII	Principals Of Public Administration	POL/367	5	4

A. Anand Reddy

Course structure 2019-20

List and Titles of the papers offered for 3 year B.A Degree Students

	Semester	Paper	Title
I year	I	I	History of India from Earliest times to 300 CE
	II	II	History of India from C.300 to 126AD
II year	III	III	History of India from 1206 to 1707AD
	IV	IV	History of India from 1707 to 1950AD
III year	V	V	Age of Rationalism and Humanism: The world between 15 th to 18 th centuries. History of Modern world A.D (1453 to – 1821 AD)
	V	VI	History and culture of Andhra from 12 th to 19 th century AD
	VI	VII	History of Modern Europe (from 19 th to 1945): History of Modern world (1821 – 1945) AD
	VI	VIII – A1 Cluster elective	Cultural Tourism in Andhra Pradesh paper – VIII – A – 1 (Cluster Elective paper – 1)
		VIII – A2 Cluster elective	Popular movements in Andhra (1848 – 1956AD) History and culture of Andhra (1857 to 2017)
		VIII – A3 Cluster elective	Contemporary History of Andhra Pradesh AD (1956 to 2014)


Dr. MUVVA SRINIVASANARAYANA.

ANDHRA LOYOLA COLLEGE(AUTONOMOUS) VIJAYAWADA-8

COURSE STRUCTURE

DEPARTMENT : MATHEMATICS

YEAR : 2019-2020

SEMESTER	COURSE CODE	TITLE OF THE COURSE	Hrs / Week	Credits
I	MAT111DC	Differential Calculus-I	6	5
II	MAT122DC	Differential Calculus-II	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



Andhra Loyola College
Department of Statistics
Course Structure for the academic year 2019-20

Year	Semester	Course Code	Course Title	Hours per Week	No. of Credits
I	I	STA111DSP	Descriptive Statistics & Theory of Probability	3	3
		STA111DSP (P)	Descriptive Statistics & Theory of Probability Practicals	3	2
	II	STA122PD	Probability Distributions	3	3
		STA122PD (P)	Probability Distributions Practicals	3	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

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	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 2019-20
For Big Data Analytics and Artificial Intelligence

Year	Semester	Course Code	Course Title	Hours per Week	No. of Credits
I	I	STA111SM	Statistical Methods	3	3
		STA111SM (P)	Statistical Methods Practicals	3	2
	II	STA122BPT	Basic Probability Theory	3	3
		STA122BPT (P)	Basic Probability Theory Practicals	3	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

K. Srinivasan

BSc Physics Course Structure for 2019-20

ANDHRA LOYOLA COLLEGE (AUTONOMOUS) VIJAYAWADA-8					
DEPARTMENT OF PHYSICS					
COURSE STRUCTURE FOR ODD & EVEN SEMESTERS OF 2019-20					
Year	Semester	Course	Title of the Course	Number of HRS / week	Number of Credits
I BSc	1	1	Mechanics, and Properties of Matter Course code – PHY111	3	3
			Practical course - I	3	2
	2	2	Waves Oscillations Course code – PHY122WO	3	3
			Practical course – II	3	2
II BSc	3	3	Wave Optics Course code - PHY233	3	3
			Practical Course – III	3	2
	4	4	Thermal Physics Course code - PHY244TPH	3	3
			Practical course – IV	3	2
III BSc	5	6	Electricity & Magnetism Course code – PHY355	3	3
			Practical course – IV	3	2
		7	Atomic, Molecular & Nuclear Physics Course code – PHY356	3	3
			Practical course – VII	3	2
	6	8	Analog & Digital Electronics Course code – PHY367ADE	3	3
			Practical course – VIII	3	2
		9 (1)	Introduction to Microprocessors & Micro controllers Course code - PHY368C1IM	3	3
			Practical course – IX (1)	3	2
		9 (2)	Computational Methods & Programming IX (2) Course code – PHY368C2CP	3	3
			Practical course – IX (2)	3	2
9 (3)		Electronic Instrumentation Course code – PHY368C3EI	3	3	
	Practical course – IX (2)	3	2		


 P. SRIBANIBASA SASTRI
 HOD PHYSICS

ANDHRA LOYOLA COLLEGE (AUTONOMOUS): VIJAYAWADA:8
B.Sc. Chemistry COURSE STRUCTURE
2019-20

Year	Semester	Course	Title of the Course	COURSE CODE	Hrs/W	No. of Credits
1	I	1	Inorganic chemistry and Organic chemistry	CHE111IOC	4	3
			Practical-I Volumetric analysis	CHE111VA(P)	3	2
	II	2	Physical & organic chemistry	CHE122OPC	4	3
			Practical-II Physical & organic chemistry	CHE122OPC(P)	3	2
2	III	3	Organic and Physical chemistry	CHE233OPC	4	3
			Practical-III Analysis of organic Compounds	CHE233AOC(P)	3	2
	IV	4	Inorganic and Physical chemistry	CHE244IPC	4	3
			Practical-IV Analytical skill	CHE244AS(P)	3	2
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
	VI	7	Analytical methods of chemistry and general chemistry	CHE367AM	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
		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
	PROJECT WORK				PRJ360CHE	

[Signature]
 HoD Chemistry


APSCHE/ REVISION OF C.B.C.S - BOTANY COURSE STRUCTURE- W.E.F.2019 -20

S. No.	Semester	Title of the Course (Paper)	COURSE CODES	Hours /week	Credits
1.	SEM.-1/ paper-I	Microbial diversity- algae and fungi	BOT-111- FMN	04	03
	Course-I Practical	Microbial diversity- algae and fungi	BOT-111- FMN	03	02
2.	SEM.-11/ Paper-2	Diversity of Archegoniates and anatomy	BOT-122- BVP	04	03
	paper-2 Practical	Diversity of Archegoniates and anatomy	BOT-122- BVP	03	02
3.	SEM-III / paper-3	Plant taxonomy and embryology	BOT-233- AEA	04	03
	Paper -3 Practical	Plant taxonomy and embryology	BOT-233- AEA	03	02
4.	SEM.-IV Paper -4	Plant Physiology and Metabolism	BOT-244- PPM	03	03
	Paper-4 Practical	Plant Physiology and Metabolism	BOT-244- PPM	03	02
5.	SEM.- paper-- 5	Cell Biology, Genetics and Plant Breeding	BOT-245- CGP	04	03
	Paper - 5- Practical	Cell Biology, Genetics and Plant Breeding	BOT-245- CGP	03	02
6.	SEM -V Paper - 6C	Plant ecology and phytogeography	BOT-356- PEP	03	03
	Course- 6C- Practical	Plant ecology and phytogeography	BOT-356- PEP	03	02
	SEM -VI PAPER- 7-	Nursery gardening and floriculture	BOT-367- NGF	03	03
	SEM -VI PAPER- 7-	Nursery gardening and floriculture	BOT-367- NGF	03	02
	SEM -VI CLUSTERS A-1	Plant diversity and human welfare	BOT-368- C-1 PDH	03	02

SEM -VI CLUSTERS A-1	Plant diversity and human welfare	BOT-368- C-1 PDH	03	02
SEM -VI CLUSTERS A-2	Ethnobotany and medicinal plants	BOT-368- C-2 EMB	03	02
SEM -VI CLUSTERS A-2	Ethnobotany and medicinal plants	BOT-368- C-2 EMB	03	02
SEM -VI CLUSTERS A-3	Pharmacognosy and Phytochemistry	BOT-368- C-3 PPC	03	02
SEM -VI CLUSTERS A-3	Pharmacognosy and Phytochemistry	BOT-368- C-3 PPC	03	02

ANDHRA LOYOLA COLLEGE (AUTONOMOUS), VIJAYAWADA
ZOOLOGY Syllabus COURSE STRUCTURE
For the Academic Year 2019-2020

YEAR	SEM	COURSE	COURSE CODE	COURSE TITLE	Hrs/wk	CRE DITS		
I	I	I	ZOO111 AD1	ANIMAL DIVERSITY- I:NON CHORDATA (T)	4	3		
			ZOO111 AD1(P)	ANIMAL DIVERSITY- I: NON CHORDATA (P)	3	2		
	II	II	ZOO122 ADC	ANIMAL DIVERSITY-I I: CHORDATA(T)	4	3		
			ZOO122 ADC(P)	ANIMAL DIVERSITY-I I: CHORDATA(P)	3	2		
II	III	III	ZOO233 CGE	CYTOLOGY, GENETICS AND EVOLUTION(T)	4	3		
			ZOO233 CGE (P)	CYTOLOGY, GENETICS AND EVOLUTION(P)	3	2		
	IV	IV	ZOO244 EPE	EMBRYOLOGY, PHYSIOLOGY AND ECOLOGY(T)	4	3		
			ZOO244 EPE(P)	EMBRYOLOGY, PHYSIOLOGY AND ECOLOGY(P)	3	2		
			V	V	ZOO355 ABT	ANIMAL BIOTECHNOLOGY(T)	3	3
					ZOO355 ABT(P)	ANIMAL BIOTECHNOLOGY(P)	3	2
VI	VI	ZOO356 ANH	ANIMAL HUSBANDRY(T)	3	3			
		ZOO356 ANH(P)	ANIMAL HUSBANDRY(P)	3	2			
III	VII	VII	ZOO367IM	Elective: IMMUNOLOGY(T)	3	3		
			ZOO367IM(P)	Elective: IMMUNOLOGY(P)	3	2		
	VIII C1	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	VIII C2	ZOO368C2 ACM	Cluster Elective: AQUACULTURE AQUACULTURE MANAGEMENT(T)	3	3		
			ZOO368C2 ACM	Cluster Elective: AQUACULTURE AQUACULTURE MANAGEMENT (P)	3	2		
	VIII C3	VIII C3	ZOO368C3 PHT	Cluster Elective: AQUACULTURE POSTHARVEST TECHNOLOGY(T)	3	3		
			ZOO368C3 PHT(P)	Cluster Elective: AQUACULTURE POSTHARVEST TECHNOLOGY (P)	3	2		
				PRJ360ZOO	ZOOLOGY PROJECT		3	



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

ANDHRA LOYOLA COLLEGE (Autonomous), VIJAYAWADA
DEPARTMENT OF MICROBIOLOGY
COURSE STRUCTURE FOR A.Y: 2019-20
DEPARTMENT OF MICROBIOLOGY

Structure of B.Sc Microbiology

2019-20					
DEPARTMENT		Microbiology			
SEM	CORE/ Foundation Course (FC) / Certificate Course	COURSE CODE	COURSE TITLE	No.of Hrs/W	No. of Credits
I	Core 1 - Theory	MIB111MT	Introductory Microbiology & microbial diversity	4	3
	Core 1 - Lab	MIB111MT(P)	Introductory Microbiology & microbial diversity	3	3
	FC, If any				
	GE If any				
	CC, If any				
II	Core 2 - Theory	MIB122MPB	Microbial Biochemistry & physiology	4	3
	Core 2 - Lab	MIB122MPB(p)	Microbial Biochemistry & physiology	4	3
	FC, If any				
	GE If any				
	CC, If any				
III	Core 3 - Theory	MIB233MMG	Microbial genetics & Molecular biology	4	3
	Core 3 - Lab	MIB233MMG(P)	Microbial genetics & Molecular biology	4	3
	FC, If any				
	GE If any				
	CC, If any				
IV	Core 4 - Theory				
	Core 4 - Lab				
	FC, If any	MIB244IMB	Immunology & Medical Microbiology	4	3
	GE If any	MIB244IMB(P)	Immunology & Medical Microbiology		
	CC, If any				

V	Core 5 - Theory	MIB355EAM	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 - Theory				
	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. K Balachandra

ANDHRA LOYOLA COLLEGE (AUTONOMOUS): VIJAYAWADA

DEPARTMENT: BIOTECHNOLOGY

ACADEMIC YEAR - 2019-20

Year	Sem	Course	Title of the Course	COURSE CODE	Hrs/W	No. of Credits
1	I	1	Microbiology	BIO111MB	4	3
		LAB	Microbiology(P)	BIO111MB(P)	3	2
	II	2	Macromolecules, enzymology and Metabolism	BIO122MEM	4	3
		LAB	Macromolecules, enzymology and Metabolism(P)	BIO122MEM(P)	3	2
2	III	3	Bioanalytical Tools	BTY233BAT	4	3
		LAB	Bioanalytical Tools(P)	BTY233BAT(P)	3	2
	IV	4	Immunotechnology	BTY244IMU	4	3
		LAB	Immunotechnology(P)	BTY244IMU(P)	3	2
3	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
	VI	7	Computer applications, biostatistics and bioinformatics	BTY367CABB	3	3
		LAB	Computer applications, biostatistics and bioinformatics(P)	BTY367CABB(P)	3	2
		8a	Microbial Biotechnology	BTY368C1MBT	3	3
		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

SEM	TYPE	Title of the Course	COURSE CODE	Hrs/W	No. of Credits
I	Certificate	Technology in Biology	CC111TB	2	1

S. Sri Lakshmi

**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 - 2019-20

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 and Food Nutrition	FTE111FCN (P)	2	2
		Paper 2	Food Biochemistry and Nutrition	FTE112FNB	4	3
	II	Paper 3	Food Processing and Engineering Technology	FTE123FPT	4	3
		Lab	Principles of Food Chemistry	FTE122PFC (P)	2	2
		Paper 4	Food Additives and Toxicology	FTE124FAT	4	3
2	III	Paper 5	Post Harvest Technology of Field Crops	FTE235PHT	4	5
		Paper 6	Dairy Technology	FTE236DT	4	3
		Lab	Dairy Technology	FTE234DT(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		
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
		Paper 12	Packaging Technology	FTE3610PT	4	3
		Lab	Packaging Technology	FTE368PT (P)	2	2

Dr. k Balachandra

Andhra Loyola College (Autonomous) : Vijayawada
B.Sc, Computer Science Structure and Syllabus (w.e.f 2019-2022)

Semester	Paper	Subject	Hrs	Credits	IA	ES	Total
FIRST YEAR							
Semester I	I	Programming using 'C'	4	3	50	50	100
		'C' Programming Lab	3	2	50	50	100
Semester II	II	Database Management Systems	4	3	50	50	100
		MySQL Lab	3	2	50	50	100
SECOND YEAR							
Semester III	III	Object Oriented Programming with Java	4	3	50	50	100
		Java Programming Lab	3	2	50	50	100
Semester IV	IV	Digital Computer Organization and Introduction to Computer System Architecture	4	3	50	50	100
		PHP Lab	3	2	50	50	100
THIRD YEAR							
Semester V	V	Principles of Operating Systems	3	3	50	50	100
		Linux Lab	3	2	50	50	100
	VI	Software Engineering	3	3	50	50	100
		Design Tools	3	2	50	50	100
Semester VI	VII	Data Structures	3	3	50	50	100
		Data Structures Lab	3	2	50	50	100
	VIII Cluster A	1. Foundations of Data Science	3	3	50	50	100
		2. Big Data Technology					
		3. Computer for Data Analytics					
		Hadoop Lab	3	2	50	50	100
	VIII Cluster B	1. Distributed System	3	3	50	50	100
		2. Cloud Computing					
		3. Grid Computing					
		Web Services Lab	3	2	50	50	100
	VIII Cluster C	1. Computer Network	3	3	50	50	100
		2. Android Programming					
		3. Multimedia Application					
		Network Lab	3	2	50	50	100
Project Work				3	50	50	100

(Signature)
 (S. AB. NEHRU)

DEPARTMENT OF ELECTRONICS – COURSE STRUCTURE (2019 – 2020)					
B.Sc. (Maths, Computer Science, Electronics)					
Year	Semester	Course Code	Title of the Course	No. of Hrs/W	No. of Credits
I	I	ELE 111	NETWORK ANALYSIS AND ANALOG ELECTRONICS	4	3
		ELE 111 P	Practical - NETWORK ANALYSIS AND ANALOG ELECTRONICS	2	2
		ET ELE 111	ELECTRICITY AND ELECTRONIC COMPONENTS	4	3
		ET ELE 111 P	Practical - ELECTRICITY AND ELECTRONIC COMPONENTS	2	2
	II	ELE 122	LINEAR AND DIGITAL INTEGRATED CIRCUITS	4	3
		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
II	III	ELE 233	ELECTRONIC INSTRUMENTATION	4	3
		ELE 233 P	Practical - ELECTRONIC INSTRUMENTATION	2	2
		ET ELE 233	LED LIGHTING DESIGN FUNDAMENTALS AND TESTING	4	3
		ET ELE 233 P	Practical - LUMINAIRIES LAB	2	2
	IV	ELE 244	MICROPROCESSORS	4	3
		ELE 244 P	Practical - MICROPROCESSORS	2	2
		ET ELE 244	SOLID STATE LIGHTING APPLICATION	4	3
		ET ELE 244 P	Practical - SSL TESTING	2	2
III	V	ELE 355	MICROCONTROLLER AND INTERFACING	3	3
		ELE 354 P	Practical - MICROCONTROLLER & INTERFACING	3	2
		ELE 356	COMMUNICATION SYSTEMS	3	3
		ELE 356 P	Practical – COMMUNICATION LAB	3	2
	VI	ELE 367	ADVANCED MICROCONTROLLERS	3	3
		ELE 367 P	Practical - INTERNET OF THINGS(IoT)	3	2
		ELE 368A1	POWER ELECTRONICS	3	3
		ELE 368A1 P	Practical - POWER ELECTRONICS	3	2
		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. Saleem Khan
 HOD, Electronics
 Chairman, Board of Studies

DEPARTMENT OF ELECTRONICS – COURSE STRUCTURE (2019 – 2020)

B.Sc. Electronics Technology

Year	Semester	Course Code	Title of the Course	No. of Hrs/W	No. of Credits	
I	I	ELE 111	NETWORK ANALYSIS AND ANALOG ELECTRONICS	4	3	
		ELE 111 P	Practical - NETWORK ANALYSIS AND ANALOG ELECTRONICS	2	2	
		ET ELE 111	ELECTRICITY AND ELECTRONIC COMPONENTS	4	3	
		ET ELE 111 P	Practical - ELECTRICITY AND ELECTRONIC COMPONENTS	2	2	
		ET ELE 111A	CONSUMER ELECTRONICS	4	3	
			ENGINEERING DRAWING			
	II	II	ELE 122	LINEAR AND DIGITAL INTEGRATED CIRCUITS	4	3
			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
			ET ELE 122A	PC MAINTENANCE AND TROUBLESHOOTING		
				WORKSHOP		
II	III	ELE 233	ELECTRONIC INSTRUMENTATION	4	3	
		ELE 233 P	Practical - ELECTRONIC INSTRUMENTATION	2	2	
		ET ELE 233	LED LIGHTING DESIGN FUNDAMENTALS AND TESTING	4	3	
		ET ELE 233 P	Practical - LUMINAIRIES LAB	2	2	
	IV	ELE 244	MICROPROCESSORS	4	3	
		ELE 244 P	Practical - MICROPROCESSORS	2	2	
		ET ELE 244	SOLID STATE LIGHTING APPLICATION	4	3	
		ET ELE 244 P	Practical - SSL TESTING	2	2	
		ET ELE 245	SOLAR PHOTO VOLTAIC TECHNOLOGY	4	3	
III	V	ELE 355	MICROCONTROLLER AND INTERFACING	3	3	
		ELE 355 P	Practical - MICROCONTROLLER AND INTERFACING	3	3	
		ELE 356	COMMUNICATION SYSTEMS	3	3	
		ELE 356 P	Practical - COMMUNICATION SYSTEMS	3	2	
		ELE 357	POWER ELECTRONICS	3	3	
		ELE 357 P	Practical - POWER ELECTRONICS	3	2	
		ELE 358	RENEWABLE ENERGY SOURCES	3	3	
		ELE 358 P	Practical - RENEWABLE ENERGY SOURCES LAB	3	2	
	VI	INTERNSHIP				

A. Salim Khan
 HOD, Electronics
 Chairman, BOS

Andhra Loyola College (Autonomous) : Vijayawada

B. Sc., Maths, Statistics & Computer Science (Artificial Intelligence)

Structure and Syllabus

Semester	Paper	Subject	Hrs	Credits	IA	ES	Total
FIRST YEAR							
Semester I	1	Programming using C	4	3	50	50	100
		C programming Lab	3	2	50	50	100
	2	Application Based programming in Python	4	3	50	50	100
		Python Lab	3	2	50	50	100
Semester II	3	Introduction to AI & ML	4	3	50	50	100
		Machine Learning in Python	3	2	50	50	100
	4	Database Management Systems	4	3	50	50	100
		MySQL Lab	3	2	50	50	100
SECOND YEAR							
Semester III	5	Pattern Recognition	4	3	50	50	100
		Lab	3	2	50	50	100
	6	Applied Machine learning	4	3	50	50	100
		Lab	3	2	50	50	100
	7	Modern Algorithm Design	4	3	50	50	100
		Lab	3	2	50	50	100
	8	Object Oriented Programming with Java	4	3	50	50	100
		Lab	3	2	50	50	100
Semester IV	9	Theoretical ML	4	3	50	50	100
		Lab	3	2	50	50	100
	10	Statistical ML	4	3	50	50	100
		Lab	3	2	50	50	100
	11	Advanced AI & ML	4	3	50	50	100
		Lab	3	2	50	50	100
12	Digital Computer Organization & Introduction to Computer System Architecture	4	3	50	50	100	
	Lab	3	2	50	50	100	

THIRD YEAR								
Semester V	13	Deep learning	3	3	50	50	100	
		Lab						
	14	Advanced Computer Vision	3	2	50	50	100	
		Lab						
	15	Natural language processing (NLP)	3	2	50	50	100	
		Lab						
	16	Principles of Operating Systems	3	3	50	50	100	
		Lab						
	17	Software Engineering	3	3	50	50	100	
		Lab						
	Semester VI	18	Robotics	3	2	50	50	100
			Lab					
19		Expert systems	3	2	50	50	100	
		Lab						
20		Intelligent Agents	3	2	50	50	100	
		Lab						
21		Data Structures	3	2	50	50	100	
		Lab						
22 Cluster A		1. Foundations of Data Science	3	3	50	50	100	
		2. Big Data Technology						
		3. Computer for Data Analytics						
		Lab	3	2	50	50	100	
22 Cluster B		1. Distributed System	3	3	50	50	100	
		2. Cloud Computing						
		3. Grid Computing						
		Lab	3	2	50	50	100	
22 Cluster C		1. Computer Network	3	3	50	50	100	
		2. Android Programming						
	3. Multimedia Application							

		Lab	3	2	50	50	100
		Project		3	50	50	100

Andhra Loyola College (Autonomous) : Vijayawada

B. Sc., Maths, Statistics & Computer Science (Big Data Analytics)

Structure and Syllabus

Semester	Paper	Subject	Hrs	Credits	IA	ES	Total
FIRST YEAR							
Semester I	1	Programming using C	4	3	50	50	100
		C programming Lab	3	2	50	50	100
	2	Database Management Systems	4	3	50	50	100
		MySQL lab	3	2	50	50	100
Semester II	3	Data Visualization	4	3	50	50	100
		Tableau Lab	3	2	50	50	100
	4	Big Data Analytics	4	3	50	50	100
		Hadoop Lab	3	2	50	50	100
SECOND YEAR							
Semester III	5	Big data Analysis	4	3	50	50	100
		Lab	3	2	50	50	100
	6	Big data Storage	4	3	50	50	100
		Lab	3	2	50	50	100
	7	Object Oriented Programming with Java	4	3	50	50	100
		Lab	3	2	50	50	100
Semester IV	8	Hadoop & Data Analytics	4	3	50	50	100
		Lab	3	2	50	50	100
	9	Big data Ingestion	4	3	50	50	100
		Lab	3	2	50	50	100
	10	Digital Computer Organization & Introduction to Computer System Architecture	4	3	50	50	100
		Lab	3	2	50	50	100

THIRD YEAR							
Semester V	11	Enterprise reporting using IBM Cognos BI	3	3	50	50	100
		Lab					
	12	BDA Programming	3	2	50	50	100
		Lab					
	13	Principles of Operating Systems	3	2	50	50	100
		Lab					
14	Software Engineering	3	3	50	50	100	
	Lab						
Semester VI	15	SAP – ABAP with SD Module	3	3	50	50	100
		Lab					
	16	Virtualization and Cloud Computing	3	2	50	50	100
		Lab					
	17	Big data Security	3	2	50	50	100
		Lab					
	18	Applied Data Science	3	2	50	50	100
		Lab					
	19	Data Structures	3	2	50	50	100
		Lab					
	20 Cluster A	1. Foundations of Data Science	3	3	50	50	100
		2. Big Data Technology					
		3. Computer for Data Analytics					
		Lab	3	2	50	50	100
	20 Cluster B	1. Distributed System	3	3	50	50	100
		2. Cloud Computing					
		3. Grid Computing					
		Lab	3	2	50	50	100
20 Cluster C	1. Computer Network	3	3	50	50	100	
	2. Android Programming						
	3. Multimedia Application						
	Lab	3	2	50	50	100	

	Project		3	50	50	100
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2019-20

2019-20					
DEPARTMENT		BBA(GEN)			
SEM	CORE/ Foundation Course (FC) / Certificate Course	COURSE CODE	COURSE TITLE	No. of Hrs/ W	No. of Credi ts
I	Core - Theory	BBA-111POM	Principles of Management	5	4
	Core - Theory	BBA-112ECSR	Ethics and Corporate Social Responsibility	5	4
	Core - Theory	BBA-113BS	Business Statistics	5	4
	Core - Theory	BBA-114HM	Hotel Management	5	2
	Core - Theory	BBA-115BO	Business Organization	5	4
	Core - Theory	BBA-116FIT	Fundamentals of Information Technology	5	3
II	Core - Theory	BBA-121ME	Managerial Economics	5	4
	Core - Theory	BBA-122AFM	Accounting for Managers	5	4
	Core - Theory	BBA-123BE	Business Environment	5	4
	Core - Theory	BBA-124TM	Tourism Management	5	4
	Core - Theory	BBA125 ECHTML	E-Commerce	2	2
	Core - Lab		HTML	3	2
III	Core 3 - Theory	BBA 231 BCRW	Business Correspondence and Report Writing	5	4
	Core 3 - Theory	BBA 232 BM	Bank Management	5	4
	Core 3 - Theory	BBA 233 BR	Business Research	5	4
	Core 3 - Theory	BBA 234 MA	Management Accounting	5	4
	Core 3 - Theory	BBA 235 OB	Organizational Behaviour	5	4
IV	Core 4 - Theory	BBA 241 EM	Event Management	5	4
	Core 4 - Theory	BBA 242 HRM	Human Resource Management	5	4
	Core 4 - Theory	BBA 243 MM	Marketing Management	5	4
	Core 4 - Theory	BBA 244 FM	Financial Management	5	4
	Core 4 - Theory	BBA 245 PM	Production Management	5	4

	GE If any		Analytical Skills		
V	Core 5 - Theory	BBA351IB	International Business	5	4
	Core 5 - Theory	BBA352BL	Business Laws	5	4
	Core 5 - Theory	BBA353TX	Taxation	5	4
	Core 5 - Theory	BBA354LSCM	Logistics and Supply Chain Management	5	4
	Core 5 - Theory	BBA355BM	Brand Management	5	4
	Core 5 - Theory	BBA356GHRM	Elective-HR (Global Human Resource Management)	5	4
	Core 5 - Theory	BBA356TD	Elective-HR (Training and Development)	5	4
	Core 5 - Theory	BBA357SM	Elective-MARKETING (Marketing of Services)	5	4
	Core 5 - Theory	BBA357RM	Elective-MARKETING (Retail Marketing)		
VI	Core 6 - Theory	BBA361BS	Business Strategy	5	4
	Core 6 - Theory	BBA362MSE	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	BBA365SDM	Sales and Distribution Management	5	4
	Core 6 - Theory	BBA366TM	Elective-HR (Talent Management)	5	4
	Core 6 - Theory	BBA366IR	Elective-HR (Industrial Relations)	5	4
	Core 6 - Theory	BBA367AMM	Elective-MARKETING (Advertising and Media Management)	5	4
	Core 6 - Theory	BBA367GM	Elective-MARKETING (Global Marketing)	5	4

Md. Shabana Begum

Md. Shabana Begum
Head, Dept of BBA
Chairman-BOS

Department		AVIATION MANAGEMENT		I, III & V SEMESTERS : 2019-20		
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 -	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
		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 Emergencies	5	4

Department		AVIATION MANAGEMENT		II/IV/VI SEMESTERS : 2019-20			
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	

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



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Dept. of Paramedical & Health Admin

Andhra Loyola Colleg

(AUTONOMOUS)

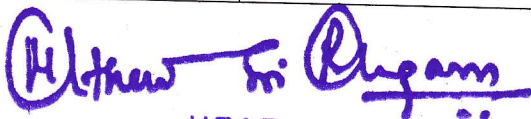
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Andhra Loyola College: Vijayawada (Autonomous)

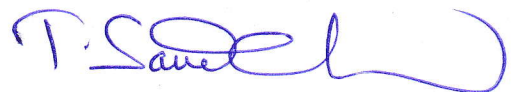
Course Structure-Paramedical and Hospital Administration

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.



Department	B.Sc H&HA		I, III & V SEMESTERS : 2019-20				
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
				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 : 2019-20				
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	

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

SNo	SEM	Course Code	Course Title	Hours/Week	Credits
1	I	MAT112RA	REAL ANALYSIS	4	4
2	I	MAT113DE	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	II	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
8		MAT121SC	SEMINAR COURSE	2	2
9	II	MAT121GE (VR)	GENERAL ELECTIVE (VERBAL REASONING)	2	2

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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	III	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

Madhan

ANDHRA LOYOLA COLLEGE (Autonomous):: VIJAYAWADA-8

DEPARTMENT OF PHYSICS

M.Sc. COURSE STRUCTURE (UNDER CBCS) (2019-20)

Subjects	SEM I		SEM II		SEM III		SEM IV	
	Hrs/W	Credits	Hrs/W	Credits	Hrs/W	Credits	Hrs/W	Credits
Foundation courses								
Subject related FC	4	2						
Core Papers								
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+3	4+2
Core 3	4+3	4+2	4+3	4+2	4+3	4+2	4+3	4+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				
Research Oriented Course					3	3	3	3
Project Work/Industry Internship					To be done during summer vacation between II and III Semesters			5
Hrs/W(Academic Credits)	36	28	36	28	36	31	36	36
Extension Activities (Non Academic Credits) ALANA				2				
OVERALL CREDITS					125			

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ANDHRA LOYOLA COLLEGE (Autonomous):: VIJAYAWADA-8

DEPARTMENT OF PHYSICS

M.Sc. COURSE STRUCTURE (UNDER CBCS) (2019-20)

ACADEMIC FRAMEWORK FOR PG COURSE IN SCIENCES (NON-PROFESSIONAL)				
Name of the Program Courses	Semester 1	Semester 2	Semester 3	Semester 4
Foundation courses				
1. Subject related FC	Concepts for Physicists			
2. Extension activity				
Core Courses				
1.	Mathematical Methods for Physicists	Statistical Mechanics	Atomic Physics	Molecular Physics
2.	Classical Mechanics	Advanced Quantum Mechanics	Nuclear Physics	Particle Physics
3.	Quantum Mechanics	Solid State Physics	Properties of Solids	Advances in materials Science
4.	Electronics	EM Theory Lasers and Optics		
Skill based subject elective-I			Glass Science and Technology/Thin film technology	Analytical Techniques/Solar energy & Photovoltaic Aspects
Skill based subject elective-II			Dielectrics , Ferroelectrics & High Temperature Super Conductors/ Radiation Physics	C-Programming and Computational Methods/ Renewable Energy
Seminar Course		Seminar		
General Electives (Interdisciplinary courses)	Physics of everyday life/ Medical Imaging Techniques	Radiation Hazards, Evaluation and Control/ Energy Management		
Research oriented Courses			Material Science *	Material Science *
Project Work/Industry Immersion module				
Final Credits	36+28	36+28	36+31	36+31+5+2

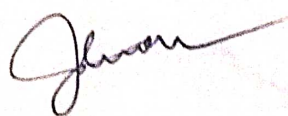
J. S. Rao

ANDHRA LOYOLA COLLEGE (Autonomous):: VIJAYAWADA-8

DEPARTMENT OF PHYSICS-SEMESTER I

M.Sc. COURSE STRUCTURE (UNDER CBCS) (2019-20)

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-I	General Physics-I	3	2	50	50	100
8	Practical-II	General Physics-II	3	2	50	50	100
9	Practical-III	General Electronics	3	2	50	50	100
10	Practical-IV	Digital Electronics	3	2	50	50	100
			36	28	550	450	1000



ANDHRA LOYOLA COLLEGE (Autonomous) - VIJAYAWADA-8

DEPARTMENT OF PHYSICS

SEMESTER II

M.Sc, Physics - Course Structure w.e.f (2019-2020)

S. No.	Course	Title	Hours/week	No of Credits	CIA	SE	Total
1	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/Radiation Hazards Evaluation & Control	4	2	50	50	100
7	Practical-I	Advanced Physics & Optics Lab-I	3	2	50	50	100
8	Practical-II	Advanced Physics & Optics Lab-II	3	2	50	50	100
9	Practical-III	Operational Amplifiers-I	3	2	50	50	100
10	Practical-IV	Operational Amplifiers-II	3	2	50	50	100
11	Extension Activity	Lab to School/School to Lab	45(Off campus)	2			
			36	30	500	500	1000

Janani

ANDHRA LOYOLA COLLEGE (Autonomous) :: VIJAYAWADA-8
DEPARTMENT OF PHYSICS
M.Sc, Physics - Course Structure w.e.f (2019-2020)
SEMESTER III

S.No	Course	Title	Hours /week	No of Credits	CIA	SE	Total
1	Core Course	Atomic Physics	4	4	50	50	100
2	Core Course	Nuclear Physics	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
6	Practical-I	Material Science Lab-I	3	2	50	50	100
7	Practical-II	Material Science Lab-II	3	2	50	50	100
8	Practical-III	Preparation and Characterisation of Binary glass Lab	3	2	50	50	100
9	Practical-IV	Micro Processor Lab-I	3	2	50	50	100
10	Practical-V	Micro Processor Lab-II	3	2	50	50	100
11	Research Oriented Course	Material Science	3	3	50	50	100
			36	31	550	550	1100

J. Srinivas

ANDHIRA LOYOLA COLLEGE (Autonomous) :: VIJAYAWADA-8
DEPARTMENT OF PHYSICS
M.Sc, Physics - Course Structure w.e.f (2019-2020)
SEMESTER-IV

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	Particle Physics	4	4	50	50	100
3	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
5	Skill Based Electives	Computational Methods & programming/Renewable Energy	3	3	50	50	100
6	Practical-I	C-Programming Lab	3	2	50	50	100
7	Practical-II	Numerical Methods & Programming Lab	3	2	50	50	100
8	Practical-III	Condensed Matter Physics Lab-I	3	2	50	50	100
9	Practical-IV	Condensed Matter Physics Lab-II	3	2	50	50	100
10	Practical-V	Thermodynamic & Thermoacoustic Properties of materials Lab	3	2	50	50	100
11	Research Oriented Course	Material Science	3	3	50	50	100
			36	31	550	550	1100

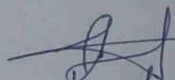
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2019-20

DEPARTMENT					
SEM	CORE/ Foundation Course (FC) / Certificate Course	COURSE CODE	COURSE TITLE	No.of Hrs/W	No. of Credits
I	Core 1 - Theory	CHE111GC	General chemistry	4	4
	Core 1 - Lab	CHE111(P1)	General chemistry practical	3	2
	Core 2- Theory	CHE112IC	Inorganic chemistry	4	4
	Core 2-Lab	CHE112(P2)	Inorganic chemistry practical	3	2
	Core 3- Theory	CHE113OC	Organic chemistry	4	4
	Core 3-Lab	CHE113(P3)	Organic chemistry Practical	3	2
	Core 4- Theory	CHE114PC	Physical chemistry	4	4
	Core 4-Lab	CHE114(P4)	Physical chemistry Practical	3	2
	FC	CHE111FC	Introduction to concepts of chemistry	4	2
	GE	CHE111GE(EC)	Environmental chemistry	4	2
II	Core 1 - Theory	CHE121GC	General chemistry	4	4
	Core 1 - Lab	CHE121(P1)	Organic chemistry Practical -2A	3	2
	Core 2- Theory	CHE122IC	Inorganic Chemistry	4	4
	Core 2-Lab	CHE122(P2)	Inorganic chemistry practical -2	3	2
	Core 3- Theory	CHE123OC	Organic Chemistry	4	4
	Core 3-Lab	CHE123(P3)	Organic Chemistry Practical -2B	3	2
	Core 4- Theory	CHE124PC	Physical Chemistry	4	4
	Core 4-Lab	CHE124(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
	Core 1 - Theory	CHE231OS	Organic Synthesis -1	4	4

[Signature]
Head of the Department

III	Core 1 - Lab	CHE231(P1)	Three step synthesis	3	2
	Core 2- Theory	CHE232OR	Oxidations ,Reductions & Hetrocyclic Chemistry	4	4
	Core 2-Lab	CHE232(P2)	Analysis of organic binary mixture	3	2
	Core 3- Theory	CHE233MR	Molecular rearrangements,pericyclic reactions and photo chemistry	4	4
	Core 3-Lab	CHE233(P3)	Estimation of organic compounds	3	2
	SBSE 1-Theory	CHE234OS	Organic spectroscopy-1	3	3
	SBSE 1-lab	CHE234(P4)	Spectral Charecterisation of Organic Compounds	3	2
	SBSE 2-Theory	CHE235PA	Pharmaceutical Analysis	3	3
	SBSE 2-lab	CHE235(P5)	Pharmaceutical Analysis Practical	3	2
	Project work	CHE231SP	Summer Project	-	4
ROC	CHE231ROC	Research Oriented Course	3	3	
IV	Core 1 - Theory	CHE241OS	Organic synthesis-2	4	4
	Core 1 - Lab	CHE241FS(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 and antibiotics	4	4
	Core3-Lab	CHE243EO(P3)	Estimation of organic compounds	3	2
	SBSE 1-Theory	CHE244OS	Organic Spetroscopy-2	3	3
	SBSE 1-lab	CHE244SC(P4)	Spectral Charecterisation of Organic Compounds	3	2
	SBSE 2-Theory	CHE245IM	Instrumental method of analysis	3	3
	SBSE 2-lab	CHE245IM(P5)	Instrumental method of analysis practical	3	2
ROC	CHE241ROC	Research Oriented Course	3	3	


 Head of the Department
 P.G. - Chemistry

ANDHRA LOYOLA COLLEGE (AUTONOMOUS): VIJAYAWADA

DEPARTMENT: M.Sc BIOTECHNOLOGY

ACADEMIC YEAR - 2019-20

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

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

Y. Kavitha.

ANDHRA LOYOLA COLLEGE (AUTONOMOUS): VIJAYAWADA

DEPARTMENT: M.Sc BIOTECHNOLOGY

ACADEMIC YEAR - 2018-19

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

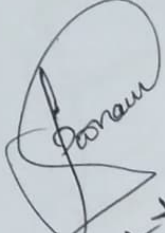
Semester 3				
Course Type	Title of the Course	COURSE CODE	Hrs/W	No. of Credits
Core course I	Genetic Engineering	BTY231GE	4	4
Core course II	Immunology And Immunotechnology	BTY232IT	4	4
Core course III	Genomics And Proteomics	BTY233GP	4	4
Core course IV	Industrial Biotechnology	BTY234IB	4	4
Core course 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 Immuno 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 Management 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

V. Kavitha.

YEAR 2019-2020

SEMESTER I

Sl. No	Subject Code	Subject Title	Internal Marks	External Marks	Total Marks	Hours Per Week	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

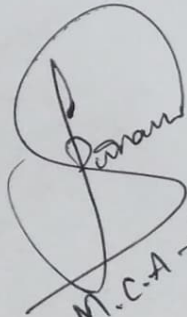

MCA-HOD

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

YEAR-2019-2020

SEMESTER II

Sl. No	Subject Code	Subject Title	Internal Marks	External Marks	Total Marks	Hours Per Week	No. of Credits/Week
1	Foundation Course	Communication Skills	50	50	50	----	2
2	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
Total			450	450	900	36	30


 M.C.A. - HoD

SEMESTER -III

Sl. No	Subject Code	Subject Title	Internal Marks	External Marks	Total Marks	Hours Per Week	No. of Credits/ 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
Total			350	400	750	35	28

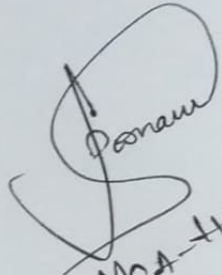
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MCA-400

SEMESTER IV

Sl. No	Subject Code	Subject Title	Internal Marks	External Marks	Total Marks	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
5	MCA405.117	Enterprise Resource Planning					
	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
Total			350	400	750	35	28

SEMESTER V

Sl. No	Subject Code	Subject Title	Internal Marks	External Marks	Total Marks	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
5	MCA505.117	Robotics					
	MCA505.217	IoT					
	MCA505.317	Block Chain Technologies					
	MCA505.417	Cyber Crimes and Cyber Laws					
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
Total			350	400	750	35	28


 MCA-101D

SEMESTER VI

Major Project: Credits

Objectives:

1. To explore the knowledge of students in technical domain and application domain.
0. To get an experience to develop software in the corporate domain.


M.C.A. - HoD

Minutes of the meeting of Board of
Studies in MBA Department held on 18.03.19
at 3:00 p.m

Members:

1. REV. Fr. Dr. G. A. P. Kishore, S.J., Principal
2. REV. Fr. Dr. A. Rex Angelo, S.J., Vice-principal (PG)

University Nominee:

3. Dr. CH. Jaya Sankara Prasad

External Nominee:

4. Dr. B. Syam Sundar
5. Dr. N. A. Francis Xavier

Faculty:

6. Mrs. N. Bharathi N. Bharathi
7. Dr. A. Madhuri A. Madhuri
8. Dr. S. Portina Prabhat
9. Dr. B. G. K. Murthy B. G. K. Murthy
10. Mrs. CH. Varalakshmi ch. varalakshmi
11. Mrs. N. Srinani N. Srinani
12. Ms. CH. Indira Priyadarshini CH. Indira Priyadarshini

MINUTES

The meeting of board of studies of department of MBA was held on March 18th 2019 at 2:30 pm in the departmental staff-room.

After a thorough discussion the following resolutions were passed unanimously.

- It is resolved to follow the proposed course structure under autonomy for MBA course for the students admitted from the academic year 2019-20 onwards as attached here under.

COURSES	SEMESTER I	SEMESTER II	SEMESTER III	SEMESTER IV
FOUNDATIO N COURSE-- BUSINESS FUNDAMEN TALS	4(2)(AFTER COLLEGE HOURS)			
Extension Activity		45(2) (AFTE R 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	----	----	-----	-----
Communi cation Skills	---	----	---	

General Electives	4(2)	4(2)		
Generic Electives			3(2)	3(2)
Research oriented course				
Project viva voce/ comprehensive viva voce/			0(2)	0(4)
Total credits	36(29)	36(29)	36(31)	36(33)

**SCHEME OF TEACHING AND EXAMINATION
MASTER OF BUSINESS ADMINISTRATION (MBA)
CHOICE BASED CREDIT SYSTEM (CBCS) W.E.F 2019-20**

Code	Courses	Lecture /week	Elective	Internal Marks	External Marks	No.of Credits
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	0		50	50	2
MBA 109	General Elective I	4	-	50	50	2
MBA 110	Extension Activity	-	-	-	-	-
Total for First Semester		36	-	450	450	29

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
Total for II Semester		36	-	500	500	29

2. It is resolved to introduce an additional paper "legal frame work for business" in the first semester for the first MBA from the academic year 2019-20 onwards.
3. It is resolved to introduce an additional paper "Project management" in the second semester for the first MBA from the academic year 2019-20 onwards.
4. It is resolved to introduce the following general electives for the academic year 2019-20 as follows
 - a) Emotional intelligence and managerial effectiveness for first semester
 - b) Critical thinking and problem solving for second semester
5. It is resolved to follow the proposed syllabus and question paper pattern for the new subjects as attached.



DR.B.G.K.MURTHY,
HOD DEPARTMENT OF MBA,
CHAIRMAN, BOARD OF STUDIES