



Re-Accredited 'B++' 2.86 CGPA by NAAC

VEER NARMAD SOUTH GUJARAT UNIVERSITY

University Campus, Udhna-Magdalla Road, SURAT - 395 007, Gujarat, India.

વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી

યુનિવર્સિટી કેમ્પસ, ઉદ્ધના-મગદલ્લા રોડ, સુરત - ૩૯૫ ૦૦૭, ગુજરાત, ભારત.

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સંદર્ભ: યુનિવર્સિટી કાર્યાલયના તા.૨૧-૦૭-૨૦૨૩, ક્રમાંક : એસ./સાયન્સ/પરિપત્ર/૧૮૯૬૩/૨૦૨૩

-: પરિપત્ર :-

વિજ્ઞાન વિદ્યાશાખા હેઠળની સંલગ્ન તમામ કોલેજોનાં આચાર્યશ્રીઓને તથા વિભાગીય વડાશ્રીને જણાવવાનું કે, શૈક્ષણિક વર્ષ ૨૦૨૩-૨૪ થી અમલમાં આવનાર શિક્ષણ વિભાગના રાજ્યની તમામ ઉચ્ચ શૈક્ષણિક સંસ્થાઓ માટે રાષ્ટ્રીય શિક્ષણનીતિ ૨૦૨૦ અંતર્ગત કોમન કરીક્યુલમ એન્ડ ક્રેડિટ ફ્રેમવર્ક હેઠળ ક્રેડિટ માળખું અમલીકરણ માટે નિયત કરવા બાબત અંગેના તા.૧૧/૦૭/૨૦૨૩, ઠરાવ ક્રમાંક:KCG/admin /2023 24/0607/kh.1 અનુસાર ગુજરાત સરકારની તા.૨૬/૦૭/૨૦૨૩ની SOP મુજબ સ્ટ્રક્ચર અંગે વિચારણા કરતા વિજ્ઞાન વિદ્યાશાખાની તા.૦૨/૦૮/૨૦૨૩ની સભાનાં ઠરાવ ક્રમાંક: ૨ અન્વયે કરેલ ભલામણ એકેડેમિક કાઉન્સિલની તા.૧૭/૦૮/૨૦૨૩ની સભાનાં ઠરાવ ક્રમાંક: ૨ થી મંજૂર કરેલ છે. જેનો અમલ કરવા આથી જાણ કરવામાં આવે છે.

વિજ્ઞાન વિદ્યાશાખાની તા.૦૨/૦૮/૨૦૨૩ની સભાનાં ઠરાવ ક્રમાંક: ૨

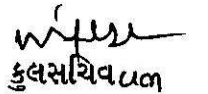
:: આથી ઠરાવવામાં આવે છે કે, શૈક્ષણિક વર્ષ ૨૦૨૩-૨૪ થી શિક્ષણ વિભાગના રાજ્યની તમામ ઉચ્ચ શૈક્ષણિક સંસ્થાઓ માટે રાષ્ટ્રીય શિક્ષણનીતિ ૨૦૨૦ અંતર્ગત કોમન કરીક્યુલમ એન્ડ ક્રેડિટ ફ્રેમવર્ક હેઠળ ક્રેડિટ માળખું અમલીકરણ માટે નિયત કરવા બાબત અંગેના તા.૧૧/૦૭/૨૦૨૩, ઠરાવ ક્રમાંક:KCG/admin/2023-24/0607/kh.1 અનુસાર તથા ગુજરાત સરકારના શિક્ષણ વિભાગ, Dt.26-07-2023, SOP મુજબ વિજ્ઞાન વિદ્યાશાખાનું Single Major & Double Major નું સ્ટ્રક્ચર મંજૂર કરવા એકેડેમિક કાઉન્સિલને ભલામણ કરવામાં આવે છે.

એકેડેમિક કાઉન્સિલની તા.૧૭/૦૮/૨૦૨૩ની સભાનાં ઠરાવ ક્રમાંક: ૨

:: આથી ઠરાવવામાં આવે છે કે, વિજ્ઞાન વિદ્યાશાખા તા.૨/૦૮/૨૦૨૩ ની સભાનાં ઠરાવ ક્રમાંક: ૨ અન્વયે કરેલ ભલામણ સ્વીકારી મંજૂર કરવામાં આવે છે.

(બિડાણ :ઉપર મુજબ)

ક્રમાંક : એસ./સાયન્સ/પરિપત્ર/૨૧૪૬૦/૨૦૨૩
તા.૧૮-૦૮-૨૦૨૩


કુલસચિવ UC

પ્રતિ,

૧) વિજ્ઞાન વિદ્યાશાખા હેઠળની સંલગ્ન તમામ કોલેજોનાં આચાર્યશ્રીઓ/વિભાગીય વડાશ્રીઓ.

..... આપશ્રીની કોલેજ/વિભાગના સંબંધિત શિક્ષકોને જાણ કરી અમલ કરવા સારું.

૨) અધ્યક્ષશ્રી, વિજ્ઞાન વિદ્યાશાખા.

૩) પરીક્ષા નિયામકશ્રી, પરીક્ષા વિભાગ, વીર નર્મદ દ. ગુ. યુનિવર્સિટી, સુરત.

૪) એકેડેમિક વિભાગ, વીર નર્મદ દ. ગુ. યુનિવર્સિટી, સુરત.

.....તરફ જાણ તેમજ અમલ સારું.

A1 - New Credit Frame Work as per the NEP for Three/Four Years UG Degree (Honours) without OJT

Semester	Major (MJ)		Minor Elective (ME)		Multi-disciplinary (MDC)	AEC	SEC	VAC	Internship	Total Credit
	Theory	Practical	Theory	Practical	T/(T+P)	-----	T/P/(T+P)	-----	-----	-----
1	3+3	1+1	2	2	4/(2+2)	2	2/2/(1+1)	2	-----	22
2	3+3	1+1	2	2	4/(2+2)	2	2/2/(1+1)	2	-----	22
3	2+2+2	2+2+2	0	0	4/(2+2)	2	2/2/(1+1)	2	-----	22
4	2+2+2	2+2+2	2	2	-	2	2/2/(1+1)	2	-----	22
5	2+2+2	2+2+2	2+2	2+2	-	-	2/2/(1+1)	-	-----	22
6	2+2+2	2+2+2	2	2	-	2	-	-	4	22
Total Credit	36	28	12	12	12	10	10	8	4	132
	64		24							
7	2+2+2+2	2+2+2+2	2+2	2	-	-	-	-	-----	22
8	2+2+2+2	2+2+2+2	2+2	2	-	-	-	-	-----	22
Total Credit	52	44	20	16	12	10	10	8	4	176
	96		36							

Note: For Theory; 1 credit = 1 hr. and for Practical; 1 credit = 2 hr.

A2 – Double Major Credit Frame Work as per the NEP for Three/Four Years UG Degree (Honours) without OJT

Semester	Major (MJ)-01		Minor Elective (ME)		Major (MJ)-02		Multi-disciplinary (MDC)	AEC	SEC	VAC	Internship	Total Credit
	Theory	Practical	Theory	Practical	Theory	Practical	T/(T+P)	----	T/P/(T+P)	----	-----	-----
1	3+3	1+1	2	2	3+3	1+1	4/(2+2)	2	2/2/(1+1)	2	-----	22+8=30
2	3+3	1+1	2	2	3+3	1+1	4/(2+2)	2	2/2/(1+1)	2	-----	22+8=30
3	2+2+2	2+2+2	0	0	2+2+2	2+2	4/(2+2)	2	2/2/(1+1)	2	-----	22+10=32
4	2+2+2	2+2+2	2	2	2+2+2	2+2+2	-	2	2/2/(1+1)	2	-----	22+12=34
5	2+2+2	2+2+2	2+2	2+2	2+2	2+2	-	-	2/2/(1+1)	-	-----	22+8=30
6	2+2+2	2+2+2	2	2	2+2	2+2	-	2	-	-	4	22+8=30
Total Credit	36	28	12	12	32	22	12	10	10	8	4	132+54=
	64		24		54							186
7	2+2+2+2	2+2+2+2	2+2	2	2+2	2+2	-	-	-	-	-----	22+8=30
8	2+2+2+2	2+2+2+2	2+2	2	2+2	2+2	-	-	-	-	-----	22+8=30
Total Credit	52	44	20	16	40	30	12	10	10	8	4	176+70=
	96		36		70							246

Note: For Theory; 1 credit = 1 hr. and for Practical; 1 credit = 2 hr.

B1 - New Credit Frame Work as per the NEP for Three/Four Years UG Degree (Honours) with OJT

Semester	Major (MJ)		Minor Elective (ME)		Multi-disciplinary (MDC)	AEC	SEC	VAC	Internship	On the Job Training	Total Credit
	Theory	Practical	Theory	Practical	T/(T+P)	----	T/P/(T+P)	----	-----	---	-----
1	3+3	1+1	2	2	4/(2+2)	2	2/2/(1+1)	2	-----	---	22
2	3+3	1+1	2	2	4/(2+2)	2	2/2/(1+1)	2	-----	---	22
3	2+2+2	2+2+2	0	0	4/(2+2)	2	2/2/(1+1)	2	-----	---	22
4	2+2+2	2+2+2	2	2	-	2	2/2/(1+1)	2	-----	---	22
5	2+2+2	2+2+2	2+2	2+2	-	-	2/2/(1+1)	-	-----	---	22
6	2+2+2	2+2+2	2	2	-	2	-	-	4	---	22
Total Credit	36	28	12	12	12	10	10	8	4	---	132
	64		24								
7	2+2+2	2+2+2	2	2	-	-	-	-	-	6	22
8	2+2+2	2+2+2	2	2	-	-	-	-	-	6	22
Total Credit	48	40	16	16	12	10	10	8	4	12	176
	88		32								

Note: For Theory; 1 credit = 1 hr. and for Practical; 1 credit = 2 hr.

B2 – Double Major Credit Frame Work as per the NEP for Three/Four Years UG Degree (Honours) with OJT

Semester	Major (MJ)-01		Minor Elective (ME)		Major (MJ)-02		Multi-disciplinary (MDC)	AEC	SEC	VAC	Intern-ship	On the Job Training	Total Credit
	Theory	Practical	Theory	Practical	Theory	Practical	T/(T+P)	----	T/P/(T+P)	----	-----		-----
1	3+3	1+1	2	2	3+3	1+1	4/(2+2)	2	2/2/(1+1)	2	-----		22+8=30
2	3+3	1+1	2	2	3+3	1+1	4/(2+2)	2	2/2/(1+1)	2	-----		22+8=30
3	2+2+2	2+2+2	0	0	2+2+2	2+2	4/(2+2)	2	2/2/(1+1)	2	-----		22+10=32
4	2+2+2	2+2+2	2	2	2+2+2	2+2+2	-	2	2/2/(1+1)	2	-----		22+12=34
5	2+2+2	2+2+2	2+2	2+2	2+2	2+2	-	-	2/2/(1+1)	-	-----		22+8=30
6	2+2+2	2+2+2	2	2	2+2	2+2	-	2	-	-	4		22+8=30
Total Credit	36	28	12	12	32	22	12	10	10	8	4		132+54=186
	64		24		54								
7	2+2+2	2+2	2+2	2	2+2	2+2	-	-	-	-	-----	6	22+8=30
8	2+2+2	2+2	2+2	2	2+2	2+2	-	-	-	-	-----	6	22+8=30
Total Credit	48	36	20	16	40	30	12	10	10	8	4	12	176+70=246
	84		36		70								

Note: For Theory; 1 credit = 1 hr. and for Practical; 1 credit = 2 hr.

C1 - New Credit Frame Work as per the NEP for Three/Four Years UG Degree (Honours with Research)

Semester	Major (MJ)		Minor Elective (ME)		Multi-disciplinary (MDC)	AEC	SEC	VAC	Internship	Research Project/ Dissertation	Total Credit
	Theory	Practical	Theory	Practical	T/(T+P)	---	T/P/(T+P)	----	-----	-----	-----
1	3+3	1+1	2	2	(2+2)/(1+1) +(1+1)	2	2/2/ (1+1)	2	-----	-	22
2	3+3	1+1	2	2	(2+2)/(1+1) +(1+1)	2	2/2/ (1+1)	2	-----	-	22
3	2+2+2	2+2+2	0	0	(2+2)/(1+1) +(1+1)	2	2/2/ (1+1)	2	-----	-	22
4	2+2+2	2+2+2	2	2	-	2	2/2/ (1+1)	2	-----	-	22
5	2+2+2	2+2+2	2+2	2+2	-	-	2/2/ (1+1)	-	-----	-	22
6	2+2+2	2+2+2	2	2	-	2	-	-	4	-	22
Total Credit	36	28	12	12	12	10	10	8	4	-	132
	64		24								
7	2+2+2	2+2+2	2	2	-	-	-	-	-	6	22
8	2+2+2	2+2+2	2	2	-	-	-	-	-	6	22
Total Credit	48	40	16	16	12	10	10	8	4	12	176
	88		32								

Note: For Theory; 1 credit = 1 hr. and for Practical; 1 credit = 2 hr.

C2 – Double Major Credit Frame Work as per the NEP for Three/Four Years UG Degree (Honours With Research)

Semester	Major (MJ)-01		Minor Elective (ME)		Major (MJ)-02		Multi-disciplinary (MDC)	AEC	SEC	VAC	Intern-ship	Research Project/ Dissertation	Total Credit
	Theory	Practical	Theory	Practical	Theory	Practical	T/(T+P)	-----	T/P/(T+P)	-----	-----		-----
1	3+3	1+1	2	2	3+3	1+1	4/(2+2)	2	2/2/(1+1)	2	-----		22+8=30
2	3+3	1+1	2	2	3+3	1+1	4/(2+2)	2	2/2/(1+1)	2	-----		22+8=30
3	2+2+2	2+2+2	0	0	2+2+2	2+2	4/(2+2)	2	2/2/(1+1)	2	-----		22+10=32
4	2+2+2	2+2+2	2	2	2+2+2	2+2+2	-	2	2/2/(1+1)	2	-----		22+12=34
5	2+2+2	2+2+2	2+2	2+2	2+2	2+2	-	-	2/2/(1+1)	-	-----		22+8=30
6	2+2+2	2+2+2	2	2	2+2	2+2	-	2	-	-	4		22+8=30
Total Credit	36	28	12	12	32	22	12	10	10	8	4		132+54=186
	64		24		54								
7	2+2+2	2+2	2+2	2	2+2	2+2	-	-	-	-	-----	6	22+8=30
8	2+2+2	2+2	2+2	2	2+2	2+2	-	-	-	-	-----	6	22+8=30
Total Credit	48	36	20	16	40	30	12	10	10	8	4	12	176+70=246
	84		36		70								

Note: For Theory; 1 credit = 1 hr. and for Practical; 1 credit = 2 hr.

Subject	Major	Minor	Multidisciplinary	SEC	AEC	VAC
F.Y.B.Sc.-Semester-1						
PHYSICS	Physics MJ P 101	Physics MN 101	Mathematical Physics(T&P)	Electrical Circuit And Network Skills (T&P)	English Proficiency And Life Skills -I	Bharatiya Knowledge System - An Introduction (mandatory in 1st Semester)
	PhysicsMJ P 102	Physics Practical	Space Science (T&P)	Printed Circuit Design And Techniqies (T&P)	ગુજરાતી ભાષા સામર્થ્ય અને જીવન કૌશલ્ય -001	Indian Science and Technology
	Physics Practical		Fundamental of EM Radiation (T&P)	Programming 'C' LANGUAGE	Hindi Proficiency And Life Skill	IKS-based Chemistry and Metallurgy
						Indian Economics and Business Model
CHEMISTRY	Chemistry MJ 101	CHE-ME-101(Fundamental of Chemistry-1)	Green And Environmental Chemistry-101T&P	Chemistry Lab Operations And Safety Measures T&P		Ancient Indian Art and Architecture
	Chemistry MJ102	Chemistry Practical				Mathematics in India: from Vedic period to modern times
	Chemistry Practical					Basics of Indian Astronomy
						Introduction to Indian Astronomy
MATHEMETICS	Maths MJ MH 101 (Functions of Complex Variables T&P)	MH-ME-101 (Differential Calculus and Complex Variables)	MH-MLD-101 (Fundamental of Mathematics)	MH-SEC-101 (Fundamental of Vedic Mathematics-I)		
	Maths MJ MH 102(Calculus-I T&P)	Maths Practical	MH-MLD-102 (Elementary Calculus)	MH-SEC-102 (Descriptive Statistics)		
	Maths Practical					

BOTANY	BO-MJ-101 Biodiversity (Microbes, Algae, Fungi & Archegoniate)	BO-ME-101 (Plant Ecology & Taxonomy)	BO-MDC-101 (Environmental Science)	BO-SEC-101-(Natural Resources and Biodiversity)		
	BO-MJ-102 Biology and Diversity of Seed Plants	BOP-ME-I (Practical)	BOP-MDC-I Practical	BO-SEC-101-(Plant Diversity and Human Welfare)		
	BOJ-MJ-1 (Practical)					
ZOOLOGY	ZO-MJ-101 (Non-Chordates and Economic Zoology)	ZO-ME-101 (Non-Chordates and Chordates)	ZO-MDC-101 (Clinical Biology)	ZO-SEC-101-(Human Health and Management)		
	ZO-MJ-102-(Chordates and Hematology)	ZOP-ME-101	ZO-MDC-102 (Economic Zoology and Hematology)	ZO-SEC-102 (Apiculture)		
	ZOP-MJ-101&102		ZOP-MDC-2			
MICROBIOLOGY	MB-MJ-101 (Fundamentals of Microbiology)	MB-ME-101 Eukaryotic Cell Structure	MB-MDC-101 (Environmental Studies)	MB-SEC-101- (Basics of Microbiology Laboratory)		
	MB-MJ-102-(Microscopy and Staining Techniques)	MBP-ME-1 (Practical)	MB-MDC-102-(Microbes in our Life)	MB-SEC-101-Practicals (Basics of Microbiology Laboratory)		
	MBP MJ 1	MB-ME-102-(Essential of Biochemistry)	MB-MDC-102 Practical			
		MBP-ME-1 (Practical)	MB-SEC-201 (Conventional Methods for Identification of Bacteria) (Practical)			

			MB-SEC-202 (Maintenance of Laboratory Equipment)			
MLT	MLT-MJ-101 (Fundamentals of Medical Laboratory Technology)	MLT-ME-101 (Instrumental and Equipments of Mediactal Laboratory)	MLT-MDC-101- (Organization of Clinical Laboratory)	MLT-SEC-101-(Solution Preparation and Laboratory Calculations)		
	MLT-MJ-102- (Human Anatomy)	MLTP-ME-1-(Practical)				
	MLTP-MJ-1 (Practicals)					
BIO-SCIENCE (MICROBIOLOGY)	BM-MJ-101-(Introductions to Microbiology)	BM-MN-I- (Fundamental Microbiology)				
	BM-MJ-102 (Basic Microbial Techniques)	BMP-MN-1(Practical)				
	BMP-MJ-1(Practial)					
Statistics	ST-MJ101 (Descriptiv Statstics-I)	ST-ME-I(Descriptive Statstics-I)	ST MD-I (Elements of Statistics-I)	ST- SEC-I LINEAR PROGRAMMING PROBLEM		
	ST-MJ-102-(Descriptiv Statstics-II)	ST-ME-I-Practicals	ST MD-II (Elements of Statistics -II)	ST- SEC- I - Practicals		
	ST-MJ-101&102 Practicals		ST-MD-I & II -Practicals			
ELECTRONICS	MJ-101-(Basic Electrical Circuits)	MN-101-(Basics of Electronics)	MD-I(Fundamentals of Electronics)	Basics of Repair & Mentenance		

	MJ-102-(Digital Electronics)	MN-102-(Measurement Systems)	MD-II-(Fundamental of Digital Electronics)	Practicals		
	Electronics practicals	Practicals	MD-III-(Electronics for Computer science)			
			MD-IV-(Introduction to Instrumentations System)			
BIOTECHNOLOGY	BT-MJ-101 Introduction to Biotechnology	BT-ME-101 Basics of Biochemistry	BT-MDC-101 Basics Healthcare	BT-SEC-101 Bacteriological Media and Isolation Techniques		
	BT-MJ-102 Cell Biology	BT-ME-102 Ecological Studies	BT-MDC-102 Introduction to Bioinformatics and Databases	BT-SEC-102 Study of Soil Profile		
	BTP-MJ-1 Practical	BTP-ME-1 & 2 Practical				
				Advance Communication Skill- I		
				ગુજરાતી પ્રત્યાયન કૌશલ્ય - 1		
				हिन्दी प्रत्यायन कौशल्य - 1		

F.Y.B.Sc.-Semester-2

PHYSICS	Physics MJ P 201	Physics MN 201	Motion and Force	Advance Communication Skill- II	English Proficiency And Life Skills -II	Indian Science and Technology
	Physics MJ P 202	Physics Practical	Space Science	ગુજરાતી પ્રત્યાયન કૌશલ્ય - 02	ગુજરાતી ભાષા સામર્થ્ય અને જીવન કૌશલ્ય - 02	IKS-based Chemistry and Metallurgy
	Physics Practical		Lasers	हिन्दी प्रत्यायन कौशल्य - II	Hindi Proficiency And Life Skill -II	Indian Economics and Business Model

				Electrical Circuits and Network Skills		Ancient Indian Art and Architecture
				Digital Electrotical		
				Programming in "C" Language		
CHEMISTRY	Chemistry MJ 201	CH-ME-201(Fundamental of Chemistry-1)	CH-MDC-201 Agrochemistry	CH-SEC-201 Chemistry in Practice		Mathematics in India: from Vedic period to modern times
	Chemistry MJ 202	Chemistry Practical	Practical (Soil analysis, Organic and Inorganic Preparation)	Practical (Water analysis Practical)		Basics of Indian Astronomy
	Chemistry Practical					Introduction to Indian Astronomy
MATHEMETICS	Maths MJ MH 201 (Matrix AlgebraT&P)	MH-ME-201 (Integral Calculus and Matrices)	MH-MLD-201 (Matrices and Determinants)	MH-SEC-201 (Fundamentals of Vedic Mathematics-II)		
	Maths MJ MH 202(Calculus-II T&P)	Maths Practical	MH-MLD-202 (Ordinary Differential Equations)	MH-SEC-202 (Mathematical Statistics)		
	Maths Practical					
MLT	MLT-MJ-201 (Laboratory Specimens)	MLT-ME-201 (Laboratory Specimens and Biomedical Waste Management)	MLT-MDC-201-(Nutrition and Health)	MLT-SEC-201-(Clinical Specimen and Record Keeping)		
	MLT-MJ-202- (Laboratory Instruments and Equipments)	MLTP-ME-2-(Practical)		MLT-SEC-202-(Phlebotomy)		
	MLTP-MJ-2 (Practicals)					

BIO-SCIENCE (MICROBIOLOGY)	BM-MJ-201 (Microbial Diversity)	BM-MN-II-(Biology of Microbes)				
	BM-MJ-202 (Microbial Biochemistry)	BMP-MN-2(Practical)				
	BMP-MJ-2(Practical)					
Statistics	ST-MJ201 (Univariate & Bivariate Probability functions and Generating functions)	ST-ME-II(Correlation and Regression)	ST MD-I (Statistics in social science)	ST- SEC-II Demographic Methods		
	ST-MJ-202-(Correlation, Regression and Association of Attributes)	ST-ME-II-Practicals	ST MD-II(Sampling Techniques)	ST- SEC- II - Practicals		
	ST-MJ-201 & 202 Practicals		ST-MD-Practicals			
ELECTRONICS	MJ-201-(Semi Conductor Devices)	MN-201-(Semi Conductor Devices and Logic Circuits)	MD-I(Programming Language for Microcontroller)	SEC- Introduction to Arduino		
	MJ-202-(Network Analysis and Filters)	MN-202-(Sensors, Transducers & Digital Electronics)	MD-II-(Introduction to Python Programming)	Practicals		
	Electronics practicals	Practicals	MD-III-(Combinational Circuit Design)	SEC- Computer Hardware (T & P)		
			MD-IV-(Basics of Networking)	SEC- Basics Computer Soft Skill (T & P)		
			MD-V-(Introduction to Microprocessor 8085 A)	SEC- Data Management & Cyber Sycurity (T & P)		
			MD-VI-(Basic Instrumentation)	SEC- Fundamentals of Logic Circuits Design (T & P)		

			Practicals			
BIOTECHNOLOGY	BT-MJ-201 Biochemistry of Water	BT-ME-201 (Water Footprint)	BT-MDC-201 (Evolutionary Biology)	BT-SEC-201 (Introduction to Staining Techniques)		
	BT-MJ-202 Biomolecules	BT-ME-202 (Introduction to Developmental Biology)	BT-MDC-202 (Environmental Biology and Wildlife)	BT-SEC-202 (Aquarium Fish Rearing)		
	BTP-MJ-2 Practical	BTP-ME- 2 Practical	BT-MDC-203 (Basics of Bioinformatics)	BTP-SEC-201 & 201 (Practical)		
			BT-MDC-204 (Bioinstrumentation)			
MICROBIOLOGY	MB-MJ-201(Microbial Diversity)	MB-ME-201 Biophysics	MB-MDC-201 (Remedies of Environment Pollution)	MB-SEC-201(Conventional Methods for Identification of Bacteria) (Practical)		
	MB-MJ-202-(Bacterial and Archeal cell Structure and Function)	MBP-ME-201 (Practical)		MB-SEC-202 (Maintenance of Laboratory Equipment)		
	MBP MJ 203 Pracial	MB-ME-202-(Atypical Procaryotes)				
		MBP-ME-202 (Practical)				

ZOOLOGY	ZO-MJ-201 (Non chordates & Chordates Animal Diversity)	ZO-ME-201-Chordates Animal Diversity, Evolution and Ethology, Ecological adaptation and Wildlife Biology	ZO-MDC-201- Marine Science	ZO-SEC-201- (Poultry farming)		
	ZO-MJ-202 (Ecological Non chordates & Chordates Animal Diversity)	ZO-ME-201- (Practical)		ZO-SEC-202- (Medical Diagnostics)		
	ZO-MJ-201 & 202 (Practical)					

BOTANY	BO-MJ-201- (Plant Diversity & Anatomy)	BO-ME-201 (Anatomy Tracheophytes)	BO-MDC-201 (Economic Botany)	BO-SEC-201-(Introduction to Ethnobotany & Pharmacognosy) OR BO-SEC-201-(Basics to Herbal Crude Drugs)		
	BO-MJ-202- (Plant Morphology and Systematics)	BOP-ME-202 - Practical)	BOP-MDC-202 Practical	BO-SEC-202-(Practical)		
	BOP-MJ- 203 (Practical)					

S.Y.B.Sc.-Semester-3

MATHEMATICS	MH-MJ 301 (Mathematical Analysis T&P)		MH-MDC-301 (Group of Symmetries)	MH-SEC-301 (Mathematical Methods)		
	MH- MJ- 302(Numerical Methods-I)		MH-MDC-302 (Applications of Calculus in Commerce and Economics)	MH-SEC-302 (Mathematics for Competitive Examinations)		

	MH- MJ- 302 (Differential Equations -II T & P)			MH-SEC-303 (Fundamentals of Vedic Mathematics-III)		