

Gondwana University, Gadchiroli NEP 2020 U.G. PROGRAMME SESSION 2024-25

Faculty of Science and Technology

Programme Name - B.Sc.Sem-II (Level - 4.5)

Revised Examination Scheme & Basket

Sr.	Course	Subject name		Total	8				Examination Scheme						Total		
No.	Category			Credit	` ` ` ` `			Theory				Practical			Marks		
					The ory	Pra ctic	Total Hrs.	UA	CA	Total Mark	Min. Passing	Duration of Exam	UA	CA	Total Mark	Min. Passi	
1		Select any Two	i) Subject- I	02	02	al 	02	40	10	50	20	(Hrs.) 02				ng	50
1		core group	, v	<u> </u>			_										
	Core	subject from	ii) Subject- II	02	02		02	40	10	50	20	02					50
	Subject-I	Annexure-VII	iii) Practical Based on subject - I	02		04	04						30	20	50	25	50
			iv) Practical Based on subject - II	02		04	04						30	20	50	25	50
2	OE	Group-A (Any one from Annexure-VIII)		02	02		02	40	10	50	20	02					50
			ne from Annexure-VIII)	02	02		02	40	10	50	20	02					50
3	VSC	Advanced Laboratory Practical based on core group subject including hands on training (Annexure- IX)		02		04	04						30	20	50	25	50
4	SEC		e (any one from	02	02		02	40	10	50	20	02			-	-	50
5	VEC	Audit course (Ar	ny one from Annexure-XI)	02	02		02		50	50	20						50
6	AEC	English/Marathi/Hindi/Bengali/Pali/ Supplementary English, (Annexure-XII)		02	02		02	40	10	50	20	02					50
7	CC	NCC/NSS/Yoga/Sports(Any one)		02		04	04							50	50	25	50
Tota	<u> </u> 	1		22	14	16	30	240	110	350	140	12	90	110	200	100	550

Note(s):

1) As per open elective (OE) is concerned, students shall opt any one subject from Group-A to be Chosen Compulsory from Faculty other than that of the core subject.

ANNEXURE-VII

LIST OF CORE SUBJECTS

Sr	Name of Faculty	Core Group	Name of Papers
No		Subjects	
1	Faculty of Science and	Computer Science	Programming with "C"
2	Technology	Environmental Science	Ecology
3		Chemistry	Basic Organic Chemistry
4		Mathematics	Integral calculus
5		Microbiology	Applied Microbiology
6		Botany	Botany in Twenty First Century
7		Electronics	Digital Electronics
8		Biochemistry	Cell Biology and Biomolecules
9		Geology	Crystallography and Optical Mineralogy
10		Biotechnology	Fundamentals of Microbiology
11		Zoology	Life and diversity of animals non
			Chordate(Arthropod to Hemichordate)
12		Physics	Magneto Statistics and Electromagnetic waves
13		Home Science	Fundamentals of Family Resource Management OR
			Fundamental of Textile & Clothing OR
			Fundamental of Human Developtment

ANNEXURE-VIII

LIST OF OPEN ELECTIVES GROUP-A & GROUP B

Sr.	Name of	Core Group of	Name of subject		
No	Faculty	Subject	Group A	Group B	
1	Faculty of	Computer	Video Conferencing and Tools	Basics of Internet	
	Science and	Science	MS - Excel	Google Sheets	
2	Technology	Environmental	Environmental Education	Global Environmental Concerns	
		Science	Fundamentals of natural Resources	Water and Water Resources	
3		Chemistry	Chemistry of Drugs-I	Chemistry of Drugs-II	
			Material Chemistry-II	Environmental Chemistry-II	
4		Mathematics	Mathematical and Computational Thinking	Business Mathematics	
5		Microbiology	Food Microbiology	Air, Soil and Water Microbiology	
			Food Fermentation Technology	Mushroom Cultivation Technology	
6		Botany	Green House Technology	Nursery Development	
			Bamboo Technology	Moha Cultivation	
7		Electronics	Domestic Equipment Maintenance	Renewable Energy and Energy Harvesting	
8		Biochemistry	Basics of Microbiology	Indigenous System of Health and medicine	
			Health and Wellness	Food Biochemistry	
9		Geology	Introduction of landforms	Groundwater Quality and	
				Management	
10		Biotechnology	Application of Biotechnology in Agriculture	Biotechnology for Society	
11		Zoology	Apiculture	Sericulture	
12		Physics	Environmental Physics	Energy Sources	
			Introduction to Geophysics	Energy Audit	
13		Home Science	Basic Physics	Ecology & Environment	
			Fabric Studies	Communicative Development	
			Food Additives	Infant Stimulation &	
14		Language in	Foundation course in Spoken	Toddlerhood Introduction to Basic Language	
1.7	T 1: C	Science	English	Skills	
15	Faculty of Humanities	Political Science	Election and Voter Behavior	Good Governance	
16		Home Economics	Work Simplification	Flower Arrangement	
		Leonomies	Timing and Energy Management	Water Harvesting	
17		Geography	Geography of Health	Physical Geography-II	
18		Sociology	Sociology of social welfare-II	Sociology of Marriage & Family	
19		Economics	Introductory Economics-II	Agriculture Economics –II	
			Indian Economics Policy-II	Economy of Maharashtra- II	
20		Hindi	प्रशासनिक और व्यावसायीक पत्र	हिन्दी साहित्य का इतिहास आदिकाल-	
			लेखन, भाग -II	भाग-II	

21		Marathi	मराठी साहित्य : कविता (निवडक) अभ्यासपुस्तक : आधुनिक मराठी कविता	कविता : सर्जनात्मक लेखन आणि वाचन
22		English	Foundation Course in Spoken English	Introduction to Basic Language Skills
24		History	Ancient Indian Administration	Ancient Indian Economics and Economy
24		Ambedkar Thought	Dr. Ambedkar's Approach to Social Problems of Minorities, Caste, Women, Poverty and illitracy	Dr Ambedkar and Conversion to Buddhism
25		Pali Language	पालिभाषा पारीभाषीक शब्द	अंगुत्तरनिकाय परिचय
26		B. A. Fashion Designing	Fabric Construction	Personality Development
			Pattern Desiging	
27		Psychology	Biological Psychology –II	Developmental Psychology-II
			Organizational Psychology-II	Consumer and Advertisement Psychology-II
28		Public Administration	Public Policy	Rural Development
29		Indian Music	Critical studies of Ragas Talas-II	Introduction of Indian Music and fine Arts –II
30		Military Science	Indians Internal Security –II	Indian Military Operations
31		NCC	War after Independence	External Security Threats
32	Faculty of Commerce and	Commerce	Digital Marketing -II	Stock Marketing -II
33	Management		Labour Economics-II	Basics Insurance
			Corporate Communication-II	
34		Language in Commerce	Foundation course in Spoken English	Introduction to Basic Language Skills

Note :- 1) Only one, 2 credits subject other than the faculty of core subject to be chosen amongst above Open Elective Group - A mentioned in the above Annexure - VIII

2) Only one, 2 credits subject other than the faculty of core subject to be chosen amongst above

Open Elective Group – B mentioned in the above Annexure - VIII

ANNEXURE-IX

LIST OF SUBJECT FOR VOCATIONAL SKILL COURSES BESTED ON CORE SUBJECT - II (VSC)

Sr No	Name of Faculty	Core Group Subjects	Name of Papers
1	Faculty of Science and	Computer Science	Web designing using HTML
2	Technology	Environmental	Ecological Field and Applied
		Science	Experiments
3		Chemistry	Organic Practical Skills-II
4		Mathematics	Python Programming
5		Microbiology	Production of Bio fertilizers and bio pesticides
6		Botany	Herbal Technology
7		Electronics	Digital Electronic Laboratory
8		Biochemistry	Analysis of Bio molecules
9		Geology	Study of Crystals, Microscopic Identification minerals and Field works (Based on Group II)
10		Biotechnology	Bio fertilizers and bio pesticides Production
11		Zoology	Advanced Lab Technique
12		Physics	Basic Electronic Instrumentation and Measurement Skills OR Advance Electromagnetism Circuit design
13		Home Science	Practical Skill related to Home Science

Note :- 2 credits Practical / Vocational Course given against core subject is mandatory as mentioned in the above Annexure - IX

ANNEXURE- X

LIST OF SUBJECT FOR SKILL ENHANCEMENT COURSE (SEC)

Faculty of Science and Technology	Sr No	Name of Faculty	Core Group of Subject	Name of subject
1	1	=	Computer Science	Data Analysis Using Excel
Mathematics Mathematical Modelling	2	Technology	Environmental Science	Water Conservation System
Society	3		Chemistry	Chemistry of Boiler Troubles
Botany Floriculture	4		Mathematics	Mathematical Modelling
Faculty of Humanities	5		Microbiology	Vermicomposting
Biochemistry Bio analytical Techniques 9 Geology Fundamental of Hydro Geology 10 Biotechnology Fermentation Technology 11 Zoology Clinical Instrumentation Technique 12 Physics Electrical Circuit and Network Skill OR Applied Measurement and Instrumentation Skills 13 Home Science Food preservation 15 Food preservation 16 Home Economics Banking Sector Geography Water Management Sociology Case Study Economics Banking system-II Hind İnsiru rivar 121 Marathi Amfixtra rivar 221 Marathi Amfixtra rivar 222 Museum in India 23 History Museum in India 24 History Museum in India 25 Pali Uffer भाषेचा आधुनिक काळात वापर Fashion Designing Jewellery Art Psychology Soft skills development-II Psychology Soft skills development Indian Music Critical Studies of Ragas and Talas II	6		Botany	Floriculture
Position Position	7		Electronics	Fundamentals of Electronics
Biotechnology Fermentation Technology	8		Biochemistry	Bio analytical Techniques
Toology Clinical Instrumentation Technique	9		Geology	Fundamental of Hydro Geology
Physics Electrical Circuit and Network Skill OR Applied Measurement and Instrumentation Skills	10		Biotechnology	Fermentation Technology
Applied Measurement and Instrumentation Skills	11		Zoology	Clinical Instrumentation Technique
Political Science Human Empowerment	12		Physics	Applied Measurement and Instrumentation
Home Economics Banking Sector	13		Home Science	Food preservation
16 17 18 Geography Water Management 19 Economics Banking system-II 19 Hindi मिडीया लेखन 20 Marathi जिहरात मसुदा लेखन 21 English Foundation course in English in Social Media History Museum in India Ambedkar Thought Atrocity Act Pali पालि भाषेचा आधुनिक काळात वापर Fashion Designing Jewellery Art Psychology Soft skills development-II Public Administration Personality Development Indian Music Critical Studies of Ragas and Talas II Military Science Road Safety and Traffic Management-II NCC Computer Application 31 Faculty of Commerce and Management Commerce 33 Marketing Management – II Human Resource Management – II Human Resource Management – II Information & Communication Technology- II	14	Faculty of Humanities	Political Science	Human Empowerment
Sociology Case Study	15		Home Economics	Banking Sector
18EconomicsBanking system-II192021Marathiजाहिरात मसुदा लेखन22EnglishFoundation course in English in Social Media23HistoryMuseum in India24Ambedkar ThoughtAtrocity ActPaliपालि भाषेचा आधुनिक काळात वापरFashion DesigningJewellery ArtPsychologySoft skills development-IIPublic AdministrationPersonality DevelopmentIndian MusicCritical Studies of Ragas and Talas IIMilitary ScienceRoad Safety and Traffic Management-IINCCComputer Application31Faculty of Commerce and ManagementCommerce32Marketing Management – II33Human Resource Management – IIHuman Resource Management – IIInformation & Communication Technology- II	16		Geography	Water Management
Hindi मिडीया लेखन Marathi जाहिरात मसुदा लेखन English Foundation course in English in Social Media History Museum in India Ambedkar Thought Atrocity Act Pali पालि भाषेचा आधुनिक काळात वापर Fashion Designing Jewellery Art Psychology Soft skills development II Public Administration Personality Development Indian Music Critical Studies of Ragas and Talas II Military Science Road Safety and Traffic Management II Management Management II Marketing Management - II Human Resource Management - II	17		Sociology	Case Study
20Marathiजाहिरात मसुदा लेखन21EnglishFoundation course in English in Social Media22HistoryMuseum in India23Atrocity ActPaliपिल भाषेचा आधुनिक काळात वापर25Fashion DesigningJewellery Art26PsychologySoft skills development-II28Public AdministrationPersonality Development29Indian MusicCritical Studies of Ragas and Talas II30Military ScienceRoad Safety and Traffic Management-II31Faculty of Commerce and ManagementCommerceBusiness Economics – II33Marketing Management – IIHuman Resource Management – II4Human Resource Management – II4Human Resource Management – II4Human Resource Management – II4History34History35History36Marketing Management – II4History37History38History39History30Marketing Management – II4History4History4History5History6Marketing Management – II7History8History8History8History9History9History9History9History10History11History12Histor	18		Economics	Banking system-II
21 English Foundation course in English in Social Media 22 History Museum in India 23 Ambedkar Thought Atrocity Act Pali पालि भाषेचा आधुनिक काळात वापर 25 Fashion Designing Jewellery Art Psychology Soft skills development-II Public Administration Personality Development Indian Music Critical Studies of Ragas and Talas II Military Science Road Safety and Traffic Management-II NCC Computer Application 31 Faculty of Commerce and Management Commerce 32 Business Economics – II Marketing Management – II Human Resource Management – II Human Resource Management – II Information & Communication Technology-II	19		Hindi	मिडीया लेखन
22 History Museum in India 23 Ambedkar Thought Atrocity Act 24 Pali पालि भाषेचा आधुनिक काळात वापर Fashion Designing Jewellery Art Psychology Soft skills development-II Public Administration Personality Development Indian Music Critical Studies of Ragas and Talas II Military Science Road Safety and Traffic Management-II NCC Computer Application 31 Faculty of Commerce and Management Commerce 32 Marketing Management – II Human Resource Management – II Human Resource Management – II Information & Communication Technology- II	20		Marathi	जाहिरात मसुदा लेखन
Ambedkar Thought Atrocity Act	21		English	Foundation course in English in Social Media
Pali पालि भाषेचा आधुनिक काळात वापर	22		History	Museum in India
Fashion Designing Jewellery Art	23		Ambedkar Thought	Atrocity Act
Psychology Soft skills development-II	24		Pali	पालि भाषेचा आधुनिक काळात वापर
Public Administration Personality Development	25		Fashion Designing	Jewellery Art
Indian Music Critical Studies of Ragas and Talas II	26		Psychology	Soft skills development-II
Military Science Road Safety and Traffic Management-II	27		Public Administration	Personality Development
30 NCC Computer Application 31 Faculty of Commerce and Management 32 Management 33 Human Resource Management – II Information & Communication Technology- II	28		Indian Music	Critical Studies of Ragas and Talas II
31 Faculty of Commerce and Management Sommerce Management — II Human Resource Management — II Information & Communication Technology- II	29		Military Science	Road Safety and Traffic Management-II
Management Marketing Management – II Human Resource Management – II Information & Communication Technology- II	30		NCC	Computer Application
33 Human Resource Management – II Information & Communication Technology- II	31	•	Commerce	Business Economics – II
34 Information & Communication Technology- II	32	Management		Marketing Management – II
	33			Human Resource Management – II
Principle Management-II	34			Information & Communication Technology- II
	35			Principle Management-II

Note :- Only one, 2 credits SEC to be chosen amongst subjects of three Faculties from the above Annexure-X

ANNEXURE- XI

LIST OF SUBJECT FOR VALUE ADDED COURSES (VEC)

Sr. No.	Name of subject
1	IP.R. (Intellectual Property Rights)
2	Environmental studies
3	Constitution of India
4	Indian Democracy, Election and Good Governance
5	D.P.R. writing

Note :- Only one, 2 credits subject VEC to be chosen from the above Annexure - XI

ANNEXURE- XI

LIST OF ABILITY ENHANCEMENT COURSE (AEC)

Sr. No.	Name of subject
1.	English / Supplementary English
2.	Marathi
	OR
	Hindi
	OR
	Pali
	OR
	Bengali

Note:- 1) Student shall opt English OR Supplementary English in Semester –I and any one from Marathi, Hindi, Pali and Bengali in Semester- II and Vise a Versa.