

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

Faculty of Science & Technology Programme Name - B.Sc. Sem-II

Sr.	Course	Subject name	Total Teaching Scheme Examination Scheme			Total										
No.	Category	-	Credit	redit (Hrs)		Theory					Practical			Marks		
				The orv	Practic al	Total Hrs.	UA	CA	Total Mark	Min. Passi	Duration of Exam	UA	CA	Total Mark	Min. Passi	
				or y		111.5.			, which	ng	(Hrs.)			Mark	ng	
1	Gr Subject- II	Select any one Subject from Annexure –I other than the subjects taken in group subject -I	04	04		04	80	20	100	40	03					100
2	Gr Subject- III	Select any one Subject from Annexure –I other than the subjects taken in group subject –I & II	04	04		04	80	20	100	40	03					100
3	OF	Group-A (Any one from Annexure- VII)	02	02		02	40	10	50	20	02					50
	OE	Group-B (Any one from Annexure- VIII)	02	02		02	40	10	50	20	02					50
4	VSC *	Practical Course will be based on group Subject II and III	02		04	04						30	20	50	25	50
5	SEC	Any one from Annexure- IX	02	02		02	40	10	50	20	02			-	-	50
6	VEC	Audit course(Any one from Annexure-X)	02	02		02		50	50	20	02					50
7	AEC	English/Marathi/Hindi/Bengali/Pali Annexure - XI	02	02		02	40	10	50	20	02					50
8	CC	NCC/NSS/Yoga/Sports(Any one)	02		04	04							50	50	25	50
Total			22	18	08	26	320	130	450	180	16	30	70	100	50	550

*Shall be based on Group Subject-I

Note(s):

- 1) The Students shall undertake total three different subjects which shall include one each from Group Subject –I, Group Subject-II and Group Subjects-III without repeating the subject
- 2) From Sem-III onwards out of the above three Subjects, the Students shall select one Subject as a major and one Subject as a minor as per Government letter No.Ø-, ubZh2022@i z0-09@fof k3 f kd kukfnukd 13 ekp z 2024- As per AEC is concerned, those Students Selected English as a AEC in 1st Sem, shall select Marathi/Hindi/Bengali/Pali in the IInd Sem and Vis-a Versa
- 3) As per open elective (OE)is concerned, students shall opt one subject from Group-A and one from Group-B and It is to be Chosen Compulsory from Faculty other than that of the core/Major subject
- 4) Generic IKS will be common for all Faculties in the first Semester as per Government letter No. Ø-, ubZh2022@i zØ-09@fof l& 31/4 kd kuk/faukd 25t kuskiti 2024-
- 5) VSC Shall be based on Group Subject.

ANNEXURE-I LIST OF CORE SUBJECTS FOR SUBJECT GROUP-I, SUBJECT GROUP-II AND SUBJECT GROUP-III

Sr No	Name of Faculty	Core Group of Subject	Name of subject
1	Faculty of Science	Computer Science	Information Communication Technology
	and		Structure Programming with C
	Technology		Operating System
2		Environmental	Introduction to Environmental Science
		Science	Ecology
			Basic of Environmental Science
3		Chemistry	Basic Inorganic Chemistry
			Basic Organic Chemistry
			Fundamentals of Chemistry
4		Mathematics	Differential Calculus
			Integral calculus
			Advance calculus
5		Microbiology	General Microbiology and Microbial Technique
			Biochemistry
			Biotechnology
6		Botany	Cryptogrammic Botany-I
			Cryptogrammic Botany-II
			Economic Botany
7		Electronics	Semiconductor devices and circuits
			Digital Electronics
			Basics Electronics
8		Biochemistry	Physiological Biochemistry
			Cell Biology and Biomolecules
			Clinical Biochemistry and Immunology
9		Geology	General Geology and Mineralogy
			Crystallography and Optical Mineralogy
			Physical Geology
10		Biotechnology	Cell Biology
			Fundamentals of Microbiology
			Biomolecules
11		Zoology	Life and diversity of animals non
			Chordate(Protozoa to Ammelida)
			Life and diversity of animals non
			Chordate(Arthopoda to Hemichoradate)
			Environmental Biology
12		Physics	Gravitation, Oscillation and Properties of matter
			Magneto Statistics and Electromagnetics waves
			Vector analysis and Electro statistics
13		Home Science	Fundamentals of Food Science and Nutrition
			Fundamentals of Home Science Extension
			Housing and Home Furnishing

Note:-Only 2 Core Subject of 4 credits each, excluding the 4 credits core subject chosen in semester- I, to be chosen amongst above core subjects from the Annexure- I

ANNEXURE-VII LIST OF OPEN ELECTIVES GROUP-A

Sr No	Name of Faculty	Core Group of Subject	Name of subject
1	Faculty of Science	Computer Science	M.S. Access
2	and Technology	Environmental Science	Environmental Education
3	_	Chemistry	Chemistry of Drugs-I
4		Mathematics	Mathematical and Computational Thinking
5		Microbiology	Food Microbiology
6		Botany	Green House Technology
7		Electronics	Domestic Equipment Maintenance
8	_	Biochemistry	Basics of Microbiology
9		Geology	Introduction of landforms
10	_	Biotechnology	Biomedical Instrumentation
11		Zoology	Apiculture
12		Physics	Energy Forces
13		Home Science	Basic Physics
14	Faculty of	Political Science	Election and Voter Behavior
15	Humanities	Home Economics	Time and Energy Management
16		Geography	Geography of Health
17		Sociology	Sociology of social welfare-II
18	_	Economics	Introductory Economics-II
19		Hindi	हिंदी साहित्य का इतिहास आधिकाल भाग - II
20	-	Marathi	मराठी साहित्य - कविता (निवडक) अभ्यास पुस्तक - आधुनिक मराठी कविता
21		English	Presentation Skill -II
22		History	Ancient Indian Administation
23	_	Ambedkar Thought	Dr. Ambedkar's Approach to Social Problems of Minorities, Caste, Women, Poverty and illitracy
24		Pali	पालि व्यांकरण
25		Fashion Designing	Yarm and Fabric
26		Psychology	Developmental of Psychology -I
27	_	Public Administration	Public Policy
28	1	Indian Music	Critical studies of Ragas Talas-II
29		Military Science	Indians Internal Security -II
30	1	NCC	War after Independence
31	Faculty of	Commerce	Business Economics-II
32	Commerce and Management		Labour Economics-II

Note:- Only one, 2 credits subject other than the faculty of core subject to be chosen amongst 32 Open Elective Group – A mentioned in the above Annexure - VII

ANNEXURE-VIII

LIST OF OPEN ELECTIVES GROUP-B

Sr No	Name of Faculty	Core Group of Subject	Name of subject
1	Faculty of Science	Computer Science	Google Tools
2	and Technology	Environmental Science	Global Environmental Concerns
3		Chemistry	Chemistry of Drugs-II
4		Mathematics	Business Mathematics
5		Microbiology	Air, Soil and Water Microbiology
6		Botany	Nursery Development
7		Electronics	Renewable Energy and Energy Harvesting
8		Biochemistry	Indigenous system of Health and Medicine
9		Geology	Groundwater Quality and Management
10		Biotechnology	Hospital Waste Management
11		Zoology	Sericulture
12		Physics	Nano-science
13		Home Science	Food Adulteration
14	Faculty of	Political Science	Good Governance
15	- Humanities	Home Economics	Works Simtlification
16		Geography	Physical Geography-II
17		Sociology	Sociology of Marriage & Family
18		Economics	Agriculture Economics -II
19		Hindi	प्रशासनिक एवम व्यावसायीक पत्रलेखन - भाग- II
20		Marathi	कविता - सर्जनात्मक लेखन आणि वाचन
21		English	Media and Communication Studies -II
22		History	Ancient Indian Economics and Economy
23		Ambedkar Thought	Dr Ambedkar and Conversion to Buddhism
24		Fashion Designing	Pattern of Designing
25		Psychology	Developmental of Psychology -II
26		Public Administration	Rural Development
27		Indian Music	Introduction of Indian Music and fine Arts
28		Military Science	Indian Military Operations
29		NCC	External Security Threats
30	Faculty of	Commerce	Principles of Management-II
31	Commerce and Management		Basics Insurance

Note:- Only one, 2 credits subject other than the faculty of core subject to be chosen amongst 31 Open Elective Group – B mentioned in the above Annexure -VIII

ANNEXURE- IX

LIST OF SUBJECT FOR SKILL ENHANCEMENT COURSE (SEC)

Sr No	Name of Faculty	Core Group of Subject	Name of subject
1	Faculty of science and Tech	Computer Science	Data Analysis Using Excel
2		Environmental Science	Water Conservation System
3		Chemistry	Chemistry of Boiler Troubles
4		Mathematics	Mathematical Modelling
5		Microbiology	Vermicomposting
6		Botany	Floriculture
7		Electronics	Fundamentals of Electronics
8		Biochemistry	Bio analytical Techniques
9		Geology	Fundamental of Hydro Geology
10		Biotechnology	Fermentation Technology
11		Zoology	Clinical Instrumentation Technique
12		Physics	Electrical Circuit Network Skill
13		Home Science	Food preservation
14	Faculty of Humanities	Political Science	Human Empowerment
15		Home Economics	Banking Sector
16		Geography	Water Management
17		Sociology	Case Study
18		Economics	Banking system-II
19		Hindi	मिडीया लेखन
20		Marathi	जाहिरात मसुदा लेखन
21		English	Functional English-II
22		History	Museum in India
23		Ambedkar Thought	Atrocity Act
24		Pali	पालि भाषेचा आधुनिक काळात वापर
25		Fashion Designing	Jewellery Art
26		Psychology	Soft skills development-II
27		Public Administration	Personality Development
28		Indian Music	Critical Studies of Ragas and Talas II
29		Military Science	Road safety in traffic management-II
30		NCC	Computer Application
31	Faculty of Commerce and	Commerce	Business Communication
32	Management		Foundation course in Spoken English
33			Corporate and Business English Communication
34			Foundation Course in Content Writing

Note:- Only one, 2 credits SEC to be chosen amongst 34 subjects of three Faculties from the above
Annexure-IX

ANNEXURE- X 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	G.S.T.
5	Indian Democracy, Election and Good Governance
6	D.P.R. writing
7	Artificial Intelligence (A.I.)
8	Digital Marketing
9	Stock Marketing

Note :- Only one, 2 credits subject VEC to be chosen from the above Annexure - \mathbf{X}

ANNEXURE- XI LIST OF ABILITY ENHANCEMENT COURSE (AEC)

Semester -II

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

Note :- 1) 2 credit AEC English is Compulsory for all Students

2) Amongst 2 credit AEC Marathi, Hindi, Pali and Bengali, only one to be chosen