



Gondwana University, Gadchiroli
NEP 2020 U.G. PROGRAMME SESSION 2024-25
Faculty of Science and Technology
Programme Name - B.Sc.Sem-I

Sr. No.	Course Category	Subject name	Total Credit	Teaching Scheme (Hrs)			Examination Scheme										Total Marks
							Theory					Practical					
				Theory	Practical	Total Hrs.	UA	CA	Total Mark	Min. Passing	Duration of Exam (Hrs.)	UA	CA	Total Mark	Min. Passing		
1	Gr Subject-I	Select any one subject from Annexure-I	04	04	--	04	80	20	100	40	03	--	--	--	--	100	
2	OE	Group-A (Any one from Annexure-II)	02	02	--	02	40	10	50	20	02	--	--	--	--	50	
3		Group-B(Any one from Annexure-III)	02	02	--	02	40	10	50	20	02	--	--	--	--	50	
4	VSC *	Practical Course will be based on core subject group-I	02	--	04	04	--	--	--	--	--	30	20	50	25	50	
5	SEC	Any one from Annexure-IV	02	02	--	02	40	10	50	20	02	--	--	-	-	50	
6	VEC	Audit course(Any one from Annexure-V)	02	02	--	02	--	50	50	20	02	--	--	--	--	50	
7	AEC	English/Marathi/Hindi/Bengali/Pali Annexure-VI	02	02	--	02	40	10	50	20	02	--	--	--	--	50	
8	IKS	Generic IKS	02	02	--	02	40	10	50	20	02	--	--	--	--	50	
9	CC	NCC/NSS/Yoga/Sports(Any one)	02	--	04	04	--	--	--	--	--	--	50	50	25	50	
Total			20	16	08	24	280	120	400	160	15	30	70	100	50	500	

*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.0- ubZh2022@i 20-09@fof k& 3 f kd kulkfukd 13 epj 2024- As per AEC is concerned, those Students Selected English as a AEC in 1stSem, shall select Marathi/ Hindi/Bengali/Pali in the IIndSem 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. 0- ubZh2022@i 20-09@fof k& 3 f kd kulkfukd 25t kusjh 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 and Technology	Computer Science	Information Communication Technology
			Structure Programming with C
			Operating System
2		Environmental Science	Introduction to Environmental 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(Arthropoda 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 one 4 Credit core subject to be chosen amongst above core subjects form the above

Annexure- I

ANNEXURE-II

LIST OF OPEN ELECTIVES GROUP-A

Sr No	Name of Faculty	Core Group of Subject	Name of subject
1	Faculty of Science and Technology	Computer Science	Fundamentals of Computer
2		Environmental Science	Environmental Education
3		Chemistry	Chemistry in daily life_I
4		Mathematics	Quantitative Aptitude
5		Microbiology	Development of Microbiology
6		Botany	Bamboo Cultivation
7		Electronics	Basic Electronics component and Instrument
8		Biochemistry	Biochemistry in Agriculture
9		Geology	Industrial application of Rocks
10		Biotechnology	Biotechnology for human Welfare
11		Zoology	Vermicomposting
12		Physics	Mechanics
13		Home Science	Fundamental of Textile and clothing
14	Faculty of Humanities	Political Science	Rural Development
15		Home Economics	Event Management
16		Geography	A Geography of Tourism
17		Sociology	Sociology of social welfare-I
18		Economics	Introductory Economics-I
19		Hindi	History of Hindi Literature(Ancient times Part-I)
20		Marathi	मराठी साहित्य
21		English	Presentation skill
22		History	Political history of Ancient India
23		Ambedkar Thought	Dr Ambedkar on social integration
24		Pali	Writing skill of Pali
25		Fashion Designing	Introduction of sewing Machine
26		Psychology	Biological Psychology -I
27		Public Administration	E-Governance
28		Indian Music	Critical studies of Ragas Talas-I
29		Military Science	India's Internal Security
30		NCC	Indian Armed Forces
31	Faculty of Commerce and Management	Commerce	Business Economics-I
32			Labour Economics-I
33	Inter Disciplinary Studies	Physical Education	Physical Education

Note :- Only one, 2 credits subject other than faculty of the core subject to be chosen amongst 33 Open Elective Group - A mentioned in the above Annexure - II

ANNEXURE-III

LIST OF OPEN ELECTIVES GROUP-B

Sr No	Name of Faculty	Core Group of Subject	Name of subject
1	Faculty of Science and Technology	Computer Science	Foundation of Computing
2		Environmental Science	Gender of Environment
3		Chemistry	Introduction to basic chemistry
4		Mathematics	Logical Reasoning
5		Microbiology	Microbial world and Diversity
6		Botany	Organic Farming
7		Electronics	Troubleshooting of Electronics Gadgets
8		Biochemistry	Public Health and Hygiene
9		Geology	Fundamentals of Topographic Maps
10		Biotechnology	Applications of Biotechnology in Agriculture
11		Zoology	Poultry
12		Physics	Relativity
13		Home Science	Ecology & Environment
14	Faculty of Humanities	Political Science	Human rights
15		Home Economics	Gender Education
16		Geography	Physical Geography-I
17		Sociology	Sociology of Environment and Society
18		Economics	Agriculture Economics
19		Hindi	Administrative and professional letter writing Part-I
20		Marathi	Description of Travel-Creative writing and reading
21		English	The Media and Communication Studies-I
22		History	Idea of Bharat
23		Ambedkar Thought	Dr Ambedkar on state reorganisation
24		Fashion Designing	Shaping devices
25		Psychology	Biological Psychology -II
26		Public Administration	Tribal development
27		Indian Music	Introduction of Indian Music I
28		Military Science	War after Independence
29		NCC	Challenges of Internal security of India
30	Faculty of Commerce and Management	Commerce	Principles of Management-I
31			Basics of Banking

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

ANNEXURE-IV

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	Programming logic and Techniques
2		Environmental Science	Environmental studies
3		Chemistry	Water Treatment-I
4		Mathematics	Probability
5		Microbiology	Instrumentation in microbiology
6		Botany	Mushroom cultivation
7		Electronics	E-waste Management
8		Biochemistry	Basic laboratory skill in Biochemistry
9		Geology	Basic industrial mineralogy
10		Biotechnology	Biotechnological skills and analytical techniques
11		Zoology	Clinical instrumentation techniques
12		Physics	Physics workshop skills
13		Home Science	Physics in computing skills
14	Faculty of Humanities	Political Science	Maharashtra gram panchayat code
15		Home Economics	Value, goals and standards
16		Geography	Disaster management
17		Sociology	Social survey
18		Economics	Banking system-I
19		Hindi	प्रशासनिक एवं व्यवसायीक पत्र लेखन भाग- I
20		Marathi	व्यक्तीमत्व विकास आणि भाषा
21		English	Functional English-I
22		History	Archives in India
23		Ambedkar Thought	Development of Constitution of India
24		Pali	भारतीय पालि साहित्य व परराष्ट्रीय पालि साहित्य सहसंबंध
25		Fashion Designing	Art in Craft
26		Psychology	Soft skills development-I
27		Public Administration	Communication Skills
28		Indian Music	Critical Studies of Ragas and Talas
29		Military Science	Road safety in traffic management-I
30		NCC	Personality Development
31	Faculty of Commerce and Management	Commerce	Statistics and Business Mathematics-I
32			Foundation course in communicative English
33			Introduction to basic language skill
34			English for enhancing employability skills

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

ANNEXURE- V

LIST OF SUBJECT FOR VALUE ADDED COURSES (VEC)

Sr. No.	Name of subject
1	I.P.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 VEC to be chosen from the above Annexure - V

ANNEXURE- VI
LIST OF ABILITY ENHANCEMENT COURSE (AEC)
Semester –I

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

