GHraisoni COLLEGE Engineering and Management Nagpur

UG Scheme-2026 (NEP-2020)
B. Tech. (Electronics and Telecommunication)

Course Code	Name of Course	Course Category	Classroom Instruction (CI) (in hours per semester)		Lab Instruction (LI) (in hours per semester)	Term Work (TW) and Self Learning (SL) (TW+ SL)(in hours per semester)	Total no.of hours per semester	Credits	Evaluation Scheme					Total Marks
									Theory			Practical		
			L	T	P				TAE	CAE	ESE	INT	EXT	
SEMESTER-I (NCrf Level 4.5)														
BSBTSH1TT102ET	Environmental Chemistry	BSC 4	**15**	--	--	**15**	**30**	1	10	15	50	--	--	75
BSBTSH1PI102ET	Environmental Chemistry	BSC 4	--	--	**30**	---	**30**	1	--	--	--	25	--	25
BSBTSH3TT103ET	Matrices and Differential Calculus	BSC 1	**30**	**15**	--	**45**	**90**	3	10	15	50	--	--	75
IKBTSH2TT10XET (0X=09,10,11,17, 18,19,20)	Elective : Indian Knowledge System	IKS	**30**	--	--	**30**	**60**	2	10	15	50	--	--	75
CCBTSH2PT10XET (0X=26,69, 70)	Liberal Learning Courses-I	CC1	--	--	**60**	--	**60**	2	--	--	--	25	25	50
ESBTEL3TT101ET	Basic Electrical Engineering	ESC 1	**45**	--	--	**45**	**90**	3	10	15	50	--	--	75
ESBTEL1PI101ET	Basic Electrical Engineering	ESC 1	--	--	**30**	--	**30**	1	--	--	--	25	--	25
ESBTET3TT101	Digital Logic Design	ESC 2	**45**	--	--	**45**	**90**	3	10	15	50	--	--	75
ESBTET1PI101	Digital Logic Design	ESC 2	-	--	**30**	--	**30**	1	--	--	--	25	--	25
VSBTET1TI10X	Elective -I : Vocational and Skill Enhancement	VSEC1	**15**	--	--	**15**	**30**	1	10	15	--	--	--	25
VSBTET1PI10X (0X=02,03,04)	Elective -I : Vocational and Skill Enhancement	VSEC1	--	--	**30**	--	**30**	1	--	--	--	25	--	25
TOTAL			**180**	**15**	**180**	**195**	**570**	**19**	**60**	**90**	**250**	**125**	**25**	**550**

GHraisoni COLLEGE Engineering and Management Nagpur

UG Scheme-2026 (NEP-2020)

B. Tech. (Electronics and Telecommunication)

Course Code	Name of Course	Course Category	Classroom Instruction (CI) (in hours per semester)		Lab Instruction (LI) (in hours per semester)	Term Work (TW) and Self Learning (SL) (TW+ SL)(in hours per semester)	Total No.of hours per semester	Credits	Evaluation Scheme					
									Theory			Practical		Total Marks
			L	T	P				TAE	CAE	ESE	INT	EXT	
SEMESTER-II (NCrf Level 4.5)														
BSBTSH2TT201ET	Engineering Physics	BSC2	15	15	---	30	60	2	10	15	50	--	--	75
BSBTSH1PI201ET	Engineering Physics	BSC2	--	--	30	--	30	1	--	--	--	25	--	25
BSBTSH3TT204ET	Integral Calculus and Differential Equations	BSC3	30	15	--	45	90	3	10	15	50	--	--	75
AEBTSH1TI208ET	Communication Skills	AEC1	15	---	---	15	30	1	10	15	--	--	--	25
AEBTSH1PI208ET	Communication Skills	AEC1	--	--	30	--	30	1	--	--	--	25	--	25
CCBTSH2PT20XET (0X=71,72, 73)	Liberal Learning Courses-II	CC 2	-	--	60	--	60	2	--	--	--	25	25	50
ESBTIT3TT202ET	Programming for Problem Solving	ESC 3	45	--	--	45	90	3	10	15	50	–	--	75
ESBTIT1PI202ET	Programming for Problem Solving	ESC 3	--	--	30	--	30	1	--	--	--	25	--	25
BSBTSH2TT215ET	Biomedical Engineering	BSC5	30	--	--	30	60	2	10	15	50	–	--	75
BSBTSH1PI215ET	Biomedical Engineering	BSC5	--	--	30	--	30	1	--			25	--	25
BTET2TT205	Sensor and Instrumentation	PCC 1	30	--	--	30	60	2	10	15	50	–	--	75
VSBTET1TI20X	Elective –II: Vocational and Skill Enhancement	VSEC 2	15	---	--	15	30	1	10	15	--	--	--	25
VSBTET1PI20X (0X=06,07,08)	Elective –II: Vocational and Skill Enhancement	VSEC 2	--	--	30	--	30	1	–	–	---	25	---	25
TOTAL			180	30	210	210	630	21	70	105	250	150	25	600

ELECTIVES

Applied Science and Humanities Board

23BTSHL10XAI -Elective : Indian Knowledge System -

Course	Course Code (L)	Course Code(P)
Elective: IKS- Concepts and Applications inEngineering	**IKBTSH2TT109AI/CY/IT/CV/ET** **IKBTSH2TT209CE/DS/ME/EL**	Not Applicable
Elective: IKS- Social History of Medicine In Colonial India	**IKBTSH2TT110AI/CY/IT/CV/ET** **IKBTSH2TT210 CE/DS/ME/EL**	Not Applicable
Elective: IKS- Modern IndianArchitecture	**IKBTSH2TT111AI/CY/IT/CV/ET** **IKBTSH2TT211 CE/DS/ME/EL**	Not Applicable
Elective: IKS- Introduction to Ancient Indian Technology	**IKBTSH2TT117AI/CY/IT/CV/ET** **IKBTSH2TT217 CE/DS/ME/EL**	Not Applicable
Elective: IKS- Introduction To Modern Indian Drama	**IKBTSH2TT118AI/CY/IT/CV/ET** **IKBTSH2TT218 CE/DS/ME/EL**	Not Applicable
Elective: IKS- Introduction To Indian Art - An Appreciation	**IKBTSH2TT119AI/CY/IT/CV/ET** **IKBTSH2TT219 CE/DS/ME/EL**	Not Applicable
Elective: IKS- Folk And Minor Art In India	**IKBTSH2TT120 AI/CY/IT/CV/ET** **IKBTSH2TT220 CE/DS/ME/EL**	Not Applicable

Liberal learning courses BTSH2PE10X or BTSH2PE20X

Course	Course Code (L)	Course Code(P)
Liberal learning course-1 Integrated Personality Development Course 1	Not Applicable	**CCBTSH2PT112** **AI/CE/DS/CY/IT/CV/ME/EL/ET**
Liberal learning course-1 Government Missions (Study of any 2)	Not Applicable	**CCBTSH2PT126** **AI/CE/DS/CY/IT/CV/ME/EL/ET**
Liberal learning course-1 Study of India's Top 2 Problems	Not Applicable	**CCBTSH2PT169** **AI/CE/DS/CY/IT/CV/ME/EL/ET**
Liberal learning course-1 Study of one of the identified books	Not Applicable	**CCBTSH2PT170** **AI/CE/DS/CY/IT/CV/ME/EL/ET**
Liberal learning course-2 Integrated Personality Development Course 2	Not Applicable	**CCBTSH2PT213** **AI/CE/DS/CY/IT/CV/ME/EL/ET**
Liberal learning course-2 Innovation and Creativity	Not Applicable	**CCBTSH2PT271** **AI/CE/DS/CY/IT/CV/ME/EL/ET**
Liberal learning course-2 Sports-Representation of Institute at University level/Inter College Level and above in any sport	Not Applicable	**CCBTSH2PT272** **AI/CE/DS/CY/IT/CV/ME/EL/ET**
Liberal learning course-2 Making short film/Photography	Not Applicable	**CCBTSH2PT273** **AI/CE/DS/CY/IT/CV/ME/EL/ET**
Liberal learning course-2 Foreign Language (German)	Not Applicable	**CCBTSH2PT276** **AI/CE/DS/CY/IT/CV/ME/EL/ET**
Liberal learning course-2 Foreign Language (Japanese)	Not Applicable	**CCBTSH2PT277** **AI/CE/DS/CY/IT/CV/ME/EL/ET**

Electronics and Telecommunication Board

Course	Course Code (L)	Course Code(P)
Elective -I : Vocational and Skill Enhancement I-Introduction to Drones	VSBTET1TI102	VSBTET1PI102
Elective -I : Vocational and Skill Enhancement-I	VSBTET1TI103	VSBTET1PI103
Elective -I : Vocational and Skill Enhancement- I	VSBTET1TI104	VSBTET1PI104
Elective -II : Vocational and Skill Enhancement-Introduction to Robotics	VSBTET1TI206	VSBTET1PI206
Elective -II : Vocational and Skill Enhancement-Internet of Things and Its Applications	VSBTET1TI207	VSBTET1PI207
Elective -II : Vocational and Skill Enhancement-	VSBTET1TI208	VSBTET1PI208