GHraisoni COLLEGE Engineering and Management Nagpur

UG Scheme-2026 (NEP-2020)
B. Tech. (Civil Engineering)

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)														
BSBTSH1TT102CV	Environmental Chemistry	BSC4	15	-	--	15	30	1	10	15	50	--	-	75
BSBTSH1PI102CV	Environmental Chemistry	BSC4	--	-	30	---	30	1				25	-	25
BSBTSH3TT103CV	Matrices and Differential Calculus	BSC1	30	15	-	45	90	3	10	15	50	-	-	75
AEBTSH1TI108CV	Communication Skills	AEC1	15	-	--	15	30	1	10	15	-		-	25
AEBTSH1PI108CV	Communication Skills	AEC1	--	-	30	--	30	1			-	25	-	25
IKBTSH2TT10XCV (0X=09,10,11,17, 18,19,20)	Elective: Indian Knowledge System	IKS	30	-	--	30	60	2	10	15	50	-	-	75
CCBTSH2PT10XCV (0X=26,69, 70)	Liberal Learning Courses-I	CC1	-	-	60	--	60	2	-	-	-	25	25	50
ESBTCV3TT101	EngineeringMechanics	ESC2	45	-	--	45	90	3	10	15	50		-	75
ESBTCV1PI101	EngineeringMechanics	ESC2	--	-	30	--	30	1	--	--	--	25	-	25
VSBTCV1TI10X	Elective -I : Vocational and Skill Enhancement	VSEC1	15	-	--	15	30	1	10	15	-	--	-	25
VSBTCV1PI10X (0X=02,03,04)	Elective -I : Vocational and Skill Enhancement	VSEC1	--	-	30	--	30	1	--	--	-	25	-	25
ESBTME2TT101CV	Engineering Graphics	ESC1	30	-	--	30	60	2	10	15	50		-	75
ESBTME2PI101CV	Engineering Graphics	ESC1		-	60	--	60	2	--	--	--	25	-	25
TOTAL			180	15	240	195	630	21	70	105	250	150	25	600

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									Theory			Practical		Total Marks
			L	T	P				TAE	CAE	ESE	INT	EXT	
SEMESTER-II (NCrf Level 4.5)														
BSBTSH2TT201CV	Engineering Physics	BSC2	15	15	--	30	60	2	10	15	50	--	--	75
BSBTSH1PI201CV	Engineering Physics	BSC2	--	--	30	--	30	1	--	--	--	25	--	25
BSBTSH3TT207CV	Integral Calculus, Differential Equations and Numerical Methods	BSC3	30	15	--	45	90	3	10	15	50	--	--	75
CCBTSH2PT20XCV (0X=71,72, 73)	Liberal Learning Course 2	CC2	--	--	60	--	60	2	--	--	--	25	25	50
BSBTSH2TT216CV	Construction Material & Workshop Practices	BSC5	30	--	---	30	60	2	10	15	50	--	--	75
BSBTSH1PI216CV	Construction Material & Workshop Practices	BSC5	---	---	30	---	30	1	--	--	--	25	--	25
ESBTCV3TT205	Introduction to Cement and Concrete	ESC3	45	--	--	45	90	3	10	15	50	--	--	75
ESBTCV1PI205	Introduction to Cement and Concrete	ESC3	--	--	30	--	30	1	---	---	---	25	--	25
BTCV2TT206	Water Resources Engineering	PCC1	30	--	---	30	60	2	10	15	50	--	--	75
VSBTCV1TI20X	Elective -II : Vocational and Skill Enhancement	VSEC2	15	---	----	15	30	1	10	15	---	---	--	25
VSBTCV1PI20X (0X=07,08,09)	Elective -II : Vocational and Skill Enhancement	VSEC2	--	---	30	----	30	1	--	---	---	25	---	25
TOTAL			165	30	180	195	570	19	60	90	250	125	25	550

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**

Civil Board

Course	Course Code (L)	Course Code(P)
Elective -I : Vocational and Skill Enhancement-Computer Aided Drawing	**VSBTCV1TI102**	**VSBTCV1PI102**
Elective -I : Vocational and Skill Enhancement-Design of Structure using Sketch Up	**VSBTCV1TI103**	**VSBTCV1PI103**
Elective -I : Vocational and Skill Enhancement	**VSBTCV1TI104**	**VSBTCV1PI104**
Elective -II : Vocational and Skill Enhancement- Architectural Planning and Drawing	**VSBTCV1TI207**	**VSBTCV1PI207**
Elective -II : Vocational and Skill Enhancement- Building Information Modeling Software	**VSBTCV1TI208**	**VSBTCV1PI208**
Elective -II : Vocational and Skill Enhancement-	**VSBTCV1TI209**	**VSBTCV1PI209**