Bachelor of Engineering
Program in Civil Engineering
(Revised B.E.2024)

Year 1 – Semester 1

Course	Title	Credit
ENGL0001	English in the Digital World	3
MATH0101	Elementary Calculus	3
CHEM0120	Chemistry	3
CHEM0190	Chemistry Laboratory	1
PHYS0110	Physics I	3
PHYS0190	Physics Laboratory	1
	Total	14

Year 1 – Semester 2

Course	Title	Credit
MATH0102	Multivariable Calculus	3
PHYS0111	Physics II	3
ENCC0007	Scientific Laboratory	1
ENCC0008	Engineering Innovation and Design	3
MECH0110	Engineering Mechanics	3
MECH0105	Fundamental Engineering Drafting	3
	Total	16

Year 2 – Semester 1

Course	Title	Credit
MATH0201	Linear Algebra and Differential Equations	3
SCIE0103	Earth and Space	3
STAT0115	Statistics for Problem Solving	3
MATS0310	Engineering Materials	3
CIVL0215	Solid Mechanics	3
CIVL0241	Engineering Survey	4
CIVL0415	Computer Methods in Civil Engineering	2
	Total	21

Year 2 – Semester 2

Course	Title	Credit
MATH0202	Numerical Methods	3
ENGL0002	English for STEM Education	3
ENCC0201	Computer Programming	3
CIVL0212	Concrete Technology	3
CIVL0263	Hydraulics	4
CIVL0311	Structural Analysis I	3
	Total	19

Year 2 – Summer Semester

Course	Title	Credit
CIVL0243	Surveying Field Practice	0(50 hrs.)
	Total	0

Year 3 – Semester 1

Course	Title	Credit
ENGL0003	English for Engineering and Technology	3
CIVL0210	Civil Engineering Materials and Testing	3
CIVL0280	Water Supply and Sanitary Engineering	3
CIVL0312	Structural Analysis II	3
CIVL0361	Hydraulic Engineering	3
CIVL0374	Soil Mechanics	4
	Total	19

Year 3 – Semester 2

Course	Title	Credit
CIVL0261	Engineering Hydrology	3
CIVL0350	Construction Management	3
CIVL0375	Foundation Engineering	3
CIVL0411	Reinforced Concrete Design	3
CIVL0431	Highway Engineering	3
CIVL0453	Contract, Specification and Cost Estimation	3
XXXXxxxx	Free Elective	3
	Total	21

Year 3 – Summer Semester

Course	Title	Credit
CIVL0390	Civil Engineering Internship	0(240 hrs.)
	Total	0

Year 4 – Semester 1

Course	Title	Credit
CIVL0413	Timber and Steel Design	3
CIVL0430	Transportation Engineering	3
CIVL0490	Civil Engineering Project I	0
CIVL0494	Civil Engineering Capstone Design	3
CIVLxxxx	Civil Engineering Elective	3
	Total	12

Year 4 – Semester 2

Course	Title	Credit
ENGL0004	Business English for the Workplace	3
ENCC0006	Ethics for Engineers	1
CIVL0491	Civil Engineering Project II	2
CIVLxxxx	Civil Engineering Elective	3
XXXXxxxx	Free Elective	3
	Total	12