

**List of Pre-Ph.D Courses**  
**DEPARTMENT OF**  
**CIVIL ENGINEERING**

S.No	Paper 1	Subject Code
1	RESEARCH METHODOLOGY	21RES104

S.NO	PAPER – 2	Code	PAPER – 3	Code
1.	Sustainable Construction Materials and Methods	21CE201	Advanced Concrete Technology	21CE301
2.	Finite Element Analysis	21CE202	Advanced Design of Structures	21CE302
3.	Optimization Techniques	21CE203	Advanced Structural Mechanics	21CE303
4.	Structural Dynamics	21CE204	Remote Sensing and Geographic Information System	21CE304
5.	Advanced Wastewater Treatment	21CE205	Surfaces Hydrologic Systems	21CE305
6.	Water Quality and Environment	21CE206	River Hydraulics	21CE306
7.	Hydrologic Elements and Analysis	21CE207	Watershed and Wetland Management	21CE307
8.	Geosynthetics	21CE208	Ground Improvement Techniques	21CE308
9.	Geotechnical Earthquake Engineering	21CE209	Pavement Construction and Management	21CE309
10.	Traffic Engineering	21CE210	Environmental Impact Assessment	21CE310