

**Objective of the Course:**

- To provide skill to carry out various types of design for highway in laboratory

**Credit Earned: 2**
**Students learning outcomes:**

After successful completion of the course, it is expected that student will be able to,

- To perform basic tests on highway material
- Design of various mix design

**Teaching and Examination Scheme**

Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
Theory	Tutorial	Practical		ESE (E)	CSE (I)	IA (M)	Viva (V)	Term Work (TW)	
00	00	04	02	00	00	00	50	50	100

**Detailed Syllabus**

Sr. No.	List of Experiments
1	Marshall Mix design for BC and DBM
2	PQC design for highway Pavement
3	GSB design for highway Pavement
4	DLC design for highway Pavement
5	CBR of different subgrade soil and design of thickness of different layer based on subgrade CBR Value as per IRC

**Suggested Theory Distribution**

The suggested theory distribution as per Bloom's taxonomy is as per follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery and evaluation					
Remember	Understand	Apply	Analyze	Evaluate	Create
5%	5%	20%	25%	25%	20%

**Geotechnical Engineering****Instructional Method and Pedagogy:**

1. Use of Learning Management system like canvas
2. Demonstration through presentations on power point and videos and lectures
3. Brainstorming and group discussion sessions
4. Collaborative learning

**References**

1. IRC SP-15 – PQC Mix Design
2. IRC SP-49- DLC mix Design