



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Technology and Science
Choice Based Credit System (CBCS) in Light of NEP-2020
Civil Engineering Department
Generic Elective (Undergraduate Courses)
EVEN Sem

COURSE CODE	CAT-EGORY	COURSE NAME	TEACHING & EVALUATION SCHEME									
			THEORY			PRACTICAL			L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*					
BTCE409	GE	Road Safety and Management	60	20	20	0	0	3	0	0	3	

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit.

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives (CEOs):

1. To acquire knowledge and understanding of the road environment.
2. To inculcate decision making and behavioral skills necessary to survive in the road environment.
3. To impart knowledge and understanding of the causes and consequences of accidents.
4. To understand roles and responsibilities in ensuring road safety.

Course Outcomes (COs):

The student will be able to

1. Generate awareness about number of people dying every year in road accidents, traffic rules and characteristics of accident.
2. Gain information and knowledge about people responsible for accidents and their duties
3. Understand the importance of multidisciplinary approach to planning for traffic safety and rehabilitation
4. Acquire a certificate of coordination/ participation in compulsory events based on the topic under study

UNIT I

08 Hrs.

Introduction to Road Safety: Road traffic accidents scenario in India and in world. Road Safety and its importance. Traffic Rules and Driving Behavior. Characteristics of accidents, accidents vs. crash.

UNIT II

08 Hrs.

Planning for Road safety: Awareness about rules and regulations of traffic. Assisting Traffic control authorities. Multidisciplinary approach to planning for traffic safety and injury control. Vulnerable road users: crashes related to pedestrian and bicyclists, their safety, provision for disabled.

UNIT III

09 Hrs.

Responsibility of Road accidents and Safety measures: People responsible for accident prevention: Police, Politicians, Community members, Policy makers, Teachers, Parents, Infrastructure authorities, Drivers and Official road safety body. Reasons of students/ children

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have accidents. 4 E's of Accidents Prevention: 1. Engineering - by altering the environment 2. Enforcement - by imposing laws 3. Encouragement - by the use of publicity campaigns 4. Education - by gaining and using knowledge.

UNIT IV

08 Hrs.

Road Safety Education: Introduction to Road Safety Education. 5 P's of Road safety education: 1. Pre-school road safety education 2. Practical rather than theory education 3. Principles of own development as regards to road safety education 4. Presentations on road safety education 5. Place for road safety education in syllabus

UNIT V

08 Hrs.

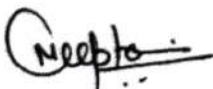
Road Safety Events: Discussions on efforts done by Government on Road Safety. Celebration of Road Safety week or Workshop on Road Safety week/ Organization of seminar on Road Safety. This is to be entirely organized by students under the mentorship of concerned Head of the Department.

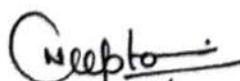
Textbooks:

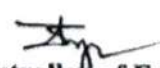
1. Kadiyali L.R., Traffic Engineering & Transport Planning, Khanna Publishers, 2003
2. Crown Agents Ref: TEA/A369, 1995. (Unpublished contractors report for Ministry of Transport and Communications, Ghana). Road safety study and the institutional strengthening of the vehicle examination and licensing division.
3. TRRL OVERSEAS UNIT, 1991. Towards safer roads in developing countries: a guide for planners and engineers. Crow Thorne: Transport and Road Research Laboratory.

Reference Books:

1. Indian Roads Congress, Highway Safety Code, IRC: SP-44:1996 4.
2. Indian Roads Congress, Road Safety Audit Manual, IRC:SP-88-20


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