Division	Faculty of Engineering and Technology
School Name	School of Engineering and Technology
Department Name	Department of Civil Engineering
Programme Name	M.Tech. Tunnel Engineering

Sem	Course Type	Sum of Total Credits
I		
	University Core	
	Research Methodology	
	Peace Studies - I	
	Yoga for Excellence in Life-I	: :
	University Core Total	!
	Programme Core	
	Advanced Geology and Rock Mechanics	
	Investigation, Planning and Layout of Tunnels	
	Conventional Tunnel Construction	
	Analysis and Design of Tunnels	
	Software Lab	:
	Programme Core Total	13
Total		2
II	<u> </u>	
	University Core	
	Peace Studies- II	
	Yoga for Excellence in Life-II	
	University Core Total	
	University Elective	
	University Elective	
	University Elective Total	
	Programme Core	
	Mechanised Tunnelling	
	Programme Core Total	
	Programme Elective	
	Programme Elective-I	
	Programme Elective-II	
	Programme Elective Total	
	Research Core	
	Seminar । विश्वशान्तध्व धूवा ।	
	Technical Writing	
	Research Core Total	
Total		
III		2
	Programme Elective	
	Programme Elective-III	
	Programme Elective-IV	
	Programme Elective Total	
	Programme Core	
	Tunnel Portals & Shafts	
	Programme Core Total	
	Research Project	
	Research Project-I	1
	Research Project Total	1
I Total		

Research Project-II

Research Project	16
IV Total	16
Grand Total	80

Semester	Course Name / Course Title	Programme Electives
II	Advanced Design of Tunnels	Programme Elective I
11	Ventilation in Tunnel and Underground Space	Programme Elective I
II	Project Finance and Accounting Systems	Programme Elective I
II	Instrumentation and Monitoring of Tunnels	Programme Elective II
11	Trenchless methods and Micro- Tunnelling	Programme Elective II
II	Estimation Costing and Tendering in Tunnelling	Programme Elective II
111	Tunnel Project Management	Programme Elective III
	Geophysics for Tunnel Engineers	Programme Elective III
III	Design and Construction of Caverns	Programme Elective III
III	Geophysical Investigation for Tunnel Projects	Programme Elective III
III	Advances in Tunnel Engineering	Programme Elective IV
III	BIM for Tunnels and Underground Infrastructures	Programme Elective IV
111	Contracts, Legal aspects in tunnels and underground construction	Programme Elective IV
III	Tunnel Safety and hazard analysis	Programme Elective IV