

LIST OF MINORS

1.	AEROSPACE ENGINEERING	MINOR	Template No. AE-5
		Title	AEROSPACE ENGINEERING
		C	Compulsory Course:
		O	AE201A [05]
		U	
		R	Any THREE from:
		S	AE211A [11]
		E	AE321A [09]
		S	AE331A [09]
			AE650A [09] / AE753A [09] / AE341 [11]
			32-36

LIST OF MINORS

2.	BIOLOGICAL SCIENCES AND BIO-ENGINEERING	MINOR		Template No. BSBE-5	
		Title	TISSUE ENGINEERING		
		C	BSE211A [09]		
		O	BSE411A [11]		
		U	BSE421A [11]		
R					
S	-				
E					
S					
		31			

LIST OF MINORS

3.	CHEMICAL ENGINEERING	MINOR		Template No. CHE-5	
		Title	CHEMICAL ENGINEERING		
		C	CHE251A [09]		
		O	CHE261A [09]		
		U	CHE313A [09]		
		R	CHE331A [09]		
S					
E	-				
S					
		36			

LIST OF MINORS

4.	CHEMISTRY	MINOR		Template No. CHM-5	
		Title	PHYSICAL CHEMISTRY*	INORGANIC CHEMISTRY	ORGANIC CHEMISTRY
			Compulsory Courses:	Compulsory Courses:	Compulsory Courses:
		C	CHM321A [09]	CHM345A [09]	CHM201A [09]**
			CHM322A [09]	CHM342A [09]	CHM202A [09]
		O	Any TWO from:	Any TWO from:	CHM303A [09]
					CHM402A [09]
		U R S E S	CHM621A [09]	CHM616A [09]	-
			CHM622A [09]	CHM631A [09]	
CHM626A [09]	CHM646A [09]				
CHM636A [09]	CHM647A [09]				
CHM637A [09]	CHM651A [09]				
CHM650A [09]	CHM654A [09]				
CHM664A [09]	CHM668A [09]				
CHM685A [09]	CHM691A [09]				
CHM689A [09]					
CHM695A [09]					
CHM696A [09]					
CHM699A [09]					
	36	36	36		
REMARKS:					
1) *CSO202A is a pre-requisite for Minor in Physical Chemistry					
2) **EXCEPTION: CHM201A to be done by Y13 and onward batches. Y11 and Y12 batch shall do CHM203A. Course title, content and credits are same. Just the course number has been changed.					

LIST OF MINORS

5.	CIVIL ENGINEERING	MINOR*		Template No. CE-5	
		Title	Infrastructure Engineering and Management		
		C	CE241 [09]	[odd semester]	
		O	CE640 [06]	[odd semester]	
		U	CE641a [05]	[odd semester]	
		R	CE643a [05] or CE644a [05] [even semester]		
		S	CE667a [05]	[even semester]	
		E			
S	-				

LIST OF MINORS

6.	COMPUTER SCIENCE & ENGINEERING	MINOR			Template No. CSE-4	
		ALGORITHMS	COMPUTER SYSTEMS	THEORY OF COMPUTING	ARTIFICIAL INTELLIGENCE* ¹	MACHINE LEARNING & APPLICATIONS
		COMPULSORY COURSE(S):	COMPULSORY COURSE(S):	COMPULSORY COURSE(S):	COMPULSORY COURSE(S):	COMPULSORY COURSE(S):
		CS210A [12]	CS210A [12]	CS210A [12]	CS210A [12/ ESO207A [12]	CS210A [12/ ESO207A [12]
		CS345A [09]		CS340A [09]	CS365A [09]	CS771A [09]
		And, ONE from:	And, TWO from:	And, ONE from:	And, ONE from:	And, ONE from:
		CS645A [09]	CS220A [12]	CS640A [09]	CS671A [09]	CS365A [09]
		CS646A [09]	CS330A [12]	CS641A [09]	CS672A [09]	CS671A [09]
		CS647A [09]	CS315A [09]	CS642A [09]	CS674A [09]	CS676A [09]
		CS648A [09]	CS335A [12]	CS643A [09]	CS675A [09]	CS678A [09]
		CS663A [09]	CS422A [09]	CS644A [09]	CS676A [09]	CS685A [09]
		CS664A [09]	CS425A [09]	CS649A [09]	CS685A [09]	CS698I [09]
		CS719A [09]	CS433A [09]	CS680A [09]	CS686A [09]	CS698N [09]
		CS743A [09]	CS455A [09]	CS681A [09]	CS782A [09]	CS698S [09]
				CS687A [09]		CS772A [09]
				CS740A [09]		CS773A [09]
				CS741A [09]		CS774A [09]
				CS742A [09]		-
		Remarks: 1) For each Minor stream, the minimum total credit requirement is 30. 2) In each minor stream any related course(s), even if not mentioned in the list of optional courses, may be taken as optional with the permission of the CSE DUGC. 3) *1 = Only for students graduating till 2017.				

LIST OF MINORS

7.	ELECTRICAL ENGINEERING	MINOR			Template No.EE-4		
		Title	MICROELECTRONICS/ DIGITAL SYSTEMS	POWER	COMMUNICATIONS & SIGNAL PROCESSING	CONTROLS	RF & PHOTONICS
		C	EE200A [11]	EE200A [11]	EE200A [11]	EE200A [11]	EE200A [11]
		O	EE210A [11]	EE330A [11]	EE320A [11]	EE250A [11]	EE340A [11]
		U	EE311A [09]/ EE370A [11]	EE360A [09]	EE321A [09]/ EE301A [09]	EE650A [09]	EE612A [09]/ EE642A [09]/ EE648A [09]
R							
S							
E							
S							
		31/33	31	31	31	31	

LIST OF MINORS

8.	HUMANITIES & SOCIAL SCIENCES	MINOR		Template No. HSS-1	
		Title	LINGUISTIC THEORY	ENGLISH LITERATURE	
		C O U R S E S			
				ONE course from following:	THREE course from following:
				ENG122A [11]	ENG123A [11]
				ENG124A [11]	ENG431A [09]
					ENG432A [09]
				and, TWO courses from following:	ENG433A [09]
				ENG408A [09]	ENG434A [09]
				ENG423A [09]	ENG435A [09]
				ENG443A [09]	ENG436A [09]
				ENG447A [09]	ENG437A [09]
				ENG448A [09]	ENG438A [09]
				ENG449A [09]	ENG439A [09]
				ENG452A [05] + ENG453A [05]	ENG440A [09]
	ENG784A [09]	ENG445A [09]			
	ENG754A [09]	ENG446A [09]			

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		ENG759A [09]	ENG456A [09]
			ENG457A [09]
			ENG458A [09]
			ENG460A [09]
			ENG719A [09]
			ENG742A [09]
			ENG743A [09]
			ENG750A [09]
		29 / 30	27 / 29
<p><u>Remarks:</u></p> <p>If a student has done a course in English other than those listed above and wishes to have a Minor in English (Linguistics or English Literature), he/she may request the DUGC, HSS, to approve of the same.</p>			

LIST OF MINORS

9.	INDUSTRIAL AND MANAGEMENT ENGINEERING	MINOR		Template No. IME-3
		Title	INDUSTRIAL AND MANAGEMENT ENGINEERING	
		C	DE PG-1	
		O	DE PG-2	
		U	DE PG-3	
		R		
S	-			
E				
S				
	27			
REMARKS:				
1) DE PG may be from IME or MBA courses.				

LIST OF MINORS

10.	MATERIALS SCIENCE & ENGINEERING	MINOR		Template No. MSE-5	
		Title			FUNCTIONAL MATERIALS
		C O U R S E S	Any THREE from:		
			MSE604A [09]		
			MSE624A [09]		
			MSE628A [09]		
			MSE631A [09]		
			MSE693A [09]		
			27		

LIST OF MINORS

11.	MATHEMATICS AND SCIENTIFIC COMPUTING	MINOR		Template No. BS-MTH-5	
		Title		APPLIED MATHEMATICS	
		C			
		O	MTH308A [11]		
		U	MTH428A [11]		
		R	MTH426A [09]		
		S	-		
E					
S	31				

LIST OF MINORS

12.	MECHANICAL ENGINEERING	MINOR		Template No. ME-5	
		Title	MANUFACTURING SCIENCES	COMPUTATIONAL TECHNIQUES IN MECHANICAL ENGINEERING	
		C O U R S E S	Any THREE from:		Any THREE from:
			ME661A [09] (Prerequisite TA202A)	ME623A [09] (Prerequisite ESO202A, MSO203B)	
			ME662A [09] (Prerequisite TA202A)	ME630A [09] (Prerequisite ESO201A, ESO204A, MSO203B)	
			ME663A [09] (Prerequisite ESO202A, MSO203B)	ME685A [09] (Prerequisite – No backlog in core courses)	
			ME664A [09] (Prerequisite TA202A, ESO204A or Equivalent Heat Transfer Course)	ME751A [09] (Prerequisite TA101A)	
			ME665A [09] (Prerequisite TA202A)	MEXXA [09] (Nonlinear Finite Element Techniques in Solid Mechanics)	
			ME774A [09] (Prerequisite ESO202A, MSO203B)	MEXXA [09] (Atomistic Simulations in Engineering)	
			ME751A [09] (Prerequisite TA101A)	-	
ME761A [09] (Prerequisite TA202A)					
	27	27			

LIST OF MINORS

13.	PHYSICS	MINOR		Template No. BS-PHY-5	
		Title	STATISTICAL MECHANICS	QUANTUM MECHANICS	
		C			
		O	PSO201A [08]	PSO201A [08]	
		U	PHY210A [06]	PHY210A [06]	
		R	PHY226B [06]	PHY226B [06]	
S	PHY412A [11]	PHY431A [11]			
E	31	31			
S					

LIST OF MINORS

14.	COGNITIVE SCIENCE	MINOR		Template No. CONG.-1
		Title		COGNITIVE SCIENCE
				Compulsory courses:
		C O U R S E S	CGS601A [09]	
			BSE656A [09]	
			and, TWO courses from following list:	
			CGS702A [09]	
			SE367A [09]	
			CS671A [09]	
			CS781A [09]	
			CS782A [09]	
			CS784A [09]	
			CS785A [09]	
			CS786A [09]	
			CS789A [09]	
ENG748A [09]				
ENG760A [09]				
PHI444A [09]				
PHI452A [09]				
PHI758A [09]				
PSY499A [09]				
PSY760A [09]				
PSY770A [09]				
PSY772A [09]				
PSY789A [09]				
PSY790A [09]				
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LIST OF MINORS

15.	NUCLEAR ENGINEERING TECHNOLOGY	MINOR		Template No. BS-NET 2	
		Title	NUCLEAR ENGINEERING TECHNOLOGY		
		C			
		O	NT602A [09]		
		U	NT611A [09]		
		R	NT614A [09]		
S					
E	-				
S					
		27			

The End