

COURSE STRUCTURE

5-Years Integrated M.Tech

(Applied Geology)

		GROUP-I				SEMESTER										NINTH		TENTH		
		FIRST (IC)		SECOND (IC)		THIRD		FOURTH		FIFTH		SIXTH		SEVENTH						EIGHTH
C O U R S E	MCI101	3-1-0-11	MCI102	3-1-0-11	GLC201 (DC1)	3-0-0-9	GLC205 (DC4)	3-0-0-9	GLC502 (DC9)	3-0-0-9	GLC509 (DC12)	3-0-0-9	GLC519 (DC15)	3-0-0-9	GLC526 (DC17)	3-0-0-9	GLC597 (Thesis) 36 Credits	DE3/OE3	3-0-0-9	
	PHI101	3-0-0-9	CYI101	3-0-0-9	GLC202 (DC2)	3-0-0-9	GLC206 (DC5)	3-0-0-9	GLC503 (DC10)	3-0-0-9	GLC510 (DC13)	3-0-0-9	GLC520 (DC16)	3-0-0-9	GLC513 (DC18)	3-0-0-9		DE4/OE4	3-0-0-9	
	PHI102	0-0-2-2	CYI102	0-0-2-2	GPC501 (DC3)	3-0-0-9	GLC207 (DC6)	3-0-0-9	GLC504 (DC11)	3-0-0-9	MS	3-0-0-9	DE3	3-0-0-9	DE5	3-0-0-9		GLC598 (Thesis) 18 Credits		
	EEI101 Modular	3-0-0-9 (9/2)	MCI103 Modular	2-2-0-5	E/SO1 Optional	3-0-0-9	GLC208 (DC7)	3-0-0-9	HSS	3-0-0-9	DE1	3-0-0-9	OE2	3-0-0-9	DE4	3-0-0-9	GLS548 DC20)	0-0-0-0 S/X	--	--
	EEI102 Modular	0-0-3-3 (3/2)	CSI101 Modular	2-1-0-4	MNE201 (E/SO2)	3-0-0-9	E/SO3 Optional	3-0-0-9	GPE202 E/SO4	3-0-0-9	DE2/OE1	3-0-0-9	DE4/OE3	3-0-0-9	DE6/OE5	3-0-0-9	--	--	--	--
	ECI101 Modular	3-0-0-9 (9/2)	CSI102 Modular	0-0-2-2	GLC203 (DP1)	0-0-2-2	GLC209 (DP3)	0-0-2-2	GLC506 (DP5)	0-0-2-2	GLC514 (DP8)	0-0-2-2	GLC525 (DP10)	0-0-2-2	GLC533 (DP12)	0-0-2-2	--	--	--	--
	ECI102 Modular	0-0-3-3 (3/2)	ESI101	1-0-0-3	GLC204 (DP2)	0-0-2-2	GLC210 (DP4)	0-0-0-2	GLC507 (DP6)	0-0-2-2	GLC549 (DP9)	0-0-2-2	GLC524 (DP11)	0-0-2-2	GLC516 (DP13)	0-0-2-2	--	--	--	--
	CEI101	1-0-3-6	GLI101	1-0-0-3	--	--	GLS211 (DC8)	0-0-0-0 S/X	GLC508 (DP7)	0-0-2-2	GLS517 (DC14)	0-0-0-0 S/X	--	--	GLC534 (DP14)	0-0-2-2	--	--	--	--
	MEI101	3-1-0-11	MEI102	2-0-3-9	--	--	--	--	--	--	--	--	--	--	GLS535 (DC19)	0-0-0-0 S/X	--	--	--	--
	MSI101	2-0-0-2	HSI101	1-0-2-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CCS101	0-0-0-0 S/X	CCS102	0-0-0-0 S/X																	
	57		52		49		49		51		49		49		51		36		36	

DUAL DEGREE (CATEGORY-A)	DUAL DEGREE (CATEGORY-B)										
NOT APPLICABLE	FIFTH		SIXTH		SEVENTH		EIGHTH		NINTH	TENTH	
	GLC202 DCUG	3-0-0-9	GLC205 DCUG	3-0-0-9	GLC503 DCUG	3-0-0-9	GLD591 DEPG	3-0-0-9	GLC597 36 Credits Thesis	GLO596 DEPG	3-0-0-9
	<ul style="list-style-type: none"> In place of OE-1 will take (GLC202), In place of OE-2 will take (GLC205), In place of OE-3 will take (GLC503), In place of OE-4 will take (GLC519), 				GLC519 DCUG	3-0-0-9	GLD592 DEPG	3-0-0-9		DEPG	3-0-0-9
	All four DCUG courses are prescribed from the Course Structure of the Undergraduate Program where the student will do the M.Tech. Program under Dual Degree (Category-B)				GLC579 DCPG	3-0-0-9	GLD594 OEPG	3-0-0-9		Or any course is suggested by the department	
				GLC580 DCPG	3-0-0-9	Or any course is suggested by the department		GLC598 18 Credits Thesis			

NOTE: (1) *In lieu of Four DCUG courses of the Dual Degree (Category-B) Program will be considered as OE-1, OE-2, OE-3 & OE4 of the B.Tech .program of Parent Department and the credits of these courses will be counted for fulfilment of the OE credit requirements.*

COURSE STRUCTURE
LIST OF COURSES FOR COMPLETION OF MINOR

MONSOON SEMESTER		WINTER SEMESTER	
GLE202	Resource Geology	GLD512	Petroleum Geology
GLC527	Exploration Geology and Mineral Economics		

TITLE OF THE MINOR: **Minor in Exploration Geology**

DETAILS OF THE MINIMUM CREDIT REQUIREMENTS FOR COMPLETION OF B.TECH. PROGRAM AND LIST OF ESO, DE AND OE COURSES

Minimum Credit requirements for Graduation:

- Institute Core (IC) : 109 Credits
- Department Compulsory : 144
- Department Elective : 45
- Department Practical : 29
- Engineering/Science Option : 36
- Open Elective : 45
- Thesis Units ; 54 (9x6)
- HSS/MS 18

LIST OF E/SO	
Guided	Offered
MNE201	GLE201
GPE202	GPE201

LIST OF DEPARTMENTAL ELECTIVES (DE)	
Monsoon	Winter
GLD521	GLD531
GLD522	GLD540
Winter	GLD541
GLD528	GLD543
GLD529	GLD544
GLD530	

LIST OF OPEN ELECTIVES (OE)	
Monsoon	Winter
GLO523	GLO545
GLO532	

Total : **480**

Minimum Credit requirements for completion of Additional Academic Program

Dual Degree (Category-A)		Dual Degree (Category-B)		Double Major	
<ul style="list-style-type: none"> • Departmental Core (DCPG) • DEPG/OEPH • Thesis 	18 Credits 36 Credits 54 Credits Total: 108 Credits	<ul style="list-style-type: none"> • Departmental Core (4 DCUG) of Second Department (Extra credits to be counted in B.Tech part as OE credits) • 2 DCPG & 4 DEPG/OEPG or 1 DCPG & 5 DEPG/OEPG • Thesis 	36 Credits (Not to be counted in M.Tech. Part) 54 Credits 54 Credits Total: 108 Credits	<ul style="list-style-type: none"> • Two ESO courses • Departmental Core (8 DCUG) of Second Major Department • 4 DE of Second Department 	18 Credits (Not to be counted in the Second Major) 72 Credits 54 Credits Total: 108 Credits