

COURSE STRUCTURE

5-Years Integrated M.Tech (Applied Geophysics)

GROUP-I				SEMESTER																
FIRST (IC)		SECOND (IC)		THIRD		FOURTH		FIFTH		SIXTH		SEVENTH		EIGHTH		NINTH		TENTH		
C O U R S E	MCI101	3-1-0-11	MCI102	3-1-0-11	GPC201 (DC1)	3-0-0-9	GPC205 (DC4)	3-0-0-9	GPC501 (DC8)	3-0-0-9	GPC508 (DC11)	3-0-0-9	GPC516 (DC16)	3-0-0-9	GPC520 (DC18)	3-0-0-9	GPC597 (Thesis) 36 Credits	DE5/ OE3	3-0-0-9	
	PHI101	3-0-0-9	CY1101	3-0-0-9	GPC202 (DC2)	3-0-0-9	GPC206 (DC5)	3-1-0-11	GPC502 (DC9)	3-0-0-9	GPC511 (DC12)	3-0-0-9	GPC517 (DC17)	3-0-0-9	GPC521 (DC19)	3-0-0-9		DE6/ OE4	3-0-0-9	
	PHI102	0-0-2-2	CY1102	0-0-2-2	GLC202 (DC3)	3-0-0-9	GPC207 (DC6)	3-0-0-9	GPC504 (DC10)	3-0-0-9	GPC509 (DC13)	3-0-0-9	DE1	3-0-0-9	DE3	3-0-0-9		GPC598 (Thesis) 18 Credits		
	EI101 Modular	3-0-0-9 (9/2)	MCI103 Modular	2-2-0-5	GLE201 (E/SO1)	3-0-2-11	GPC208 (DC7)	3-0-0-9	GPE202 (E/SO4)	3-0-0-9	GPC510 (DC14)	3-0-0-9	DE2	3-0-0-9	DE4	3-0-0-9				
	EI102 Modular	0-0-3-3 (3/2)	CSI101 Modular	2-1-0-4	E/SO2 Optional	3-0-0-9	E/SO3 Optional	3-0-0-9	HSS	3-0-0-9	MS	3-0-0-9	OE1	3-0-0-9	OE2	3-0-0-9	0-0-0-0 S/X	--	--	
	ECI101 Modular	3-0-0-9 (9/2)	CSI102 Modular	0-0-2-2	GPC203 (DP1)	0-0-2-2	GPC208 (DP4)	0-0-2-2	GPC505 (DP5)	0-0-2-2	GPC512 (DP8)	0-0-2-2	GPC518 (DP11)	0-0-2-2	GPC522 (DP13)	0-0-2-2				
	ECI102 Modular	0-0-3-3 (3/2)	ESI101	1-0-0-3	GPC204 (DP2)	0-0-2-2			GPC507 (DP6)	0-0-2-2	GPC513 (DP9)	0-0-2-2	GPC519 (DP12)	0-0-2-2	GPC523 (DP14)	0-0-2-2				
	CEI101	1-0-3-6	GLI101	1-0-0-3	GLE203 (DP3)	0-0-2-2	--	--	GPC203 (DP7)	0-0-2-2	GPC514 (DP10)	0-0-2-2	--	--	GPS501	0-0-0-0 S/X				
	MEI101	3-1-0-11	MEI102	2-0-3-9	--	--	--	--	--	--	GPS211 (DC15)	0-0-0-0 S/X	--	--	--	--	--	--	--	--
	MSI101	2-0-0-2	HSI101	1-0-2-5	--	--	--	--	--	--			--	--	--	--	--	--	--	--
CCS101	0-0-0-S/X	CCS102	0-0-0-S/X																	
	57		52		53		49		51		51		49		49		36		36	

DUAL DEGREE (CATEGORY-A)	DUAL DEGREE (CATEGORY-B) Geo-exploration												
NOT APPLICABLE	FIFTH		SIXTH		SEVENTH		EIGHTH		NINTH	TENTH			
	GPC501 DCUG	3-0-0-9	GPC205 DCUG	3-0-0-9	GPC502 DCUG	3-0-0-9	GPC553 DEPG	0-0-2-2	36 Credits Thesis	DEPG	3-0-0-9		
	<ul style="list-style-type: none"> In place of OE-1 will take (GPC500), In place of OE-2 will take (GPC205), In place of OE-3 will take (GPC502), In place of OE-4 will take (GPC202), 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)				GPC505 DPUG	0-0-2-2	DEPG	3-0-0-9		DEPG	3-0-0-9		
					GPC202 DCUG	0-0-2-2	GPCOE PG	3-0-0-9		One course from each basket		One course from each basket	
					GPC204 DPUG	3-0-0-9							
				GPC551 DCPG	3-0-0-9					GPC598 18 Credits Thesis			

NOTE: (1) In lieu of Four DCUG (DCPG if the second department does not have any UG program) courses of the Dual Degree (Category-B) will be considered as OE-1, OE-2, OE-3 & OE-4 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	
GPE202	Geophysical Prospecting	GPD510	Reservoir Geophysics and Deep-Water Imaging
GPD502	Formation Evaluation		

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

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 : 164
- Department Elective : 45
- Department Practical : 28
- Engineering/Science Option : 38
- Open Elective : 27
- Thesis Units ; 54 (9x6)
- HSS/MS : 18

LIST OF E/SO	
Guided	Offered
GLE 201	GPE202
GPE202	GPE201

LIST OF DEPARTMENTAL ELECTIVES (DE)				
Basket of (DE-1)	Basket of (DE-2)	Basket of (DE-3)	Basket of (DE-4)	Basket of (DE-5)
GPD501	GPD502	GPD507	GPD509	GPD505
GPD504	GPD503	GPD508	GPD510	GPD506

LIST OF OPEN ELECTIVES (OE)	
Monsoon	Winter
GPO501	GPO503
GPO502	GPO504

Total : **483**

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