

COURSE STRUCTURE

B.Tech. and B.Tech.-M.Tech. Dual Degree (Category-A & B) and Double Major (Electronic Engineering)

		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	ECC201 (DC1)	3-0-0-9	ECE201 (E/SO3)	3-0-0-9	ECC301 (DC8)	3-0-0-9	ECC306 (DC11)	3-0-0-9	DE1	3-0-0-9	DE3	3-0-0-9	DUAL DEGREE	DUAL DEGREE
		PHI101	3-0-0-9	CYI101	3-0-0-9	ECC202 (DC2)	3-1-0-11	ECC206 (DC4)	3-1-0-11	ECC302 (DC9)	3-0-0-9	ECC307 DC12	3-0-0-9	DE2	3-0-0-9	DE4	3-0-0-9		
		PHI102	0-0-2-2	CYI102	0-0-2-2	ECC203 (DC3)	3-0-0-9	ECC207 (DC5)	3-0-0-9	ECC303 DC10	3-0-0-9	MS	3-0-0-9	OE3	3-0-0-9	OE6	3-0-0-9		
		EEI101 Modular	3-0-0-9 (9/2)	MCI103 Modular	2-2-0-5	(E/SO1) Optional	3-0-0-9	ECC208 (DC6)	3-0-0-9	HSS	3-0-0-9	OE1	3-0-0-9	OE4	3-0-0-9	OE7/HSS	3-0-0-9		
		EEI102 Modular	0-0-3-3 (3/2)	CSI101 Modular	2-1-0-4	MCC505 (E/SO2)	3-0-0-9	ECC209 (DC7)	3-0-0-9	E/SO4 Optional	3-0-0-9	OE2	3-0-0-9	OE5	3-0-0-9	ECC402 (UGP2)	0-0-0-6		
		ECI101 Modular	3-0-0-9 (9/2)	CSI102 Modular	0-0-2-2	ECC204 (DP1)	0-0-2-2	ECC210 (DP3)	0-0-3-3	ECC304 (DP5)	0-0-3-3	ECC308 (DP7)	0-0-3-3	ECC401 (UGP1)	0-0-0-6	--	--		
		ECI102 Modular	0-0-3-3 (3/2)	ESI101	1-0-0-3	ECC205 (DP2)	0-0-2-2	ECC211 (DP4)	0-0-2-2	ECC305 (DP6)	0-0-3-3	ECC309 (DP8)	0-0-2-2	ECS401 (DC12)	0-0-0-0 S/X	--	--		
		CEI101	1-0-3-6	GLI101	1-0-0-3	--	--	--	--	--	--	--	--	--	--	--	--		
		MEI101	3-1-0-11	MEI102	2-0-3-9	--	--	--	--	--	--	--	--	--	--	--	--		
		MSI101	2-0-0-2	HSI101	1-0-2-5	--	--	--	--	--	--	--	--	--	--	--	--		
		CCS101	S/X	CCS102	S/X	--	--	--	--	--	--	--	--	--	--	--	--		
			57		52		51		52		51		50		51		42		

DUAL DEGREE (CATEGORY-A)										DUAL DEGREE (CATEGORY-B)													
FIFTH		SIXTH		SEVENTH		EIGHTH		NINTH		TENTH		FIFTH		SIXTH		SEVENTH		EIGHTH		NINTH		TENTH	
ECC500 DCPG	3-0-0-9	DEPG/ OEPG	3-0-0-9	ECC503 DCPG	3-0-0-9	DEPG/ OEPG	3-0-0-9	ECC597 36 Credits Thesis	DEPG/ OEPG	3-0-0-9	ECC301 DCUG	3-0-0-9	ECC306 DCUG	3-0-0-9	ECC202 DCUG	3-1-0-11	DEPG/ OEPG	3-0-0-9	ECC597 36 Credits Thesis	DEPG/ OEPG	3-0-0-9	DEPG/ OEPG	3-0-0-9
ECC505 DPPG	0-0-3-3	Any one from the basket given in the next page		Any one from the basket given in the next page		Any one from the basket given in the next page		ECC598 18 Credits Thesis	DEPG/ OEPG	3-0-0-9	ECC305 DPUG	0-0-3-3	ECC308 DPUG	0-0-3-3	ECC205 DPUG	0-0-2-2	DEPG/ OEPG	3-0-0-9	ECC598 18 Credits Thesis	DEPG/ OEPG	3-0-0-9	One course from each basket	
									One course from each basket			<ul style="list-style-type: none"> • In place of OE-1 will take (ECC301), • In place of OE-2 will take (ECC306), • In place of OE-3 will take (ECC202), • In place of OE-4 will take (ECC302), 		ECC302 DCUG	3-0-0-9	DEPG/ OEPG	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)		ECC304 DPUG	0-0-3-3	ECC500 DCPG	3-0-0-9	One course from each basket						

DOUBLE MAJOR (SECOND MAJOR IN OTHER DEPARTMENT)																Department Practical, if any			
MONSOON SEMESTER		MCC505* ESO	3-0-0-9	ECC203 DC	3-0-0-9	ECC301 DC	3-0-0-9	ECC302 DC	3-0-0-9	ECC303 DC	3-0-0-9	DE1	3-0-0-9	DE2	3-0-0-9	ECC204	ECC305		
WINTER SEMESTER		ECE201* ESO	3-0-0-9	ECC206 DC	3-1-0-11	ECC207 DC	3-0-0-9	ECC209 DC	3-0-0-9	ECC307 DC	3-0-0-9	DE3	3-0-0-9	DE4	3-0-0-9	ECC210	ECC211	ECC309	

NOTE: (1) *Two ESOs guided/optional prescribed in the course structure of Double Major program and the same is taken by the students for completion of the course work of the Double Major in the slot of their optional ESO, both the ESOs will fulfil the ESO credit requirement of the Double Major program as well as B.Tech. degree. **(2)** In lieu of Four DCUG (DCPG if the second department does not have any UG program) courses of the Dual Degree (Category-B & C) and Double Major Program 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.

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LIST OF COURSES FOR COMPLETION OF MINOR

MONSOON SEMESTER		WINTER SEMESTER	
ECC203	Digital Circuits and System Design	ECC209	Microprocessors and Microcontrollers
ECO561	Embedded System Design		

TITLE OF THE MINOR: Embedded System Design

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 : 112
- Department Elective : 36
- Department Practical : 20
- Engineering/Science Option : 36
- Open Elective : 63
- HSS+MS : 18 (9+9)
- UGP-1 & UGP-2 : 12 (6+6)

Total : **406**

LIST OF E/SO	
Guided	Offered
--	ECE201
--	ECE301

LIST OF DEPARTMENTAL ELECTIVES OF B.TECH PROGRAM		
ECD401	ECD408	ECD415
ECD402	ECD409	ECD416
ECD403	ECD410	ECD544
ECD404	ECD411	ECD417
ECD405	ECD412	ECD418
ECD406	ECD413	ECD419
ECD407	ECD414	ECD503

LIST OF OPEN ELECTIVES OF B.TECH PROGRAM	
ECO301	ECO 501
ECO302	ECO402
ECO303	ECO 500

Minimum Credit requirements for completion of Additional Academic Program

Dual Degree (Category-A)		Dual Degree (Category-)		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 Department • 4 DE of Second Department 	18 Credits (Not to be counted in the Second Major) 72 Credits 54 Credits Total: 108 Credits