Details of Specialization Courses (Disciplinary)

Construction Management: Construction Management is a specialization required most at construction sites. A Civil Engineering graduate who aspires to make his career in construction industry should opt for this specialization. As the construction industry is modernizing day by day, new technologies and automation is need of the hour. This specialization will equip students with modern day construction practices.

Sr.	For Construc		Contact Hours				Credits	
No.	Course code	Course Title	Semester	L	L T P Total		Credits	
1	CE351	Sustainable Construction	Third	3	-	-	3	3
2	CE352	Construction Planning and Control Fourth 3 3		3	3			
3	CE353	Construction Safety and Health Fifth 3		-	3	3		
4	CE354	Advances In Construction Materials	Sixth	3	-	-	3	3
5	CE355	Value Engineering Seventh 3 3		3	3			
6	CE356	Construction Financial Management Seventh 3 3		3	3			
7	CE401	Project Oriented Practice	Eight	-	-		4	2
							22	20

Structural Engineering: Students who aspire to make their careers in Structural Design should opt for this specialisation. This specialization will equip students with required skills to design structures other than general buildings. With more and more research in construction materials our structures are getting bigger and taller. These structures are subjected to various loads other than Dead Load and Live Load. This specialization will also be helpful for students who want pursue higher studies in the field of Structural Engineering.

S.No.	Course	Course Title	Semester	Co	Contact Hours		Credit	
	Code			L	T	P	Total	
1	CE361	Concrete Technology	Third	3	-	-	3	3
2	CE402	Concrete Technology Lab	Third	-	-	2	2	1
3	CE362	Numerical Techniques in Civil Engineering	Fourth	3	-	-	3	3
4	CE363	Health Monitoring of Structures	Fifth	3	-	-	3	3
5	CE403	Structural Health Monitoring Lab	Fifth					1
6	CE364	Special Reinforced Concrete Structures	Sixth	3	-	-	3	3
7	CE365	Structural Design and Detailing	Seventh	nth 3 3		3		
8	CE366	Earthquake Engineering	Eighth	3	3 3		3	
			Total			,	22	20

Quantity Surveying: Quantity Surveying is a specialization required most for project planning and execution. A Civil Engineering graduate who aspires to make his career in construction industry

should opt for this specialization. Specialization in Quantity Surveying emphasizes on the Economic, Legal, Financial and Managerial techniques of the construction process for the student to obtain an in-depth knowledge in these sectors. This specialization will equip students with modern day project planning and management.

Sr.	F		Contact Hours				Credi	
No.	Course code	code Course Title S		L	T	P	Total	ts
1	CE371	Building Planning and Drawing	Third	2	1	-	3	3
2	CE372	Estimation of Buildings and Roads	Fourth 3 3		3	3		
3	CE373	Quantity Surveying of Bridges and Hydraulic Structures	Fifth	3	-	-	3	3
4	CE374	Construction Contracts and Laws	Sixth	3	-	-	3	3
5	CE375	Quality Assurance & Quality Control	Seventh	3	-	-	3	3
6	CE356	Construction Financial Management	Seventh	3	-	-	3	3
7	CE401	Project Oriented Practice Eight		-	-		4	2
			TOTAL				22	20

Details of Minor Specialization Courses (Inter-disciplinary)

		Minor Specialization 1 : Digital Marketi	ng			
S.No	Course Code	Course Name	Credits	L	T	P
1	HS307	Consumer behaviour	3	3	0	0
2	HS308	Ethics, IPR and Cyber laws	3	0	0	
3	HS309	Digital Marketing research	3	0	0	
4	HS310	Introduction to Social Media Marketing	3	3	0	0
5	HS311	Introduction to E-commerce	3	3	0	0
6	HS312	Digital Marketing Analytics	3	3	0	0
7	*	Minor Project	2	0	0	4
	•	Minor Specialization 2 : Marketing				
S.No	Course Code	irse Code Course		L	T	P
1	HS313	Consumer behaviour	3	3	0	0
2	HS314	Marketing management	3	3	0	0
3	HS315	Marketing research	3	3	0	0
4	HS316	Services marketing	3	3	0	0
5	HS317	Brand management	3	3	0	0
6	HS318	Sales and distribution management	3	3	0	0
7	*	Minor Project	2	0	0	4
	N	Iinor Specialization 3: Financial Manage	ment			
S.No		Course	Credits	L	T	P
1	HS319	Fundamentals of Accounting		3	0	0

2	HS320	Financial Management	3	3	0	0			
3	HS321	Financial Modeling	3	3	0	0			
4	HS322	Fundamentals of Financial Markets	3	3	0	0			
5	HS323	Security Analysis & Investment	3	3	0	0			
		Management							
6	HS324	International Financial Management	3	3	0	0			
7	*	Minor Project	2	0	0	4			
Minor Specialization 4: Human Resource Management									
S.No		Course	Credits	L	T	P			
1	HS325	Human Resource Management	3	3	0	0			
2	HS326	Team Building and Leadership	3	3	0	0			
3	HS327	Performance Management	3	3	0	0			
4	HS328	Training & Development	Č						
5	HS329	Organizational Change	Organizational Change 3 3		0	0			
6	HS330	Negotiation & Counselling	3	3	0	0			
7	*	Minor Project	2	0	0	4			

^{*} To be decided later

Department of Civil Engineering

Micro-Specializations

	Name of Micro Specialization	Head Course (s)			Elective Courses				
	Y	Course Name	Semester	Credits	Course Name	Semester	Credits		
	Transportation Engineering		III	3 + 1 = 4	Traffic Engineering	V	3		
					Airport and Railway Engineering	VI	3		
1					Intelligent Transportation System	VII	3		
					Highway Construction, Maintenance and Management	VIII	3		
	Structural Engineering	tural Engineering Structural Analysis – I I	IV		Advanced Concrete Technology	V	3		
2				4	Structural Analysis -2	VI	3		
2					Sensing Technologies and SHM	VII	3		
					Earthquake Resistant Structures	VIII	3		