

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. No.	For Construction Management		Semester	Contact Hours				Credits
	Course code	Course Title		L	T	P	Total	
1	18B11CE911	Sustainable Construction	Third	3	-	-	3	3
2	18B11CE912	Construction Planning and Control	Fourth	3	-	-	3	3
3	18B11CE913	Construction Safety and Health	Fifth	3	-	-	3	3
4	18B11CE914	Advances In Construction Materials	Sixth	3	-	-	3	3
5	18B11CE915	Value Engineering	Seventh	3	-	-	3	3
6	18B11CE916	Construction Financial Management	Seventh	3	-	-	3	3
7	18B17CE971	Project Oriented Practice	Eight	-	-	-	4	2
			TOTAL				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.

Sr. No.	For Structural Engineering		Semester	Contact Hours				Credits
	Course code	Course Title		L	T	P	Total	
1	18B11CE917	Recent Advances In Construction Materials	Third	3	0		3	3
2	18B11CE918	Theory of Structures	Fourth	2	1		3	3
3	21B11CE929	Experimental Stress Analysis	Fifth	3	0		3	3
4	18B11CE919	Special Reinforced Concrete Structures	Sixth	3	0		3	3
5	18B11CE921	Earthquake Engineering	Seventh	3	0		3	3
6	18B11CE922	Design of Industrial Structures	Seventh	3	-	-	3	3
7	18B17CE972	Project Oriented Practice	Eight	-	-	-	4	2
			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. No.	For Quantity Surveying		Semester	Contact Hours				Credits
	Course code	Course Title		L	T	P	Total	
1	18B11CE923	Building Planning and Drawing	Third	2	1	-	3	3
2	18B11CE924	Estimation of Buildings and Roads	Fourth	3	-	-	3	3
3	18B11CE925	Quantity Surveying of Bridges and Hydraulic Structures	Fifth	3	-	-	3	3
4	18B11CE926	Construction Contracts and Laws	Sixth	3	-	-	3	3
5	18B11CE916	Construction Financial Management	Seventh	3	-	-	3	3
6	18B11CE927	Quality Assurance & Quality Control	Seventh	3	-	-	3	3
7	18B17CE973	Project Oriented Practice	Eight	-	-	-	4	2
			TOTAL				22	20

Details of Specialization Courses (Inter-disciplinary)

Cement Manufacturing and Application (from CHE): Cement Industry offer very good career in technical sales and marketing to Civil Engineering graduates. This specialization will offer good insights into cement chemistry and cement manufacturing processes. Also students will learn about various types of cement and their applications. There is a huge demand for technical manpower to handle issues of cement and concrete at sites. Students who wish to make their career in cement industry should opt for this specialization.

Sr. No.	For Cement Manufacturing and Application		Semester	Contact Hours				Credits
	Course code	Course Title		L	T	P	Total	
1	18B11CL911	Chemistry of Cement	Third	3	0		3	3
2	18B11CL912	Raw Materials and Raw Mix Design	Fourth	3	0		3	3
3	18B11CL913	Applications of Cement	Fifth	3	0		3	3
4	18B11CL914	Energy and Environmental aspects in Cement Manufacturing	Sixth	3	0		3	3
5	18B11CL915	Pyroprocessing	Seventh	3	0		3	3
6	18B11CL916	Size reduction in Cement Manufacturing	Seventh	3	0		3	3
7	18B17CL971	Project Oriented Practice	Eight	-	-		4	2
			TOTAL				22	20

Specialization-2 : Human Resource Management							
S.No	Course code	Dept.	Course	L	T	P	Credits
1	18B11HS911	HSS	Human Resource Management	3	0	0	3
2	18B11HS912	HSS	Team Building and	3	0	0	3

			Leadership				
3	18B11HS913	HSS	Performance Management	3	0	0	3
4	18B11HS914	HSS	Training & Development	3	0	0	3
5	18B11HS915	HSS	Organizational Change	3	0	0	3
6	18B11HS916	HSS	Negotiation & Counseling	3	0	0	3
7	18B17HS971	HSS	Minor Project				2

Specialization-3 : Financial Management							
S.No	Course code	Dept.	Course	L	T	P	Credits
1	18B11HS918	HSS	Fundamentals of Accounting	3	0	0	3
2	18B11HS919	HSS	Financial Management	3	0	0	3
3	18B11HS920	HSS	Financial Modeling	3	0	0	3
4	18B11HS921	HSS	Fundamentals of Financial Markets	3	0	0	3
5	18B11HS922	HSS	Security Analysis & Investment Management	3	0	0	3
6	18B11HS923	HSS	International Financial Management	3	0	0	3
7	18B17HS972	HSS	Minor Project				2

Specialization-4 : Digital Marketing							
S.No	Course code	Dept.	Course	L	T	P	Credits
1	18B11HS925	HSS	Consumer Behavior	3	0	0	3
2	18B11HS926	HSS	Ethics, IPR and Cyber laws	3	0	0	3
3	18B11HS927	HSS	Digital Marketing research	3	0	0	3
4	18B11HS928	HSS	Introduction to Social Media Marketing	3	0	0	3
5	18B11HS929	HSS	Digital Marketing	3	0	0	3
6	18B11HS930	HSS	Digital Marketing Analytics	3	0	0	3
7	18B17HS973	HSS	Minor Project				2

Specialization-5 : Marketing							
S.No	Course code	Dept.	Course	L	T	P	Credits
1	18B11HS932	HSS	Consumer behavior	3	0	0	3
2	18B11HS933	HSS	Marketing management	3	0	0	3
3	18B11HS934	HSS	Marketing research	3	0	0	3
4	18B11HS935	HSS	Services marketing	3	0	0	3
5	18B11HS936	HSS	Brand management	3	0	0	3
6	18B11HS937	HSS	Sales and Distribution management	3	0	0	3
7	18B17HS974	HSS	Minor Project				2