

Chemistry Department , IIT
M.Tech. (Advanced Methods of Chemical Analysis)
COURSE STRUCTURE

Ist Year
Autumn Semester

Teaching Scheme					Contact Hrs per Week			Exam. Dur. (hr)		Relative Weightage (%)				
S. No.	Sub Code	Courses Title	Sub. Area	Credits	L	T	P	T	P	CWS	PRS	MTE	ETE	PRE
1	CYN-711	Lab-I	PCC	4	0	0	8	0	6	-	50	-	0	50
2	CYN-721	Analytical Methods	PCC	3	3	0	0	3	0	25	-	25	50	-
3	CYN-731	Characterization Techniques	PCC	3	3	0	0	3	0	25	-	25	50	-
4	CYN-741	Chemometrics and Modeling	PCC	4	3	0	2	3	0	15	25	20	40	-
5		Programme Elective-I	PEC	3	3	0	0	3	0	25	-	25	50	-
Sub Total				17										

Spring Semester

Teaching Scheme					Contact Hrs per Week			Exam. Dur. (hr)		Relative Weightage (%)				
S. No.	Sub Code	Courses Title	Sub. Area	Credits	L	T	P	T	P	CWS	PRS	MTE	ETE	PRE
1	CYN-712	Lab-II	PCC	4	0	0	8	0	6	-	50	-	-	50
2		Programme Elective II	PEC	3	3	0	0	3	0	25	-	25	50	-
3		Programme Elective III	PEC	3	3	0	0	3	0	25	-	25	50	-
4		Programme Elective IV	PEC	3	3	0	0	3	0	25	-	25	50	-
5		Programme Elective V	PEC	3	3	0	0	3	0	25	-	25	50	-
6		Programme Elective VI	PEC	3	3	0	0	3	0	25	-	25	50	-
7	CY 700	Seminar	SEM	2	-	-	-	-	-	-	-	-	100	
Sub Total				21										

2nd Year : (Autumn) Third Semester														
Teaching Scheme					Contact hr per Week			Exam Durn (hr)		Relative Weightage (%)				
S. No.	Subject Code	Courses Title	Subject Area	Credits	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
1	CYN-701A	* dissertation stage-I (to be continued next semester)	DIS	12	-	-	-	-	-	-			100	
Sub Total				12										

* Dissertation : To be continued and grade to be awarded in the next semester.

2nd Year : (Spring) Fourth Semester														
Teaching Scheme					Contact hr per Week			Exam Durn (hr)		Relative Weightage (%)				
S. No.	Subject Code	Courses Title	Subject Area	Credits	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
1	CYN-701B	Dissertation stage-II (continued from III semester)	DIS	18	-	-	-	-	-	-			100	
Sub Total				18										

Total- PCC - 18, PEC - 18, Seminar – 02, DIS - 30

Summary				
Semester	1	2	3	4
Subject-wise Total credits	17	21	12	18
Total Credits	68			

List of Program Electives Courses in First Semester M.Tech. Program

Teaching Scheme				Contact Hrs / week			Exam. Duration hrs.		Relative Weightage(%)				
S. No	Subject Code	Course Title	Credit	L	T	P	T	P	CWS	PRS	MTE	ETE	PRE
1	CYN-751	Analysis of Industrial Polymers	03	3	0	0	3	0	25	-	25	50	-
2	CYN-611	Molecular Spectroscopy	03	3	0	0	3	-	25	-	25	50	-

List of Program Electives Courses in Second Semester M.Tech. Program

Teaching Scheme				Contact Hours Per Week			Exam. Duration hrs.		Relative Weightage(%)				
S. No.	Subject Code	Title	Credit	L	T	P	T	P	CWS	PRS	MTE	ETE	PRE
1	CYN-722	Pharmaceutical Organic Synthesis	03	3	0	0	3	0	25	-	25	50	-
2	CYN-722	Environmental Chemistry	03	3	0	0	3	0	25	-	25	50	-
3	CYN-742	Analysis of Materials	03	3	0	0	3	0	25	-	25	50	-
4	CYN-752	Analysis of Food and Drugs	03	3	0	0	3	0	25	-	25	50	-
5	CYN-762	Drug Design and Action	03	3	0	0	3	0	25	-	25	50	-
6	CYN-772	Nuclear Techniques for Analysis and Characterization	03	3	0	0	3	0	25	-	25	50	-
7	CYN-782	Chemistry of Industrial Processes	03	3	0	0	3	0	25	-	25	50	-