

**MASTER OF SCIENCE
IN
CHEMISTRY**

Program Code: CHM

Duration: 2 Years

Teaching & Scheme of Examination

FROM SESSION: 2019-2020 Onwards



**Department of Chemistry
Faculty of Science**

**CHHATRAPATI SHIVAJI MAHARAJ
UNIVERSITY PANVEL, NAVI MUMBAI**

**Teaching & evaluation Scheme
Semester-I**

Course Code	Course Name	L	T	P	IA	UE	Total Marks	Credits
CHMC101	Physical Chemistry.-I	4	0	0	30	70	100	4
CHMC102	Inorganic Chemistry.-I	4	0	0	30	70	100	4
CHMC103	Organic Chemistry.-I.	4	0	0	30	70	100	4
CHMC104	Analytical Chemistry.-I.	4	0	0	30	70	100	4
CHMC191	Physical Chemistry.-I Lab.	0	0	4	15	35	50	2
CHMC192	Inorganic Chemistry.-I Lab.	0	0	4	15	35	50	2
CHMC193	Organic Chemistry.-I. Lab.	0	0	4	15	35	50	2
CHMC194	Analytical Chemistry.-I. Lab	0	0	4	15	35	50	2
	Total	16	0	16	180	420	600	24

Semester-II

Course Code	Course Name	L	T	P	IA	UE	Total Marks	Credits
CHMC201	Physical Chemistry.-II	4	0	0	30	70	100	4
CHMC202	Inorganic Chemistry.-II	4	0	0	30	70	100	4
CHMC203	Organic Chemistry.-II.	4	0	0	30	70	100	4
CHMC204	Analytical Chemistry.-II.	4	0	0	30	70	100	4
CHMC291	Physical Chemistry.-II Lab.	0	0	4	15	35	50	2
CHMC292	Inorganic Chemistry.-II Lab.	0	0	4	15	35	50	2
CHMC293	Organic Chemistry.-II.Lab.	0	0	4	15	35	50	2
CHMC294	Analytical Chemistry- II.Lab.	0	0	4	15	35	50	2
	Total	16	0	16	180	420	600	24

Semester-III

Course Code	Course Name	L	T	P	IA	UE	Total Marks	Credits
CHMS30*	Special Paper – I	4	0	0	30	70	100	4
CHMS30*	Special Paper – II	4	0	0	30	70	100	4
CHME30*	Elective-I	4	0	0	30	70	100	4
CHME30*	Elective-II	4	0	0	30	70	100	4
CHMS39*	Special Paper I Lab.	0	0	4	15	35	50	2
CHMS39*	Special Paper II Lab.	0	0	4	15	35	50	2
CHME39*	Elective Paper I Lab.	0	0	4	15	35	50	2
CHME39*	Elective Paper II Lab.	0	0	4	15	35	50	2
	Total	16	0	16	180	420	600	24

Semester-IV

Course Code	Course Name	L	T	P	IA	UE	Total Marks	Credits
	Theory							
CHMS40*	Special Paper – III	4	0	0	30	70	100	4
CHMS40*	Special Paper – IV	4	0	0	30	70	100	4
CHME40*	Elective-III	4	0	0	30	70	100	4
CHMS49*	Special Paper I Lab.	0	0	4	15	35	50	2
CHMS49*	Special Paper II Lab.	0	0	4	15	35	50	2
CHMS482	Project	0	0	8	-	-	200	8
	Total	12	0	16	180	420	600	24

Total Marks: 2400

Total Credit: 96

List of Elective and Special Papers:

Semester	Course Code (T+P)	Course Name	(L-T-P)	Credits
Semester	Course Code (T+P)	Course Name	(L-T-P)	Credits
		Special Papers		
		Elective Paper-I		
III	CHME301+ CHME391	Nuclear Chemistry-I	4-0-4	6
III	CHMS301+ CHMS392	Physical Chemistry-I	4-0-4	6
III	CHME302+ CHME392	Environmental Chemistry I	4-0-4	6
III	CHMS302+ CHMS392	Inorganic Chemistry-I	4-0-4	6
III	CHME303+ CHME393	Polymer Chemistry-I	4-0-4	6
III	CHMS303+ CHMS393	Organic Chemistry-I	4-0-4	6
III	CHME304+ CHME394	Medicinal Chemistry-I	4-0-4	6
III	CHMS304+ CHMS394	Analytical Chemistry-I	4-0-4	6
		Elective Paper -II		
		Special Paper -II		
III	CHME305+ CHME395	Applied Analytical Chemistry-I	4-0-4	6
III	CHMS305+ CHMS395	Physical Chemistry-II	4-0-4	6
III	CHME306+ CHME396	Spectroscopy -I	4-0-4	6
III	CHMS306+ CHMS396	Inorganic Chemistry-II	4-0-4	6
		Elective Paper-III		
IV	CHMS307+ CHMS397	Organic Chemistry-II	4-0-4	6
IV	CHME401+ CHME491	Nuclear Chemistry - II	4-0-4	6
IV	CHMS308+ CHMS398	Analytical Chemistry-II	4-0-4	6
IV	CHME402+ CHME492	Environmental Chemistry- II	4-0-4	6
		Special Paper-III		
IV	CHMS401+ CHMS491	Physical Chemistry-III	4-0-4	6
IV	CHME404+ CHME494	Medicinal Chemistry-II	4-0-4	6
IV	CHMS402+ CHMS492	Inorganic Chemistry-III	4-0-4	6
IV	CHMS403+ CHMS493	Organic Chemistry-III	4-0-4	6
IV	CHMS404+ CHMS494	Analytical Chemistry-III	4-0-4	6
		Special Paper-IV		
IV	CHMS405+ CHMS495	Physical Chemistry-IV	4-0-4	6
IV	CHMS406+ CHMS496	Inorganic Chemistry-IV	4-0-4	6
IV	CHMS407+ CHMS497	Organic Chemistry-IV	4-0-4	6
IV	CHMS408+ CHMS498	Analytical Chemistry-IV	4-0-4	6