

Credit System Ordinance

**SCHOOL OF CHEMICAL SCIENCES
SWAMI RAMANAND TEERTH MARATHWADA
UNIVERSITY, NANDED**



Choice Based Credit System (CBCS)

Features of the credit system

With effect from academic year 2019-2020

FEATURES OF THE CREDIT SYSTEM

1. Master's degree would be of 100 credits each.
2. The 2 credit course of theory will be of 2 clock hours per week running for 12 weeks.
3. The 4 credit course of theory will be of 4 clock hours per week running for 12 weeks
4. The 4 credit course of practical's will consist of 8 hour of laboratory exercise for 12 weeks
5. The 8 credit course of research project/industrial training will consist of (a) 16 hour of laboratory exercise for 12 weeks or (b) 196 hours of work
6. One credit course of seminar will be of 15 clock hour running for 12 weeks.

Note: Open electives (for 8 credits) may preferably be chosen during semester I, II, III. As a result students can opt more credits per semester than specified as following

Semester I and II shall have 5 Theory courses, 2 Practical courses and 1 Seminar.

3 Theory Core Courses	x 4 credits	=	12 credits
2 Theory Core Courses	x 2 credits	=	04 credits
2 Practical courses	x 4 credits	=	08 credits
1 Seminar	x 1 credit	=	01 credit

Total	=	25 credits
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Semester III shall have 4 Theory courses, 2 Practical courses and 1 Seminar.

2 Theory Core Courses	x 4 credits	=	08 credits
1 Theory Elective (Intra) Course	x 4 credits	=	04 credits
1 Theory Elective (Inter) Course	x 4 credits	=	04 credits
2 Practical courses	x 4 credits	=	08 credits
1 Literature survey and Seminar	x 2 credit	=	02 credit

Total	=	26 credits
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Semester IV shall have 4 Theory courses, 1 Research project/Industrial training and 1 Seminar.

2 Theory Core Courses	x 4 credits	=	08 credits
1 Theory Elective (Intra) Course	x 4 credits	=	04 credits
1 Theory Elective (Inter) Course	x 4 credits	=	04 credits
1 Research project/Industrial training	x 8 credits	=	08 credits

Total	=	24 credits
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Each credit carries 25 marks

The assessment will be as follows

- **FOUR CREDITS (THEORY/PRACTICAL) = 100 Marks**



- **Break up of Internal Theory Exam. (50 marks) is as follows:**

Test -1	Test-2	Home Assignment	Total
20	20	10	50

- **Break up of internal/external Practical exam.(50 marks) is as follows,**

Question 1	Question 2	Viva-voce	Record book	Total
20	20	5	5	50

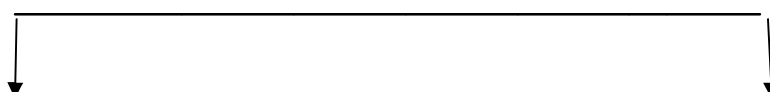
- **2 Credits (THEORY) = 50 MARKS**



- **Break up of Internal Theory Exam. (50 marks) is as follows:**

Test -1	Test-2	Home Assignment	Total
20	-	05	25

- **8 Credits (Research project/Industrial training) = 200 MARKS**



Internal Exam
(100 Marks)

External Exam
(100 Marks)

- Break up of **Internal Theory Exam.** (100 marks) is as follows:

Literature Survey	Defining research problem	Plan for executing the work	Presentation of progress	Total
20	20	20	40	100

- Academic calendar showing dates of commencement and end of teaching, internal assessment test and term end examination shall be duly notified before commencement of each academic year.
- Credits system offers more options to the student.
- Credits system offer more flexibility to the student.
- Student can get requisite credits from the concerned school where he is mutually permitted on terms mutually agreed to complete the same and be eligible to appear for term end examination.
- The term end examinations however, shall be conducted by & at the school.
- Paper setting and assessment for a particular course would be the responsibility of the course in-charge.
- These activities related to the examination would be coordinated by the School Examination committee comprising course In-charges and HOD under supervision of the (Director).

- Marks obtained for each course would be converted to grade points as shown in table 1

Table 1: Conversion of marks to grades in credits system

Marks obtained	Grade	Grade points
100-90	A+	10
89-80	A	09
79-70	B+	08
69-60	B	07
59-55	C+	06
54-45	C	05
44-40	D	04
39 and less	FC	0-FAIL BUT CONTINUE
39 and less internal	FR	0- FAILED (CLEAR COURSE)

- A student who passes the internal tests but failed in semester Examination (External) of course shall be given FC grade.
- Student with FC grade in a course would be granted credits for that course but not the grade for that course. He/she shall have to clear the concerned course within 1.5 year from appearing for the first time in concerned paper, provided the number of courses with FC and FR grades together is 25% or less of the courses of that semester.
- Failing which he/she shall be disqualified for credits and will have to opt for other credits.
- Student who has failed in the internal tests of a course shall be given FR grade and shall have to (clear) the concerned course.

- Grade points earned in each paper shall be calculated as grade points obtained (vide table 1 above) X credits for the paper.
- The Student Performance Index (SPI) gives weighted performance index of a semester with reference to the credits of a course.

The SPI shall be calculated as follows:

$$\text{SPI} = \frac{\text{Total earned grade points for the semester}}{\text{Total credits for the semester}}$$

- Final results: For the final results of a student Cumulative Performance Index (CPI) based on total earned credits vis a vis total earned grade points shall be calculated.

The CPI shall be calculated as follows,

$$\text{CPI} = \frac{\text{Total earned grade points}}{\text{total credits i.e.100}}$$

- Student will have to complete 75 compulsory credits for the concerned course, 15 elective credits in the subject concerned and 10 optional credits incorporated in the syllabus structure of respective master (PG) course.

- Some of the elective credits and optional credits shall be chosen from elective and optional courses offered by the school of Chemical Sciences or other campus schools of the University.

- The school in consultation with the Dean, Faculty of Science can make changes in syllabi.

CPI		FINAL GRADE
9.0	- 10	A+
8.0	- 8.9	A
7.0	- 7.9	B+
6.0	- 6.9	B
5.5	- 5.9	C+
4.5	- 5.4	C
4.0	- 4.4	D
0.0	- 3.9	F

- Final mark list will only show the grade and grade points and not the marks.

School of Chemical Sciences
Swami Ramanand Teerth Marathwada University

M. Sc. Chemistry Core and Elective papers

M. Sc. F. Y. (First Semester)

Sr. No.	Paper No.	Title	Contact hours	Credits
Core papers				
1.	CH-101	Physical Chemistry	60	4
2.	CH-102	Inorganic Chemistry	60	4
3.	CH-103	Organic Chemistry	60	4
4.	CH-104	Basic Principals of Spectroscopy	30	2
5.	CH-105	Symmetry and Group Theory	30	2
Practical courses				
6.	LCH-101	Physical Chemistry (Laboratory course 1)	120	4
7.	LCH-102	Inorganic Chemistry (Laboratory Course 2)	120	4
8.	SCH-101	Seminar	15	1
*Open elective (Students from other schools)				
1.	OCH-101	Lab Safety	30	2

*** This course is available for students from school of chemical sciences as add-on-course**

M. Sc. F. Y. (Second Semester)

Sr. No.	Paper No.	Title	Contact hours	Credits
Core papers				
1.	CH-201	Physical Chemistry	60	4
2.	CH-202	Inorganic Chemistry	60	4
3.	CH-203	Organic Chemistry	60	4
4.	CH-204	Inorganic Spectroscopy	30	2
5.	CH-205	Quantum chemistry & Spectroscopy	30	2
Practical courses				
6.	LCH-201	Organic Chemistry (Laboratory course 1)	120	4
7.	LCH-202	Analytical Chemistry (Laboratory Course 2)	120	4
8.	SCH-201	Seminar	15	1