

new ordinance

## General Ordinance for M.Sc. Programme Chhatrapati Shahu Ji Maharaj University, Kanpur

### Duration of Programme:

1. The degree of M.Sc. Programme shall be conferred on any person who has pursued a regular course of study in university for not less than four semesters (each semester will be of approx. 16 working weeks (i.e. minimum 40 lectures for each paper) or two academic years (24 months).
2. Total duration for completion of M.Sc. programme shall not exceed 4 years.

### Eligibility for Admission:

3. Admission to M.Sc. Programme shall be open to a student who holds a bachelor's degree (minimum three years course) with relevant discipline of science subject with at least 50% (5% relaxation for SC/ST candidate) marks in the aggregate or an equivalent grade point average.

\*Admission to M.Sc.(Bioinformatics) programme shall be open to a student who holds a bachelor's degree in science (special or general with Agriculture Science, Biochemistry, Biology, Biotechnology, Microbiology, Medical Microbiology, BPT, Botany, Chemistry, Electronic Computer Science, Life Science, Mathematics, Physics, Pharmacy, Veterinary Sciences, BCA).

4. The student shall be selected for admission to M.Sc. programme through entrance test conducted by the university and his/her admission shall be finalized on the basis of merit.
5. There shall be provision for admission to candidates of reserved category as per rules of the state government.

### IBT office Attendance Criteria:

1. gms  
1 copy  
for  
0 copy  
H. (Maths)  
chemistry  
GCE  
Kant

6. Any student who pursues a regular course of studies for M.Sc. programme in the university may appear in the examination at the end of the semester. The term of regular course of studies means seventy five percentage attendances in the theory and practical/internal subject for the courses offered in that particular semester. The Vice-chancellor, on the recommendation of head of department, may condone shortage of attendance up to 15% on basis of health problem or some other equally genuine reasons.

### 16.1.2017 Details of Evaluation Procedure:

7. The final examination shall be held at the end of each academic semester.

Received from Mr. Rajiv Saxena  
on 16.8.2017  
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(Latest syllabus of  
M.Sc. Electronics  
M.Sc. Chemistry  
M.Sc. Maths. Ref.)

General Ordinance for M.Sc. Programme  
Chhatrapati Shahu Ji Maharaj University, Kanpur

back in  
3 Paper

11. Only those students who fail in a maximum of three papers in a year will be allowed to appear for back paper examinations. If the student fails in more than three papers in a year, he/she shall be considered as Ex-student. Ex-student shall appear only in external examinations, the internal marks will be carry forward. If the student has only one remaining back paper at the end of fourth semester, he/she shall be allowed for a special back paper.

individual  
35%

overall  
45%  
=

12. The marks obtained in the back paper examination will be treated as final.

13. Only one attempt will be allowed to clear the back paper.

Percentage Criteria	
Pass First Division with Distinction	$\geq$ to 75% Marks
Pass with First Division	$\geq$ 60% and $<$ 75% Marks
Pass with Second Division	$\geq$ 50% and $<$ 60% Marks
Pass with Third Division	$\geq$ 45% and $<$ 50% Marks
Fail	Less than 45% Marks

14. Practical examinations shall be conducted only at the end of the each semester by the panel of examiners (one external and one internal) as per university rules.

15. When enrolled in a summer training/ project, each candidate will be required to submit report and present the work in the form of a seminar. The project will be evaluated by an external examiner, head of department, and faculty members of the department.

16. The rate of remuneration of the examiner in theory paper as well as in practical shall be governed as per university rules.

17. The Vice-Chancellor reserve the right to cancel the admission of any student or group/batch/class of students who indulge(s) in acts of indiscipline, strikes, absence of the classes without permission or without any valid reason or in whose case Vice - Chancellor has reason to believe that their continuance in the university would not be in the best interest of the university.

**General Guidelines for M.Sc. Programmes**  
**Chhatrapati Shahu Ji Maharaj University, Kanpur**

- B. Each semester consists 5 courses (including Lab Courses)
- R. The details of the papers and the distribution of maximum marks for the respective courses in each academic semester as mentioned below:-

S.N.	Papers	Maximum Marks		
		Internal Assessment <sup>a</sup>	External Assessment <sup>b</sup>	Total Marks <sup>c</sup>
1.	Theory paper I	30 Marks	70 Marks	100
2.	Theory paper II	30 Marks	70 Marks	100
3.	Theory paper III	30 Marks	70 Marks	100
4.	Theory paper IV	30 Marks	70 Marks	100
5.	Theory Paper V Practical Seminar Summer Training Project Work	30 Marks	70 Marks	100
		<b>Total Marks 500</b>		

- a. Internal Marks shall be considered on the basis of Mid semester examination, Quizzes, Attendance & Participation of Seminars etc.
- b. External marks of theory paper shall be evaluated on the basis of examination conducted by the university.
- c. (i) External marks of Practical shall be evaluated on the basis of examination conducted in presence of external examiner.  
 (ii) In case, there are two lab courses in a semester the lab component may be split into two labs of 50 marks each. Separate passing will be required in both the lab component.

**M.Sc. First Year**

Semester I	300 Marks
Semester II	300 Marks

**M.Sc. Final Year**

Semester III	300 Marks
Semester IV	300 Marks
<b>Total 2400 Marks</b>	

**Passing Criteria:**

18. The degree must be earned by a student normally within four semesters/two academic years. If at the end of year, a student fails to secure minimum 35% marks in each paper separately and also 45% in the aggregate of all the courses offered in each semester, the student will be declared fail.

**M.Sc.(ELECTRONICS) MARKS DISTRIBUTION ACCORDING TO NEW  
ORDINANCE (2017)**

**SEMESTER - I**

S.No	Paper Code	Title of the Paper	Internal Assessment	External Assessment	Max. Marks
1.	ELC-101	PHYSICS OF ELECTRONIC MATERIALS	30 marks	70 marks	100
2.	ELC-102	SIGNAL ANALYSIS AND MATHEMATICAL METHODS IN ELECTRONICS	30 marks	70 marks	100
3.	ELC-103	C++ PROGRAMMING AND DATA STRUCTURE	30 marks	70 marks	100
4.	ELC-104	SEMICONDUCTOR DEVICES	30 marks	70 marks	100
5.	LAB 1	C++ PROGRAMMING AND DATA STRUCTURE LAB	15 marks	35 marks	50
	LAB 2	SEMICONDUCTOR LAB	15 marks	35 marks	50

**TOTAL=500****SEMESTER - II**

S.No.	Paper Code	Title of the Paper	Internal Assessment	External Assessment	Max. Marks
1.	ELC-201	NETWORK ANALYSIS AND SYNTHESIS	30 marks	70 marks	100
2.	ELC-202	ELECTROMAGNETIC, ANTENNA AND MICROWAVE THEORY	30 marks	70 marks	100
3.	ELC-203	ELECTRONIC CIRCUIT	30 marks	70 marks	100
4.	ELC-204	DIGITAL SYSTEM AND DESIGN	30 marks	70 marks	100
5.	LAB 1	DIGITAL LAB	15 marks	35 marks	50
	LAB 2	ELECTRONIC CIRCUITS LAB	15 marks	35 marks	50

**TOTAL=500****SEMESTER - III**

S.No.	Paper Code	Title of the Paper	Internal Assessment	External Assessment	Max. Marks
1.	ELC-301	CONTROL SYSTEM	30 marks	70 marks	100
2.	ELC-302	IC TECHNOLOGY AND VLSI DESIGN	30 marks	70 marks	100
3.	ELC-303	ANALOG AND DIGITAL COMMUNICATION SYSTEM	30 marks	70 marks	100
4.	ELC-304	ELECTRONIC INSTRUMENTATION AND MEASUREMENTS	30 marks	70 marks	100
5.	LAB	COMMUNICATION LAB	15 marks	35 marks	50
		SEMINAR /SUMMER TRAINING	15 marks	35 marks	50

**TOTAL=500**


**SEMESTER - IV**

S.No.	Paper Code	Title of the Paper	Internal Assessment	External Assessment	Max.Marks
1.	ELC- 401	WIRELESS AND MOBILE COMMUNICATION	30 marks	70 marks	100
2.	ELC-402	MICROPROCESSOR AND MICROCONTROLLER	30 marks	70 marks	100
3.	ELC-403	OPTOELECTRONICS AND OPTICAL COMMUNICATION	30 marks	70 marks	100
4.	ELC-404*	ELECTIVE COURSE	15 marks	35 marks	50
5.	LAB	MICROPROCESSOR AND MICROCONTROLLER LAB	15 marks	35 marks	50
		PROJECT			

**TOTAL=500****\* LIST OF ELECTIVE COURSES**

- ELC-404 (A) POWER ELECTRONICS
- ELC-404 (B) DIGITAL SIGNAL PROCESSING
- ELC-404 (C) BIOMEDICAL ELECTRONICS
- ELC-404 (D) EMBEDDED SYSTEM
- ELC-404 (E) FOUNDATION OF NANO ELECTRONICS
- ELC-404 (F) PROCESSES IN DEVICE FABRICATION
- ELC-404 (G) ARTIFICIAL INTELLEGENCE
- ELC-404 (H) INFORMATION THEORY AND CODING TECHNIQUES
- ELC-404 (I) INDUSTRIAL ECONOMICS AND MANAGEMENT

