



Estd. 1962
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With CGPA 3.52

**SHIVAJI UNIVERSITY, KOLHAPUR - 416004,
MAHARASHTRA**

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शिवाजी विद्यापीठ, कोल्हापूर - ४१६००४, महाराष्ट्र

दूरध्वनी-ईपीएबीएक्स -२६०९०००, अभ्यासमंडळे विभाग दूरध्वनी ०२३१-२६०९००९४



Ref./SU/BOS/Science/ 578

Date : 20/09/2025

To,

The Principal,
All Concerned Affiliated Colleges/Institutions
Shivaji University, Kolhapur

The Head/Co-ordinator/Director
All Concerned Department (Science)
Shivaji University, Kolhapur.

Subject :Regarding Nature of Question Paper and Scheme of Marking as per 60:40 Pattern for all B.Sc. and M.Sc. degree programme from first year under the Faculty of Science and Technology as per National Education Policy, 2020

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the University authorities have accepted and granted approval to the Nature of Question Paper and Scheme of Marking as per 60:40 Pattern for **all B.Sc. and M.Sc. Degree Programme from first year** under the Faculty of Science and Technology as per National Education Policy, 2020.

The **Nature of Question Paper and Scheme of Marking** shall be implemented from the academic year **2025-2026** onwards. A soft copy containing is attached herewith and it is also available on university website www.unishivaji.ac.in (Online Syllabus).

You are therefore, requested to bring this to the notice of all Students and Teachers concerned.

Thanking you,

Yours faithfully,

(Dr. S. M. Kubal)

Dy. Registrar

Encl: As above

for Information and necessary action

Copy to:

1	Dean, Faculty of Science & Technology	6	Appointment Section A & B
2	Director, Board of Examinations and Evaluation	7	I.T.Cell /Computer Centre
3	Chairman, Respective Board of Studies	8	Eligibility Section
4	B.Sc.-M.Sc. Exam Section	9	Affiliation Section (T.1) (T.2)
5	Internal Quality Assurance Cell (IQAC Cell)	10	P.G. Seminar Section

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NATURE OF QUESTION PAPER AND SCHEME OF MARKING

For all B.Sc. and M.Sc. Degree Programme

From First Year 60:40 PATTERN

Under Faculty of Science and Technology

To be implemented from June, 2025 onwards.

B. Sc. PROGRAMME

RULES FOR 60:40 EVALUATION PATTERN

To be implemented from June 2025

Nature of question paper and scheme of marking:

a) Theory (Semester exam) for each Theory paper: Maximum marks – 30

Modality of Assessment

Students appearing for the B.Sc. will be evaluated as per the 60:40 scheme where in the term end exam will be of 30 marks each paper while 20 marks will be through internal evaluation for each paper.

A. Theory Examination

- ✓ Equal weightage shall be given to all units of the theory paper
- ✓ Total number of questions – 03
- ✓ Question one will carry-10 Marks,
- ✓ Question No. 1 will be of an objective type. 10 objectives will carry-10 Marks.
- ✓ Question No. 2 will be descriptive one question to be attempted out of two and will carry 10 Marks)
- ✓ Question No. 3 will be short answer type. Two questions are to be attempted out of three questions and will carry 10 Marks, 05 Marks each)
- ✓ **Nature of questions** - Multiple choice, Descriptive and Short answer type.
- ✓ All these questions will be answered in the same answer book.

Semester End Theory Assessment 30 marks

- The duration of this exam will be of 1 and half Hrs (90 minutes)
- For each unit there will be at least one question
- All questions shall be compulsory with internal choice within the questions

Nature of question paper

Total Marks: 30

Time: 1 and half Hrs (90 minutes)

Instructions:

1. All questions are compulsory.
2. Figures to the **RIGHT** indicate **FULL MARKS**.

Q.1 Multiple choice questions (10 - Questions) ---- 10 marks

- a)
- b)
- :
- :
- j)

Q.2 Attempt any **ONE** of the following.

(Essay type / Broad answer questions) ---- 10 marks

- a)
- b)

Q.3 Attempt any **TWO** of the following ---- 10 marks

- a)
- b)
- c)

B. Internal Assessment 40%

Level	Semester	Activities Per Semester	4 credits	2 credits
4.5 (First year)	I & II	1 Home Assignment	10 marks	5 marks
		2 Class Assignment (Tutorial type)	10 marks	5 marks
		3 Quiz	10 marks	5 marks
		4 Unit Test *	10 marks	5 marks
5.0 (Second Year)	III & IV	1 Oral Examination	10 marks	5 marks
		2 Group Discussion	10 marks	5 marks
		3 Seminar	10 marks	5 marks
		4 Unit Test*	10 marks	5 marks
5.5 (Third Year)	V & VI	1 Case Study / Problem solving	10 marks	5 marks
		2 Field Work / Seminar	10 marks	5 marks
		3 Book Review / Poster Presentation	10 marks	5 marks
		4 Unit Test*	10 marks	5 marks
6.0 (Fourth Year)	VII & VIII	1 Seminar	10 marks	5 marks
		2 Case Study/ Problem Solving	10 marks	5 marks
		3 Book Review / Poster Presentation	10 marks	5 marks
		4 Unit Test*	10 marks	5 marks

Note:

1. For two credit course, unit test of 10 marks shall be conducted and it is converted into 5 marks.
2. For four credit course, unit test of 10 marks shall be conducted.
3. Book Review (Any relevant Reference Book)

PRACTICAL EXAMINATION

- There will be semester wise practical examination to be conducted at the end of each semester. The question paper along with marking scheme and skeleton / Question paper will be given by respective BOS before practical examination.
- Total marks -50 for each semester -I and II (will be evaluated by two internal examiners.)
- Total-50 Marks for each semester-III and IV (Major, Minor, VSC and CEP courses will be evaluated by one internal examiner and one external examiner. OE, SEC, CC courses will be evaluated by two internal examiners.)
- Total-50 Marks (2 credit course) for each semester-V and VI (will be evaluated by two external examiners.)
- Total-100 Marks (4 credit course) for each semester-V and VI (will be evaluated by two external examiners)
- External examiners are provided by University. Internal examiners are from respective college fulltime regular faculty. If fulltime regular faculty is not available in college, then principal of the college shall invite internal examiner from fulltime regular faculty appointed in nearby college.

M. Sc. PROGRAMME

RULES FOR 60:40 EVALUATION PATTERN

To be implemented from June 2025

Scheme for Assessment:

Total marks for each course shall be based on continuous assessments and semester-end examination. Combination of internal assessment (for theory course only) and semester- end examination for Post-graduate programmes will be as follows:

Total marks for each course = 100%

Internal Assessment = 40%

Semester-end Examination = 60%

Important: There shall be separate passing head for Internal Assessment and Semester-end Examination for both theory as well as practical courses.

A. Question Paper Pattern for the Semester-end Examination (Theory)

(The respective BOS shall select any one-question paper pattern from below)

i. Theory Examination of 4 Credit course (Total Marks: 60; Time: 2 hours)

Instruction: All the 5 questions are compulsory.

Q. 1: Any *one* of the following- 12 marks

a) Based on Unit I

b) Based on Unit I

Q. 2: Any *one* of the following- 12 marks

a) Based on Unit II

b) Based on Unit II

Q. 3: Any *one* of the following- 12 marks

a) Based on Unit III

b) Based on Unit III

Q. 4: Any *one* of the following- 12 marks

a) Based on Unit IV

b) Based on Unit IV

Q. 5: Any *four* of the following- 12 marks

a) Based on Unit I

b) Based on Unit II

c) Based on Unit III

d) Based on Unit IV

e) Based on Unit I/II

f) Based on Unit III/IV

OR

i) Theory Examination of 4 Credit course (Total Marks: 60; Time: 2 hours)

Instruction: All the 5 questions are compulsory.

Q. 1: Any *one* of the following- 12 marks

- a) Based on Unit I
- b) Based on Unit I

OR

- a) Based on Unit I
- b) Based on Unit I

Q. 2: Any *one* of the following- 12 marks

- a) Based on Unit II
- b) Based on Unit II

OR

- a) Based on Unit II
- b) Based on Unit II

Q. 3: Any *one* of the following- 12 marks

- a) Based on Unit III
- b) Based on Unit III

OR

- a) Based on Unit III
- b) Based on Unit III

Q. 4: Any *one* of the following- 12 marks

- a) Based on Unit IV
- b) Based on Unit IV

OR

- a) Based on Unit IV
- b) Based on Unit IV

Q. 5: Objective type questions (6)- 12 marks

Multiple choice questions/ Fill in the blanks/ True – false / One line answer, etc.

(The respective BOS shall select any one-question paper pattern from below)

ii. Theory Examination of 2 Credit course (Total Marks: 30; Time: 1 hour)

Instruction: All the 3 questions are compulsory.

Q. 1: Any *one* of the following- 12 marks

- a) Based on Unit I
- b) Based on Unit I

Q. 2: Any *one* of the following- 12 marks

- a) Based on Unit II
- b) Based on Unit II

Q. 3: Any *two* of the following- 6 marks

- a) Based on Unit I
- b) Based on Unit II
- c) Based on Unit I
- d) Based on Unit II

OR

ii. Theory Examination of 2 Credit course (Total Marks: 30; Time: 1 hour)

Instruction: All the 3 questions are compulsory.

Q. 1: Any *one* of the following- 12 marks

- a) Based on Unit I
- b) Based on Unit I

OR

- a) Based on Unit I
- b) Based on Unit I

Q. 2: Any *one* of the following- 12 marks

- a) Based on Unit II
- b) Based on Unit II

OR

- a) Based on Unit II
- b) Based on Unit II

Q. 3: Objective type questions (3)- 6 marks

Multiple choice questions/ Fill in the blanks/ True – false / One line answer, etc.

B. Question Paper Pattern for the Semester-end Examination (Practical)

(The respective BOS shall select any one-question paper pattern from below)

i. Practical Examination of 4 Credit course (Total Marks: 60; Time: Minimum 6 hours)

Q. 1. Major Experiment/ Question- 40 marks

Q. 2. Minor Experiment/ Question- 20 marks

OR

i. Practical Examination of 4 Credit course (Total Marks: 60; Minimum 6 hours)

Q. 1. Major Experiment/ Question - 20 Marks

Q. 2. Major Experiment/ Question - 20 marks

Q. 3. Minor Experiment/ Question - 10 marks

Q. 4. Minor experiment/ Question/ Spotting/ etc.- 10 marks

ii. Practical Examination of 2 Credit course (Total Marks: 30; Time: 3 to 4 hours)

Q. 1. Major Experiment/ Question- 20 marks

Q. 2. Minor Experiment/ Question- 10 marks

OR

ii. Practical Examination of 2 Credit course (Total Marks: 30; Time: 3 to 4 hours)

Q. 1. Major Experiment/ Question - 16 Marks

Q. 2. Minor Experiment/ Question - 08 marks

Q. 3. Minor experiment/ Question/ Spotting/ etc.- 06 marks

C. Internal Assessment Process shall be as follows:

- i. The process of internal assessment should be conducted after completing 50% of syllabus of the course/s.
- ii. In case student has failed to attend internal assessment on scheduled date. It shall be deemed that the student has dropped the test. However, in case of student who could not take the test on scheduled date due to genuine reasons, such a candidate may appeal to the Programme Coordinator/ Principal/ Head of the Department. The Programme Coordinator/ Principal/ Head of the Department in consultation with the concerned teacher shall decide about the genuineness of the case and decide to conduct special test to such candidate on the date fixed by the concerned teacher but at least 15 days before the concerned semester-end examination.
- iii. The outline for continuous internal assessment activities of 'Theory Courses' at Post-graduate level shall be as under:

Level	Semester	Internal Assessment	Marks	
			4 Credits	2 Credits
6.0 First Year	1 and 2	1. Seminar	10	5
		2. Case study/ Problem Solving	10	5
		3. Book review/ Poster Presentation	10	5
		4. Midterm test*	10	5
6.5 Second Year	3 and 4	1. Group Discussion	10	5
		2. Research paper review	10	5
		3. Open book examination	10	5
		4. Midterm test*	10	5

Midterm test*: A midterm test shall be conducted after teaching every unit (e.g. if a course is of 4 units then a midterm test of 10 marks for every unit shall be conducted after teaching the unit). Further, convert the 40 marks of 4 midterm tests in to 10 marks and submit the same marks on Exam Portal under the head ‘Midterm test’ of respective course.

iv. The outline for continuous internal assessment activities of ‘**Practical Courses**’ at Post-graduate level shall be as under:

Level	Semester	Internal Assessment	Marks	
			4 Credits	2 Credits
6.0 First Year) and 6.5 Second Year)	2, 3 and 4	1. Journal	10	5
		2. Attendance	10	5
		3. Oral	10	5
		4. *Report/ Seminar/ Model, etc.	10	5

***Report/ Seminar/ Model, etc.:** The student has to submit a separate report of Study tour/ Industrial visit/ Field visit/ etc. or submit a separate model or perform separate seminar as per the case may be.

D. Assessment of On Job Training (OJT):

i. The student shall join and complete the On Job Training as below:

Internship	Schedule	Duration	Activities	Credits
Summer Internship	After 2 nd Semester	4 – 6 weeks	Industrial/ Govt./ NGO/ MSME/ Rural Internship/ Innovation / Entrepreneurship, etc.	4

- ii. After successful completion of On Job Training (OJT) the assessment for 100 marks shall be done by External and Internal Examiners as under:

Sr. No.	Particular	Marks
1	Quality and effectiveness of presentation	10
2	Depth of knowledge and demonstration skills	10
3	Variety and relevance of learning experience	10
4	Practical applications and relationships with concepts taught	10
5	Internship Report	30
6	Attendance record, student log, supervisor evaluation	30

E. Assessment of Research Project/ Field Project:

- i. After successful completion of Research Project/ Field Project the assessment for 100 marks (4 credits)/ 150 marks (6 credits) shall be done by External and Internal Examiners as under:

Sr. No.	Particular	100 Marks	150 Marks
1	Quantum and quality of work	25	40
2	Presentation	25	40
3	Report	25	35
4	Oral/ Discussion/ Question-answer, etc.	25	35

F. Minimum marks required for Passing:

Sr. No.	Total marks	Passing percentage	Passing marks
1	100	40	40
2	60	40	24
3	50	40	20
4	40	40	16
5	30	40	12
6	20	40	08

G. Determination of CGPA, Grading and declaration of results:

Shivaji University has adopted 10 point Grading System as follows:

- a) In each semester, marks obtained in each course (Paper/ Practical) are converted to grade points:

- i) If the total marks of the course are 100 and passing criteria is 40%, then use the following Table 1

for the conversion.

- ii) If total marks of any of the course are 50 and passing criterion is 40%, then marks obtained are converted to marks out of 100 as below and then grade points are computed using Marks out of 100 as per Table 1.

$$\text{Marks out of 100} = \frac{\text{Marks obtained by student in that course}}{\text{Total marks of that course}} \times 100$$

Table 1: Conversion of Marks out of 100 to grade point

Sr. No.	Marks Range out of 100	Grade point	Letter grade
1	80 – 100	10	O: Outstanding
2	70 – 79	9	A+: Excellent
3	60 – 69	8	A: Very Good
4	55 – 59	7	B+: Good
5	50 – 54	6	B: Above Average
6	45 – 49	5	C: Average
7	40 – 44	4	P: Pass
8	0 – 39	0	F: Fail
9	Absent	0	Ab: Absent

Table 2: Conversion of Marks out of 50 to grade point

Sr. No.	Marks Range out of 50	Grade point	Letter grade
1	40 – 50	10	O: Outstanding
2	35 – 39	9	A+: Excellent
3	30 – 34	8	A: Very Good
4	28 – 29	7	B+: Good
5	25 – 27	6	B: Above Average
6	23 – 24	5	C: Average
7	20 – 22	4	P: Pass
8	0 – 19	0	F: Fail
9	Absent	0	Ab: Absent

b) Computation of Semester Grade Point Average (SGPA):

Based on the grade points earned in each course in each semester, *Semester Grade Point Average (SGPA)* is computed as follows:

The SGPA is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student in that semester and the sum of the

number of credits of all the courses undergone by a student in that semester. The SGPA of the ith semester is denoted by S_i. The formula is given by

$$SGPA_{of\ semester\ i} = S_i = \frac{\sum_{j=1}^k c_j \times G_j}{\sum_{j=1}^k c_j}$$

c) Computation of Semester Grade Point Average (SGPA) :

Based on the SGPA of each semester, Cumulative Grade Point Average (CGPA) is computed as follows:

The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a programmed,

$$CGPA = \frac{\sum_{i=1}^m C_i \times S_i}{\sum_{i=1}^m C_i}$$

where C_j is the number of credit of j^{th} course, G_j is the grade points earned in the j^{th} course and k be the number of courses in i^{th} semester.

Where C_i is the total number of credits in i^{th} semester, S_i is the SGPA of i^{th} semester and m is the number of semesters in the programme.

d) Based on CGPA, final letter grade is assigned as below:

Table 3: Final Cumulative Grade Point Average (CGPA) and Final Grade for course

Sr. No.	CGPA Range	Grade	Grade Descriptions
1	9.50 – 10.00	O	Outstanding
2	8.86 – 9.49	A+	Excellent
3	7.86 – 8.85	A	Very Good
4	6.86 – 7.85	B+	Good
5	5.86 – 6.85	B	Above Average
6	4.86 – 5.85	C	Average
7	4.00 – 4.85	P	Pass
8	0.00 – 3.99	F	Fail
9	Nil	AB	Absent

Remarks:

1. B+ is equivalent to 55% marks and B is equivalent to 50 % marks. The final later grade is based on the grade points in each course of entire programme and not on marks obtained each course of entire programme.
2. The SGPA and CGPA shall be round off to two decimal points.