

 Estd. 1962 "A++" Accredited by NAAC (2021) With CGPA 3.52	SHIVAJI UNIVERSITY, KOLHAPUR - 416004, MAHARASHTRA PHONE: EPABX-2609000, www.unishivaji.ac.in, bos@unishivaji.ac.in शिवाजी विद्यापीठ, कोल्हापूर - ४१६००४, महाराष्ट्र दूरध्वनी-ईपीएबीएक्स -२६०९०००, अभ्यासमंडळे विभाग दूरध्वनी ०२३१-२६०९०९४ ०२३१-२६०९४८७	 
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Ref.No.SU/BOS/Science/150

Date: 26/05/2026.

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

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

Subject: Regarding revised syllabi of degree programme under the Faculty of Science and Technology as per NEP-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 revised syllabi, nature of question paper and equivalence of degree programme under the Faculty of Science and Technology as per NEP-2020.

1.	B.Sc. Part II Medicinal Chemistry (Entire) (2.0)	6.	BCA Part III
2.	B.A./B.A.B.Ed Part III Geography (2.0)	7.	B.Sc. Part II Data Science
3.	B.Sc. Part II Artificial Intelligence	8.	B.Sc.-M.Sc. Part III AI & ML
4.	B.Sc.-M.Sc. Part IV Nano Science and Technology (1.0)	9.	MCA Part II (YCSRD)
5.	B.Sc.-M.Sc. Part III Nano Science and Technology (2.0)	10.	MCA Part II

This syllabus, nature of question and equivalence shall be implemented from the academic year 2026-2027 onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website www.unishivaji.ac.in>Syllabus>Syllabus as per NEP2020.

The question papers on the pre-revised syllabi of above-mentioned course will be set for the examinations to be held in October /November 2026 & March/April 2027. These chances are available for repeater students, if any.

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,



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.A.,OE-II & 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

Shivaji University, Kolhapur



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NATIONAL EDUCATION POLICY (NEP-2020)

Syllabus for

**B.Sc.- M. Sc. in Nanoscience and Technology,
(5 Years Integrated) Programme, Part V (NEP 1.0)**

Syllabus to be implemented from the academic year 2026-27

(July 2026) onwards.

Implementation: The implemented gradually as mentioned below –

B.Sc.-M. Sc. in Nanoscience and Technology (5 Years Integrated) Program

- a) B.Sc.-M. Sc. (5 Years Integrated) Part – I from Academic year 2022-23
- b) B.Sc. -M. Sc. (5 Years Integrated) Part – II from Academic year 2023-24
- c) B.Sc. -M. Sc. (5 Years Integrated) Part – III from Academic year 2024-25
- d) B.Sc. -M. Sc. (5 Years Integrated) Part – IV from Academic year 2025-26
- e) **B.Sc. -M. Sc. (5 Years Integrated) Part – V from Academic year 2026-27**

**B.Sc.-M. Sc. in Nanoscience and Technology (5 Years Integrated) Program,
under NEP (1.0) 2020**

**B.Sc.-M. Sc. in Nanoscience and Technology (5 Years Integrated) Program
Part-V, SEM-IX**

Sr. No.	Paper Code	Title of the paper	Credits	Examination Scheme	
				Maximum	Minimum
1	CP-13	Research Project and Dissertation Phase I / * Twinning Program/ *Exchange Program	8	200	70
2	CP-14	Seminar based on project work- I	2	100	35
Total			10	300	120

**B.Sc.-M. Sc. in Nanoscience and Technology (5 Years Integrated) Program,
Part-V, SSEM-X**

Sr. No.	Paper Code	Title of the paper	Credits	Examination Scheme	
				Maximum	Minimum
1	CP-15	Research Project and Dissertation Phase II/ / * Twinning Program/ *Exchange Program	8	200	70
2	CP-16	Seminar based on project work- II	2	100	35
Total			10	300	120

Note: * - As per the Shivaji University Rules and Regulations of the Twinning and Exchange Program

**B. Sc.-M. Sc. in Nanoscience and Technology,
(5 Years Integrated) Program,
Part-IV
NEP (1.0) to NEP (2.0) 2020 equivalence**

Courses under NEP (1.0) 2020	Courses under NEP (2.0) 2020	
SEM VII	SEM VII	
Subject Code	Subject Code	Subject
DSC-16G (4*)	NSTU0325MML501G1	Semiconductor Physics
DSC-17G (4*)	NSTU0325MML502G1	Carbaceous Materials
DSC-18G (4*)	NSTU0325MML512G1	Fundamental of Nanobiotechnology
DSC-19G (4*)	NSTU0325MML508G1	Coating Technology, Nanocoatings and Applications
DSC-20G (4*)	NSTU0325MEL508G1	Functional Nanomaterials
DSE-16G (2*)	NSTU0325MEL501G1	Quantum Mechanics at Nanoscale
DSC-16G (2*)	NSTU0325RPP501G1	Laboratory Course – I (Semiconductor Physics)
DSC-17G (2*)	NSTU0325RPP502G1	Laboratory Course – II (Carbaceous Materials)
DSC-18G (2*)	NSTU0325FPP5012G1	Laboratory Course – III (Nanobiotechnology)
DSC-20G (2*)	NSTU0325RPP508G1	Laboratory Course – IV (Coating Technology, Nanocoatings and Applications + Functional Nanomaterials)

SEM VIII	SEM VIII	
DSC-16H (4*)	NSTU0325MML501H1	Solid State Electronic Devices
DSC-17H (4*)	NSTU0325MML502H1	Fundamentals of Nanocatalysis and Applications
DSC-18H (4*)	NSTU0325MML512H1	Biomedical Applications of Nanobiotechnology
DSC-19H (4*)	NSTU0325MML508H1	Energy Conversion and Storage Devices
DSC-20H (4*)	NSTU0325MEL504H1	Nanomagnetism and Spintronics
DSE -16H (2*)	NSTU0325MEL502H1	Statistical Mechanics and Nanothermodynamics
DSC-16H (2*)	NSTU0325RPP501H1	Laboratory Course – I (Solid State Electronic Devices)
DSC-17H (2*)	NSTU0325RPP502H1	Laboratory Course – II (Fundamentals of Nanocatalysis and Applications)
DSC-18H (2*)	NSTU0325FPP512H1	Laboratory Course – III (Biomedical Applications of Nanobiotechnology)
DSC-20H (2*)	NSTU0325RPP508H1	Laboratory Course – IV (Energy Conversion and Storage Devices)

Note:- “*” indicates the number of credits.

**B. Sc.-M. Sc. in Nanoscience and Technology,
(5 Years Integrated) Program,
Part-V
CBCS to NEP (1.0) 2020 equivalence
AY 2026-27**

Courses under CBCS	Courses under NEP (1.0) 2020
SEM IX	SEM IX
CP-13	CP-13- Research Project and Dissertation Phase I / * Twining Program/ *Exchange Program
CP-14	CP-14- Seminar based on project work- I
SEM X	SEM X
CP-15	CP-15- Research Project and Dissertation Phase II/ / * Twining Program/ *Exchange Program
CP-16	CP-16- Seminar based on project work II