

## Degree: Bachelor of Science in Physics

**Duration: 3 Academic Years (6 Semesters)**

**Intake Capacity: 120/Div**

Eligibility: A candidate for being eligible for admission to the three years integrated course leading to the degree of Bachelor of Science (B.Sc.) must have passed Higher Secondary School Certificate Examination (Std. XII) in Science stream conducted by the Maharashtra State Board of Secondary and Higher Secondary Education.

**FY Old Syllabus (Mentioned in Table) and FY New Syllabus link is:**  
<https://mu.ac.in/syllabus-of-nep-2020/syllabus-of-nep-2020-ug-programme>

FYBSc			
Semester I		Semester II	
USPH101	Classical Mechanics I	USPH201	Optics I
USPH102	Modern Physics I	USPHP202	Electrodynamics I
USPHP1	Practical I	USPH2	Practical II

S.Y.B.Sc.			
Semester III		Semester IV	
USPH301	Mechanics and hermodynamics	USPH401	Optical and Digital Electronics
USPH302	Vector calculus, Analog Electronics	USPH402	Quantum Mechanics
USPH303	Applied Physics -I	USPH403	Applied Physics -II
USPHP3	Practical I	USPH4	Practical II

T.Y.B.Sc.			
Semester V		Semester VI	
USPH501	Mathematical Methods in Physics	USPH601	Classical Mechanics
USPH 502	Solid State Physics	USPH602	Electronics

USPH 503

Atomic Physics

USPH603

Nuclear Physics

USPH 504	Electrodynamics	US PH604	Special Theory of Relativity
USPH 5	PRACTICAL PAPER II	USPH 6	PRACTICAL PAPER II

**Scope after B.Sc. Physics:** M.Sc. in Physics and allied specializations (M.Sc. Physics/Computer Science/Astronomical science/ Nuclear science/ Electronics/ SSP/Solid State Devices etc.), **M.Phil, Ph.D**, Academics, Research & Development, Research Project Assistant, Radiologist, Startup's, Teaching, Industries - Pharmaceuticals, Electronic Industries, Semiconductor industries, Soft ware companies, Nuclear Power corporation, weather forecasting department, IIG, Government Exams: IFoS, IPS, IAS, Agricultural Research Institutes