

Progressive Education Society's
**Modern College of Arts, Science and
Commerce,**
Shivajinagar, Pune 5
(An Autonomous College Affiliated to Savitribai Phule Pune University)

Framework of Syllabus

For M.Sc. Physics

(2019-20 Course)

(with effect from 2019-20)

CIA: Continuous Internal Evaluation

Semester 1 (Part 1)

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
CCT-1	19ScPhyP101	Mathematical Methods of Physics – I	04	04	50	50	100
CCT-2	19ScPhyP102	Classical Mechanics	04	04	50	50	100
CCT-3	19ScPhyP103	Atomic and Molecular Physics	04	04	50	50	100
CCT-4	19ScPhyP104	Electronics	04	04	50	50	
CCP-1	19ScPhyP105	Lab Course I	04	04	50	50	
AECCT-1	19CpCysP101	Cyber Security-I	1	1	-	-	25
AECCT-2	19CpHrtP102	Human Rights-I	1	1	-	-	25
Total Credits			-	22			

Semester 2 (Part 1)

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
CCT-9	19ScPhyP201	Electrodynamics	04	04	50	50	100
CCT-10	19ScPhyP202	Statistical Mechanics	04	04	50	50	100
CCT-11	19ScPhyP203	Solid State Physics	04	04	50	50	100
CCT-12	19ScPhyP204	Quantum Mechanics - I	04	04	50	50	100
CCP-5	19ScPhyP205	Lab Course II	04	04	50	50	100
AECCT-	19CpCysP201	Cyber Security-II	1	1	-	-	25
AECCT-	19CpHrtP202	Human Rights-II	1	1	-	-	25
Total Credits			-	22			

Semester 3 (Part 2)

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
CCT-19	19ScPhyP301	Quantum Mechanics - II	04	04	50	50	100
DSET-1	19ScPhyP302	Instrumentation – I/ Astronomy and Astrophysics-I	04	04	50	50	100
DSET-2	19ScPhyP303	Physics of Thin Films/ Energy Studies – I	04	04	50	50	100
DSEP-1	19ScPhyP304	Lab Course III Special Laboratory Course	04	04	50	50	100
SECP-3	19ScPhyP305	Lab Course IV Computational Physics	04	04	50	50	100
AECCT-	19CpCysP301	Cyber Security-III	1	1	-	-	25
AECCT-	19CpSkdP302	Skill Development-I	2	2	-	-	50
Total Credits			-	23			

Semester 4 (Part 2)

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
CCT-25	19ScPhyP401	Nuclear Physics	04	04	50	50	100
DSET-4	19ScPhyP402	Instrumentation - II, Astronomy and Astrophysics-II	04	04	50	50	100
DSET-5	19ScPhyP403	Physics of Nanomaterials, Energy Studies – II	04	04	50	50	100
DSEP-4	19ScPhyP404	Lab Course V Special Laboratory Course Work	04	04	50	50	100
SECP-6	19ScPhyP405	Lab Course VI Project	04	04	50	50	100
AECCT-	19CpCysP401	Cyber Security-III	1	1	-	-	25
AECCT-	19CpSkdP402	Skill Development-I	2	2	-	-	50
Total Credits			-	23			