SANDIP UNIVERSITY

SCHOOL OF SCIENCE
DEPARTMENT OF PHYSICS
NEP 2020 - Course Structure

Programme Name: - Master of Science (Physics)
Semester – I

Batch: AY 23-24 onwards

Sr. No.	Core	Course Code	Course Name	Teaching Scheme (Hrs./Week)				Examination Scheme				Total Marks
				L	T	P	C	Formative Assessment CIA		Summative Assessment ESE		
								Course	Lab	Course	Lab	
1	UC	NRDP101	Research Methodology	4	0	0	4	50	-	100	-	100
2	PC	NPPH101	Analytical Mechanics	4	0	0	4	50	-	100	-	100
3	PC	NPPH102	Electromagnetics	.4	0	0	4	50	-	100	-	100
4	PE	NPPHE__	Programme Elective - I	4	0	0	4	50	-	100	-	100
5	PC	NPPH111	General Physics and Mechanics Laboratory	0	0	4	2		50		50	100
6	PC	NPPH112	Computational Electromagentics Laboratory	0	0	4	2		50		50	100
TOTAL				**16**	**-**	**8**	**20**	**200**	**100**	**400**	**100**	**600**

Course Code	Programme Elective I
NPPHE01	Introduction to Quantum Computing
NPPHE02	Applied Quantum Mechanics

CIA: Continuous Internal Assessment
L: Theory Lecture
T: Tutorial
P: Practical
ESE: End Semester Exam

UC: University Core
PC: Programme Core
PE: Programme Elective
OE: Open Elective

Formative Assessment		
CIA	**Weightage**	**Description**
CIA 1	10%	Home Assignment
CIA 2	20%	Written Exam
CIA 3	10%	Activity/Project and research based learning along with seminar presentation
CIA 4	10%	Behavioural Attitude +General Discipline Theory +Practical attendance
TOTAL	**50%**	

BOS Chairperson

Dean SOS

Associate Dean Curriculum Development

Registrar SUN

SANDIP UNIVERSITY NASHIK

SANDIP UNIVERSITY

SCHOOL OF SCIENCE
DEPARTMENT OF PHYSICS
NEP 2020 - Course Structure

Programme Name: - Master of Science (Physics)
Semester – II

Batch: AY 23-24 onwards

Sr. No.	Core	Course Code	Course Name	Teaching Scheme (Hrs./Week)				Examination Scheme				Total Marks
				L	T	P	C	Formative Assessment CIA		Summative Assessment ESE		
								Course	Lab	Course	Lab	
1	PC	NPPH201	Advanced Mechanics	4	0	0	4	50	-	100	-	100
2	PC	NPPH202	Semiconductor Physics	4	0	0	4	50	-	100	-	100
3	PE	NPPHE__	Programme Elective II	4	0	0	4	50	-	100	-	100
4	PC	NPPH211	Computational Physics Laboratory	0	0	4	2		50		50	100
5	PC	NPPH212	Semiconductor Physics Laboratory	0	0	4	2		50		50	100
6	UC	NPPH213	Field Project	0	0	8	4	-	50	-	50	100
TOTAL				**12**	**00**	**16**	**20**	**150**	**150**	**300**	**150**	**600**

Course Code	Programme Elective II
NPPHE03	Quantum Computing Algorithms
NPPHE04	Quantum Condensed Matter Physics

CIA: Continuous Internal Assessment
L: Theory Lecture
T: Tutorial
P: Practical
ESE: End Semester Exam

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OE: Open Elective

Formative Assessment		
CIA	**Weightage**	**Description**
CIA 1	10%	Home Assignment
CIA 2	20%	Written Exam
CIA 3	10%	Activity/Project and research based learning along with seminar presentation
CIA 4	10%	Behavioural Attitude +General Discipline Theory +Practical attendance
TOTAL	**50%**	

Exit option: PG Diploma with 40 Credits

BOS Chairperson

Dean SOS

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Registrar SUN

SANDIP UNIVERSITY MAHARASHTRA NASHIK