SANDIP UNIVERSITY

School of Science
Department of Physics
NEP 2020 - Course Structure

Programme Name: B.Sc. Nanoscience and Nanotechnology
Level 4.5 (Semester – I) **Batch: AY 25-26 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	
MAJOR(MANDATORY + ELECTIVES)												
1	Major	NYNT101	Introduction to Nanoscience	3	-	-	3	50	-	100	-	100
2	Major	NYNT102	Physico-Chemical aspects of Nanoscience and Nanotechnology	3	-	-	3	50	-	100	-	100
MINOR: NA												
NA												
Open Electives(OE)*												
3	Mandatory		Open Elective – I	4	-	-	4	50	-	100	-	100
Vocational and Skill Enhancement (VSEC)												
4	VSC	NYNT111	Nanoscience Fundamentals Laboratory	-	-	4	2	-	50	-	50	100
5	SEC	NYNT112	Physico-Chemical Characterization Laboratory	-	-	4	2	-	50	-	50	100
Ability/Value Education Courses/ Indian Knowledge System(AEC/VEC/IKS)*												
6	AEC		Ability Enhancement Courses – I	-	-	4	2	-	50	-	50	100
7	VEC		Value Education Courses- I	-	-	4	2	-	50	-	50	100
8	IKS		Indian Knowledge System	-	-	4	2	-	50	-	50	100
OJT/FP/CEP/CC/RP												
9	CC		Co-Curricular Course II	-	-	4	2	-	50	-	50	100
			TOTAL	**12**	**-**	**20**	**22**	**150**	**300**	**300**	**300**	**900**

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

OJT – On Job Training
FP – Field Project
CEP – Community Engagement Project
CC – Curricular Course
RP – Research Project
* - Refer University Notification

CIA	Weightage	Description
CIA 1	10%	Home Assignment
CIA 2	20%	Mid-Term Exam (MTE)
CIA 3	10%	Activity/Project and research based learning along with seminar presentation
CIA 4	10%	Behavioural Attitude +General Discipline Theory +Practical attendance
CIA TOTAL	**50%**	
Written Examination – End Semester Exam (ESE)	50%	
TOTAL	**100%**	

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SANDIP UNIVERSITY

School of Science
Department of Physics
NEP 2020 - Course Structure

Programme Name: B.Sc. Nanoscience and Nanotechnology
Level 4.5 (Semester – II) **For the Batch: AY 25-26 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	
MAJOR(MANDATORY + ELECTIVES)												
1	Major	NYNT201	Material Science	3	-	-	3	50	-	100	-	100
2	Major	NYNT202	Properties of Nanomaterials	3	-	-	3	50	-	100	-	100
MINOR												
3	Minor		Minor I	2	-	-	2	50	-	100	-	100
Open Electives(OE)*												
4	Mandatory		Open Elective – II	4	-	-	4	50	-	100	-	100
Vocational and Skill Enhancement (VSEC)												
5	SEC	NYNT211	Material Science Laboratory	-	-	4	2	-	50	-	50	100
6	VSC	NYNT212	Nanomaterials Property Characterization Laboratory	-	-	4	2	-	50	-	50	100
Ability/Value Education Courses/ Indian Knowledge System(AEC/VEC/IKS)*												
7	AEC		Ability Enhancement Courses – II	-	-	4	2	-	50	-	50	100
8	VEC		Value Education Courses- II	-	-	4	2	-	50	-	50	100
OJT/FP/CEP/CC/RP												
9	CC		Co-Curricular Course II	-	-	4	2	-	50	-	50	100
			TOTAL	**12**	**-**	**20**	**22**	**200**	**250**	**400**	**250**	**900**

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CEP – Community Engagement Project
CC – Curricular Course
RP – Research Project
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CIA	Weightage	Description
CIA 1	10%	Home Assignment
CIA 2	20%	Mid-Term Exam (MTE)
CIA 3	10%	Activity/Project and research based learning along with seminar presentation
CIA 4	10%	Behavioural Attitude +General Discipline Theory +Practical attendance
CIA TOTAL	**50%**	
Written Examination – End Semester Exam (ESE)	50%	
TOTAL	**100%**	

Exit option: Award of UG Certificate with 44 Credits.

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SANDIP UNIVERSITY

School of Science
Department of Physics
NEP 2020 - Course Structure

Programme Name: B.Sc. Nanoscience and Nanotechnology
Level 5.0 (Semester – III) **For the Batch: AY 25-26 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	
MAJOR (MANDATORY + ELECTIVES)												
1	**Major**	NYNT301	Physical Techniques for synthesis of Nanomaterials	**4**	**-**	**-**	**4**	**50**	**--**	**100**	**--**	**100**
2	**Major**	NYNT302	Advanced Techniques for Characterization of Nanomaterials	**4**	**-**	**-**	**4**	**50**	**--**	**100**	**--**	**100**
MINOR												
3	Minor		Minor II	4	--		4	50	--	100	--	100
Open Electives (OE)*												
4	Mandatory		Open Elective - III	**2**	**--**		**2**	**50**	**--**	**100**	**--**	**100**
Vocational Skill Course (VSC)												
5	VSC	NYNT311	Characterization Techniques Laboratory	--	--	4	2	--	50	--	50	100
Ability/Value Education Courses/ Indian Knowledge System(AEC/VEC/IKS)*												
6	AEC		Ability Enhancement Courses - III	--	--	4	2	--	50	--	50	100
OJT/FP/CEP/CC/RP												
7	FP	NYNT312	Field Project	--	--	4	2	--	50	--	50	100
8	CC		Co – curricular course III	--	--	4	2	--	50	--	50	100
			TOTAL	**14**	**-**	**16**	**22**	**200**	**200**	**400**	**200**	**800**

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FP – Field Project
CEP – Community Engagement Project
CC – Curricular Course
RP – Research Project
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CIA	Weightage	Description
CIA 1	10%	Home Assignment
CIA 2	20%	Mid-Term Exam (MTE)
CIA 3	10%	Activity/Project and research based learning along with seminar presentation
CIA 4	10%	Behavioural Attitude +General Discipline Theory +Practical attendance
CIA TOTAL	**50%**	
Written Examination – End Semester Exam (ESE)	50%	
TOTAL	**100%**	

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School of Science
Department of Physics
NEP 2020 - Course Structure

Programme Name: B.Sc. Nanoscience and Nanotechnology
Level 5.0 (Semester – IV) **For the Batch: AY 25-26 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	
MAJOR (MANDATORY + ELECTIVES)												
1	**Major**	NYNT401	Organic and polymer science of nanomaterials	**4**	**-**	**-**	**4**	**50**	**--**	**100**	**--**	**100**
2	**Major**	NYNT402	Polymer and Composites	**4**	**-**	**-**	**4**	**50**	**--**	**100**	**--**	**100**
MINOR												
3	Minor		Minor III	4	--		4	50	--	100	--	100
Open Electives (OE)*												
4	**Mandatory**		Open Elective – IV	**2**	**--**		**2**	**50**	**--**	**100**	**--**	**100**
Skill Enhancement Course (SEC)												
5	SEC	NYNT411	Computer Simulations in Nanoscience	--	--	4	2	--	50	--	50	100
Ability/Value Education Courses/ Indian Knowledge System (AEC/VEC/IKS)*												
6	AEC		Ability Enhancement Courses – IV	--	--	4	2	--	50	--	50	100
OJT/FP/CEP/CC/RP												
7	CEP	NYNT412	Community Engagement Project	--	--	4	2	--	50	--	50	100
8	CC		Co – curricular course IV	--	--	4	2	--	50	--	50	100
			TOTAL	**14**	**-**	**16**	**22**	**200**	**200**	**400**	**200**	**800**

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CIA	Weightage	Description
CIA 1	10%	Home Assignment
CIA 2	20%	Mid-Term Exam (MTE)
CIA 3	10%	Activity/Project and research based learning along with seminar presentation
CIA 4	10%	Behavioural Attitude +General Discipline Theory +Practical attendance
CIA TOTAL	**50%**	
Written Examination – End Semester Exam (ESE)	50%	
TOTAL	**100%**	

Exit option: Award of UG Diploma with 88 Credits.

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SANDIP UNIVERSITY

School of Science
Department of Physics
NEP 2020 - Course Structure

Programme Name: B.Sc. Nanoscience and Nanotechnology
Level 5.5 (Semester – V) **For the Batch: AY 25-26 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	
MAJOR (MANDATORY + ELECTIVES)												
1	**Major**	NYNT501	Nanophysics	**4**	**-**	**-**	**4**	**50**	**--**	**100**	**--**	**100**
2	**Major**	NYNT502	Nanobiotechnology	**4**	**-**	**-**	**4**	**50**	**--**	**100**	**--**	**100**
3	**Major**	NYNT511	Thin Film Deposition and Analysis Lab	**-**	**-**	**4**	**2**	**--**	**50**	**--**	**50**	**100**
Major Elective– I												
4	**Major**	NYNTE--	Major Elective – I	**4**	**-**	**-**	**4**	**50**	-	100	-	100
Minor												
5	Minor		Minor IV	**4**	--		**4**	**50**	--	100	--	100
Vocational Skill Courses (VSC)												
6	**VSC**	NYNT512	Basic Nanofabrication and Cleanroom Practices	**-**	**-**	**4**	**2**	**--**	**50**	**--**	**50**	**100**
Ability Enhancement Course (AEC)												
7	AEC	NYNT513	AEC-V	**-**	**-**	4	2		50		50	100
FP/CEP												
8	**FP / CEP**	NYNT514	Filed Project /Community Engagement Project	--	--	4	**2**	--	50	--	50	100
			TOTAL	**16**	**-**	**16**	**24**	**200**	**200**	**400**	**200**	**800**

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FP – Field Project
CEP – Community Engagement Project
CC – Curricular Course
RP – Research Project
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CIA	Weightage	Description
CIA 1	10%	Home Assignment
CIA 2	20%	Mid-Term Exam (MTE)
CIA 3	10%	Activity/Project and research based learning along with seminar presentation
CIA 4	10%	Behavioural Attitude +General Discipline Theory +Practical attendance
CIA TOTAL	**50%**	
Written Examination – End Semester Exam (ESE)	50%	
TOTAL	**100%**	

Course Code	Major Elective I
NYNTE01	Surface and Interface Science
NYNTE02	Green Nanotechnology
NYNTE03	Thin Film Technology

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SANDIP UNIVERSITY

School of Science
Department of Physics
NEP 2020 - Course Structure

Programme Name: B.Sc. Nanoscience and Nanotechnology
Level 5.5 (Semester – VI) **For the Batch: AY 25-26 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	
MAJOR (MANDATORY + ELECTIVES)												
1	**Major**	NYNT601	Functional Nanomaterials	**4**	**-**	**-**	**4**	**50**	**--**	**100**	**--**	**100**
2	**Major**	NYNT602	Application of Nanotechnology	**4**	**-**	**-**	**4**	**50**	**--**	**100**	**--**	**100**
3	**Major**	NYNT611	Nanoelectronics & Optical Lab	**-**	**-**	**4**	**2**	**--**	**50**	**--**	**50**	**100**
Major Elective – II												
4	Major	NYNTE--	Major Elective – II	**4**	-	-	**4**	**50**	-	100	-	100
Minor												
5	Minor		Minor VI	**4**	--		**4**	**50**	--	100	--	100
Ability Enhancement Course (AEC)												
6	AEC	NYNT612	AEC-IV	--	--	4	2	--	50	--	50	100
OJT												
7	OJT	NYNT613	On Job Training	--	--	8	**4**	--	50	--	50	100
			TOTAL	**16**	**-**	**16**	**24**	**200**	**150**	**400**	**150**	**700**

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CEP – Community Engagement Project
CC – Curricular Course
RP – Research Project
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CIA	Weightage	Description
CIA 1	10%	Home Assignment
CIA 2	20%	Mid-Term Exam (MTE)
CIA 3	10%	Activity/Project and research based learning along with seminar presentation
CIA 4	10%	Behavioural Attitude +General Discipline Theory +Practical attendance
CIA TOTAL	**50%**	
Written Examination – End Semester Exam (ESE)	50%	
TOTAL	**100%**	

Course Code	Major Elective II
NYNTE04	Nanocatalysis
NYNTE05	Energy Materials and Applications
NYNTE06	Nanophotonics and Plasmonics

Exit option: Award of UG Degree with 132 Credits.

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SANDIP UNIVERSITY

School of Science
Department of Physics
NEP 2020 - Course Structure

Programme Name: B.Sc. Nanoscience and Nanotechnology **(UG Honours)**
Level 6.0 (Semester – VII) **For the Batch: AY 25-26 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	
MAJOR (MANDATORY + ELECTIVES)												
1	**Major**	NYNT701	Advanced Nanomaterials (2D Materials, Carbon-based)	**4**	**-**	**-**	**4**	**50**	**--**	**100**	**--**	**100**
2	**Major**	NYNT702	Computational Nanoscience	**4**	**-**	**-**	**4**	**50**	**--**	**100**	**--**	**100**
3	**Major**	NYNT703	Micro and Nano Electro-Mechanical Systems	**4**			**4**	**50**	**--**	**100**	**--**	**100**
4	**Major**	NYNT711	Nanoscience and Nanotechnology Laboratory I	**-**	**-**	**4**	**2**		**50**		**50**	**100-**
Major Elective – III												
5	**Major**	NYNTE--	Major Elective – III	**4**	-	-	**4**	**50**	-	100	-	100
Minor												
6	Minor	17RDP101	Research Methodology	**4**	--		**4**	**50**	--	100	--	100
			TOTAL	**20**	**-**	**4**	**22**	**250**	**50**	**500**	**50**	**600**

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FP – Field Project
CEP – Community Engagement Project
CC – Curricular Course
RP – Research Project
* - Refer University Notification

CIA	Weightage	Description
CIA 1	10%	Home Assignment
CIA 2	20%	Mid-Term Exam (MTE)
CIA 3	10%	Activity/Project and research based learning along with seminar presentation
CIA 4	10%	Behavioural Attitude +General Discipline Theory +Practical attendance
CIA TOTAL	**50%**	
Written Examination – End Semester Exam (ESE)	50%	
TOTAL	**100%**	

Course Code	Major Elective III
NYNTE07	Nanomedicine and Therapeutics
NYNTE08	Photonic Crystals and Metamaterials
NYNTE09	Environmental Nanotechnology

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SANDIP UNIVERSITY

School of Science
Department of Physics
NEP 2020 - Course Structure

Programme Name: B.Sc. Nanoscience and Nanotechnology **(UG Honours)**
Level 6.0 (Semester – VIII) **For the Batch: AY 25-26 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	
MAJOR (MANDATORY + ELECTIVES)												
1	**Major**	NYNT801	Nanoelectronics and Spintronics	**4**	**-**	**-**	**4**	**50**	**--**	**100**	**--**	**100**
2	**Major**	NYNT802	Smart Materials and Devices	**4**	**-**	**-**	**4**	**50**	**--**	**100**	**--**	**100**
3	**Major**	NYNT803	Nanotoxicology and Environmental Safety	**4**	**-**		**4**	**50**	**--**	**100**	**--**	**100**
4	**Major**	NYNT811	Nanoscience and Nanotechnology Laboratory II	**-**	**-**	**4**	**2**	**--**	**50**	**--**	**50**	**100**
Major Elective – IV												
4	**Major**	NYNTE--	Major Elective – IV	**4**	**-**	**-**	**4**	**50**	-	100	-	100
OJT												
6	OJT	NYNT812	On Job Training	--	--	8	**4**	--	50	--	50	100
			TOTAL	**16**	**-**	**12**	**22**	**200**	**100**	**400**	**100**	**600**

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OJT – On Job Training
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CEP – Community Engagement Project
CC – Curricular Course
RP – Research Project
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CIA	Weightage	Description
CIA 1	10%	Home Assignment
CIA 2	20%	Mid-Term Exam (MTE)
CIA 3	10%	Activity/Project and research based learning along with seminar presentation
CIA 4	10%	Behavioural Attitude +General Discipline Theory +Practical attendance
CIA TOTAL	**50%**	
Written Examination – End Semester Exam (ESE)	50%	
TOTAL	**100%**	

Course Code	Major Elective IV
NYNTE10	Quantum Field Theory for Nanoscience
NYNTE11	Plasmonics and Nano-Optics
NYNTE12	Industrial Nanotechnology and IPR

Exit option: Award of UG Honours with 176 credits.

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SANDIP UNIVERSITY

School of Science
Department of Physics
NEP 2020 - Course Structure

Programme Name: B.Sc. Nanoscience and Nanotechnology **(UG Honours with Research)**
Level 6.0 (Semester – VII) **For the Batch: AY 25-26 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	
MAJOR (MANDATORY + ELECTIVES)												
1	**Major**	NYNT701	Advanced Nanomaterials (2D Materials, Carbon-based)	**4**	**-**	**-**	**4**	**50**	**--**	**100**	**--**	**100**
2	**Major**	NYNT702	Computational Nanoscience	**4**	**-**	**-**	**4**	**50**	**--**	**100**	**--**	**100**
3	**Major**	NYNT712	Nanoscience and Nanotechnology Laboratory III			**4**	**2**	**--**	**50**	**--**	**50**	**100**
Major Elective – III												
5	**Major**	NYNTE--	Major Elective – III	**4**	**-**	**-**	**4**	**50**	-	100	-	100
Minor												
6	Minor	17RDP101	Research Methodology	**4**	--		**4**	**50**	--	100	--	100
Research Project												
7	RP	NYPH713	Research Project – I	**--**	--	8	**4**	**--**	50	--	50	100
			TOTAL	**16**	**-**	**12**	**22**	**200**	**100**	**400**	**100**	**600**

Course Code	Major Elective III
NYNTE07	Nanomedicine and Therapeutics
NYNTE08	Photonic Crystals and Metamaterials
NYNTE09	Environmental Nanotechnology

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FP – Field Project
CEP – Community Engagement Project
CC – Curricular Course
RP – Research Project
* - Refer University Notification

CIA	Weightage	Description
CIA 1	10%	Home Assignment
CIA 2	20%	Mid-Term Exam (MTE)
CIA 3	10%	Activity/Project and research based learning along with seminar presentation
CIA 4	10%	Behavioural Attitude +General Discipline Theory +Practical attendance
CIA TOTAL	**50%**	
Written Examination – End Semester Exam (ESE)	50%	
TOTAL	**100%**	

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SANDIP UNIVERSITY

School of Science
Department of Physics
NEP 2020 - Course Structure

Programme Name: B.Sc. Nanoscience and Nanotechnology **(UG Honours with Research)**
Semester – VIII **For the Batch: AY 25-26 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	
MAJOR (MANDATORY + ELECTIVES)												
1	Major	NYNT801	Nanoelectronics and Spintronics	4	-	-	4	50	--	100	--	100
2	Major	NYNT802	Smart Materials and Devices	4	-	-	4	50	--	100	--	100
3	Major	NYNT813	Nanoscience and Nanotechnology Laboratory IV	-	-	4	2	-	50	-	50	100
Major Elective – IV												
4	Major	NYNTE--	Major Elective – IV	4	-	-	4	50	-	100	-	100
Research Project												
5	RP	NYNT814	Research Project – II	-	-	16	8	-	50	--	50	100
			TOTAL	**12**	**-**	**20**	**22**	**150**	**100**	**300**	**100**	**500**

Course Code	Major Elective IV
NYNTE10	Quantum Field Theory for Nanoscience
NYNTE11	Plasmonics and Nano-Optics
NYNTE12	Industrial Nanotechnology and IPR

Exit option: Award of UG Honours with Research by earning 176 credits.

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CIA	Weightage	Description
CIA 1	10%	Home Assignment
CIA 2	20%	Mid-Term Exam (MTE)
CIA 3	10%	Activity/Project and research based learning along with seminar presentation
CIA 4	10%	Behavioural Attitude +General Discipline Theory +Practical attendance
CIA TOTAL	**50%**	

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