

NUTAN ARTS COLLEGE RAJAPUR

TAL - SANGAMNER DIST-A.NAGAR

Teaching plan for the Year -----

Name of the Teacher:- DAROLE.A.S Class :-.....

Subject & Course Optics

Date:- 01/07 /2025 To Date:- 30/07/ 2025

Sr.Week	Topics Planned	Topics Covered	Teaching tool/met hods used	No.of Lectures planned	No.of Lectures conducted	Remarks (level /extra lecture etc.
1 st Week	Module - 01 Nanotechnology and its Applications Introduction to Nanotechnology and nanoscience <ul style="list-style-type: none">• Nanomaterials and its properties	Introduction to Nanotechnology and nanoscience <ul style="list-style-type: none">• Nanomaterials and its properties	BBCL	02	01	NA

2nd Week	<ul style="list-style-type: none"> • Introduction to synthesis of materials using various methods • Applications of nanomaterials• 	<ul style="list-style-type: none"> • Introduction to synthesis of materials using various methods • Applications of nanomaterials 	BBCL	02	02	NA
3rd Week	<p>Module - 02 LASERS and its Applications</p> <p>Introduction to LASER (Historical Development, Spontaneous and</p> <ul style="list-style-type: none"> • Stimulated Emission, Einstein's Coefficient, Population Inversion) <p>Principles of LASER action</p>	<p>Introduction to LASER (Historical Development, Spontaneous and</p> <ul style="list-style-type: none"> • Stimulated Emission, Einstein's Coefficient, Population Inversion) <p>Principles of LASER action</p>	BBCL	02	02	NA
4th Week	<p>Characteristic of LASER Light</p> <ul style="list-style-type: none"> • Types of LASER (Solid State, Gas and Semiconductor Lasers) 	<p>Characteristic of LASER Light</p> <ul style="list-style-type: none"> • Types of LASER (Solid State, Gas and Semiconductor Lasers) 	BBCL	02	02	NA
5th Week	<ul style="list-style-type: none"> • Applications of LASER (Industrial, Medical and Communication) 	<ul style="list-style-type: none"> • Applications of LASER (Industrial, Medical and Communication) 	BBCL	02	02	NA

Total No.of Lectures Planned during the monthTotal No of lecturer Conducted during the month.....

**Plan checked By HOD
Teacher**

Signature of the

NUTAN ARTS COLLEGE RAJAPUR

TAL - SANGAMNER DIST-A.NAGAR

Teaching plan for the Year -----

Name of the Teacher:- DAROLE.A.S Class :-.....

Subject & Course Optics

Date:- 01 /08 /2025 To Date:- 31/08/ 2025

Sr.Week	Topics Planned	Topics Covered	Teaching tool/met hods used	No.of Lectures planned	No.of Lectures conducted	Remarks (level /extra lecture etc.
1 st Week	Module - 03 Physics basis of Life Introduction to Biophysics (Definition and Scope, Importance of • physics principles in understanding biological systems, Applications of	Introduction to Biophysics (Definition and Scope, Importance of	BBCL	02	01	NA

	biophysics in medicine, biology, and technology) Molecular Basis of Life (Structure and function of proteins, DNA and interactions)	• physics principles in understanding biological systems, Applications of biophysics in medicine.				
2nd Week	• RNA, Water as a biological solvent: Properties and significance, Concept of molecular interactions	• RNA, Water as a biological solvent: Properties and significance, ,	BBCL	02	02	NA
3rd Week	: Hydrogen bonding, Van der Waals forces, and hydrophobic	Concept of molecular interactions: Hydrogen bonding	BBCL	02	02	NA
4th Week		: Hydrogen bonding, Van der Waals forces, and hydrophobic	BBCL	02	02	NA
5th Week	Module - 04 Astrophysics and Space Mission Astrophysics: Planets, Asteroids, Meteors, Comets. Origin and age of• solar System, distances, physical size,.	Astrophysics: Planets, Asteroids, Meteors, Comets. Origin and age of• solar System	BBCL	02	02	NA

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Teaching plan for the Year -----

Name of the Teacher:- DAROLE.A.S Class :-.....

Subject & Course Optics

Date:- 01 /09 /2025 To Date:- 30/09/ 2025

Sr.Week	Topics Planned	Topics Covered	Teaching tool/met hods used	No.of Lectures planned	No.of Lectures conducted	Remarks (level /extra lecture etc.
1st Week	mass, density, temperature, rotation period determination, Celestial hemisphere, Galaxies, Dark Matter and Dark Energy, the universe, Light and	mass, density, temperature, rotation period determination, Celestial hemisphere, Galaxies, Dark Matter and Dark Energy	BBCL	02	01	NA
2nd Week	telescopes, Cosmology, Space Mission: Natural and Artificial Sattelite, Geosyncronysed and	telescopes, Cosmology, Space Mission: Natural and Artificial Sattelite	BBCL	02	02	NA

	• Geostationary Sattelite, Different organization working in Space Mission, Purpose, Indian					
3rd Week	Organization-ISRO, Different Mission of ISRO and their purpose. Targets achived by ISRO. Applications of Space Missions to human beings	Geostationary Sattelite, Different organization working in Space Mission	BBCL	02	02	NA
4th Week		Organization-ISRO, Different Mission of ISRO and their purpose. Targets achived by ISRO	BBCL	02	02	NA
5th Week			BBCL	02	02	NA

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Sr.Week	Topics Planned	Topics Covered	Teaching tool/met hods used	No.of Lectures planned	No.of Lectures conducted	Remarks (level /extra lecture etc.
1st Week						
2nd Week						

3rd Week						
4th Week						
5th Week						

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