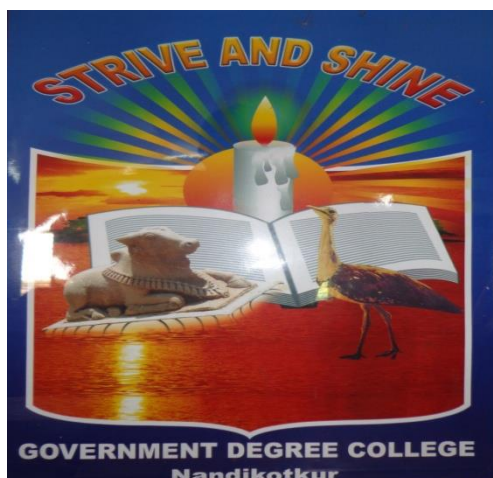


Government Degree College, Nandikotkur



1.1.1: The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

TEACHING DIARY 2019-20

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TEACHING DIARY

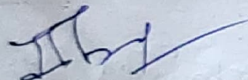
Month.....June.....

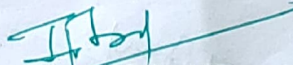
Week.....I.....

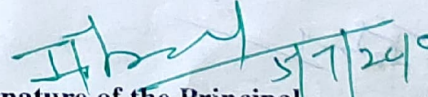
Semester.....I, III & V.....

Year.....2019-20.....

Date & Day	Class	Period/ Timings	Topic Covered / Co-Curricular Activity Conducted	Methodology Adopted	Teaching Aids used	No. of Students attended	Student Activity Assigned	Any other Activity
03.06.19 ^{MON}	^{II} MPC P-V	I	Introduction to Electricity	Explanation	Black board	04	to note syllabus given	questions asked
	^I MPC	^{II} & ^{III}	Practicals	Explanation	blackboard demonstration	03	practicals	Rotational value
	^{III} MPC P-V	^{IV}	Introduction to atomic & molecular physics.	Explanation	Black board	04	Notes prepared	definitions asked
	^{II} MPC	^V	Introduction to optics - Aberrations	Explanation	Chart	04	syllabus given	questions asked
04.06.19 ^{TUE}	^I MPC	I	Scalar & Vector fields	Explanation	Black board	03	prepare notes	definitions asked
	^{II} MPC	^{III}	Aberrations & Monochromatic aberrations	Explanation	Chart	04	problems solution	problems asked
	^{II} MPC	^{IV} & ^V	Practicals	Explanation	demonstration lab apparatus	04	practicals	take observation asked
05.06.19 ^{WED}	^{III} MPC P-V	I	Gauss's law & its proof	Explanation	black board	04	prepare notes	statement asked
06.06.19 ^{WED}	^{II} MPC	^{II}	Spherical aberrations	Explanation	Chart	04	Notes given to write	practical work
	^{III} MPC P-V	^{IV} & ^V	Practicals	Explanation	demonstration	04	practicals	values verified
	^I MPC	^{VI}	Gradient of a scalar field	Inductive method	Black board	03	Notes given	definitions asked.


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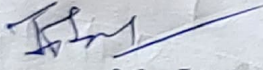

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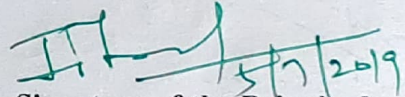
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TEACHING DIARY

Month.....June..... Week.....I & II..... Semester.....I, II & V..... Year.....2019-20.....

Date & Day	Class	Period/ Timings	Topic Covered / Co-Curricular Activity Conducted	Methodology Adopted	Teaching Aids used	No. of Students attended	Student Activity Assigned	Any other Activity
06.06.19 Thu	I MRS	II	Physical significance of gradient of a scalar field	Explanation	Black board	03	Students notes given to the	asked Definitions
	III MRS P-VI	IV & V	Practicals	Explanation	demonstration	04	practicals	Recd work
07.06.19 FRI	—	—	Ramazan	—	—	—	—	—
08.06.19 Sat	—	—	Second Saturday	—	—	—	—	—
09.06.19 Sun	—	—	Holiday Being Sunday	—	—	—	—	—
10.06.19 Mon	III MRS P-VI	I	Electric field due to uniformly charged sphere	Explanation	Chart	04	prepare notes	questions asked
	I MRS	II & III	Practicals	Explanation	demonstration	03	practicals	observations verified
	III MRS P-VI	IV	Sommerfeld's elliptical orbit	Explanation	Chart	04	the related topic problems solved on	questions asked
	II MRS	V	Methods to minimize spherical aberration	Derivation	Black board	04	learn for exams	Definitions asked
11.06.19 Tue	I MRS	I	Divergence of a vector field	Deduction method	Black board	03	Notes given to write	Definitions asked
	II MRS	II	Coma & its elimination methods	Induction	Black Board	03	the topic prepare notes on	learn definitions


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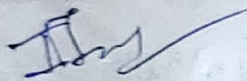

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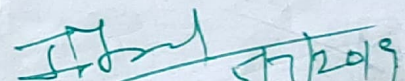
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TEACHING DIARY

Month... June Week... II Semester... I, II & V Year... 2019-20

Date & Day	Class	Period/ Timings	Topic Covered / Co-Curricular Activity Conducted	Methodology Adopted	Teaching Aids used	No. of Students attended	Student Activity Assigned	Any other Activity
	II MPES	IV & V	Practicals	Explanation	demonstrate	04	practicals	record work
12.06.19 Wed	II MPES P-V	I	Electric field due to infinite conducting sheet of charge	Derivation	Black board	04	related topics given problems on given diagram	learn formulas practiced
	II MPES	II	Asymmetry & its elimination methods	Deduction	Black board	03	practiced diagram	Diagrams
	II MPES P-V	IV & V	Practicals	Explanation	demonstrate	04	practicals	write Record regularly.
	I MPES	VI	Physical Interpretation of divergence of a vector field	Explanation	black board	03	Notes given	definition asked
13.06.19 Thu	I MPES	II	Curl of a vector field	Derivation	black board	03	problems solution	formulas asked
	II MPES P-VI	IV & V	Practicals	Explanation	demonstrate	04	practicals	verified observations
14.06.19 Fri	II MPES P-V	I	Electric Potential and Equiv-Potential Surfaces	Explanation	Chart	04	prepare notes on the topic	asked
	II MPES P-VI	V	Vector atom model - space quantisation	Explanation	Chart	04	Notes prepared	asked definition
	II MPES	VI	Curvature of field, Distortion and elimination methods	Explanation	Chart	04	prepare notes on the topic	asked
15.06.19 Sat	II MPES P-VI	III	Vector atom - Spinning electron	Explanation	Chart	04	Learn for Exams	definition asked


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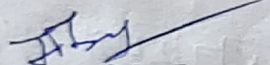

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TEACHING DIARY

Month.....June..... Week.....III & IV..... Semester.....I, III & V..... Year.....2019-20.....

Date & Day	Class	Period/ Timings	Topic Covered / Co-Curricular Activity Conducted	Methodology Adopted	Teaching Aids used	No. of Students attended	Student Activity Assigned	Any other Activity
	I MPES	IV	Physical Interpretation of curl of a vector field.	Explanation	Black board	03	Notes given to the student	questions asked
16.06.19 Sun	—	—	Holiday being Sunday	—	—	—	—	—
17.06.19 Mon	III MPES P-V	I	Potential due to point charge	Derivation	Black board	04	related topic prepare notes on	formulas asked
	I MPES	II & III	Practicals	Explanation	demonstration by lab apparatus	03	practicals	Record work definitions asked
	III MPES P-VI	IV	Stern-Gerlach Experiment	Explanation	Chart	04	Notes given	Diagram practice
	II MPES	V	Chromatic aberration	Induction	Black board	04	prepare notes	Diagram practice
18.06.19 Tue	I MPES	I	Vector integration	Derivation	Black board	03	Diagram practice	definition asked
	II MPES	III	Achromatic doublet - Achromatism when two lenses in contact	Induction	Black board	03	Notes given to the student	learn definitions
	II MPES	IV & V	Practicals	Explanation	demonstration by lab apparatus	04	practicals	verified observations
19.06.19 Wed	III MPES P-V	I	Potential due to charged spherical shell	Derivation	Black board	04	prepare the notes	definitions asked
	II MPES	II	Achromatism when two lenses are separated by a distance	Deduction	Black board	04	Notes given	formulas asked


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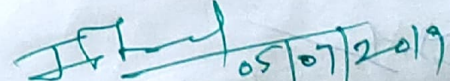
TEACHING DIARY

Month... June ... Week... III & IV ... Semester... I, III & V ... Year... 2019-20 ...

Date & Day	Class	Period/ Timings	Topic Covered / Co-Curricular Activity Conducted	Methodology Adopted	Teaching Aids used	No. of Students attended	Student Activity Assigned	Any other Activity
	IMPES P-V	IV & V	Practicals	Explanation	demonstration	04	practicals	observation ^{verified}
	IMPES	VI	Grauss theorem	Induction method	Black board	03	learn statement	Asked statement
20-06-19 Thu	IMPES	II	Stokes theorem	Induction method	Black board	03	learn statement	Diagram practical
	IMPES P-VI	IV & V	Practicals	Explanation	demonstration by lab apparatus	03	practicals	Record work
21-06-19 Fri	IMPES P-V	I	Potential due to Uniformly charged sphere	Derivation	black board	03	Notes given	definitions ^{asked}
	IMPES P-VI	V	Quantum numbers	Explanation	Chart	03	prepare notes	formulas asked
	IMPES	VI	UNIT-II: Introduction to interference - Superposition Principle	Explanation	chart	03	Notes given	definitions asked
22-06-19 Sat	IMPES P-VI	III	Coupling schemes - L-S & J-J	Explanation	Black board	04	prepare notes	definitions asked
	IMPES	IV	Laws of motion	Explanation	learning by doing	03	notes given to ^{students} the	definitions asked
23-06-19 Sun			Holiday being Sunday					
24-06-19 Mon	IMPES P-V	I	Electric dipole moment & molecular Polarizability	Deduction method	Black board	04	notes prepared	formulas asked


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TEACHING DIARY

Month.....June..... Week.....IV..... Semester.....I, II & V..... Year.....2019-20.....

Date & Day	Class	Period/ Timings	Topic Covered / Co-Curricular Activity Conducted	Methodology Adopted	Teaching Aids used	No. of Students attended	Student Activity Assigned	Any other Activity
	IMPC	<u>II & III</u>	Practicals	Explanation	demonstration	03	practicals	read work
	IIIMPC P-VI	<u>IV</u>	Zeeman effect - Experimental Verification	Explanation	Chart	04	Notes given	Diagram practical
	IIIMPC	<u>V</u>	Types of Coherence - Spatial & temporal coherence	Explanation	Black board	04	prepare notes on the topic	asked types
25.06.19 Tue	IMPC	<u>I</u>	Motion of variable mass system	Explanation	learning by doing	03	Derivation practice	definitions etc.
	IIIMPC	<u>III</u>	Fresnel's biprism - Determination of wavelength of light	Demonstration	Lab apparatus	04	practicals	values noted
	IIIMPC	<u>IV & V</u>	Practicals	Explanation	demonstration	04	practicals	read work
26.06.19 Wed	IIIMPC P-V	<u>I</u>	$\vec{D}, \vec{E}$ & $\vec{P}$ relation & Dielectric Constant & Susceptibility	Explanation	Black board	04	practicals relation practised E, D, P	Definitions asked
	IIIMPC	<u>II</u>	Phase change on reflection	Explanation	Chart	04	Notes given	formulas learn
	IIIMPC P-V	<u>IV & V</u>	Practicals	Explanation	demonstration	04	practicals	verified observations
	IMPC	<u>VI</u>	Motion of rocket	Explanation	Chart	03	the topic problems solving on	practised Diagrams
27.06.19 Thu	IMPC	<u>II</u>	Equation of motion of rocket	Derivation	Black board	03	notes write Q/A on your	Derivation pr


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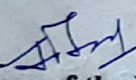
Month..... June & July

Week..... IV & I

Semester..... I, III & V

Year..... 2019-20

Date & Day	Class	Period/ Timings	Topic Covered / Co-Curricular Activity Conducted	Methodology Adopted	Teaching Aids used	No. of Students attended	Student Activity Assigned	Any other Activity
	II MPCs P-VI	IV & V	Practicals	Explanation	demonstrate	03	practicals	record work
28.06.19 Fri	II MPCs P-V	I	Boundary Conditions	Method of induction	Black board	03	prepare notes	definitions asked.
	II MPCs P-VI	V & VI	Raman effect, Stokes & anti-Stokes lines	Explanation	Chart	03	write Stokes and anti-Stokes lines	definitions asked
	II MPCs	VI	Cosine law - reflected light	Derivation	Black board	03	prepare notes on topic	questions asked
29.06.19 Sat	II MPCs P-VI	III	Quantum theory of Raman effect	Derivation	Black board	04	Derivation given to practical	formulas asked.
	II MPCs P-VI	IV & V	Conservation of Energy and momentum.	Explanation	learning by doing	03		
30.06.19 Sun			Holiday being Sunday					
01.07.19 Mon	II MPCs P-V	I	UNIT-II: Biot-Savart's law, $\vec{B}$ due to a long straight wire	Explanation	Black board	04	notes given to write	formulas practiced
	I MPCs	II & III	Practicals	Explanation	demonstrate	09	practicals	observations
	II MPCs P-VI	IV	Experimental arrangement of Raman effect	Explanation	Chart	04	practiced Diagram	definitions asked
	II MPCs	V	Cosine law - transmitted light	Derivation	Black board	04	problem solving on the topic	formulas asked.


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TEACHING DIARY

Month July Week I Semester I, II & V Year 2019-20

Date & Day	Class	Period/ Timings	Topic Covered / Co-Curricular Activity Conducted	Methodology Adopted	Teaching Aids used	No. of Students attended	Student Activity Assigned	Any other Activity
02.07.19 Tue	I MPES	I	Collisions in two dimensions	Derivation	Black board	03	notes given	questions asked
	II MPES	III	Colours of thin films	Explanation	learning by doing	04	prepare notes for the topic	definitions asked
	II MPES	IV & V	Practicals	Explanation	demonstration	04	practicals	observations verified
03.07.19 Wed	II MPES P-V	I	$\vec{B}$ due to a circular current loop	Derivation	Black board	04	notes given	questions asked
	II MPES	II	Interference by wedge shaped film	Explanation	chart	04	prepare notes	definitions asked
	III MPES P-V	IV & V	Practicals	Explanation	demonstration	04	practicals	record work
	I MPES	VI	Collisions in Three dimensions	Explanation	Black board	03	Learn well the topic	practicals done
04.07.19 Thu	I MPES	II	Impact Parameter and Scattering cross-section	Explanation	learning by doing	03	prepare notes for the topic	definitions asked
	II MPES P-VI	IV & V	Practicals	Explanation	demonstration	04	practicals	observations verified
05.07.19 Fri	III MPES P-V	I	$\vec{B}$ due to a long Solenoid	Derivation	Black board	04	prepare notes	questions asked
	III MPES P-VI	V	Applications of Raman effect	Explanation	Chart	04	notes given	questions asked


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TEACHING DIARY

Month July Week I & II Semester I, III & V Year 2019-20

Date & Day	Class	Period/ Timings	Topic Covered / Co-Curricular Activity Conducted	Methodology Adopted	Teaching Aids used	No. of Students attended	Student Activity Assigned	Any other Activity
	II MPES	VI	Wedge Shaped film - Diameter of wire	Demonstration	lab apparatus	03	practicals	class observations
06.07.19 Sat	II MPES P-VI	III	UNIT-II: Introduction to Matter waves	Explanation	Black board	04	notes given	definitions & sket
	II MPES	IV	Rutherford Scattering	Explanation	Black board	03	notes given	Diagram practiced
07.07.19 Sun			Holiday being Sunday					
08.07.19 Mon	II MPES P-V	I	Lorentz force	Explanation	Black board	04	prepare notes	definitions sket.
	II MPES	II & III	Practicals	Explanation	demonstration by lab apparatus	03	practicals	Recd WOK.
	III MPES P-VI	IV	de-Broglie hypothesis of matter waves	Derivation	Black board	04	problems solution	formulas sket
	II MPES	V	Newton's rings in reflected light	Demonstration	lab apparatus	04	notes given to write	definitions sket
09.07.19 Tue	II MPES	I	Rutherford Scattering	Explanation	Black board	03	prepare notes	Diagram practiced
	II MPES	III	Determination of λ of light by Newton's rings	Derivation	Black board	04	notes given	questions sket
	II MPES	IV & V	Practicals	Explanation	demonstration by lab apparatus	04	practicals	Recd WOK

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TEACHING DIARY

Month... July Week... II Semester... I, II & V Year... 2019-20

Date & Day	Class	Period/ Timings	Topic Covered / Co-Curricular Activity Conducted	Methodology Adopted	Teaching Aids used	No. of Students attended	Student Activity Assigned	Any other Activity
10-07-19 Wed	IMPES P-2	<u>I</u>	Hall effect - Hall coefficient & its applications.	Explanation	Chart	04	problems given to solve diagram practical	
	IMPES	<u>II</u>	Nicholson Interferometer	Explanation	chart	04	prepare notes for given topic practical diagram	
	IMPES P-2	<u>IV & V</u>	Practicals	Explanation	demonstration	03+01	practicals done observations	verified
	IMPES	<u>VI</u>	UNIT-III: Rigid body - Def. & Examples	Explanation	learning by doing	03	prepare notes for given topic questions asked	
11-07-19 Thu	IMPES	<u>II</u>	Rotational kinematic relations	Demonstration	Black board	03	notes given	definitions asked
	IMPES P-2	<u>IV & V</u>	Practicals	Explanation	demonstration	05	practicals	Record work
12-07-19 Fri	IMPES P-2	<u>I</u>	Application Introduction to Electro-Magnetic Induction, Faraday's laws	Demonstration	Lab apparatus		Notes given	definitions asked
	IMPES P-2	<u>V</u>	Properties of Matter, waves	Explanation	Black board	04	problems given to solve	formulas asked
	IMPES	<u>VI</u>	UNIT-IV :- Introduction to diffraction	Explanation	chart	04	Notes given	definitions asked
13-07-19 Sat			Second Saturday					

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