

**DEPARTMENT OF PHYSICS**

**2023-24**

**1.3.2- LIST OF STUDENTS WHO SUBMITTED THE PROJECT WORK FOR M.Sc.-4 SEM PHYSICS IN SESSION 2023-24**

<b>Program Name</b>	<b>Program Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year</b>	<b>Name Of The Student</b>
M.Sc. Physics	M.Sc. 4th Sem. Physics	Project Work	M.Sc. 4th Sem. Physics Project Work	2023-24	Bhawesh Kumar
M.Sc. Physics	M.Sc. 4th Sem. Physics	Project Work	M.Sc. 4th Sem. Physics Project Work	2023-24	Devid Markande
M.Sc. Physics	M.Sc. 4th Sem. Physics	Project Work	M.Sc. 4th Sem. Physics Project Work	2023-24	Denis Kumar
M.Sc. Physics	M.Sc. 4th Sem. Physics	Project Work	M.Sc. 4th Sem. Physics Project Work	2023-24	Devyani Verma
M.Sc. Physics	M.Sc. 4th Sem. Physics	Project Work	M.Sc. 4th Sem. Physics Project Work	2023-24	Gauri
M.Sc. Physics	M.Sc. 4th Sem. Physics	Project Work	M.Sc. 4th Sem. Physics Project Work	2023-24	Gitanjali
M.Sc. Physics	M.Sc. 4th Sem. Physics	Project Work	M.Sc. 4th Sem. Physics Project Work	2023-24	Hiteshwari
M.Sc. Physics	M.Sc. 4th Sem. Physics	Project Work	M.Sc. 4th Sem. Physics Project Work	2023-24	Lakesh Kumar
M.Sc. Physics	M.Sc. 4th Sem. Physics	Project Work	M.Sc. 4th Sem. Physics Project Work	2023-24	Laxman
M.Sc. Physics	M.Sc. 4th Sem. Physics	Project Work	M.Sc. 4th Sem. Physics Project Work	2023-24	Leena Sahu
M.Sc. Physics	M.Sc. 4th Sem. Physics	Project Work	M.Sc. 4th Sem. Physics Project Work	2023-24	Navneet Kumar
M.Sc. Physics	M.Sc. 4th Sem. Physics	Project Work	M.Sc. 4th Sem. Physics Project Work	2023-24	Pravesh Kumar
M.Sc. Physics	M.Sc. 4th Sem. Physics	Project Work	M.Sc. 4th Sem. Physics Project Work	2023-24	Preeti Sahu
M.Sc. Physics	M.Sc. 4th Sem. Physics	Project Work	M.Sc. 4th Sem. Physics Project Work	2023-24	Priyanka Sahu
M.Sc. Physics	M.Sc. 4th Sem. Physics	Project Work	M.Sc. 4th Sem. Physics Project Work	2023-24	Rohini
M.Sc. Physics	M.Sc. 4th Sem. Physics	Project Work	M.Sc. 4th Sem. Physics Project Work	2023-24	Rubi Thakur
M.Sc. Physics	M.Sc. 4th Sem. Physics	Project Work	M.Sc. 4th Sem. Physics Project Work	2023-24	Yogesh Kumar

HOD- DR. UGENDRA KURREY

PRINCIPAL

## M. Sc. - PHYSICS

M.Sc. in Physics is a full time 2-year (4-semesters course). There will be four theory papers, and two laboratory courses/project in each semester. In each semester, there will be two internal examinations/assessments. Semester-wise course structure along with distribution of marks is given below:

### Semester I

Name of the Paper	Marks				Credits	
	Theory		Internal			Total
	Max	Min	Max	Min		
1. Mathematical Physics	80	16	20	04	100	4
2. Classical Mechanics	80	16	20	04	100	4
3. Electrodynamics & Plasma Physics	80	16	20	04	100	4
4. Electronics	80	16	20	04	100	4
A : General & Optics	-	-	-	-	100	2
Laboratory Course I-B : Electronics	-	-	-	-	100	2
<b>Total Marks</b>					<b>600</b>	<b>20</b>

**Total Marks for Semester I = 600 & Credit = 20**

### Semester II

Name of the Paper	Marks				Credits	
	Theory		Internal			Total
	Max	Min	Max	Min		
1. Quantum Mechanics-I	80	16	20	04	100	4
2. Statistical Mechanics	80	16	20	04	100	4
3. Electronic & Photonic Devices and Optical Modulators	80	16	20	04	100	4
4. Computational Methods & Programming	80	16	20	04	100	4
Laboratory Course II-A : Numerical Analysis & Computer Programming	-	-	-	-	100	2
Laboratory Course II-B : Digital Electronics & Microprocessor	-	-	-	-	100	2
<b>Total Marks</b>					<b>600</b>	<b>20</b>

**Total Marks for Semester II = 600 & Credit = 2**

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### Semester III

Name of the Paper	Marks					Credits
	Theory		Internal		Total	
	Max	Min	Max	Min		
1. Quantum Mechanics-II	80	16	20	04	100	4
2. Atomic & Molecular Physics	80	16	20	04	100	4
3. Solid State Physics-I	80	16	20	04	100	4
4. (A) Astronomy & Astrophysics-I (B) Electronics (Communication)-I (C) Physics of Nano-material-I (D) Space Physics-I	80	16	20	04	100	4
Laboratory Course III-A Materials Science & General	-		-		100	2
Laboratory Course III-B : Astronomy & Astrophysics <b>OR</b> : Electronics (Communication) <b>OR</b> : Physics of Nano-material <b>OR</b> : Space Physics	-		-		100	2
<b>Total Marks</b>	<b>600</b>					<b>20</b>

**Total Marks for Semester III = 600 & Credit = 20**

### Semester IV

Name of the Paper	Marks					Credits
	Theory		Internal		Total	
	Max	Min	Max	Min		
1. Nuclear & Particle Physics	80	16	20	04	100	4
2. Laser Physics and Applications	80	16	20	04	100	4
3. Solid State Physics -II	80	16	20	04	100	4
4. (A) Astronomy & Astrophysics-II (B) Electronics (Communication)-II (C) Physics of Nano-material-II (D) Space Physics-II	80	16	20	04	100	4
<b>Project Work</b>	-		-		200	4
<b>Total Marks</b>	<b>600</b>					<b>20</b>

**Total Marks for Semester IV = 600 & Credit = 20**

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## In Each Semester

MAXIMUM MARKS TOTAL	PASS PER	
600	TH.	PR.
600	36	36

In semester IV, Project work in Solid State Physics/ Astronomy & Astrophysics/ Electronics/ Physics of Nano-materials/ Space Physics will lead to specialization in the respective area. It will be primarily based on research oriented topics. On completion of the project, student will submit project report in the form of dissertation which will be examined by an external examiner. The examination of project work shall consist of (a) Presentation and (b) comprehensive viva-voce.

### Marks-distribution for Laboratory Courses and Project Work:

(a) Laboratory courses (Semesters I-III):

Sessional	: 20Marks
Viva	: 20Marks
Experiment	: 60Marks

(b) Project Work (Semester IV):

Report-Dissertation	: 60 Marks
Presentation	: 100 Marks
Comprehensive viva-voce	: 20 Marks Internal
assessment	: 20 Marks

**Note:** Paper IV of both Semesters III and IV is a major elective course. Student has to opt for any one of the courses: (A) or (B) or (C) or (D). The commencement of any one of the major elective paper is subjected to the availability of basic infrastructural facilities viz. expert faculty, laboratory etc.

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5/7/2022

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05/07/22

A  
**PROJECT WORK**  
ON  
**"AUTOMATIC FIRE DETECTOR SYSTEM"**  
**SUBMITTED TO**  
**HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)**



In the partial fulfillment of requirement for the award of degree of

***MASTER OF SCIENCE***

***IN***

***PHYSICS***



**GUIDED BY**

**Dr. UGENDRA KUMAR KURREY**  
**ASST. PROFESSOR (PHYSICS)**

**Mr. MANOJ KUMAR SAHU**  
**GUEST ASST. PROFESSOR (PHYSICS)**

**SUBMITTED BY**

**BHAWESH KUMAR**

**ROLL NO.-233050850001**

**GOVERNMENT CHANDULAL CHANDRAKAR ARTS & SCIENCE**

**COLLEGE, PATAN, DIST- DURG [C.G.] 491111.**

**SESSION**

**2023-2024**

A  
PROJECT WORK  
ON  
"SOUND SENSOR ACTIVATED DEVICE"  
SUBMITTED TO  
HEMCHAND YADAV VISHWAVIDYALAYA, DURG



In the partial fulfillment of requirement for the award of degree of

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**ASST. PROFESSOR (PHYSICS)**

**Mr. MANOJ KUMAR SAHU**

**GUEST ASST. PROFESSOR (PHYSICS)**

**GOVERNMENT CHANDULAL CHANDRAKAR ARTS & SCIENCE**

**COLLEGE, PATAN, DIST- DURG [C.G.] 491111.**

**SESSION**

**2023-2024**

**SUBMITTED BY**

**DEEVID MARKANDEY**  
**ROLL NO-233050850002**



**A**  
**PROJECT WORK**  
**ON**  
**"DC SWING ELECTRIC POWER GENERATOR"**  
**SUBMITTED TO**  
**HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)**



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**Dr. UGENDRA KUMAR KURREY**  
**ASST. PROFESSOR (PHYSICS)**

**SUBMITTED BY**

**DENIS KUMAR**  
**ROLL NO.-233050850003**

**Mr. MANOJ KUMAR SAHU**  
**GUEST ASST. PROFESSOR (PHYSICS)**

**GOVERNMENT CHANDULAL CHANDRAKAR ARTS & SCIENCE**  
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**SESSION**  
**2023-2024**

**A**  
**PROJECT WORK**  
**ON**  
**“WATER LEVEL INDICATOR”**  
**SUBMITTED TO**  
**HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)**



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**Dr. UGENDRA KUMAR KURREY**  
**ASST. PROFESSOR (PHYSICS)**

**SUBMITTED BY**

**DEVYANI VERMA**  
**ROLL NO.-233050850004**

**Mr. MANOJ KUMAR SAHU**  
**GUEST ASST. PROFESSOR (PHYSICS)**

**GOVERNMENT CHANDULAL CHANDRAKAR ARTS & SCIENCE**  
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**SESSION**  
**2023-2024**





**A**  
**PROJECT WORK**  
**ON**  
**"REMOTE CONTROL DOOR LOCK UNLOCK"**  
**SUBMITTED TO**  
**HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)**



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**Dr. UGENDRA KUMAR KURREY**  
**ASST. PROFESSOR (PHYSICS)**

**SUBMITTED BY**

**GAURI**  
**ROLL NO.-233050850005**

**Mr. MANOJ KUMAR SAHU**  
**GUEST ASST. PROFESSOR (PHYSICS)**

**GOVERNMENT CHANDULAL CHANDRAKAR ARTS & SCIENCE**  
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**SESSION**  
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A  
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**ASST. PROFESSOR (PHYSICS)**

**Mr. MANOJ KUMAR SAHU**

**GUEST ASST. PROFESSOR (PHYSICS)**

**SUBMITTED BY**  
**GEETANJALI**

**ROLL NO-233050850006**

**GOVERNMENT CHANDULAL CHANDRAKAR ARTS & SCIENCE**  
**COLLEGE, PATAN, DIST- DURG [C.G.] 491111.**

**SESSION**

**2023-2024**



A  
**PROJECT WORK**  
ON  
**"IN LED BULB LED LIGHT FAULT REPAIRING"**  
**SUBMITTED TO**  
**HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)**



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**ASST. PROFESSOR (PHYSICS)**

**Mr. MANOJ KUMAR**

**GUEST ASST. PROFESSOR**

**SUBMITTED BY**

**HITESHWARI**

**ROLL NO.-233050850009**

**GOVERNMENT CHANDULAL CHANDRAKAR ARTS &  
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**Dr. UGENDRA KUMAR KURREY**  
**ASST. PROFESSOR (PHYSICS)**

**SUBMITTED BY**

**LAKESH KUMAR**  
**ROLL NO.- 233050850010**

**Mr. MANOJ KUMAR SAHU**  
**GUEST ASST. PROFESSOR (PHYSICS)**

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**Mr. MANOJ KUMAR**

**GUEST ASST. PROFESSOR**

**SUBMITTED BY**

**LAXMAN**

**ROLL NO.-233050850011**

**GOVERNMENT CHANDULAL CHANDRAKAR ARTS &  
SCIENCE**

**COLLEGE, PATAN, DIST- DURG [C.G.] 491111.**

**SESSION**

**2023-2024**



A  
PROJECT REPORT  
ON  
**DUAL AXIS SOLAR TRACKING SYSTEM**

Submitted To  
**HEMCHAND YADAV VISHWAVIDYALAYA, DURG**



In the partial fulfilment of the requirement for the degree of

***MASTER OF SCIENCE***

***IN***

***PHYSICS***



**GUIDED BY**

**Dr. UGENDRA KUMAR KURREY**

(H.O.D., Asst. Professor; Physics)

**Mr. MANOJ KUMAR SAHU**

(Guest Asst. Professor; Physics)

**SUBMITTED BY**

**LEENA SAHU**

Roll No.- 233050850012

**GOVT. CHANDULAL CHANDRAKAR ARTS AND SCIENCE  
COLLEGE, PATAN, DURG [C.G.] 491111**

**SESSION**

**2023-2024**



**A  
PROJECT WORK  
ON  
"AUTOMATIC DOORBELL"**

**SUBMITTED TO  
HEMCHAND YADAV VISHWAVIDYALAYA, DURG**



**In the partial fulfillment of requirement for the award of degree of**

**MASTER OF SCIENCE  
IN  
PHYSICS**



**GUIDED BY**

**Dr. UGENDRA KUMAR KURREY  
ASST. PROFESSOR (PHYSICS)  
Mr. MANOJ KUMAR SAHU  
GUEST ASST. PROFESSOR (PHYSICS)**

**SUBMITTED BY**

**NAVNEET KUMAR  
ROLL NO. - 233050850013**

**GOVERNMENT CHANDULAL CHANDRAKAR ARTS & SCIENCE COLLEGE,  
PATAN, DIST- DURG [C.G.] 491111.**

**SESSION  
2023-2024**



**A**

**PROJECT WORK**

**ON**

**"REMOTE CONTROLLED CAR"**

**SUBMITTED TO**

**HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)**



In the partial fulfillment of requirement for the award of degree of

**MASTER OF SCIENCE**

**IN**

**PHYSICS**



**GUIDED BY**

**Dr. UGENDRA KUMAR KURREY**

**ASST. PROFESSOR (PHYSICS)**

**SUBMITTED BY**

**PRAVESH KUMAR**

**ROLL NO.-233050850014**

**GOVERNMENT CHANDULAL CHANDRAKAR ARTS & SCIENCE**

**COLLEGE, PATAN, DIST-DURG [C.G.] 491111.**

**SESSION**

**2023-2024**





**A**  
**PROJECT WORK**  
**ON**  
**"AUTOMATIC DOORBELL"**

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**In the partial fulfillment of requirement for the award of degree of**

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**ASST. PROFESSOR (PHYSICS)**

**Mr. MANOJ KUMAR SAHU**

**GUEST ASST. PROFESSOR (PHYSICS)**

**SUBMITTED BY**

**PREETI SAHU**

**ROLL NO. - 233050850015**

**GOVERNMENT CHANDULAL CHANDRAKAR ARTS & SCIENCE COLLEGE,  
PATAN, DIST- DURG [C.G.] 491111.**

**SESSION**

**2023-2024**

**A**  
**PROJECT WORK**  
**ON**  
**“WATER LEVEL INDICATOR”**  
**SUBMITTED TO**  
**HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)**



In the partial fulfillment of requirement for the award of degree of  
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**Dr. UGENDRA KUMAR KURREY**  
**ASST. PROFESSOR (PHYSICS)**

**SUBMITTED BY**

**PRIYANKA SAHU**  
**ROLL NO.-233050850016**

**Mr. MANOJ KUMAR SAHU**  
**GUEST ASST. PROFESSOR (PHYSICS)**

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**SESSION**  
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A  
**PROJECT WORK**  
ON  
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**SUBMITTED TO**  
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**ASST. PROFESSOR (PHYSICS)**

**Mr. MANOJ KUMAR SAHU**  
**GUEST ASST. PROFESSOR (PHYSICS)**

**SUBMITTED BY**

**ROHINI**

**ROLL NO.-233050850018**

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**Mr. MANOJ KUMAR SAHU**  
**GUEST ASST. PROFESSOR (PHYSICS)**

**SUBMITTED BY**

**RUBEE THAKUR**  
**ROLL NO.-233050850019**

**GOVERNMENT CHANDULAL CHANDRAKAR ARTS & SCIENCE**  
**COLLEGE, PATAN, DIST- DURG [C.G.] 491111.**

**SESSION**

**2023-2024**



A  
PROJECT REPORT  
ON  
DUAL AXIS SOLAR TRACKING SYSTEM

Submitted To  
HEMCHAND YADAV VISHWAVIDYALAYA, DURG



In the partial fulfilment of the requirement for the degree of

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**GUIDED BY**

Dr. UGENDRA KUMAR KURREY

(HOD, Asst. Professor; Physics)

Mr. MANOJ KUMAR SAHU

(Guest Asst. Professor; Physics)

**SUBMITTED BY**

YOGESH KUMAR

Roll No.- 233050850021

**GOVT. CHANDULAL CHANDRAKAR ARTS AND SCIENCE  
COLLEGE, PATAN, DURG [C.G.] 491111**

SESSION

2023-2024

