

GOVERNMENT CHANDULAL CHANDRAKAR ARTS AND SCIENCE COLLEGE PATAN, DURG

DEPARTMENT OF PHYSICS
2022-23

See Cover page of the Project File on-

http://www.govtcccollegepatan.in/Content/40_13_Physics%20-%20project%20front%20page%20report%202022-23.pdf

1.3.3-LIST OF STUDENTS WHO SUBMITTED THEIR PROJECT FILE IN 2022-23			
SN	SUBJECT AND SEMESTER	STUDENTS NAME	ENROLLMENT NO./ ROLL NUMBER
1	M.Sc. PHYSICS IV SEMESTER	LUKESHWAR	21305085007
2	M.Sc. PHYSICS IV SEMESTER	SUMAN BAGHEL	21305085015
3	M.Sc. PHYSICS IV SEMESTER	PRACHI BHALE	21305085014
4	M.Sc. PHYSICS IV SEMESTER	MENKA VERMA	21305085008
5	M.Sc. PHYSICS IV SEMESTER	NARAYANI	21305085012
6	M.Sc. PHYSICS IV SEMESTER	MONIKA	21305085010
7	M.Sc. PHYSICS IV SEMESTER	VEDKUMARI	21305085017
8	M.Sc. PHYSICS IV SEMESTER	VAISHALI	21305085016
9	M.Sc. PHYSICS IV SEMESTER	DILIP KUMAAR NISHAD	21305085005
10	M.Sc. PHYSICS IV SEMESTER	NEHA SAHU	21305085013
11	M.Sc. PHYSICS IV SEMESTER	DIPIKA YADAV	21305085004
12	M.Sc. PHYSICS IV SEMESTER	YAMINI SAHU	21305085018
13	M.Sc. PHYSICS IV SEMESTER	MISS CHITRANI	21305085003
14	M.Sc. PHYSICS IV SEMESTER	MOHIT KUMAR	21305085009
15	M.Sc. PHYSICS IV SEMESTER	CHANDANI	21305085002
16	M.Sc. PHYSICS IV SEMESTER	NANDANI SAHU	21305085011
17	M.Sc. PHYSICS IV SEMESTER	ANJALI	21305085001

See the Syllabus of M.Sc.- Physics IV Semester 2022-23 on page 1050, 1052 and 1053 in link:
http://www.govtcccollegepatan.in/Content/18_22_0-Syllabus%202022-23%20Listing.pdf

A
PROJECT WORK
ON
“LIGHT EMITTING DIODE”
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

LUKESHWAR

ROLL NO. - 21305085007

GOVERNMENT CHANDULAL CHANDRAKAR ARTS & SCIENCE

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

SESSION

2022-2023

A
PROJECT WORK
on
TRIAC & DIAC
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
Mr. MANOJ SAHU
(Guest Asst. Professor)

SUBMITTED BY
SUMAN BAGHEL
Roll no. - 21305085015

DEPARTMENT OF PHYSICS
GOVERNMENT CHANDULAL CHANDRAKAR ART & SCIENCE
COLLEGE, PATAN, DIST. - DURG [C.G.], 491111

SESSION – 2022-23

A
PROJECT WORK
on
TRIAC & DIAC
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
Mr. MANOJ SAHU
(Guest Asst. Professor)

SUBMITTED BY
PRACHI BHALE
Roll no. - 21305085014

DEPARTMENT OF PHYSICS
GOVERNMENT CHANDULAL CHANDRAKAR ART & SCIENCE
COLLEGE, PATAN, DIST. - DURG [C.G.], 491111

SESSION – 2022-23

A
PROJECT WORK
ON
“REGULATED POWER SUPPLY”
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)

SUBMITTED BY
MENKA VERMA
ROLL NO. - 21305085008

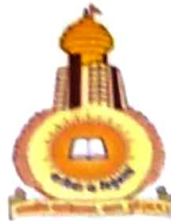
GOVERNMENT CHANDULAL CHANDRAKAR ARTS & SCIENCE
COLLEGE, PATAN, DIST- DURG [C.G.] 491111.

SESSION
2022-2023

A
PROJECT WORK
ON
DIODE TRANSISTOR LOGIC
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 KURRE
(Assistant Professor Physics)

SUBMITTED BY
NARAYANI
ROLL NO.- 21305085012

GOVT. CHANDULAL CHANDRAKAR ARTS & SCIENCE COLLEGE PATAN
DURG (C.G) 491111

SESSION 2022-23

A
PROJECT WORK
ON
DIODE TRANSISTOR LOGIC
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 KURRE
(Assistant Professor Physics)

SUBMITTED BY
MONIKA
ROLL NO.- 21305085010

GOVT. CHANDULAL CHANDRAKAR ARTS & SCIENCE COLLEGE PATAN DURG (C.G)
491111

SESSION 2022-23

A
PROJECT WORK
ON
“REGULATED POWER SUPPLY”
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 KURRE⁴

ASST. PROFESSOR (PHYSICS)

SUBMITTED BY

VEDKUMARI

ROLL NO. - 21305085017

GOVERNMENT CHANDULAL CHANDRAKAR ARTS & SCIENCE

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

SESSION

2022-2023

A
PROJECT WORK
on
SILICON CONTROLLED RECTIFIER (SCR)
CHARACTERISTICS APPARATUS
SUBMITTED TO
HEMCHAND YADAV VISHWVIDYALAYA, DURG (C.G)



In the partial fulfillment to requirement for the award of degree of
MASTER OF SCIENCE
IN
PHYSICS



GUIDED BY

Mr. MANOJ SAHU

(Guest Assistant Professor, Physics)

SUBMITTED BY

VAISHALI

ROLL NO.- 21305085016

DEPARTMENT OF PHYSICS
GOVERNMENT CHANDULAL CHANDRAKAR P.G.
COLLEGE, PATAN, DIST-DURG [C.G.]
SESSION : 2022-23

A
PROJECT WORK
on
SILICON CONTROLLED RECTIFIER (SCR)
CHARACTERISTICS APPARATUS
SUBMITTED TO
HEMCHAND YADAV VISHWVIDYALAYA, DURG (C.G)



In the partial fulfillment to requirement for the award of degree of
MASTER OF SCIENCE

IN
PHYSICS



GUIDED BY
Mr. MANOJ SAHU
(Guest Assistant Professor, Physics)

SUBMITTED BY
DILIP KUMAR NISHAD
ROLL NO.- 21305085005

DEPARTMENT OF PHYSICS
GOVERNMENT CHANDULAL CHANDRAKAR P.G.
COLLEGE, PATAN, DIST-DURG [C.G.]
SESSION : 2022-23

A
PROJECT WORK
On
4- BIT DECAD E COUNTER
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

Mr. MANOJ KUMAR SAHU

Guest Asst. Professor (Physics)

SUBMITTED BY

NEHA SAHU

ROLL NO. 21305085013

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

SESSION

2022-2023

A
PROJECT WORK
On
4- BIT DECADE COUNTER
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
Mr. MANOJ KUMAR SAHU
Guest Asst. Professor (Physics)

SUBMITTED BY
DEEPIKA YADAV
ROLL NO. 21305085004

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

SESSION

2022-2023

A
PROJECT WORK
ON
RESISTOR TRANSISTOR LOGIC
SUBMITTED TO
HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)



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

MASTER OF SCIENCE

IN

PHYSICS



GUIDED BY

DR. UGENDRA KUMAR KURREY

(HEAD OF DEPARTMENT, PHYSICS)

SUMMITTED BY

YAMINI SAHU

ROLL NO.- 21305085018

DEPARTMENT OF PHYSICS

GOVT. CHANDULAL CHANDRAKAR ARTS AND SCIENCE

COLLEGE PATAN, DIST – DURG (C.G),491111

SESSION: 2022-23

A
PROJECT WORK
ON
RESISTOR TRANSISTOR LOGIC
SUBMITTED TO
HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)



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

MASTER OF SCIENCE

IN

PHYSICS



GUIDED BY

DR. UGENDRA KUMAR KURREY

(HEAD OF DEPARTMENT, PHYSICS)

SUMMITTED BY

MISS CHITRANI

ROLL NO.- 21305085003

DEPARTMENT OF PHYSICS

GOVT. CHANDULAL CHANDRAKAR ARTS AND SCIENCE

COLLEGE PATAN, DIST – DURG (C.G), 491111

SESSION: 2022-23

A
PROJECT WORK
ON
“JFET CHARACTERISTICS”
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 KUAMR KURREY
ASST. PROFESSOR (PHYSICS)

SUBMITTED BY
MOHIT KUMAR
ROLL NO. - 21305085009

GOVERNMENT CHANDULAL CHANDRAKAR ARTS & SCIENCE

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

SESSION

2022-2023

A
PROJECT WORK
ON
“JFET CHARACTERISTICS”
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 KUAMR KURREY
ASST. PROFESSOR (PHYSICS)

SUBMITTED BY
CHANDANI
ROLL NO. - 21305085002

GOVERNMENT CHANDULAL CHANDRAKAR ARTS & SCIENCE

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

SESSION

2022-2023

A
PROJECT WORK
ON
“HALF WAVE AND FULL WAVE RECTIFIER”
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

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

SUBMITTED BY

NANDINI SAHU
ROLL NO. - 21305085011

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

SESSION

2022-2023

A
PROJECT WORK
ON
“HALF WAVE AND FULL WAVE RECTIFIER”
SUBMITTED TO
HEMCHAND YADAV VISHWAVIDYALAYA, DURG



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

MASTER OF SCIENCE

IN

PHYSICS



GUIDED BY

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

SUBMITTED BY

ANJALI
ROLL NO. - 21305085001

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

SESSION

2022-2023

HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)

Syllabus for M.Sc. Physics (Semester System)

Semester – I (2022-2023)

Paper – I	: Mathematical Physics
Paper – II	: Classical Mechanics
Paper – III	: Electrodynamics & Plasma Physics
Paper – IV	: Electronics
Laboratory Course I-A	: General & Optics
Laboratory Course I-B	: Electronics

Semester – II (2022-2023)

Paper – I	: Quantum Mechanics - I
Paper – II	: Statistical Mechanics
Paper – III	: Electronic & Photonic Devices and Optical Modulators
Paper – IV	: Computational Methods & Programming
Laboratory Course I-A	: Numerical Analysis & Computer Programming
Laboratory Course I-B	: Digital Electronics & Microprocessor

Semester – III (2022-2023)

Paper – I	: Quantum Mechanics - II
Paper – II	: Atomic & Molecular Physics
Paper – III	: Solid State Physics - I
Paper – IV	: (A) Astronomy & Astrophysics - I (B) Electronics (Communication) - I (C) Physics of Nano-material - I (D) Space Physics - I
Laboratory Course III-A	: Material Science & General
Laboratory Course III-B	: Astronomy & Astrophysics OR Electronics (Communication) OR Physics of Nano-material OR Space Physics

Semester – IV (2022-2023)

Paper – I	: Nuclear & Particle Physics
Paper – II	: Laser Physics and Applications
Paper – III	: Solid State Physics - II
Paper – IV	: (A) Astronomy & Astrophysics - II (B) Electronics (Communication) - II (C) Physics of Nano-material - II (D) Space Physics - II

Project Work

The Syllabus for M.Sc. Physics (Semester System) is hereby approved by the members of the Board of Studies.

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5/7/22

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05/07/22

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Semester III

Name of the Paper	Marks				Total	Credits
	Theory		Internal			
	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 OR : Electronics (Communication) OR : Physics of Nano-material OR : Space Physics	-		-		100	2
Total Marks					600	20

Total Marks for Semester III = 600 & Credit = 20

Semester IV

Name of the Paper	Marks				Total	Credits
	Theory		Internal			
	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
Project Work	-		-		200	4
Total Marks					600	20

Total Marks for Semester IV = 600 & Credit = 20

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5/7/22*

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05/07/22*

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In Each Semester

MAXIMUM MARKS TOTAL	PASS PER	
	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.

Alum
5/7/2022

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05/07/22