



Sir P. T. Science College, Modasa

Managed by

The M.L. Gandhi higher education society, Modasa

Accredited By NAAC 'B++', and Grade (AAA) By 'A'

"CERTIFICATE"

THIS IS TO CERTIFY THAT THE PROJECT WORK ENTITLED "SMART IRRIGATION SYSTEM USING THE ARDUNIO UNO" IS CARRIED OUT BY STUDENTS MENTIONED BELLOW, INPARTIAL FULFILLMENTS FOR THE AWARD OF DEGREE OF MASTER OF SCIENCE IN PHYSICS DURING THE ACADEMIC YEAR 2022-2023.

THE PROJECT HAS BEEN APPROVED REQUIREMENTS IN RESPECT OF PROJECT WORK PRESCRIBED FOR THE MASTER OF SCIENCE

SR NO.	NAME	UNIVERCITY NO.
1.	MISTRI JAYKUMAR NARENDRABHAI	186
2.	CHAUDHARY PRATIKKUMAR VINUBHAI	188
3.	PATEL AMISHA SHAILESHKUMAR	181
4.	BHARAVAD JALPA RAMABHAI	185
5.	SOLANKI YUVRAJSINH RAJESHKUMAR	194

PLACE: MODASA

SIGNATURE OF H.O.D

DR. R. H. PARAMAR

Head of the Physics Department
Sir P. T. Science College Modasa

SIGNATURE OF GUIDE

PROF. G. L. VEKARIA

28/1/23

Signature of Examiner:

2

28/1/23



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DR. R. H. PARAMAR

Head of the Physics Department
Sir P. T. Science College Modasa

SIGNATURE OF GUIDE

PROF. G. L. VEKARIA

28/4/23

Signature of Examiner:

2

28/4/23



SIRP.T.SCIENCE COLLEGE,MODASA

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[UGC 2F, 128 RECOGNISED]- [NAAC -ACREDITED B++,AAA GOG
ACREDITED A]

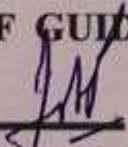
CERTIFICATE

This is certify that project work entailed HOME AUTOMATION VIA BLOUTOH USING THE ARDUINO is carried out by students mentioned below , in partial fulfillment for the award of degree of master of science in physics during the academic APRIL 2023 . the project has been approved as it satisfies the academic requirements in respect of project work prescribed for the master of science.

SR NO.	NAME	UNI. ROLL NO.
1.	PATEL PRITI NAVINCHANDRA	189
2.	CHAUDHARY VAIDEHI JAYNTIBHAI	192
3.	MANAT SEJAL JIVABHAI	191
4.	PATEL DIVYA MUKESHBHAI	183
5.	MARIVAD VANITA KHEMABHAI	193

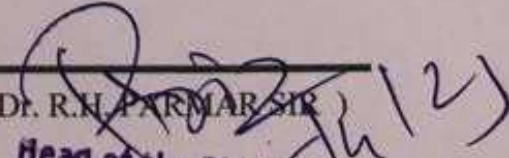
PALCE : MODASA

SIGNATURE OF GUIDE



(PROF.H.A PATEL SIR)


SIGNATURE OF H.O.D



(Dr. R.H. PARMAR SIR)

Head of the Physics Department
Sir P. T. Science College Modasa

SIGNATURE OF EXAMINER:



28/4/23

SIR P.T.SCIENCE COLLEGE, MODASA

(Managed by THE M. L. GANDHI HIGHER EDUCATION SOCIETY)

[UGC 2F, 128 RECOGNISED]- [NAAC- ACREDITED B⁺⁺, AAA GOG ACREDITED A]

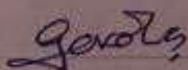
CERTIFICATE

This is to certify that the project work entitled **ENERGY AUDIT** is carried out by students mentioned below, in partial fulfillment for the award of degree of master of science in physics during the academic year APRIL 2022. The project has been approved as it satisfies the academic requirements in respect of project work prescribed for the Master of Science.

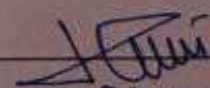
SR NO.	NAME	UNIVERSITY EXAM NO.
1	RAJPAL DHAVALRAJ VIJAYKUMAR	219
2	PRANAMI GAURAVKUMAR DINESHBHAI	221
3	CHAUDHARY HANSRAJ NAVNEETBHAI	222
4	PATEL PRIYABEN DINESHBHAI	226
5	CHAUDHARY RUTURAJ PANKAJBHAI	228
6	KAPADIYA VAIBHAVKUMAR RATNABHAI	233

PLACE: MODASA

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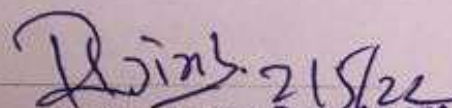


PROF. G. L. VEKARIA



SIGNATURE OF PRINCIPAL
Sir P. T. Science College
Modasa-383315, Dist. Arvalli.

SIGNATURE OF H.O.D.



Head of the Physics Department
Sir P. T. Science College, Modasa

SIGNATURE OF EXAMINER

SIR P.T.SCIENCE COLLEGE, MODASA

(Managed by THE M. L. GANDHI HIGHER EDUCATION SOCIETY)

[UGC 2F, 128 RECOGNISED]- [NAAC- ACREDITED B⁺⁺, AAA GOG ACREDITED A]

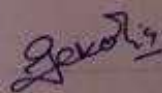
CERTIFICATE

This is to certify that the project work entitled **ENERGY AUDIT** is carried out by students mentioned below, in partial fulfillment for the award of degree of master of science in physics during the academic year APRIL 2022. The project has been approved as it satisfies the academic requirements in respect of project work prescribed for the Master of Science.

SR NO.	NAME	UNIVERSITY EXAM NO.
1	RAJPAL DHAVALRAJ VIJAYKUMAR	219
2	PRANAMI GAURAVKUMAR DINESHBHAI	221
3	CHAUDHARY HANSRAJ NAVNEETBHAI	222
4	PATEL PRIYABEN DINESHBHAI	226
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6	KAPADIYA VAIBHAVKUMAR RATNABHAI	233

PLACE: MODASA

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PROF. G. L. VEKARIA



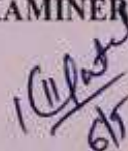
SIGNATURE OF PRINCIPAL
Sir P. T. Science College
Modasa-383315, Dist. Arvaill.

SIGNATURE OF H.O.D.



head of the Physics Department
DR. R. H. PARMAR
Sir P. T. Science College, Modasa

SIGNATURE OF EXAMINER



SIR P.T.SCIENCE COLLEGE, MODASA

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[UGC 2F, 128 RECOGNISED]- [NAAC- ACREDITED B⁺, AAA GOG ACREDITED A]


CERTIFICATE

This is to certify that the project work entitled **TO STUDY AN INTERPRETATION OF X-RAY & X-RAY MACHINE** is carried out by students mentioned below, in partial fulfillment for the award of degree of master of science in physics during the academic year 2021-2022. The project has been approved as it satisfies the academic requirements in respect of project work prescribed for the Master of Science.

SR NO.	NAME	UNIVERSITY EXAM NO.
1	CHAUDHARI ANKITKUMAR MAHENDRABHAI	217
2	PATEL DIVYABEN SURESHBHAI	220
3	PARMAR RUCHIRKUMAR JAYANTIBHAI	227
4	RAVAT SANJAYKUMAR CHANDUBHAI	230
5	PANCHAL SAVANKUMAR VINODBHAI	231
6	PRAJAPATI SITALBEN HASHMUKHBHAI	232

PLACE: MODASA

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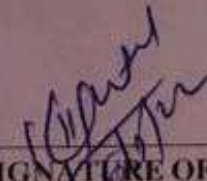


PROF. H. A. PATEL

SIGNATURE OF H.O.D.



Head of the Physics Department
Sir P.T. Science College, Modasa



SIGNATURE OF EXAMINER

SIR P.T.SCIENCE COLLEGE, MODASA

(Managed by THE M. L. GANDHI HIGHER EDUCATION SOCIETY)

[UGC 2F, 128 RECOGNISED]- [NAAC- ACREDITED B⁺⁺, AAA GOG ACREDITED A]

CERTIFICATE

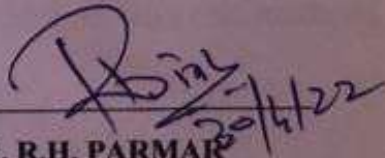
This is to certify that the project work entitled **SOLUTION OF ONE DIMENSIONAL HARMONIC OSCILLATOR VIA SUPER SYMMETRIC QUANTUM MECHANICS** is carried out by students mentioned below, in partial fulfillment for the award of degree of master of science in physics during the academic APRIL 2022. The project has been approved as it satisfies the academic requirements in respect of project work prescribed for the Master of Science.

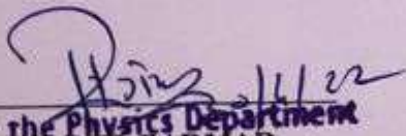
SR NO.	NAME	UNIVERSITY EXAM NO.
1	MALEKJI BATUL MAHAMMADAMIN	218
2	MALEK JAHANARABANU ALTAFHUSEN	223
3	KAJI NAJNINBANU MO.YUNUS	224
4	PRAJAPATI PARULBEN PRAKASHBHAI	225
5	KHALAK SAHANABANU MAHAMMEDYUSUF	229

PLACE: MODASA

SIGNATURE OF GUIDE

SIGNATURE OF H.O.D.


DR. R.H. PARMAR


Head of the Physics Department
DR. R. H. PARMAR
Sir F. T. Science College, Modasa

SIGNATURE OF EXAMINER:


6/5/22


6/5/22

SIR P. T. SCIENCE COLLEGE, MODASA

(Managed by the M. L. GANDHI HIGHER EDUCATION SOCIETY)

[UGC 2F, 128RECOGNISED]- [NAAC-ACREDITED B**, AAA GOG ACREDITED A]

CERTIFICATE

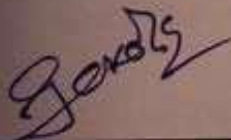
This is to certify that the project work entitled **TO STUDY SUN TRACKING SOLAR PANEL SYSTEM** is carried out by students mentioned below, in partial fulfillment for the award of degree of master of science in physics during the academic year 2020-2021. The project has been approved as it satisfies the academic requirements in respect of project work prescribed for the Master of Science.

SR NO.	NAME	UNIVERSITY EXAM NO.
1	PATEL CHINTANKUMAR VIRABHAI	180
2	PRAJAPATI HETVI PRAVINBHAI	181
3	SHARMA KARAN DURGAPRASAD	186
4	CHAUDHARI PANKTIBAHEN MUKESHBHAI	194


PLACE: MODASA

SIGNATURE OF GUIDE

SIGNATURE OF H.O.D

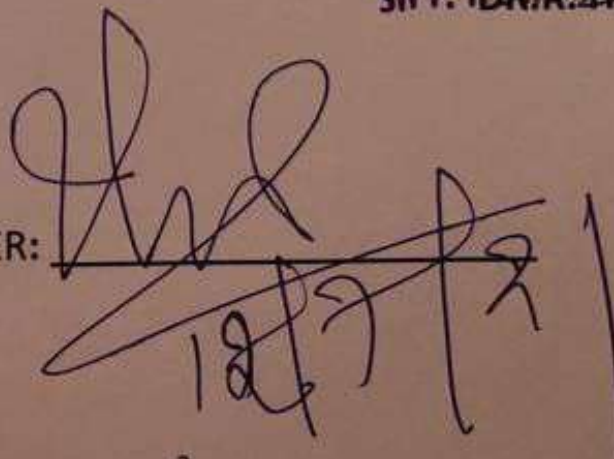


PROF. G. L. VEKARIA



Head of the Physics Department
Sir P. T. Science College, Modasa
DR. R. S. PARMAR

SIGNATURE OF EXAMINER:



SIR P.T. SCIENCE COLLEGE, MODASA

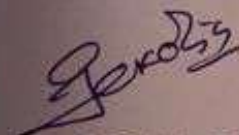
(Manage by THE M.L.GANDHI HIGHER EDUCATION SOCIETY)

(UGC2F,128 RECONGNISED)/(NAAC-ACREDITED B++,AAA GOG ACREDITED A)

Certificate

is is to certify that Ritu Pandya, Nehal Patel and Jignasha Rathod Students M.Sc. (sem-IV) has successfully completed the project entitled E-Waste management under the guidance of G.L. Vekariya Associate Professor of SIR P.T. SCIENCE COLLEGE, MODASA During year 2020-2021

SR NO	NAME	University exam no
1	NEHAL CHANDRAKANT PATEL	188
2	JIGANASAHA GUNVANTSINH RATHOD	184
3	RITU AJAYKUMAR PANDYA	195



Prof.G.L.VEKARIA

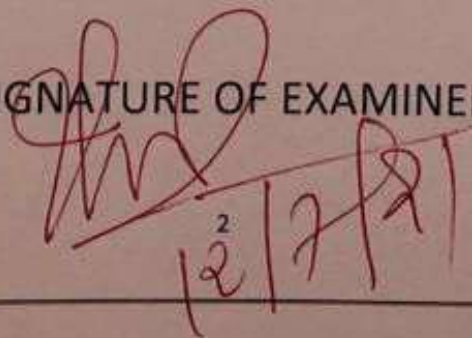
(GUIDE)



DR.R.H.PARMAR

head of the ~~Physics~~ Department
Sir P. T. Science College Modasa

SIGNATURE OF EXAMINER



12/7/21

SIR P.T.SCIENCE COLLEGE,MODASA

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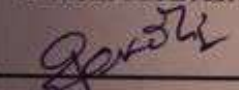
[UGC 2F, 128 RECOGNISED]-[NAAC-ACREDITED B++,AAA GOG ACREDITED A]

CERTIFICATE

This is to certify that the project work entitled **TO STUDY ENERGY GENERATED BY FOOT STEPS** is carried out by students mentioned below, in partial fulfillment for the award of degree of master of science in physics during the academic year 2020-21. The project has been approved as it satisfies the academic requirements in respect of project work prescribed for the Master of Science.

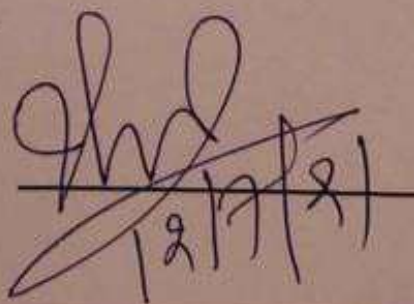
SR NO.	NAME	UNIVERSITY EXAM NO.
1	SHARMA BHAVNABAHEN PURANSINH	179
2	CHAUDHARY JULIBAHEN SURESHBHAI	185
3	PATEL NILAMBARI SNEHALKUMAR	190
4	MANAT NISHABEN JIVABHAI	191
5	PATEL SVATIBEN BABUBHAI	199

PLACE: MODASA

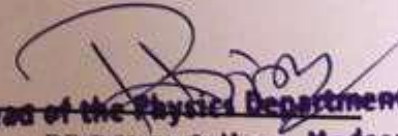


 PROF G.L. VEKA RIA

SIGNATURE OF EXAMINER



 12/17/21



 Head of the Physics Department
 Sir P. T. Science College, Modasa

SIR P.T. SCIENCE COLLEGE, MODASA

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[UGC 2F,128 RECOGNISED]-NAAC-ACREDITED B]

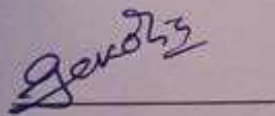
CERTIFICATE

This is to certify that the project work entitled **SMARTPHONE CONTROL HOME LIGHTING SYSTEM** is carried out by students mentioned below, in Partial fulfillment for the award of degree of master of science in physics during the academic year 2020-2021 The project has been approved as it satisfies the academic requirements in respect of project work prescribed for the master of science.

SR NO	NAME	UNIVERSITY EXAM NO
1	RATHOD NAMRATA KANUBHAI	187
2	RABARI SARASWATI M	197

PLACE: MODASA

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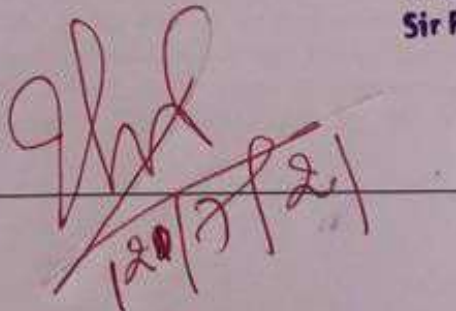
PROF. G.L. VEKARIA

SIGNATURE OF H.O.D.



Head of the Physics Department
Sir P. T. Science College, Modasa

SIGNATURE OF EXAMINER:



(THE M. L. GANDHI HIGHER EDUCATION SOCIETY

[UGC 2F, 128 RECOGNISED]- [NAAC- ACREDITED B++, AAA G OG ACREDITED A

CERTIFICATE

This is to certify that, the Genuine Project Work has been carried out about

"TO STUDY PROCESS OF

GAS LEAKAGE DITECTOR

USING ARDUINO PROGRAMMING"

that is being submitted by

KURESHI IRFANBHAI RAFIKBHAI(UNIVERSITY EXAM NO.-182)

DAMOR PANKAJKUMAR BABUBHAI(UNIVERSITY EXAM NO.-193)

ZALA NIKULSINH JAGATSINH (UNIVERSITY EXAM NO.-189)

PATEL VIPULKUMAR PRAVINBHAI(UNIVERSITY EXAM NO.-201)


MAKWANA SIDDHRAJSINH BACHUSINH(UNIVERSITY EXAM NO.-198)

under the guidance of **DR.R. H. PARMAR** in

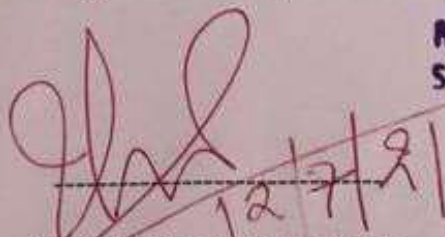
partial ulfillment of the requirement for the **4th Semester** of

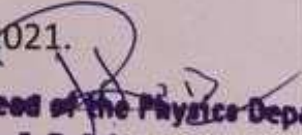
Master of Science(Physics) in Sir P. T. Science College,

Modasa during academic year 2020-2021.


DR.R.H.PARMAR

(GUIDE)


12/7/21
SIGNATURE OF EXAMINER


Head of the Physics Department
Sir P. T. Science College Modasa
DR.R.H.PARMAR

(H.O.D)

SIR.P.T.SCIENCE COLLEGE,MODASA

(Managed by THE M.L. GANDHI HIGHER EDUCATION SOCIETY)
[UGC 2F, 128 RECOGNISED]-[NAAC-ACREDITED B++,AAA GOG ACREDITED A]

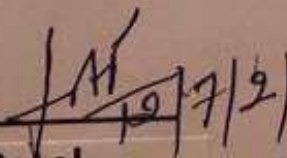
CERTIFICATE

This is to certify that the project work entitled **Water level Indicator Using Transistor BC-547** is carried out by students mentioned below, in partial fulfillment for the award of degree of **Master of Science in Physics** during the academic year **2020-21**.The project has been approved as it satisfies the academic requirements in respect of project work prescribed for the Master of Science.

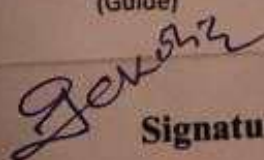
Sr. No.	Students Name	University Exam No.
1.	SHETH ISHRATMARIYA ABDULLATIF	183
2.	KHAN NOURIN MAHAMMED HUSEN	192
3.	MUNSHI SABINA MAHAMMEDHANIF	196
4.	KUSHKIWALA TAHESIMBEN MAHAMMAD SALIM	200

Date :


Place :

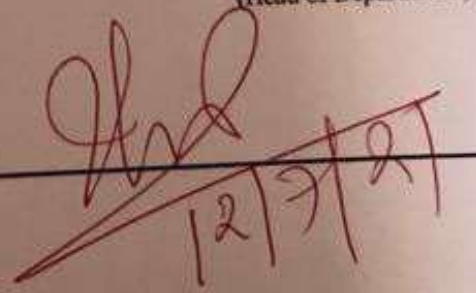

Prof.H.A.Patel

(Guide)



Signature of Examiner :


Head of the Physics Department
Sir P. T. Science College, Modasa
Prof. Dr. R. H. Parmar
(Head of Department)


12/7/21