

NAAC
Accreditation
Cycle - 3

SSR
Documents



THUNCHAN MEMORIAL GOVT. COLLEGE, TIRUR

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India-676502, Ph: +91 494 2630027

Email: tmgctirur@gmail.com, Web: www.tmgctirur.ac.in

Criterion 1
Curricular Aspects

1.2.1



Add on Courses
Department of Physics
2021-22



DEPARTMENT OF PHYSICS
T M GOVT COLLEGE, TIRUR

ADD ON COURSE 2021-22

Add on course on Energy Harvesting from Renewable resources	TMGCPHYAC2
Add on course on Introduction to Scientific Computing	TMGCPHYAC1
Certificate Course on Materials Science	TMGCPHYCC1

**Prospectus and Syllabus of
Add on Course in**

**ENERGY HARVESTING FROM RENEWABLE RESOURCES
for
First year BSc Physics**



**Thunchan Memorial Govt. College, Tirur
Vakkad PO, Malappuram**

THUNCHAN MEMORIAL GOVT. COLLEGE, TIRUR
DEPARTMENT OF PHYSICS

ADD ON COURSE (TMGCPHY AC2)

ENERGY HARVESTING FROM RENEWABLE RESOURCES

Course objectives:

To provide an overview of the important renewable energy resources and harnessing technologies. Nowadays the energy requirement of the society is high but the conventional sources of energy is not enough for it. So this course is intended for first year BSc Physics students to understand the importance of non-conventional energy sources.

Duration of the course : 30 Hours

Total Credits : 4

TOTAL MODULES: 4

TOTAL HOURS :30

MODULE 1 (8 HOURS)

Solar constants, Solar radiation measurements, solar energy collector, Physical principle of the conversion of solar radiation into heat, solar cookers, solar distillation, solar furnaces, solar greenhouses, solar electric power generation

MODULE 2 (6 hours)

Basic principle of wind energy conversion, basic components of wind energy conversion system, wind energy collectors. application of wind energy.

MODULE 3 (8 hours)

Geothermal sources, advantages and disadvantages of geothermal energy over other energy forms, application of geothermal energy. Biomass energy, Method of obtaining energy from biomass.



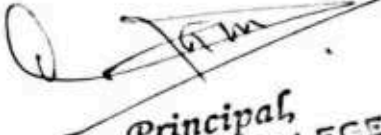
MODULE 4 (8 hours)

Ocean thermal electric conversion. Energy from tides, Basic principle of tidal power, advantages and limitations of tidal power generation. advantages and disadvantages of wave energy wave energy conversion devices. Advantages of battery for bulk energy storage

References:


1. Non- Conventional Energy Sources and Utilisation by R.K.Rajput, S.Chand Publishers
2. Non-Conventional Energy Resources by G. D. Rai, Khanna Publishers, 2008.
3. Solar Energy Fundamentals and application by H.P. Garg and J. Prakash, Tata McGraw- Hill Publishing company Ltd, 1997.
4. Solar Energy by S. P. Sukhatme, Tata McGraw- Hill Publishing company ltd, 1997.

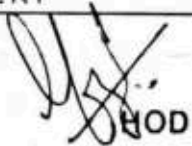



Principal,
T.M. GOVT COLLEGE
TIRUR

T M GOVT COLLEGE TIRUR
DEPARTMENT OF PHYSICS
ENERGY HARVESTING FROM RENEWABLE RESOURCES
LIST OF STUDENTS ENROLLED

SL.NO	NAME	CLASS
1	ANAGHA V	I BSc PHYSICS
2	ASWIN K	I BSc PHYSICS
3	DEVIKA K V	I BSc PHYSICS
4	FATHIMA FIDA V P	I BSc PHYSICS
5	LUBNA SHERIN CC	I BSc PHYSICS
6	NAADHI RAHMAN P	I BSc PHYSICS
7	NANDHA V P	I BSc PHYSICS
8	NANDHANA M	I BSc PHYSICS
9	NITHYA A	I BSc PHYSICS
10	RAFNATH	I BSc PHYSICS
11	RAHFATHU RAHMAN M	I BSc PHYSICS
12	RASMI A	I BSc PHYSICS
13	SAHALA THASNI T P	I BSc PHYSICS
14	SETHULAKSHMI K	I BSc PHYSICS
15	VAFA THESNI T	I BSc PHYSICS
16	FATHIMA FARHANA P	I BSc PHYSICS
17	RISHANA MOHAMMEDALI K	I BSc PHYSICS
18	KRISHNA K M	I BSc PHYSICS
19	VIVEK M	I BSc PHYSICS
20	ANAGHA K T	I BSc PHYSICS
21	GAYATRI	I BSc PHYSICS
22	KAVYA M	I BSc PHYSICS
23	APARA JANAKI T P	I BSc PHYSICS
24	ARUN VP	I BSc PHYSICS
25	ATHULYA PP	I BSc PHYSICS
26	KEERTHANA K P	I BSc PHYSICS
27	MEGHAA K	I BSc PHYSICS
28	RDHIK BIBIN M	I BSc PHYSICS
29	DEESHNAV A	I BSc PHYSICS
30	SNEHA N P	I BSc PHYSICS
31	SALMAN FARIS K	I BSc PHYSICS
32	SHAFEEL K P	I BSc PHYSICS


COURSE
COORDINATOR


HEAD

Aboothahir Afzal
 Assistant Professor
 T.M. Govt College
 Vakkad
 Malappuram

THUNCHAN MEMORIAL GOVT. COLLEGE TIRUR
DEPARTMENT OF PHYSICS

ATTENDANCE OF STUDENTS ENROLLED IN ENERGY HARVESTING FROM RENEWABLE RESOURCES (2021-22)

SL. NO.	NAME	5-1-21	7-1-21	11-1-21	14-1-21	18-1-21	20-1-21	22-1-21	24-1-21	27-1-21	29-1-21	31-1-21	3-2-21	5-2-21	8-2-21	10-2-21	11-2-21	15-2-21	16-2-21	
1	ANAGHA V	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	JASWIN K	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	DEVYAK V	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	FATHIMA FIDA VP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	LUBNA SHERIN CC	A	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	NAADHI RAHMAN P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	NANDHA VP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	NANDHANAM	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	NITHYAA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	RAFANATH	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	RAHFATHU RAHMAN M	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	RASMI A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	SAHALA THASNI TP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	SETHULAKSHMI K	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	NAFA THESNIT	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	FATHIMA FARHANAN P	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	RISHANA MOHAMMEDALI K	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	KRISHNA K M	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19	NIJEM M	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	ANAGHA K T	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
21	GAVATRI	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	KAVYA M	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23	APARNA JANAKI TP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
24	ARUN VP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	ATHULYA PP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
26	KEERTHANA K P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
27	MEGHAA K	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
28	ROHIK BIBIN M	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
29	DEESHNAVA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
30	SNEHA NP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
31	SALMAN FARIS K	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
32	SHAFEEEL K P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

COORDINATOR

HEAD OF DEPARTMENT

Aboothahir Afzal

Assistant Professor

1st Cell C66

Thunchan Memorial Govt College Tirur

Thiruvananthapuram Dist

THUNCHAN MEMORIAL GOVT. COLLEGE TIRUR
DEPARTMENT OF PHYSICS
HARVESTING FROM RENEWABLE RESOURCES (2021-22)

SL. NO.	NAME	21-2	22-2	23-2	24-2	25-2	26-2	27-2	28-2	29-2	30-2	31-2	32-2	21-3	22-3	23-3	24-3	25-3	26-3	27-3	28-3	29-3	30-3	31-3	32-3
1	ANAGHA V	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	ASWIN K	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	DEVIKA K V	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	FATHIMA FIDA V P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	LUBNA SHERIN CC	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	NAADHI RAHMAN P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	NANDHA V P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	NANDHANA M	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	NITHYA A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	RAFNATH	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	RAHFATHU RAHMAN M	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	RASMI A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	SAHALA THASNI T P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	SETHULAKSHMI K	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	VAFI THESNI T	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	FATHIMA FARHANA P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	RISHANA MOHAMMED DALIK	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	KRISHNA K M	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19	VIVEK M	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	ANAGHA K T	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
21	GAYATRI	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	KAVYA M	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23	APARNA JANAKI T P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
24	ARUN VP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	ATHULYA PP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
26	KEERTHANA K P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
27	MEGHA A K	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
28	RDHIK BIBIN M	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
29	DEESHNAVA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
30	SNEHA N P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
31	SALMAN FARIS K	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
32	SHAFEEEL K P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

COORDINATOR


HEAD OF DEPARTMENT

Abolition of posts
 A. S. S. T. Posts
 T. M. Govt. College
 Vakkol P.O., Tiru. P. M.
 Manipalakkudi Dist.

**T M GOVT COLLEGE TIRUR
DEPARTMENT OF PHYSICS**

**ENERGY HARVESTING FROM RENEWABLE RESOURCES(TMGCPHY AC2)
LIST OF STUDENTS COMPLETED THE COURSE**

SL.NO	NAME	CLASS
1	ANAGHA V	COMPLETED
2	ASWIN K	COMPLETED
3	DEVIKA K V	COMPLETED
4	FATHIMA FIDA V P	COMPLETED
5	LUBNA SHERIN CC	COMPLETED
6	NAADHI RAHMAN P	COMPLETED
7	NANDHA V P	COMPLETED
8	NANDHANA M	COMPLETED
9	NITHYA A	COMPLETED
10	RAFNATH	COMPLETED
11	RAHFATHU RAHMAN M	COMPLETED
12	RASMI A	COMPLETED
13	SAHALA THASNI T P	COMPLETED
14	SETHULAKSHMI K	COMPLETED
15	VAFA THESNI T	COMPLETED
16	FATHIMA FARHANA P	NOT COMPLETED
17	RISHANA MOHAMMEDALI K	COMPLETED
18	KRISHNA K M	COMPLETED
19	VIVEK M	COMPLETED
20	ANAGHA K T	COMPLETED
21	GAYATRI	COMPLETED
22	KAVYA M	COMPLETED
23	APARA JANAKI T P	COMPLETED
24	ARUN VP	COMPLETED
25	ATHULYA PP	COMPLETED
26	KEERTHANA K P	COMPLETED
27	MEGHA A K	COMPLETED
28	RDHIK BIBIN M	COMPLETED
29	DEESHNAV A	COMPLETED
30	SNEHA N P	COMPLETED
31	SALMAN FARIS K	NOT COMPLETED
32	SHAFEEL K P	COMPLETED


COURSE COORDINATOR


HOD

Aboothahir Afzal
Assistant Professor in Physics
T.M. Govt. College
Makkad P.O. Tirur. PIN-676502.
Malappuram Dist.

T M GOVT COLLEGE TIRUR
DEPARTMENT OF PHYSICS

ENERGY HARVESTING FROM RENEWABLE RESOURCES(TMGCPHY AC2)

LIST OF STUDENTS COMPLETED THE COURSE

SL.NO	NAME	MARKS/ GRADE
1	ANAGHA V	A
2	ASWIN K	A+
3	DEVIKA K V	A
4	FATHIMA FIDA V P	A+
5	LUBNA SHERIN CC	A+
6	NAADHI RAHMAN P	A+
7	NANDHA V P	A+
8	NANDHANA M	A+
9	NITHYA A	A
10	RAFNATH	A+
11	RAHFATHU RAHMAN M	A+
12	RASMI A	A+
13	SAHALA THASNI T P	A+
14	SETHULAKSHMI K	A+
15	VAFA THESNI T	A
16	FATHIMA FARHANA P	NOT COMPLETED
17	RISHANA MOHAMMEDALI K	A+
18	KRISHNA K M	A
19	VIVEK M	A+
20	ANAGHA K T	A+
21	GAYATRI	A+
22	KAVYA M	A
23	APARA JANAKI T P	A+
24	ARUN VP	A
25	ATHULYA PP	A+
26	KEERTHANA K P	A+
27	MEGHA A K	A+
28	RDHIK BIBIN M	A
29	DEESHNAV A	A
30	SNEHA N P	A
31	SALMAN FARIS K	NOT COMPLETED
32	SHAFEEL K P	A+

COURSE
COORDINATOR

HOD

Aboothahir Afzal

Assistant Professor in Physics

T.M. Govt College Tirur

Vakkol, P.O. Tirur, Dist. Malappuram

Malappuram Dist.

THUNCHAN MEMORIAL GOVT. COLLEGE, TIRUR

DEPARTMENT OF PHYSICS

ENERGY HARVESTING FROM RENEWABLE RESOURCES



5 JANUARY 2022 | 4 PM

No:TMPHYA21001



**THUNCHAN MEMORIAL
GOVERNMENT COLLEGE, TIRUR**
VAKKAD PO, MALAPPURAM DT, KERALA , INDIA. PIN: 676 502
Email:tmgctirur@gmail.com, Website:www.tmgctirur.ac.in

Certificate

It is certified by duly appointed examiners that

Sri/Smt. KEERTHANA KP

I B Sc Physics Class (Admission No.9852)

has qualified the Add on course on

Energy Harvesting from Renewable Resources

offered by the

DEPARTMENT OF PHYSICS.

He / She has scored 96 % Marks

and has been placed in A+ Grade

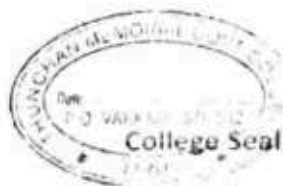
for the examination held in

MARCH 2022

Given under the Seal of the College.

Head of the Department
Tirur

Date: 31/03/2022



Principal

THUNCHAN MEMORIAL GOVT. COLLEGE TIRUR
DEPARTMENT OF PHYSICS

ENERGY HARVESTING FROM RENEWABLE RESOURCES

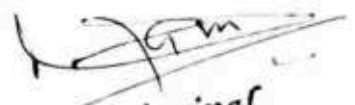
REPORT

Department of Physics of Thunchan Memorial Govt. College Tirur conducted an Add-on course "Energy harvesting from Renewable Resources" with 30 hours duration in the academic year 2021 - 22. Thirty two students were enrolled in the course. Mrs. SOUMYA C was appointed as Course Coordinator. Out of the 32 registered students 30 students completed the course successfully.


Co-ordinator


Head of the Department




Principal,
T.M. GOVT COLLEGE
TIRUR

**Prospectus and Syllabus of
Add on Course in**

**Introduction to Scientific Computing
for
Second year BSc Physics**



**Thunchan Memorial Govt. College, Tirur
Vakkad PO, Malappuram**

THUNCHAN MEMORIAL GOVT. COLLEGE TIRUR
DEPARTMENT OF PHYSICS

Introduction to Scientific Computing

Prerequisites & Objectives

Prerequisites

The students should have studied any basic computer language as a prerequisite for the course

Course Objectives

This course is intended for Second year BSc Physics students. In this course students are introduced to use Python as a tool to solve Physics problems. The emphasis is to learn using a high level programming language without actually going through the logic behind the equations that are to be coded. A minimal understanding of the basic mathematics is assumed. This develops familiarity and equips them to code a large number of physics problems and learn how to obtain results and plots using the software

Duration of the course : 30 Hours
Total Credits : 5

Unit 1 **5 Hrs**

Introduction to Python Programming

Features of Python, History of Python Programming Language, Comparison between C and Python, Thrust areas of Python in Physics, Writing and execution of Python programs, Integrated Development Environments, installation and use of python distributions

Unit 2 **8 Hrs**

Fundamental programming with Python:

Designing a Program, identifiers, keywords, operators, and expressions, Arithmetic, Logical and Assignment operators, Precedence, Data types: Basic data types: Strings and numbers, displaying an output, type conversion, basic string operations & methods, format specifiers

Unit 3 **7 Hrs**

Control structures

Decision Structures: If, If —else, if ... elif, ..., else, nested if decision flow statements.

Repetition Structures: condition controlled: while loop. Count controlled; for loop, sentinals, continue and break statements, try and except statements

Unit 4 **5 Hrs**

Functions & Files

Built-in function, modules, void function, flow charting, hierarchy charts, Local variables and scope, passing an argument function, value returning functions, Random number



Unit 5

Scientific computing packages

5 Hrs

Numpy: -Array object, creating array, matrix, indexing, slicing, resizing, reshaping, arithmetic operations, functions, matrices and vector operations
Matplotlib: basic plotting,
Scipy: Linear algebra operations, equation solving.

Text Books & References

Text Books

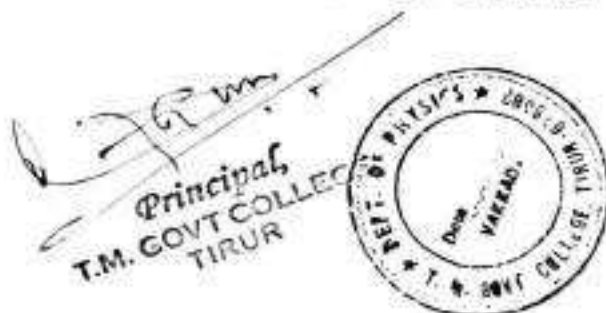
Mark Lutz, "Learning Python" O'Reilly Media, 2013

Core Python Programming -Dr Nageswara Rao, 2017, Dreamtech Press

Introduction to Computing and problem solving using Python -E Balagruswamy

References

1. Robert Johansson, "Numerical Python: Scientific Computing and Data Science Applications with Numpy, SciPy and Matplotlib" Apress, 2019.
2. Rubin H. Landu, Manuel J. Paez, and Cristian C. Bordeianu, "Computational Physics Problem solving with Python" – Third Edition, Wiley VCH, 2015.



T M GOVT COLLEGE TIRUR
DEPARTMENT OF PHYSICS
LIST OF STUDENTS ENROLLED IN INTRODUCTION TO
SCIENTIFIC COMPUTING(2021-22)

SL NO.	REGISTER NO.	NAME
1	TMAUSPH001	ANNA JABIN PK
2	TMAUSPH002	DILSHADA JIBI
3	TMAUSPH003	MUNAVVIRA SHARIN V
4	TMAUSPH004	NAJMATH K
5	TMAUSPH005	NEDHA SOFI P
6	TMAUSPH006	RAMSEENA K
7	TMAUSPH007	MUHAMMED NASEEM CHEMBAN
8	TMAUSPH008	SALMANUL FARIS C
9	TMAUSPH009	ANAMIKA A
10	TMAUSPH010	ANJANA C
11	TMAUSPH011	ARYA A
12	TMAUSPH012	KRIPA P
13	TMAUSPH013	NOORA K
14	TMAUSPH014	RIFA NASARIN
15	TMAUSPH015	SHABOOMA NASRIN
16	TMAUSPH016	SHAHANA SHERI K
17	TMAUSPH017	SHEBEENA SHERI A P
18	TMAUSPH018	SOOFIYA YASMIN P M
19	TMAUSPH019	SREELAKSHMI A P
20	TMAUSPH020	SWARGA P
21	TMAUSPH021	ABHIJITH K M
22	TMAUSPH022	FAROOQ HASSAN M P
23	TMAUSPH023	GOWTHAM KRISHNA NAIR S
24	TMAUSPH024	HAREESH T V
25	TMAUSPH025	MOHAMMAD SAKEER A P
26	TMAUSPH026	SOURAV P
27	TMAUSPH027	VYSHNAV GANESH P
28	TMAUSPH028	AMITHA M P
29	TMAUSPH029	ANAMIKA T
30	TMAUSPH030	ANJANA V
31	TMAUSPH031	APARNA E
32	TMAUSPH032	ATHIRA P K
33	TMAUSPH033	FASNA P P
34	TMAUSPH034	GREESHMA T



T M GOVT COLLEGE TIRUR
DEPARTMENT OF PHYSICS
LIST OF STUDENTS ENROLLED IN INTRODUCTION TO
SCIENTIFIC COMPUTING(2021-22)

SL NO.	REGISTER NO.	NAME
35	TMAUSPH035	HIBA K P
36	TMAUSPH036	SHALINI K
37	TMAUSPH037	SHAMIYANA M V
38	TMAUSPH038	SONA P
39	TMAUSPH039	VINAYA K

COORDINATOR

HOD

Abouthahir Afzal
Assistant Professor in Physics
T.M. Govt. College
Vakkad PO, Tirur Taluk - 576002,
Malappuram Dist.



**T M GOVT COLLEGE TIRUR
DEPARTMENT OF PHYSICS**

ATTENDANCE OF STUDENTS ENROLLED IN INTRODUCTION TO SCIENTIFIC COMPUTING(2021-22)

SL NO.	REGISTER NO.	NAME	28-1-22	1-2-22	4-2-22	7-2-22	10-2-22	14-2-22	17-2-22	21-2-22	24-2-22	28-2-22	2-3-22	7-3-22	9-3-22	14-3-22	18-3-22	SIGN
1	TMAUSPH001	ANNA JABIN PK	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	TMAUSPH002	DILSHADA JIBI	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	TMAUSPH003	MUNAVIRA SHARIN V	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
4	TMAUSPH004	NAJMATH K	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5	TMAUSPH005	NEDHA SOFI P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6	TMAUSPH006	RAMSEENA K P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
7	TMAUSPH007	MUHAMMED NASEEM CHEMBAN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
8	TMAUSPH008	SALMANUL FARIS C	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
9	TMAUSPH009	ANAMIKA A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
10	TMAUSPH010	ANJANA C	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11	TMAUSPH011	ARYA A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
12	TMAUSPH012	KRIPA P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
13	TMAUSPH013	NOORA K	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
14	TMAUSPH014	RIFA NASARIN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
15	TMAUSPH015	SHABOOMA NASRIN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16	TMAUSPH016	SHAHANA SHERI K	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17	TMAUSPH017	SHEBEENA SHERI A P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18	TMAUSPH018	SOOFIYA YASMIN P M	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19	TMAUSPH019	SREELAKSHMI A P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20	TMAUSPH020	SWARGA P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21	TMAUSPH021	ABHIJITH K M	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
22	TMAUSPH022	FAROOQ HASSAN M P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
23	TMAUSPH023	GOWTHAM KRISHNA NAIR S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
24	TMAUSPH024	HAREESH TV	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
25	TMAUSPH025	MOHAMMAD SAKEER A P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
26	TMAUSPH026	SOURAV P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
27	TMAUSPH027	VYSHNAV GANESH P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
28	TMAUSPH028	AMITHA M P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
29	TMAUSPH029	ANAMIKA T	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
30	TMAUSPH030	ANJANA V	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
31	TMAUSPH031	APARNA E	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
32	TMAUSPH032	ATHIRA P K	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	



**T M GOVT COLLEGE TIRUR
DEPARTMENT OF PHYSICS**

ATTENDANCE OF STUDENTS ENROLLED IN INTRODUCTION TO SCIENTIFIC COMPUTING(2021-22)

SL NO.	REGISTER NO.	NAME	19-11-21	23-11-21	27-11-21	30-11-21	2-12-21	4-12-21	9-12-21	15-12-21	18-12-21	4-1-22	6-1-22	10-1-22	13-1-22	17-1-22	19-1-22	22-1-22	25-1-22	SIGN	
1	TMAUSPH001	ANNA JABIN PK	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
2	TMAUSPH002	DILSHADA JIBI	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
3	TMAUSPH003	MUNAVIRA SHARIN V	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
4	TMAUSPH004	NAJMATH K	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
5	TMAUSPH005	NEDHA SOFI P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
6	TMAUSPH006	RAMSEENA K P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
7	TMAUSPH007	MUHAMMED NASEEM CHEMBAN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
8	TMAUSPH008	SALMANUL FARIS C	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
9	TMAUSPH009	ANAMIKA A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
10	TMAUSPH010	ANJANA C	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
11	TMAUSPH011	ARYAA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
12	TMAUSPH012	KRIPA P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
13	TMAUSPH013	NOORA K	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
14	TMAUSPH014	RIFA NASARIN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
15	TMAUSPH015	SHABOOMA NASRIN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
16	TMAUSPH016	SHAHANA SHERI K	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
17	TMAUSPH017	SHEBEENA SHERI A P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
18	TMAUSPH018	SOOFIYA YASMIN P M	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
19	TMAUSPH019	SREELAKSHMI A P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
20	TMAUSPH020	SWARGA P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
21	TMAUSPH021	ABHIJITH K M	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
22	TMAUSPH022	FAROOQ HASSAN M P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
23	TMAUSPH023	GOWTHAM KRISHNA NAIR S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
24	TMAUSPH024	HAREESH T V	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
25	TMAUSPH025	MOHAMMAD SAKEER A P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
26	TMAUSPH026	SOURAV P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
27	TMAUSPH027	VYSHNAV GANESH P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
28	TMAUSPH028	AMITHA M P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]
29	TMAUSPH029	ANAMIKA T	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[Signature]



T M GOVT COLLEGE TIRUR
DEPARTMENT OF PHYSICS

**LIST OF STUDENTS ENROLLED IN INTRODUCTION TO SCIENTIFIC
COMPUTING(2021-22)**

SL NO.	REGISTER NO.	NAME	STATUS
1	TMAUSPH001	ANNA JABIN PK	COMPLETED
2	TMAUSPH002	DILSHADA JIBI	COMPLETED
3	TMAUSPH003	MUNAVVIRA SHARIN V	COMPLETED
4	TMAUSPH004	NAJMATH K	COMPLETED
5	TMAUSPH005	NEDHA SOFI P	COMPLETED
6	TMAUSPH006	RAMSEENA K	COMPLETED
7	TMAUSPH007	MUHAMMED NASEEM CHEMBAN	COMPLETED
8	TMAUSPH008	SALMANUL FARIS C	COMPLETED
9	TMAUSPH009	ANAMIKA A	COMPLETED
10	TMAUSPH010	ANJANA C	COMPLETED
11	TMAUSPH011	ARYA A	COMPLETED
12	TMAUSPH012	KRIPA P	COMPLETED
13	TMAUSPH013	NOORA K	COMPLETED
14	TMAUSPH014	RIFA NASARIN	COMPLETED
15	TMAUSPH015	SHABOOMA NASRIN	COMPLETED
16	TMAUSPH016	SHAHANA SHERI K	COMPLETED
17	TMAUSPH017	SHEBEENA SHERI A P	COMPLETED
18	TMAUSPH018	SOOFIYA YASMIN P M	COMPLETED
19	TMAUSPH019	SREELAKSHMI A P	COMPLETED
20	TMAUSPH020	SWARGA P	COMPLETED
21	TMAUSPH021	ABHIJITH K M	COMPLETED
22	TMAUSPH022	FAROOQ HASSAN M P	COMPLETED
23	TMAUSPH023	GOWTHAM KRISHNA NAIR S	COMPLETED
24	TMAUSPH024	HAREESH T V	COMPLETED
25	TMAUSPH025	MOHAMMAD SAKEER A P	COMPLETED
26	TMAUSPH026	SOURAV P	COMPLETED
27	TMAUSPH027	VYSHNAV GANESH P	COMPLETED
28	TMAUSPH028	AMITHA M P	COMPLETED
29	TMAUSPH029	ANAMIKA T	COMPLETED
30	TMAUSPH030	ANJANA V	COMPLETED
31	TMAUSPH031	APARNA E	COMPLETED



**T M GOVT COLLEGE TIRUR
DEPARTMENT OF PHYSICS**

**LIST OF STUDENTS ENROLLED IN INTRODUCTION TO SCIENTIFIC
COMPUTING(2021-22)**

SL NO.	REGISTER NO.	NAME	STATUS
32	TMAUSPH032	ATHIRA P K	COMPLETED
33	TMAUSPH033	FASNA P P	COMPLETED
34	TMAUSPH034	GREESHMA T	COMPLETED
35	TMAUSPH035	HIBA K P	COMPLETED
36	TMAUSPH036	SHALINI K	COMPLETED
37	TMAUSPH037	SHAMIYANA M V	COMPLETED
38	TMAUSPH038	SONA P	COMPLETED
39	TMAUSPH039	VINAYA K	COMPLETED


COORDINATOR


HOD

Aboothahir Afzal
Assistant Professor in Physics
T.M. Govt. College
Vakkad PO. Tirur. PIN-976502,
Malappuram Dist.

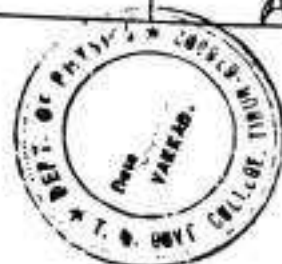


T M GOVT COLLEGE TIRUR

DEPARTMENT OF PHYSICS

MARK LIST OF STUDENTS ENROLLED IN INTRODUCTION TO
SCIENTIFIC COMPUTING 2021-22

SL NO.	REGISTER NO.	NAME	MARKS/GRADE
1	TMAUSPH001	ANNA JABIN PK	A+
2	TMAUSPH002	DILSHADA JIBI	A+
3	TMAUSPH003	MUNAVVIRA SHARIN V	A+
4	TMAUSPH004	NAJMATH K	A+
5	TMAUSPH005	NEDHA SOFI P	A+
6	TMAUSPH006	RAMSEENA K P	A+
7	TMAUSPH007	MUHAMMED NASEEM CHEMBAN	A+
8	TMAUSPH008	SALMANUL FARIS C	A+
9	TMAUSPH009	ANAMIKA A	A
10	TMAUSPH010	ANJANA C	A+
11	TMAUSPH011	ARYA A	A+
12	TMAUSPH012	KRIPA P	A+
13	TMAUSPH013	NOORA K	A+
14	TMAUSPH014	RIFA NASARIN	A+
15	TMAUSPH015	SHABOOMA NASRIN	A+
16	TMAUSPH016	SHAHANA SHERI K	A+
17	TMAUSPH017	SHEBEENA SHERI A P	A+
18	TMAUSPH018	SOOFIYA YASMIN P M	A+
19	TMAUSPH019	SREELAKSHMI A P	A+
20	TMAUSPH020	SWARGA P	A
21	TMAUSPH021	ABHIJITH K M	A+
22	TMAUSPH022	FAROOQ HASSAN M P	A+
23	TMAUSPH023	GOWTHAM KRISHNA NAIR S	A+
24	TMAUSPH024	HAREESH T V	A+
25	TMAUSPH025	MOHAMMAD SAKEER A P	A+
26	TMAUSPH026	SOURAV P	A+
27	TMAUSPH027	VYSHNAV GANESH P	A+
28	TMAUSPH028	AMITHA M P	A+
29	TMAUSPH029	ANAMIKA T	A+
30	TMAUSPH030	ANJANA V	A+
31	TMAUSPH031	APARNA E	A
32	TMAUSPH032	ATHIRA P K	A+



T M GOVT COLLEGE TIRUR
DEPARTMENT OF PHYSICS

MARK LIST OF STUDENTS ENROLLED IN INTRODUCTION TO
SCIENTIFIC COMPUTING 2021-22

SL NO.	REGISTER NO.	NAME	MARKS/GRADE
33	TMAUSPH033	FASNA P P	A+
34	TMAUSPH034	GREESHMA T	A+
35	TMAUSPH035	HIBA K P	A+
36	TMAUSPH036	SHALINI K	A+
37	TMAUSPH037	SHAMIYANA M V	A+
38	TMAUSPH038	SONA P	A+
39	TMAUSPH039	VINAYA K	A+

COORDINATOR

HEAD OF DEPARTMENT

Aboothahir Afzal
Assistant Professor in Physics
T.M. Govt. College
Vakkad P.O. Tirur, Pin-576502
Malappuram Dist.



No:TMPHYB21003



**THUNCHAN MEMORIAL
GOVERNMENT COLLEGE, TIRUR**

VAKKAD PO, MALAPPURAM DT, KERALA , INDIA. PIN: 676 502

Email:tmgctirur@gmail.com, Website:www.tmgctirur.ac.in

Certificate

It is certified by duly appointed examiners that

Sri/Smt. APARNA E

II B Sc Physics Class (Admission No.9409)

has qualified the Add on course on

Introduction to Scientific Computing

offered by the

DEPARTMENT OF PHYSICS.

He / She has scored 89 % Marks

and has been placed in A Grade

for the examination held in

MARCH 2022

Given under the Seal of the College.

Head of the Department
Tirur

Date: 31/03/2022



Principal


THUNCHAN MEMORIAL GOVT. COLLEGE TIRUR
DEPARTMENT OF PHYSICS


Introduction to Scientific Computing

REPORT

Department of Computer Science and Physics of Thunchan Memorial Govt. college Tirur conducted an Add-on course "Introduction to Scientific Computing" with 30 hours duration in the academic year 2021 - 22. Thirty nine students enrolled in the course. Mrs. Jayasree . K was appointed as Course Coordinator. All the 39 students completed the course successfully.


Co-ordinator


Head of the department


Principal
T.M. GOVT COLLEGE
TIRUR



**Prospectus and Syllabus of
Certificate Course in**

**Materials Science
for
Third year BSc Physics**



**Thunchan Memorial Govt. College, Tirur
Vakkad PO, Malappuram**

T M GOVT COLLEGE TIRUR
DEPARTMENT OF PHYSICS

CERTIFICATE COURSE ON MATERIALS SCIENCE

Course aims

By the end of the course students will be expected to:

- Demonstrate a basic knowledge of the physical principles, mathematical methods and techniques appropriate for solving nanotechnology problems and be able to apply them to industrial problems through a critical comprehension of the relative advantages and disadvantages of these methods;
- Demonstrate an understanding of some of the most common applications of nanoscale phenomena and how these relate to the solution of nanotechnology problems in industry;
- Manage their learning and research and conduct independent and effective study;
- Apply skills gained in analytical techniques from across the physical sciences.
- The role of materials in the contemporary world.
- Crystal Structures, Mechanical Properties of Metals, Nano materials, dielectric materials
- Describe the different types of material analysis techniques
- Describe crystalline and non crystalline materials

Duration of the course : 30 Hours
Total Credits : 4

SYLLABUS

Unit 1 **3 Hrs**

Introduction

What is material science, Classification of materials-metals, ceramics, polymers, composites, Advanced materials, smart materials.

Unit 2 **9 Hrs**

Material Analysis Techniques

Single crystal and powder diffraction techniques with diffractometer, Laue's technique and rotating crystal method, Microscopic techniques-Optical microscopy, electron microscopy, transmission electron microscopy, scanning electron microscopy, Scanning probe microscopy, construction and working of each device,



Unit 3**13 Hrs****Nanotechnology**

Nanotechnology: Foundation & Application, Why nanostructure materials?, Different Approaches and its significance, Classification of nanostructure materials: composition and dimension-wise, Nano Science: the driving force for nanotechnology, Synthesis of nanomaterials

Unit 4**5 Hrs****Broadband dielectric spectroscopy**


Principle of dielectric spectroscopy, Working arrangement of broadband dielectric spectroscopy, Application of BDS in plastic crystals and ionic liquids.

Book for study

1. Material Science and Engineering by William D. Callister, Adapted by R. Balasubramanyam (IIT, Kanpur), Published by Wiley India Pvt Ltd (Reprint 2011)

Book for reference

1. Materials science and engineering- Vth Edn- V Raghavan(PHI)
2. Material science by S.L.Kakani & Amit Kakani, 2nd edition 2010, reprint 2011
3. Material Science & Engineering, R.K. Rajput (Jain Book Agency)
4. Material Science and Engineering, I. P . Singh, & Subhash Chander (Jain Book Agency)
5. Christopher Toumey, Reading Feynman Into Nanotechnology: A Text for a New Science, Techné 12:3 Fall 2008.
6. Pulikel M. Ajayan, Nanocomposite Science and Technology, Wiley-VCH, 2005.
7. H. S. Nalwa (Ed.), "Encyclopedia of Nanoscience & Nanotechnology", American Scientific Publishers, California, 2004.
8. Broadband dielectric spectroscopy / F. Kremer, A. Schönhals (eds.)


Principal,
T.M. GOVT COLLEGE
TIRUR



No:TMPHYC21001



**THUNCHAN MEMORIAL
GOVERNMENT COLLEGE, TIRUR**
VAKKAD PO, MALAPPURAM DT, KERALA , INDIA. PIN: 676 502
Email:tmgctirur@gmail.com, Website:www.tmgctirur.ac.in

Certificate

It is certified by duly appointed examiners that

Sri/Smt. MIDHUN T

III B Sc Physics Class (Admission No.9027)

has qualified the Add on course on

Materials Science

offered by the

DEPARTMENT OF PHYSICS.

He / She has scored 90 % Marks

and has been placed in A+ Grade

for the examination held in

MARCH 2022

Given under the Seal of the College.

Head of the Department

Tirur

Date: 31/03/2022



Principal

THUNCHAN MEMORIAL GOVT. COLLEGE TIRUR
DEPARTMENT OF PHYSICS
CERTIFICATE COURSE ON MATERIAL SCIENCE
LIST OF STUDENTS FOR THE YEAR 2021-2022

SL.NO	REG.NO	NAME	CLASS
1	TMATSPH001	LIBA MARIYAM K	III BSc PHYSICS
2	TMATSPH002	AJMAL M P	III BSc PHYSICS
3	TMATSPH003	MISHAB A	III BSc PHYSICS
4	TMATSPH004	MUHAMED MARSHAD	III BSc PHYSICS
5	TMATSPH005	MUHAMMED SAFWAN	III BSc PHYSICS
6	TMATSPH006	NIBIL MUHAMMED N V	III BSc PHYSICS
7	TMATSPH007	ADITHYA P V	III BSc PHYSICS
8	TMATSPH008	AMRUTHA HARIDAS	III BSc PHYSICS
9	TMATSPH009	ANJITHA PRABHAKARAN E K	III BSc PHYSICS
10	TMATSPH010	BHAVANA C	III BSc PHYSICS
11	TMATSPH011	JINEESA P P	III BSc PHYSICS
12	TMATSPH012	KEERTHANA V	III BSc PHYSICS
13	TMATSPH013	NAJIYA NAZRIN V	III BSc PHYSICS
14	TMATSPH014	NANDANA M	III BSc PHYSICS
15	TMATSPH015	NUBAINA V V	III BSc PHYSICS
16	TMATSPH016	SHAFNA ALPARAMBIL	III BSc PHYSICS
17	TMATSPH017	SHONIMA A	III BSc PHYSICS
18	TMATSPH018	ADARSH A	III BSc PHYSICS
19	TMATSPH020	MIDHUN T	III BSc PHYSICS
20	TMATSPH021	MOHAMED SIBILI P P	III BSc PHYSICS
21	TMATSPH022	MOHAMMED AMEEN V V	III BSc PHYSICS
22	TMATSPH023	MOHAMMED SALIM N K	III BSc PHYSICS
23	TMATSPH024	SHIBINLAL K K	III BSc PHYSICS
24	TMATSPH025	VINAYAK P	III BSc PHYSICS
25	TMATSPH026	ANARGHA C P	III BSc PHYSICS
26	TMATSPH027	DEVIKA A V	III BSc PHYSICS
27	TMATSPH028	GADHA C	III BSc PHYSICS
28	TMATSPH029	SREELAKSHMI V P	III BSc PHYSICS
29	TMATSPH030	ABHIJITH C	III BSc PHYSICS
30	TMATSPH031	ANAT MATHEW	III BSc PHYSICS
31	TMATSPH032	DALWIN ALDO DAISON	III BSc PHYSICS
32	TMATSPH033	MOHAMMED MIDULAJ K	III BSc PHYSICS
33	TMATSPH035	SHIJIL K T	III BSc PHYSICS
34	TMATSPH036	FIDHA NASSAR PALAKKAL	III BSc PHYSICS

COURSE COORDINATOR



HOD



Aboothahir Atzal
 Assistant Professor in Physics
 T.M. Govt. College
 Varkad PO, Tirur, Pin-570002
 Malappuram Dist.



THUNCHAN MEMORIAL GOVT. COLLEGE TIRUR
DEPARTMENT OF PHYSICS
CERTIFICATE COURSE ON MATERIALS SCIENCE
MARK LIST OF STUDENTS COMPLETED THE COURSE

SL.NO	REG.NO	NAME	MARKS/GRADE
1	TMATSPH001	LIBA MARIYAM K	A
2	TMATSPH002	AJMAL M P	A+
3	TMATSPH003	MISHAB A	A
4	TMATSPH004	MUHAMED MARSHAD	A+
5	TMATSPH005	MUHAMMED SAFWAN	A+
6	TMATSPH006	NIBIL MUHAMMED N V	A+
7	TMATSPH007	ADITHYA P V	A+
8	TMATSPH008	AMRUTHA HARIDAS	A+
9	TMATSPH009	ANJITHA PRABHAKARAN E K	A+
10	TMATSPH010	BHAVANA C	A+
11	TMATSPH011	JINEESA P P	A+
12	TMATSPH012	KEERTHANA V	A+
13	TMATSPH013	NAJIYA NAZRIN V	A+
14	TMATSPH014	NANDANA M	A
15	TMATSPH015	NUBAINA V V	A+
16	TMATSPH016	SHAFNA ALPARAMBIL	A+
17	TMATSPH017	SHONIMA A	A+
18	TMATSPH018	ADARSH A	A+
19	TMATSPH020	MIDHUN T	A+
20	TMATSPH021	MOHAMED SIBILI P P	A+
21	TMATSPH022	MOHAMMED AMEEN V V	A+
22	TMATSPH023	MOHAMMED SALIM N K	A
23	TMATSPH024	SHIBINLAL K K	A+
24	TMATSPH025	VINAYAK P	A+
25	TMATSPH026	ANARGHA C P	A+
26	TMATSPH027	DEVIKA A V	A+
27	TMATSPH028	GADHA C	A+

28	TMATSPH029	SREELAKSHMI V P	A+
29	TMATSPH030	ABHIJITH C	A+
30	TMATSPH031	ANAT MATHEW	A+
31	TMATSPH032	DALWIN ALDO DAISON	A+
32	TMATSPH033	MOHAMMED MIDULAJ K	A+
33	TMATSPH035	SHIJIL K T	A+
34	TMATSPH036	FIDHA NASSAR PALAKKAL	A+


COURSE COORDINATOR


HOD

Abboothahir Afzal
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T.M. Govt. College
Vakkad PO, Tirur, PIN-576502,
Malappuram Dist.

THUNCHAN MEMORIAL GOVT. COLLEGE TIRUR
DEPARTMENT OF PHYSICS
CERTIFICATE COURSE ON MATERIALS SCIENCE
LIST OF STUDENTS COMPLETED THE COURSE

SL.NO	REG.NO	NAME	CLASS
1	TMATSPH001	LIBA MARIYAM K	COMPLETED
2	TMATSPH002	AJMAL M P	COMPLETED
3	TMATSPH003	MISHAB A	COMPLETED
4	TMATSPH004	MUHAMED MARSHAD	COMPLETED
5	TMATSPH005	MUHAMMED SAFWAN	COMPLETED
6	TMATSPH006	NIBIL MUHAMMED N V	COMPLETED
7	TMATSPH007	ADITHYA P V	COMPLETED
8	TMATSPH008	AMRUTHA HARIDAS	COMPLETED
9	TMATSPH009	ANJITHA PRABHAKARAN E K	COMPLETED
10	TMATSPH010	BHAVANA C	COMPLETED
11	TMATSPH011	JINEESA P P	COMPLETED
12	TMATSPH012	KEERTHANA V	COMPLETED
13	TMATSPH013	NAJIYA NAZRIN V	COMPLETED
14	TMATSPH014	NANDANA M	COMPLETED
15	TMATSPH015	NUBAINA V V	COMPLETED
16	TMATSPH016	SHAFNA ALPARAMBIL	COMPLETED
17	TMATSPH017	SHONIMA A	COMPLETED
18	TMATSPH018	ADARSH A	COMPLETED
19	TMATSPH020	MIDHUN T	COMPLETED
20	TMATSPH021	MOHAMED SIBILI P P	COMPLETED
21	TMATSPH022	MOHAMMED AMEEN V V	COMPLETED
22	TMATSPH023	MOHAMMED SALIM N K	COMPLETED
23	TMATSPH024	SHIBINLAL K K	COMPLETED
24	TMATSPH025	VINAYAK P	COMPLETED

25	TMATSPH026	ANARGHA C P	COMPLETED
26	TMATSPH027	DEVIKA A V	COMPLETED
27	TMATSPH028	GADHA C	COMPLETED
28	TMATSPH029	SREELAKSHMI V P	COMPLETED
29	TMATSPH030	ABHIJITH C	COMPLETED
30	TMATSPH031	ANAT MATHEW	COMPLETED
31	TMATSPH032	DALWIN ALDO DAISON	COMPLETED
32	TMATSPH033	MOHAMMED MIDULAJ K	COMPLETED
33	TMATSPH035	SHIJIL K T	COMPLETED
34	TMATSPH036	FIDHA NASSAR PALAKKAL	COMPLETED

COURSE COORDINATOR



HOD

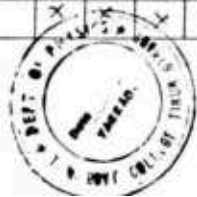


Aboothahir Afzal

Assistant Professor in P.T. Class
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Vadakkannur, PIN-676502,
Malappuram Dist.

THUNCHAN MEMORIAL GOVT. COLLEGE TIRUR
DEPARTMENT OF PHYSICS
CERTIFICATE COURSE ON MATERIAL SCIENCE
ATTENDANCE OF STUDENTS FOR THE YEAR 2021-2022

SL.NO	REG.NO	NAME	5.6.21	9.6.21	12.6.21	15.6.21	18.6.21	22.6.21	25.6.21	27.6.21	30.6.21	3.7.21	6.7.21	9.7.21	12.7.21	15.7.21	18.7.21	20.7.21	23.7.21	26.7.21	28.7.21	31.7.21	3.8.21	6.8.21	9.8.21	12.8.21	15.8.21	18.8.21	21.8.21	24.8.21	27.8.21	30.8.21	31.8.21						
1	TMATSPH001	LIBA MARIYAM K	x	x	x	x	x	✓	x	x	x	x	x	x	x	a	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
2	TMATSPH002	AJMAL M P	x	x	x	x	a	✓	x	x	x	x	x	x	x	x	x	x	✓	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
3	TMATSPH003	MISHAB A	x	x	x	x	x	✓	x	a	x	x	x	x	x	x	x	x	x	a	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
4	TMATSPH004	MUHAMED MARSHAD	x	x	x	x	x	✓	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
5	TMATSPH005	MUHAMMED SAFWAN	x	x	x	x	x	✓	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
6	TMATSPH006	NIBIL MUHAMMED N V	x	x	x	x	✓	x	x	x	x	a	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
7	TMATSPH007	ADITHYA P V	x	x	x	x	✓	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
8	TMATSPH008	AMRUTHA HARIDAS	x	x	x	x	✓	x	x	x	x	x	x	x	x	a	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
9	TMATSPH009	ANJITHA PRABHAKARAN E K	x	x	x	x	a	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
10	TMATSPH010	BHAVANA C	x	x	x	x	✓	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
11	TMATSPH011	JINEESA P P	x	x	x	x	✓	x	x	x	x	x	x	x	a	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
12	TMATSPH012	KEERTHANA V	x	x	x	x	✓	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
13	TMATSPH013	NAJIYA NAZRIN V	x	x	x	x	✓	a	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
14	TMATSPH014	NANDANA M	x	x	x	x	✓	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
15	TMATSPH015	NUBAINA V V	x	x	x	x	✓	x	x	a	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
16	TMATSPH016	SHAFNA ALPARAMBIL	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	



THUNCHAN MEMORIAL GOVT. COLLEGE TIRUR
DEPARTMENT OF PHYSICS

MATERIALS SCIENCE (TMGCPHY CC 1)

REPORT


Department of Computer Science and Physics of Thunchan Memorial Govt. College Tirur conducted a certificate course on "Materials Science" with 30 hours duration in the academic year 2021 - 22. Thirty four students were enrolled in the course. Dr.Aboothahir Afzal was appointed as Course Coordinator. All the 34 students completed the course successfully.



COURSE COORDINATOR



H.O.D



Principal,
THUNCHAN MEMORIAL GOVT COLLEGE
TIRUR