

**KNM GOVERNMENT DEGREE COLLEGE, MIRYALAGUDA  
NALGONDA DIST. 508207**

(Affiliated to Mahatma Gandhi University)



**DEPARTMENT OF PHYSICS**

**CERTIFICATE COURSE  
ON  
"RENEWABLE ENERGY PRACTICES"**

**FOR PHYSICS STUDENTS**

**ACADEMIC YEAR- 2021-2022**

**[FROM 01-12-2021 TO 17-01-2022]**

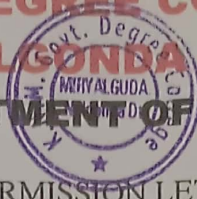
**No. Of Participants: 25**

**No. Of Hours: 30**

**Time: 4.30 PM to 5.30 PM**



**KNM GOVERNMENT DEGREE COLLEGE, MIRYALAGUDA  
NALGONDA DIST  
DEPARTMENT OF PHYSICS**



PERMISSION LETTER

Date: 25-11-2021

To  
The Principal,  
KNM GOVERNMENT DEGREE COLLEGE,  
MIRYALAGUDA,  
NALGONDA Dist.-508207

Respected Sir,

Sub:- DEPARTMENT OF PHYSICS - Seeking Permission to start Certificate Course in  
PHYSICS in our college Request-Reg.

-o0o-

We are the DEPARTMENT OF PHYSICS would like to start Certificate Course in PHYSICS in  
our college for the academic year 2021-22 for the betterment of all PHYSICS students.

Hence, I request you to permit me to start the Certificate Course on “RENEWABLE ENERGY  
PRACTICES FOR PHYSICS STUDENTS” for the above mentioned academic year.

Thanking you sir,

Yours faithfully

T. Venkata Ramana  
In-charge

DEPARTMENT OF PHYSICS

Department of Physics  
K.N.M. Govt. Degree College

Permission  
granted.


# CIRCULAR

Date: 27-11-2021

All the students are here by informed DEPARTMENT OF PHYSICS planning to Start "CERTIFICATE COURSE ON RENEWABLE ENERGY PRACTICES FOR PHYSICS STUDENTS" for a period of 30 hours for this Academic Year 2021-22. The classes will be conducted during Zero hours that is from 4:30 P.M to 5:30 P.M (1hours) on all working days. The Detailed scheduled will be intimated Soon. Interested candidates may enrol their names with Sri. T. Venkata Ramana, Lecturer in PHYSICS on or before.30-11-2021.



In-charge  
DEPARTMENT OF PHYSICS  
Department of Physics  
K.N.M. Govt. Degree College  
Miryalaguda.



Principal  
K.N.M. Govt. Degree College  
MIRYALGUDA

I-B.Sc.(MPCs, MPC)

II-B.Sc.( MPCs, MPC)

III-B.Sc. (MPCs, MPC)

**KNM GOVERNMENT DEGREE COLLEGE, MIRYALAGUDA**  
**NALGONDA DIST**

**DEPARTMENT OF PHYSICS**

Certificate Course on

**"RENEWABLE ENERGY PRACTICES FOR PHYSICS STUDENTS"**

**Curriculum of the Certificate Course:**

Total Hours: 30

Unit –I

(8 Hours)

- Fossil fuels & Nuclear energy -Limitations
- Need of non-conventional energy sources
- Wave energy systems
- Biomass
- Biochemical conversion
- Hydroelectricity

Unit –II

(8 Hours)

- Solar green houses
- Sun tracking systems
- Storage of solar energy
- Solar water heater
- Solar cell
- Sun temperature

Unit –III

(8 Hours)

- Fundamentals of wind energy
- Wind turbines
- Electrical machines in wind turbines
- Hydropower resources
- Hydropower technologies
- Environmental impact of hydro power sources

Unit – IV

(6 Hours)

- Physics of piezoelectric effect
- Materials of piezoelectricity
- Piezoelectric parameters
- Piezoelectric generators
- Piezoelectric energy applications



Course coordinator

Department of Physics  
K.N.M. Govt. Degree College  
Miryalaguda.

**KNM GOVERNMENT DEGREE COLLEGE, MIRYALAGUDA  
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RENEWABLE ENERGY PRACTICES FOR PHYSICS STUDENTS"**



**AIMS AND OBJECTIVES:**

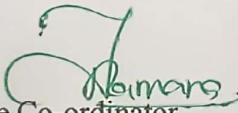
- To acquire depth knowledge in area of renewable energy.
- To provide clear understanding about energy harvesting techniques.
- To develop lateral thinking about renewable energy practices.
- To obtain specific capabilities of renewable energy concepts.
- To apply suitable techniques to implement energy harvesting challenges.
- To sensitive about the impact of renewable energy.
- To practice methods of renewable energy practices.
- To extend knowledge about renewable energy practices and their impact in the society.
- To demonstrate renewable energy practices for efficient use

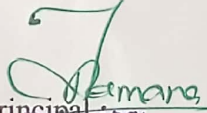
Sign. Of the Lecturer  
Department of Physics  
K.N.M. Govt. Degree College  
Miryalaguda.

Sign. Of the Principal  
K.N.M. Govt. Degree College  
MIRYALGUDA

**KNM GOVERNMENT DEGREE COLLEGE, MIRYALAGUDA**  
**NALGONDA DIST**  
**DEPARTMENT OF PHYSICS**  
**CERTIFICATE COURSE ON RENEWABLE ENERGY PRACTICES**  
Certificate Course Summary

1. Name of the course : **RENEWABLE ENERGY PRACTICES**
2. Name of the Course Coordinator: T. Venkata Ramana
3. Number of students participated: : 25
4. Number of students completed the course : 25
5. Number of hours taken : 30 Hours
6. Date of the course ( From – To) : **01-12-2021 TO 17-01-2022**
7. No. of certificates issued : 25

  
Course Co-ordinator  
Department of Physics  
K.N.M. Govt. Degree College  
Miryalaguda.

  
Principal  
K.N.M. Govt. Degree College  
MIRYALAGUDA

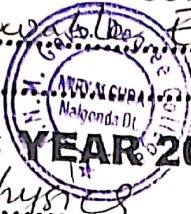
Attendance sheet AY 20 - 20

Sl. No	Name of the participant	Date & Month												Student Signature																		
		1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	B. Ganesh	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Ganesh
2	D. Ganesh Moik	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Ganesh
3	J. Mounika	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Mounika
4	N. Bhanu Prakash	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Bhanu
5	P. Karthi Kumar	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Kumar
6	P. Saiteja	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Saiteja
7	B. Saide	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Saide
8	B. Venu	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Venu
9	Ch. Swapna	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Swapna
10	P. Likith	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Likith
11	Homesheer Eamid	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Eamid
12	SK. Akthaf	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Akthaf
13	V. Sai	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Sai
14	SK. Saideed	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Saideed
15	A. Nagasidharan	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Nagasidharan
16	A. Vemkatesh	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Vemkatesh
17	B. Akanksha	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Akanksha
18	CH. Rangopal Varma	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Varma
19	T. Rakesh	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Rakesh
20	K.veeranjanevulu	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	veeranjanevulu
21	M. Sallaja	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Sallaja
22	P. Gopi	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Gopi
23	R. Kavya	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Kavya
24	Y. Ramana	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Ramana
25	P. Meesh	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Meesh

K.N.M. Govt. Degree College  
 MIRYALGUDA.

Department of Physics  
 K.N.M. Govt. Degree College  
 Course In-charge Yalaguda.

**KNM GOVERNMENT DEGREE COLLEGE, MIRYALGUDA**  
**CERTIFICATE COURSE IN .. Renewable Energy Practices ..**



**ACADEMIC YEAR 20 -20**

DEPARTMENT OF *Physics*

Sl.No.	Name of the participant	College ID	Group & Year	Student Signature
1	B. Ganesh	20044018468001	MPCS II	Ganesh
2	D. Ganesh naik	20044018468002	MPCS II	Ganesh
3	J. Mounika	20044018468004	MPCS II	Mounika
4	N. Bhanu Prakash	20044018468006	MPCS II	Bhanu
5	P. Kranthi Kumar	20044018468007	MPCS II	Kranthi
6	P. Saiteja	20044018468008	MPCS II	Saiteja
7	B. Saida	20044018441001	MPC II	Saida
8	B. Venu	20044018441002	MPC II	Venu
9	Ch. Swapna	20044018441003	MPC II	Swapna
10	P. Likith	20044018441008	MPC II	Likith
11	R. Homeshwar Gowd	20044018441009	MPC II	Homeshwar
12	SK. Athaf	20044018441010	MPC II	Athaf
13	V. Sai	20044018441011	MPC II	Sai
14	GK. Sajeed	20044018441012	MPC II	Sajeed
15	A. NAGASIDDHARDDHA	210440184681001	MPCS II	Siddhartha
16	A. Venkatesh	210440184681002	MPCS II	Venkatesh
17	B. AAKANKSHA	210440184681005	MPCS I	Aakanksha
18	CH. Ramgopal Varma	210440184681006	MPCS I	Ramgopal
19	J. Rakesh	210440184681007	MPCS I	Rakesh
20	K. Veeranjaneeyulu	210440184681008	MPCS I	Veeranjaneeyulu
21	m. shailaja	210440184681009	MPCS I	Shailaja
22	P. Gopi	210440184681010	MPCS I	Gopi
23	R. Kavya	210440184681012	MPCS I	Kavya
24	y. Ramana	210440184681013	MPCS I	Ramana
25	P. Mahesh	19044018441011	MPC II	Mahesh

*Ramana*  
 Course in Charge Physics  
 K.N.M. Govt. Degree College  
 Miryalaguda.

*Ramona*  
 Principal  
 K.N.M. Govt. Degree College  
 MIRYALGUDA.



**KNM GOVERNMENT DEGREE COLLEGE, MIRYALAGUDA**

**NALGONDA DIST**

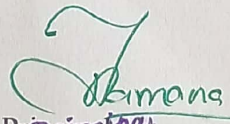
**DEPARTMENT OF PHYSICS**

Student Feedback Analysis on

**CERTIFICATE COURSE ON RENEWABLE ENERGY PRACTICES**

Resource Person: Sri. T. Venkata Ramana, Lecturer in PHYSICS

Sl.No	Questionnaire	Excellent	Very Good	Good	Average	Poor	Total
1	Syllabus frame work	21	02	02	-	-	25
2	Coverage of Syllabus	23	01	01	-	-	25
3	Course Methods	22	03	-	-	-	25
4	Explanation of the topics	24	01	-	-	-	25
5	Interaction	23	01	01	-	-	25
6	Doubts clarification	24	01	-	-	-	25
7	Teacher presentation	23	01	01	01	-	25
8	Interest Generation	24	01	00	-	-	25
9	Time Management	23	01	01	-	-	25
10	Overall opinion	23	01	01	-	-	25
	Remarks of the Principal						

  
Principal  
K.N.M. Govt. Degree College  
MIRYALGUDA.

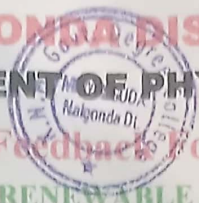
# KNM GOVERNMENT DEGREE COLLEGE, MIRYALAGUDA

NALGONDA DIST

DEPARTMENT OF PHYSICS

Student Feedback Form

CERTIFICATE COURSE ON RENEWABLE ENERGY PRACTICES



Resource Person: Sri T. Venkata Ramana, Lecturer in PHYSICS

Sl.No	Questionnaire	Excellent	Very Good	Good	Average	Poor	Total
1	Syllabus frame work	✓					
2	Coverage of Syllabus		✓				
3	Course Methods	✓					
4	Explanation of the topics			✓			
5	Interaction	✓					
6	Doubts clarification	✓					
7	Teacher presentation		✓				
8	Interest Generation	✓					
9	Time Management		✓				
10	Overall opinion	✓					

*Ch. Swapna*



# KNM GOVERNMENT DEGREE COLLEGE

MIRALAGUDA, NALGONDA DIST, TS - 508207

(Affiliated to Mahatma Gandhi University, Nalgonda)

## DEPARTMENT OF PHYSICS

### CERTIFICATE

This is certify that Mr / Mrs **B.GANESH B.Sc II Year** with Roll No **20044018468001** has successfully completed the certificate course in **"RENEWABLE ENERGY PRACTICES"** organized by the Department of Physics.

Department **In-charge** Physics  
K.N.M. Govt. Degree College  
Miryalaguda.

Principal  
K.N.M. Govt. Degree College  
MIRYALGUDA

# KNM GOVERNMENT DEGREE COLLEGE

MIRALAGUDA, NALGONDA DIST, TS - 508207

(Affiliated to Mahatma Gandhi University, Nalgonda)

## DEPARTMENT OF PHYSICS

### CERTIFICATE

This is certify that **Mr / Mrs D. Ganesh Naik B.Sc II Year** with Roll No **20044018468002** has successfully completed the certificate course in **"RENEWABLE ENERGY PRACTICES"** organized by the Department of **Physics**.



Department **In charge**  
K.N.M. Govt. Degree College  
Miryalaguda.



Principal  
M. Govt. Degree College  
MIRYALGUDA.