





30/12/2020

The department meeting has been held under the leadership of Sir NVS Bhagavan on 30/12/2020 and the following activities are resolved.

1. Preparation of records related to NAC
2. To conduct certificate work by name "Servicing and maintenance of Refrigerator and Washing Machine".

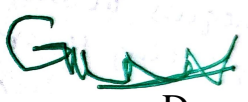
   

From
Sri N V S Bhagavan, In charge
Department of Physics,
Govt. Degree College for Men,
Srikakulam.

To
The Principal,
Govt. Degree College for Men,
Srikakulam.

Subject: Request to Introduce Certificate Course for UG -B.Sc. Students - Reg.

Respected Sir,

 The Department of Physics in its meeting held on 30-12-2020 at Department of Physics passed a resolution to request the introduction of a certificate course on Servicing of Refrigerator and Washing Machine for B.Sc. students at Govt. Degree College (Men), Srikakulam. This course will provide valuable additional knowledge, skills, and opportunities, enhancing our student's academic and career prospects. Your consideration of this request is greatly appreciated.

Thanking you Sir,



Yours Sincerely,



Dt. 03.12.2020


Department of Physics

Circular

This is to inform you all that Department of Physics is going to conduct Certificate Course on “Servicing of Refrigerator and Washing machine” from 15-12-2020 for 30 hours during the working days of the college in Physics Lab. The final year degree students who have the interest to join in the course are requested to give your name to Sri N.V.S. Bhagavan, In-charge Dept. of Physics, on or before 14-12-2020.


In-Charge

Dept. of Physics


Principal
PRINCIPAL
Govt. Degree College (Men)
SRIKAKULAM.

CERTIFICATE COURSE BROCHURE: 2020-21



GOVERNMENT DEGREE COLLEGE (MEN)

ACCREDITED BY NAAC WITH B++ (CGPA 2.90)

Srikakulam - 532001, Andhra Pradesh, India

ph: 08942 222383 e-mail: info@gdcmskln.ac.in website: <https://www.gdcmskln.ac.in>



Servicing of Refrigerator and Washing machine

Offered by

Department of Physics, Govt. Degree College for Men, Srikakulam

About the Course: The certificate course on servicing of refrigerators and washing machines for B.Sc. students provides hands-on training in diagnosing and repairing common issues. Students learn about electrical systems, components, and maintenance techniques. This practical course equips learners with skills to troubleshoot and fix problems in both appliances, preparing them for careers in appliance repair.

Number of Credits: Nil

Mode of Teaching: Offline

Course Contents: Introduction to Refrigeration Systems, Refrigerator Troubleshooting, Refrigerator Repair and Servicing, Introduction to Washing Machines, Washing Machine Troubleshooting, Washing Machine Repair and Servicing, Practical Sessions, Safety and Tools

References: 1. https://cdn.who.int/media/docs/default-source/medicines/norms-and-standards/guidelines/distribution/trs961-annex9-supp9.pdf?sfvrsn=73c19946_2.pdf

2. <https://www.bdu.ac.in/academics/syllabi/2016/SBE/Electronics.pdf>

Eligibility Criteria: B.sc final year Mathematical Science students only.

Fee Structure: NIL

Important Dates

- ❖ Registration start date : 03.12.2020
- ❖ Last date for registration : 14.12.2020
- ❖ Commencement of classes : 15.12.2020
- ❖ Last class work : 27.01.2021
- ❖ Date of final examination : 28.01.2021

Paper Code: GCMPHY02

Admission Procedure: Interested participants can complete the registration process through the following registration forms for the above course is available at the department of Physics. Admission process for this course is on first-come-first-serve basis and the last date for registration to the courses 03.12.2020.

Class Duration: Classes will be held for 30hours starting from 15.12.2020. Every week classes will be held on Monday to Friday (except for the national holidays/festivals). Final examination will be conducted on 28.01.2021. The class timings will be 4.30–5.30 hours IST (except for the day of the final examination).

Assessment: Assessment will be based on completion of theory and practical in the test conducted at the end of the course. The participant must obtain at least 50% in the test to avail the course completion certificate.

Course Coordinator

Sri Kuna Srinivasa rao,
Lecturer in Physics,
Department of Physics

2020-2021

III BSc (MPC, MPB, MPE)

Expt. No. :

Expt. Name :

Date :

Page No :

01	2022	K. ARMICA	K. Armica
2	2025	K. Nagamani	K. Nagamani
16	2043	R. Sandhya	R. Sandhya
19	2050	T. Dhilesh siao	T. Dhilesh siao
21	2044	R. Ramu	R. Ramu
22	2080	K. Praveen kumar	K. Praveen kumar
23	2049	T. AMAR	T. Amar
21	2039	P. Prabhath	P. Prabhath
22	2024	K. Dhileswari	K. Dhileswari
23	2042	R. Lalitha	R. Lalitha

2020-2021

BSC (MPC & EMP)

11/2

Expt. No. :

Date :

Page No :

Expt. Name :

1	2042	Ponnana, Sivaji.	P. Sivaji.
2	2014	Rajothi, Amman Naidu.	P. Amman Naidu.
3	2048	Tamira Banu, Pradhan.	T. Banu.
4	180014003.		
5	003	Alada, Tavitiraju.	A. Tavitiraju.
6	1020	Gr. Ramprasad.	Gr. Ramprasad.
7	1018	Gr. Varkala Naidu.	G. Varkala.
8	1015	D. Pavi.	D. Pavi.
9	1029	Kunci Tarun.	K. Tarun.
10	1036	Gr. Prasad.	G. Prasad.
11	1035	M. Sreehari.	M. Sreehari.
12	1800143005.		
13	005	B. Kanti.	B. Kanti.
14	3043	V. Sahitya Sowmya.	V. Sahitya Sowmya.
15	3045	S. Benari.	S. Benari.
16	3034	N. Srikantha.	N. Srikantha.
17	3043	R. Krishna Sai.	R. Krishna Sai.
18	3044	S. Karthik.	P. Kiran.
19	3036	P. Kiran.	
20	1800143014		
21	014	K. Ayyappa.	K. Ayyappa.
22	2013	Gr. Rakesh.	G. Rakesh.
23	3032	N. Sivaji.	N. Sivaji.
24	1800142026.		
25	026	K. Harishin.	K. Harishin.
26	2011	D. Upendra.	D. Upendra.
27	2008	C. Ramu.	C. Ramu.

GOVT. DEGREE COLLEGE(MEN), SRIKAKULAM
DEPT. OF PHYSICS
CERTIFICATE COURSE ON
SERVICING OF REFRIGERATOR AND WASHING MASCHINE

Duration: 30 Hrs

Year : 2020-21

SYLLABUS

Course Objectives:

- To understand the basic principles of refrigeration and washing machine operation.
- To learn common problems and troubleshooting techniques.
- To gain hands-on experience in repairing and servicing refrigerators and washing machines.

Module 1: Introduction to Refrigeration Systems (2 hours)

Basic refrigeration cycle
Components of a refrigerator
Types of refrigerants
Safety precautions in refrigeration servicing

Module 2: Refrigerator Troubleshooting (3 hours)

Common problems and their causes
Understanding temperature control mechanisms
Use of multimeter for diagnosis

Module 3: Refrigerator Repair and Servicing (5 hours)

Defrosting procedures
Compressor testing and replacement
Evaporator and condenser coil cleaning
Door seal replacement

Module 4: Introduction to Washing Machines (2 hours)

Types of washing machines
Basic components and their functions

Common washing machine problems

Module 5: Washing Machine Troubleshooting (3 hours)

Identifying motor issues

Drainage and water flow problems

Electrical faults and their diagnosis

Module 6: Washing Machine Repair and Servicing (5 hours)

Cleaning the filter and drainage system

Belt replacement

Motor testing and replacement

Drum maintenance

Module 7: Practical Sessions (15 hours)

Hands-on experience in diagnosing refrigerator issues

Practical training on refrigerator repair tasks

Hands-on experience in diagnosing washing machine problems

Practical training on washing machine repair tasks

Module 8: Safety and Tools (3 hours)

Proper handling of tools and equipment

Safety measures during repair work

Disposal of refrigerants and chemicals

Module 9: Final Assessment and Certification (2 hours)

Written examination on theory and principles

Practical assessment on repairing a faulty refrigerator and washing machine

Certificate award ceremony

MODEL PAPER FOR CERTIFICATE COURSE

DEPARTMENT OF PHYSICS

COURSE CODE: **GDCMPHY02**

(SERVICING OF REFRIGERATOR AND WASHING MACHINE)

MAX.MARKS: 50

TIME: 02 HOURS

Section A: Theory (25 Marks)

Answer All Questions

1. Explain the basic refrigeration cycle. How does it apply to household refrigerators? (5 marks)
2. List and describe three common problems that occur in refrigerators. How would you troubleshoot each of these problems? (6 marks)
3. Define the following terms:
 - Evaporator
 - Compressor
 - Condenser
 - Refrigerant (4 marks)
4. Discuss the safety precautions that should be followed when servicing a refrigerator. Why are these precautions important? (5 marks)
5. Describe the working principle of a washing machine. How does it differ between a top-loading and front-loading machine? (5 marks)

Section B: Practical (25 Marks)

Answer All Questions

6. You are given a refrigerator that is not cooling properly. Demonstrate step-by-step how you would troubleshoot and identify the possible cause of the issue. (10 marks)
7. A washing machine is not draining water. Show how you would diagnose and fix this problem. (10 marks)
8. In a practical scenario, you are asked to replace the door seal of a refrigerator. Describe the tools you would use and the steps involved in completing this task. (5 marks)

Instructions:

- Attempt all questions.
- Answer Section A (Theory) questions in the provided space below each question.
- For Section B (Practical) questions, provide detailed step-by-step answers.
- Clearly label your answers with the corresponding question numbers.
- Ensure your answers are clear, concise, and demonstrate your understanding and practical knowledge.
- Total marks for the assessment: 50

Evaluation Criteria:

- **Theory:** Clear explanation of concepts, accuracy, and relevance of information.
- **Practical:** Correct diagnostic steps, appropriate repair techniques, and safety measures.
- **Communication:** Clarity, organization, and completeness of answers.

Note to Students:

- Use diagrams or sketches where necessary to support your answers.
- Refer to the course material and practical sessions for guidance.
- Think critically and apply your knowledge to practical scenarios.
- Demonstrate your problem-solving skills in the practical section.

Certificate Course physics

2020-2021

REGISTER OF ATTENDANCE

FOR THE MONTH OF

20

2018-21

Name of the Institute MPC

15/1/2020

21/1/2021

Sl. No.	Admission No.	NAME	CASTE	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Present Days	Da B
1	003	ALLADA TAVITI RAJU.		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
2	1020	G. RAMPRASAD		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
3	1018	G. VARHALA NAIDU		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
4	1015	DATTI RAVI		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
5	1029	KUNA THARUN		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
6	1036	G. PRASAD		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
7	1035	M. SREEHARI		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
8	1005	B. KRANTI		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
9	3047	V. SAHITYA SONMYA		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
10	3045	SAVARA BENARI		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
11	3034	AGTHINTI SRILANTH.		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
12	3043	R. KRISHNA SAI		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
13	3044	SAINI KATHIK		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
14	3036	PALCEPU KIRAN.		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
15	3014	K. AYYAPPA		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
16	3013	GODDU RARESH		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
17	3032	NARTHUSIVAJI		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
18	2026	KHARSHIN		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
19	2011	D. UPENDRA		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
20	2008	C. RAMU		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
21	2022	K. ARMICA		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
22	2025	K. NAGAMANI		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
23	2043	R. SANDHYA		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
24	2050	T. DHILLES RAD		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
25	2044	R. RAMU.		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
26	2020	K. PRAVEEN KUMAR		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
27	2049	T. AMAR		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
28	2039	P. PRASANTH		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
29	2024	K. DHILLESWARI		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
30	2042	R. CALITHA		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		

NO. ON ROLL AT THE BEGINING No. of Rows Present A.M.

No. o



Government Degree College (M), Srikakulam



Consolidated Feedback

Total no. of Participants = 30

No. of participants from whom feed back is collected = 22

S.No		No. of participants graded "Yes"		No. of participants graded "No"		
1	Did the event fulfill 'subjective'	22				
2		No. of participants graded - 1	No. of participants graded - 2	No. of participants graded - 3	No. of participants graded - 4	No. of participants graded - 5
3	How useful was the event for you			2	14	14
4	Rate the overall success of the event			2	13	15
5	Key take away points from the event	Very useful Servicing of Refrigerator & washing machine				
6	Suggestions if any	Increase practical hours				


Coordinator



Government Degree College (M), Srikakulam



Feedback

Name of the Certificate Course	Servicing of Refrigerator and Washing machine
Department	Physics
Date	28.01.2021
Name of the participant	G. Rama prasad
Group	M.P.C

1. Did the event fulfil its objectives?

✓
Yes/No

2. How useful was the event for you? (0 being Not useful and 5 Most useful)

0	1	2	3	4	5
---	---	---	---	---	---

3. Rate the overall success of the course (0 being Not useful and 5 Most useful)

0	1	2	3	4	5
---	---	---	---	---	---

4. List the key takeaway points from the events.

I could successfully learn Servicing washing machine

5. Suggestions if any

G. Rama prasad
Signature of the Participant



Government Degree College (M), Srikakulam



Feedback

Name of the Certificate Course	Servicing of Refrigerator and Washing machine
Department	Physics
Date	28.01.2021
Name of the participant	R. Sandhya
Group	M.P.CS

1. Did the event fulfill its objectives?

✓
Yes/No

2. How useful was the event for you? (0 being Not useful and 5 Most useful)

0	1	2	3 ✓	4	5
---	---	---	-----	---	---

3. Rate the overall success of the course (0 being Not useful and 5 Most useful)

0	1	2	3	4	5 ✓
---	---	---	---	---	-----

4. List the key takeaway points from the events.

I could successfully completed washing machine servicing

5. Suggestions if any

R. Sandhya
Signature of the participant



Government Degree College (M), Srikakulam



Feedback

Name of the Certificate Course	Servicing of Refrigerator and Washing machine
Department	Physics
Date	28.01.2021
Name of the participant	R. LALLITHA
Group	MPCs

1. Did the event fulfil its objectives?

✓
Yes/No

2. How useful was the event for you? (0 being Not useful and 5 Most useful)

0	1	2	3 ✓	4	5
---	---	---	-----	---	---

3. Rate the overall success of the course (0 being Not useful and 5 Most useful)

0	1	2	3 ✓	4	5
---	---	---	-----	---	---

4. List the key takeaway points from the events.

I could successfully learn the washing machine

5. Suggestions if any

please continue the program with juniors

R. Lallitha.

Signature of the Participant



Government Degree College (M), Srikakulam



Feedback

Name of the Certificate Course	Servicing of Refrigerator and Washing machine
Department	Physics
Date	28.01.2021
Name of the participant	T. Amar
Group	MPCS

1. Did the event fulfill its objectives?

✓
Yes/No

2. How useful was the event for you? (0 being Not useful and 5 Most useful)

0	1	2 ✓	3	4 ✓	5
---	---	-----	---	-----	---

3. Rate the overall success of the course (0 being Not useful and 5 Most useful)

0	1	2 ✓	3	4	5 ✓
---	---	-----	---	---	-----

4. List the key takeaway points from the events.

I could successfully refrigerate & washing machine

5. Suggestions if any

T. Amar
Signature of the Participant



Feedback

Name of the Certificate Course	Servicing of Refrigerator and Washing machine
Department	Physics
Date	28.01.2021
Name of the participant	R. KRISHNA SAI
Group	MPE

1. Did the event fulfil its objectives?

✓
Yes/No

2. How useful was the event for you? (0 being Not useful and 5 Most useful)

0	1	2	3	4	5
---	---	---	---	---	---

✓

3. Rate the overall success of the course (0 being Not useful and 5 Most useful)

0	1	2	3	4	5
---	---	---	---	---	---

✓

4. List the key takeaway points from the events.

I could successfully learn the servicing of Refrigerator

5. Suggestions if any

R. Krishna Sai
Signature of the Participant



GOVT. DEGREE COLLEGE (MEN)

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(Affiliated to Dr.BRAU, Srikakulam)



Certificate Course on

SERVICING & MAINTENANCE OF REFRIGERATOR & WASHING MACHINE

This is to certify that Kum./Mr. **K HARISH** , **III B.Sc. (MPCs)**, **Govt. Degree College (Men), Srikakulam** got registered himself/herself for the Certificate Course on SERVICING & MAINTENANCE OF REFRIGERATOR & WASHING MACHINE, organized by the **Department of Physics** and completed the course programme during from **15-12-2020 to 27-01-2021**. Her/His performance is credited with "**A**" Grade.

Sri K. Srinivasa Rao

Course Coordinator

Sri N.V.S. Bhagavan

Incharge Dept. of Physics

Dr. G. Janardhana Naidu

Principal



GOVT. DEGREE COLLEGE (MEN)

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Certificate Course on

SERVICING & MAINTENANCE OF REFRIGERATOR & WASHING MACHINE

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Certificate Course on

SERVICING & MAINTENANCE OF REFRIGERATOR & WASHING MACHINE

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Certificate Course on

SERVICING & MAINTENANCE OF REFRIGERATOR & WASHING MACHINE

This is to certify that Kum./Mr. **K ARMILA, III B.Sc. (MPCs), Govt. Degree College (Men), Srikakulam** got registered himself/herself for the Certificate Course on SERVICING & MAINTENANCE OF REFRIGERATOR & WASHING MACHINE, organized by the **Department of Physics** and completed the course programme during from **15-12-2020 to 27-01-2021**. Her/His performance is credited with "**A**" Grade.

Sri K. Srinivasa Rao

Course Coordinator

Sri N.V.S. Bhagavan

Incharge Dept. of Physics

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Certificate Course on

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Sri K. Srinivasa Rao

Course Coordinator

Sri N.V.S. Bhagavan

Incharge Dept. of Physics

Dr. G. Janardhana Naidu

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Certificate Course on

SERVICING & MAINTENANCE OF REFRIGERATOR & WASHING MACHINE

This is to certify that Kum./Mr. **K PRAVEEN KUMAR, III B.Sc. (MPCs), Govt. Degree College (Men), Srikakulam** got registered himself/herself for the Certificate Course on SERVICING & MAINTENANCE OF REFRIGERATOR & WASHING MACHINE, organized by the **Department of Physics** and completed the course programme during from **15-12-2020 to 27-01-2021**. Her/His performance is credited with "**A**" Grade.

Sri K. Srinivasa Rao

Course Coordinator

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