



NAAC RE-ACCREDITED WITH 'A' GRADE

Sevalal Mahila Mahavidyalaya

Place for Higher Learning & Research (Research Academy)

Sakkardara Square, Umrer Road, Nagpur-440 024

E-mail: sevamahilamv@gmail.com

Website: www.sevalalmahilamahavidyalaya.ac.in

Certificate Course *in* Maintenance of Home Appliances

Department of Physics



N. Quoble

Off. Principal
Sevalal Mahila Mahavidyalaya
Nagpur.

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Place for Higher Learning & Research (Research Academy)
Sakkaradara Square, Umrer Road, Nagpur-440024

Course Name: Maintenance of Home Appliances

(Washing Machine, Electric Press)

Duration: Three Months

Eligibility: 12th Pass (Science, Arts, Commerce, MCVC, Home Science)

OBJECTIVES:

- To prepare the participants/ beneficiaries for effective techniques.
- To enable participants to handling the instruments and its skills.
- To prepare maintenance methods of appliances.
- To know about the working of appliances.

Course Outline and Syllabus:

Unit I

Electricity and Personal Safety: Concept of ac and dc voltage, frequency and voltage of ac supply in India. Electrical Safety and precautions, Safety devices: fuse, earthing and earthing methods, MCBs.

Unit II

Applications of law of Physics: Heating effect of electric current, thermostatic control and automation with bimetallic strip.

Unit III

Appliances: Principle, construction and working of : Electric press, possible defects, precautions and remedies.

Unit IV

Definition of motor, motor based appliances principle, construction and working of washing machine, possible defects, precautions and remedies



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PRACTICAL

1. Use of multi-meter to measure voltage and frequency of ac supply.
2. To find the efficiency of an electric heater.
3. Calibration of bimetallic strip and verification of automation.
4. To measure power of an appliance and calculate KWH unit of electric energy consumption.
5. Maintenance of washing machine.
6. Maintenance of electric press.

BOOK RECOMMENDED:

1. Principle physics (vol. I & II)- Halliday & Resnik.
2. Principle of physics- Subramanaym, Brijwal.
3. Study of electrical appliances and devices- K. B. Bhatia, Khanna publishers, New Delhi.
4. Electrician Theory- A. K. Mittal, Arihant publication, Merath.
5. Basic electrical Engineering- M. L. Anwani Dhanpat rai 7 co.P.Ltd.
6. How things work (vol. I & II)- INDUS (Harper Collins India)

Teaching Methodologies:

- The course will be taught through theory and practical mode.
- Use of chalk board and power point mode as per requirement of the syllabus.
- For Theory: 20 Hrs.
- And for Practical: 20 Hrs.
- Exam Pattern: Theory-Three Hrs and Practical-Six Hrs.
- Attendance: 75% IS Compulsory.

Assessment and evaluation Methods:

- Theory and Practical Paper setting as per the RTM Nagpur University pattern.
- Total Marks : 100
- Theory : 50
- IA : 20
- Practical : 30
- Experiment : 15
- Viva : 05



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Course Outcome:

1. Generation of self employment.
2. Students can understand the concepts of physics, electricity and motor.
3. Students learn about electrical safety, remedies and precautions of appliances.
4. Students learn about ac supply.
5. Students can understand about unit of electric energy consumption.
6. Students can understand about maintenance of electric press and washing machine.

Name of Teaching staff:

1. Dr. Raghoba R Nagpure, HOD
2. Assit. Prof. Smita Padole



Dr. Raghoba Nagpure
Course Coordinater
Maintenance of Home Appliances



Dr. Pravin Charde
Principal
Sevadal Mahila Mahavidyalaya
Nagpur



N. Charde
Off. Principal
Sevadal Mahila Mahavidyalaya
Sevadal Mahila Mahavidyalaya
Nagpur.

To,
The Principal,
Sevadal Mahila Mahavidyalaya,
Nagpur

Subject:- submission of syllabus of Certificate Course in Maintenance of Home Appliances.

Reference:- Your letter on dated- 3rd Aug 23

Respected Sir,

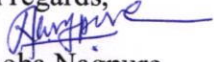
With reference to your letter dated 03 Aug Department of Physics have designed the syllabus of certificate course in Maintenance of home appliances for the college students of Sevadal Mahila Mahavidyalaya, Nagpur.

The purpose of the course is to make students enable to deal with real life maintenance of home appliances and to aware to handling the same. The course will also help students to gain confidence and subsequently build the technique.

I, hereby, request you to endorse the designed syllabus and if you find any discrepancy, please convey the same. Only after your approval, the next level of planning to commence the course would be prepared.

Thanking you.

With regards,


Dr. Raghoba Nagpure
Course Coordinator

Noushr
Off. in-charge
Sevadal Mahila Mahavidyalaya
Nagpur.

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SEVADAL MAHILA MAHAVIDYALAYA
Place for Higher learning & Research (Research Academy)
Sakkardara Chowk, Umrer Road, Nagpur-440024

Date – 13.09.2023

NOTICE

All the members of the Department of Physics are hereby informed that the meeting regarding the Certificate Course in 'Maintenance of Home Appliances' has been scheduled on 15.09.2023 at 12.30 pm at the Hon'ble Principal's Chamber.

Hon'ble Principal Sir will chair the meeting in presence of Dr. Deshpande, NAAC Coordinator.

Agenda of the meeting:

- 1) To confirm the minutes of last meeting.
- 2) To continue 'Maintenance of Home Appliances' course for the year 2023-24.
- 3) Any other matter with the permission of the Chair.



Dr. R. R. Nagpure
Course Coordinator
Communicative English

Copy to:

Dr. P S Deshpande, NAAC Coordinator



Nagpure

Off. Principal
Sevalal Mahila Mahavidyalaya
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Place for Higher learning & Research (Research Academy)
Sakkardara Chowk, Umrer Road, Nagpur-440024

Date: 22.09.20223

NOTICE

Now a days we are around electrical home appliances and its plays a crucial role in day to day life. To acquire basic skill to maintain the appliances, a special Certificate Course in '*Maintenance of Home Appliances*' is designed by the Department of Physics.

Interested students should contact following teachers for admission on or before 01.10.2023.

- 1) Dr. R. R. Nagpure, HOD, Physics.
- 2) Mrs. Smits P Padole.

Prof. Pravin Charde



Principal

Sevadal Mahila Mv, Nagpur



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Place for Higher Learning and Research (Research Academy) Sakkardara Square,
Umrer Road, Nagpur-440024

CERTIFICATE COURSE IN Maintenance of Home Appliances

Academic Session : 2023-2024

List of Students of B. Sc. H. Sc Sem-III

SR. No.	NAME OF STUDENTS
1	Aachal Marotrao Kodwate
2	Anamika Laxam Kosre
3	Anjali Prakash Jadhav
4	Bhakti Panditrao Fating
5	Divya Rishi Mohane
6	Karishma Chandrakumar Patle
7	Lina Damodhar Bawane
8	Madhuri Rajkumar Satule
9	Mahevish Israil Sheikh
10	Manjiri Shrikant Paturkar
11	Manshi Dinesh Pedulwar
12	Nandini Gopal Jangade
13	Neha Rajesh Vishwakaram
14	Neha Sanjay Katkade
15	Nikki Ashokkumar SHahu
16	Prachi Ramchandra Bante
17	Pratiksha Vikas Pantawane
18	Reshma Salim Sheikh
19	Sakshi Chandrakant Dhawangale
20	Sakshi Sanjay Shingade
21	Samiksha Pandurang Buradkar

MR. R. R. NAGPURE



Prof. P. N. Charde
Principal

Office Principal
Sevadal Mahila Mahavidyalaya
Nagpur.

SEVADAL MAHILA MAHAVIDYALAYA

Place for Higher learning & Research (Research Academy)

Sakkardara Chowk, Umrer Road, Nagpur-440024

Minutes of the Meeting 19.03.2024

Certificate Course in 'Maintenance of Home Appliance'

The meeting regarding the Certificate Course in '***Maintenance of Home Appliance***' was held on 19.03.2024 at 12.30 pm in the Hon'ble Principal's Chamber. Hon'ble Principal Sir presided over the meeting.

Agenda of the meeting:

- 1) To confirm the minutes of the last meeting.
- 2) To review the progress of the course '***Maintenance of Home Appliance***'.
- 3) Any other matter with the permission of the Chair.

Following Members were present.

- | | |
|---|--------------------|
| 1) <u>Dr. N. S. Ahole</u> | Chairman |
| 2) <u>Asst. Prof. A. P. Lumbard</u> | IQAC Coordinator |
| 3) <u>Asst. Prof. R. R. Nagpure</u> | Course Coordinator |
| 4) <u>Asst. Professor Smita Padole.</u> | Member |

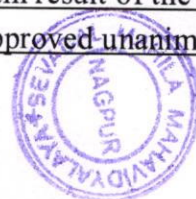
Mr. R. R. Nagpure, Course Coordinator acted as secretary in the meeting. The Coordinator welcomed the Chairperson, Hon'ble Principal and other members and called the meeting in order with the permission of chairperson. The Coordinator read out the agenda of the meeting and subsequently discussed the matter.

- 1) Item No.1: **To confirm the minutes of the last meeting.**

Resolution: The minutes of the last meeting held on 113.10.2023 were read by the course coordinator and after through discussion the minutes were unanimously approved.

- 2) Item No.2: **To review the progress of the course '*Maintenance of Home Appliance*'.**

Resolution: Course Coordinator presented exam result of the Certificate Course. After through discussion it was approved unanimously.



Nagpure
Off. Principal
Sevadal Mahila Mahavidyalaya

3) Item No.3: **Any other matter with the permission of Chair.**

Resolution: Hon'ble Principal Sir instructed to distribute certificates to the students on the accomplishment of certificate course.

<u>Name</u>	<u>Signature</u>
1 Hon'ble Dr. N.S. Dhoble 2	<u>N.S. Dhoble</u>
Mr. A.P. Lambert	<u></u>
3 Mr. R. R Nagpure	<u>R.R. Nagpure</u>
4 Mrs. Smita Padole	<u></u>



N.S. Dhoble
Off. Principal
Sevadal Mahila Mahavidyalaya
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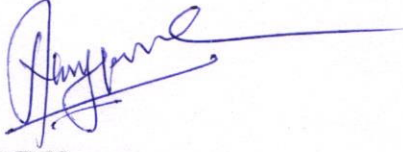
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Place for Higher learning & Research (Research Academy)
Sakkardara Chowk, Umrer Road, Nagpur-440024

Date : 07.04.2024

NOTICE

All the students of Certificate Course in Maintenance of Home Appliances are hereby informed that the theory Written, practical and Oral Examination will be held on 24.04.2024 at 2.00 pm and 26.04.2024 in the dept. of Physics of the College . Students are directed to remain present.



Dr. R.R.Nagpure
Course Coordinator
Certificate course



Off. Principa *N.S. Dhoble*
Sevadal Mahila mahavidyalaya
Nagpur.

Prof. N.S. Dhoble
Principal

Sevadal Mahila Mv, Nagpur

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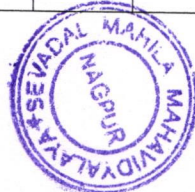
Place for Higher Learning and Research (Research Academy) Sakkardara Square,
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CERTIFICATE COURSE IN Maintenance of Home Appliances.

Academic Session : 2023-2024

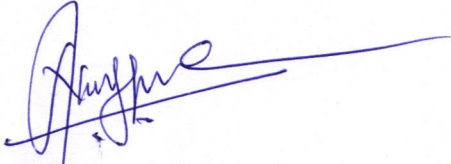
MARK SHEET

SR. No.	NAME OF STUDENT	MARKS OBTAINED				IN WORDS	GRADE
		Theory (50)	IA (20)	Prct (30)	Total (100)		
1	Aachal Marotrao Kodwate	29	19	26	74	Seventy four	A
2	Anamika Laxam Kosre	34	18	25	77	Eighty Four	A
3	Anjali Prakash Jadhav	30	17	27	74	Seventy four	A
4	Bhakti Panditrao Fating	29	16	24	69	Fifty Two	B
5	Divya Rishi Mohane	34	18	26	78	Seventy eight	A
6	Karishma Chandrakumar Patle	28	14	24	66	Sixty six	B
7	Lina Damodhar Bawane	39	16	27	82	Eight two	A
8	Madhuri Rajkumar Satule	24	18	26	68	Sixty Eight	A
9	Mahevish Israil Sheikh	36	12	29	75	Seventy five	A
10	Manjiri Shrikant Paturkar	48	18	27	93	Ninety three	A
11	Manshi Dinesh Pedulwar	36	20	26	82	Eighty two	A
12	Nandini Gopal Jangade	39	18	28	85	Eighty five	A
13	Neha Rajesh Vishwakaram	43	17	24	84	Eighty four	A
14	Neha Sanjay Katkade	42	18	28	88	Eighty eight	A
15	Nikki Ashokkumar SHahu	46	19	24	89	Eighty nine	A
16	Prachi Ramchandra Bante	44	18	20	82	Eighty two	A
17	Pratiksha Vikas Pantawane	38	19	26	83	Eighty three	A



Off. *Asst. Director*
Sevadal Mahila Mahavidyalaya
Nagpur.

18	Reshma Salim Sheikh	36	20	27	83	Eighty three	A
19	Sakshi Chandrakant Dhawangale	49	20	26	95	Eighty nine	A
20	Sakshi Sanjay Shingade	44	16	25	85	Eighty Five	A
21	Samiksha Pandurang Buradkar	41	14	25	80	Eighty	A



(Dr R R Nagpure)
Course Co-ordinator



Nawble
(Prof. N. S. Dhoble)
Principal
Sevadal Mahila Mahavidyalaya,
Nagpur

Off. Principal
Sevadal Mahila Mahavidyalaya
Nagpur.



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Place for Higher Learning and

Research (Research Academy)

Sakkardara Square, Umrer Road, Nagpur-440024

Certificate of Completion

This certificate is awarded to

Ms. Aachal M. Kodwate

she has successfully completed the Certificate Course in

"Maintenance of Home Appliances (Washing Machine & Electric Press"

conducted by the Department of Physics.

Date : 30/04/2024



Dr. R. R. Nagpure
Course Coordinator

Prof. (Mrs.) Nirupama S. Dhoble
Off. Principal

Sevalal Mahila Mahavidyalaya, Nagpur

N.S. Dhoble
Off. Principal
Sevalal Mahila Mahavidyalaya
Nagpur.