

Department of physics

2019-2020

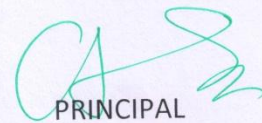
Value added courses

REPAIR AND MAINTENANCE OF ELECTRICAL HOME APPLIANCES

NOTICE

Dt. 21st June 2019

This is to inform to all the III B.Sc., physics students that, the Department of physics will be organising a **Value Added Course on Repair and Maintenance of Electrical Home Appliances** from 08th July 2019 to 18th August 2019 (6 weeks). Those who are interested are here by informed to Dr.P.Paul Divakar the HOD of Physics immediately.


PRINCIPAL

SYLLABUS

1. Fundamentals of Electricity

Introduction, Electron theory, IS Definitions – Units and System of Measurements, Symbols for Quantities and units, Effect of Electric Current, Conductors, Insulator Materials, Wires and Cables, Measurement of Size of cables. Types of wire Joints and uses, I.S Definitions Electro kinetics, Soldering, Brazing, Ohm's Law, Laws of Resistance, Series, Parallel and Combination Circuits Resistance and Specific Resistance. Effect of variation of Temperature and Methods of Measuring the values of Resistance, Heating effect of Electric current.

2. Safety Precautions

Occupational Safety and Health, Safety Precautions. For Mouth to Nose Resuscitation, Hazard Identification and Avoidance, Causes of Accidents, Signs and Notices, Types of Fire Extinguishers and their uses, Various safety measures involved to the industry, Tools

3. House wiring – I

Some Indian Electricity Rules, Electric supply system in Electrical Institutions, Three-phase four wire Distribution system, Wiring Accessories and wires, specifications, Development of Domestic Circuits, Miniature Circuit Breaker(MCB).

4. A.C. Circuits, Single phase and Polyphase

Comparison and advantages of D.C and A.C Circuit Containing Capacitance only, power consumption. Active and Reactive components-Measurement of power, Three phase circuits. Earthing-Importance of Earthing, Plate Earthing, Pipe Earthing, ISI Guidelines for Earthing.

5. Transformer

Working Principle of Transformers, E.M.F Equation of Transformer, Cooling of transformers Auto-transformer, current Transformer(CT), Losses and Efficiency, Parallel operations of 3-phase Transformers, Conversion from A.C to D.C, Comparison, Electrolytic Rectifiers

6. Synchronous Motor

Working Principle, Effect of Change of Excitation and Load, V-Curves and Anti V Curves, Power factor correction of Synchronous Motor.

7. Electrical Appliances

Electricity in Home, Motor- Fans, drier Mixer & Grinder Washing Machine, air-cooler, air-conditioner Electric Iron, Electric Cooker, Electric Kettle, Table Heater, Gaesser, Bell and Buzzer, Electric Mixer(MIXY), Semi-Automatic washing machine.

VAC/19-20/01		I	II	III
1.	K. Bhanu Prakash	7	7	11
VAC/19-20/02	2. G. Siva chaitanya	9	9	16
VAC/19-20/03	3. A. Sai Vamsi	5	10	20
VAC/19-20/04	4. A. Dharma Teja	6	8	20
VAC/19-20/05	5. K. Manikanta	7	8	15
VAC/19-20/06	6. K. Durga Rao	8	8	20
VAC/19-20/07	7. P. Vamsi Krishna.	7	7	15
VAC/19-20/08	8. M. Poorna Chandu.	5	9	14
VAC/19-20/09	9. M. Siva Naga Raju.	9	9	19
VAC/19-20/10	10. S. Ramudu.	10	10	20
VAC/19-20/11	11. D. Pavan Kumar	6	10	20
VAC/19-20/12	12. G. Satyanarayana Murthy	10	9	13
VAC/19-20/13	13. V. Naga Raju Manikanta	6	8	08
VAC/19-20/14	14. K. Chinna	8	10	18
VAC/19-20/15	15. N. Jagadish	3	6	07
VAC/19-20/16	16. N. Jagadeesh	6	8	17
VAC/19-20/17	17. N. Pavan Kumar	7	6	20
VAC/19-20/18	18. M. Tameen Aman	7	6	15
VAC/19-20/19	19. K. Siva Kumar	7	7	14
VAC/19-20/20	20. M. Vital Nunna	6	5	12
VAC/19-20/21	21. B.M.N. Sai Sesi Kumar	10	8	20
VAC/19-20/22	22. G. Babi	10	9	16
VAC/19-20/23	23. T. Ramya Sree	7	10	14
VAC/19-20/24	24. B. Venkata Nagasai	7	10	10
VAC/19-20/25	25. M. Bhanu Prasad	7	9	19
VAC/19-20/26	26. P. Vamsi	7	8	15
VAC/19-20/27	27. K.N.V.M Sandeep	3	10	11

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				Th	F	Sa	S	M	T	W	Th	F	Sa	S	M	T	W	Th	F	Sa	
VAC/19-20/01	1.	K. Bhanu Prakash		X	X	X				X	X	X	X					X	X		
VAC/19-20/02	2.	G. Siva chaitanya		X	X	X				X	X	X	X					X	X		
VAC/19-20/03	3.	A. Sai Vamsi		X	X	X				X	X	X	X					X	X		
VAC/19-20/04	4.	A. Dharma Teja		A	X	X				X	X	X	X					X	X		
VAC/19-20/05	5.	K. Manikanta		X	X	X				X	X	X	X					X	X		
VAC/19-20/06	6.	K. Durga Rao		X	X	X				X	X	X	X					X	X		
VAC/19-20/07	7.	P. Vamsi Krishna		X	X	X				X	X	X	X					X	X		
VAC/19-20/08	8.	M. Poorna Chandu		X	X	X				X	X	X	X					X	X		
VAC/19-20/09	9.	M. Siva Naga Raju		X	X	X				X	X	X	X					X	X		
VAC/19-20/10	10.	S. Ramudu		X	X	X				X	X	X	X					X	X		
VAC/19-20/11	11.	D. Pavan kumar		X	A	X				X	X	X	X					X	X		
VAC/19-20/12	12.	G. Satyanarayana Murthy		X	X	X				X	X	X	A					X	X		
VAC/19-20/13	13.	Y. Naga Raju Manikanta		X	X	X				X	X	X	X					X	X		
VAC/19-20/14	14.	K. Chinna		X	X	X				X	X	X	X					X	X		
VAC/19-20/15	15.	N. Jagadeesh		X	X	X				X	X	A	X					X	X		
VAC/19-20/16	16.	N. Jagadeesh		X	X	X				X	X	X	X					X	X		
VAC/19-20/17	17.	N. Pavan kumar		X	X	X				X	X	X	X					X	X		
VAC/19-20/18	18.	M. Tameen Annan		X	X	X				X	X	X	X					X	X		
VAC/19-20/19	19.	K. Siva kumar		X	X	A				X	X	X	X					X	X		
VAC/19-20/20	20.	M. Vital Nunna		X	X	X				A	X	X	X					X	X		
VAC/19-20/21	21.	B.M.N.Sai sesu kumar		X	X	X				X	X	X	X					X	X		
VAC/19-20/22	22.	G. Babi		X	X	X				X	X	X	X					X	X		
VAC/19-20/23	23.	T. Rameya Sree		X	X	X				X	X	X	X					X	X		
VAC/19-20/24	24.	B. Venkata Naga Sai		X	X	X				X	X	X	X					X	X		
VAC/19-20/25	25.	M. Bhanu prasad		X	X	X				X	X	X	X					X	X		
VAC/19-20/26	26.	P.Vamsi		X	X	X				X	A	X	X					X	X		
VAC/19-20/27	27.	K. N.V.M. Sandeep		X	X	X				X	X	X	X					X	X		
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SIR C R REDDY COLLEGE

(AIDED & AUTONOMOUS)

ELURU, W.G.DT

Affiliated to Adikavi Nannaya University, Rajamahendravaram

(Thrice accredited at level-A by NAAC, Bengaluru & College with Potential for Excellence)

An ISO-9001: 2015 Certified Institution

CERTIFICATE

VALUE ADDED COURSE ON

Repair and Maintenance of Electrical Home Appliances

Organized by

DEPARTMENT OF PHYSICS

This is to certify that Mr. _____

Class _____ Roll NO: _____ of Sir C R Reddy

Autonomous College, Eluru has completed his training on

Household electrical wiring from 08th July 2019 to 18th August

2019 during the academic year 2019-2020.

Convener

Principal



VALUE ADDED COURSE BATCH 2019-2020