Velammal College of Engineering and Technology, Madurai Department of Electronics and Communication Engineering

MAINTENANCE PROCEDURE FOR LABORATORY EQUIPMENTS

- > Periodical Maintenance is followed in our Department laboratories
- Maintenance Register is available in each laboratories, in which the equipments maintenance / service details are furnished as per the procedure shown below:

PERIODICAL MAINTENACE

(Based on the utilization of Laboratory equipments, equipmentwise maintenance periodicity is fixed such as weekly / monthly / semester)

MAINTENANCE PROCEDURE

(Preparation of steps to be followed during maintenance - Equipmentwise)

MAINTENANCE SCHEDULE

(In the Lab Time-Table apart from Laboratory sessions, 2 sessions per week are allocated for Equipment Maintenance)

SERVICE APPROVAL (A detailed service request

YES

(A detailed service request is submitted with estimated cost Management the approval through HOD and Principal; On receipt of approval, the external resources concerned are requested to do the service attempts)

NO

Maintenance: Whether

any defective equipment

needs service attempt by

external resources?

SERVICE ATTEMPT

(Defective equipments are serviced by our Department Technical staff)

RECORD OF MAINTENANCE

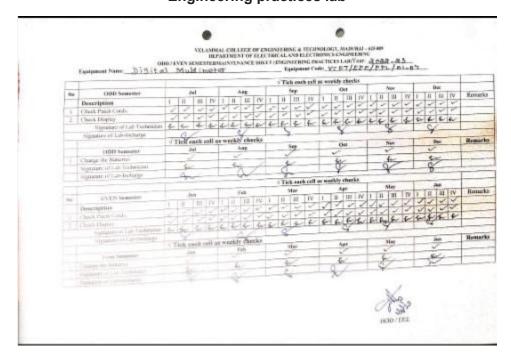
(As per the allocated session, the details of equipments maintenance / service are recorded in the Maintenance Register)

HOD VERIFICATION

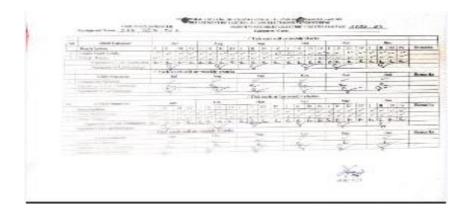
(At the end of every academic year, the Maintenance Register is verified by Head of the Department)

Velammal College of Engineering and Technology, Madurai – 9 (Autonomous)

Department of Electrical and Electronics Engineering Engineering practices lab



Electric Circuits lab



Power system simulation lab

VELAMMAL COLLEGE OF ENGINEERING & TECHNOLOGY, MADURAI – 625 009 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING MAINTENANCE SHEET (Simulation Lab - Computer) EVEN SEMESTER (2022-2023)

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2	Empty Recycle Bin	V	1	1	V	V	V	1	V	1	1	1	1	V	1.7	17	17	1	1	11	1	V	11	1/	17	
3	Delete .tmp files	V	V	V	V	V	1	1	V	1	1.7	1	1	1	1	1	17	17	1	1	1	V	V	1	V	
4	Clean browser history / internet temporary files	V	1	V	1	1	1	1	1	V	V,	1	1	1	V	V	1	V	V	1	1	V	V	V	V	
5	Scan for virus and spyware	V	V	V	1	V	1	V	V	1	1	1	1	V	1	V	V	1	1	1	V	V	1	1		
6	Check the connections	V	1	V	V	V	V	1	1	1	1	1	1	V	V	1	/	V	11	1	V	V	1/	17	1	
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8	Updated Windows / installed software	V	1	1	1	V	V	V	V	V	1	V	1	V	V	1	1	./	/	/	1	1/	1	1	1	
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Electrical Machines lab

VELAMMAL DELLEGE OF ENGINEERING & TECHNOLOGY, MA URAI - 625 009 (AUTONOMOUS) DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING ODD / EVEN SEMESTER MAINTENANCE SHEET (ELECTRIAL MACHINES LABORATORY) Year: 2022-23 Equipment Name: SP97 ng balance load & Belt. Equipment Code: VCFT/EFF/ELM/SE √Tick each cell as Weekly checks Description Mar. / Sep. Apr. / Oct. May. / Nov. No 1 II III IV III IV I II III IV Checking of work place cleanliness Checking of Electrical Power cords / Plugs / Terminals Insulation Checking / Earth 3. Checking Checking of Noise / Vibration / 4. Checking of indication lamp Checking of ON / OFF switches / Trip Circuits / Fuses Checking of Electrical and Mechanical Loads Checking of moving parts / Carbon brushes Checking of physical damages Verification of overall 10. functioning Signature of the Lab Instructor Signature of the Lab In charge

Renewable energy lab

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Power Electronics lab

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Control and Instrumentation lab

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LIC lab

VELAMMAL COLLEGE OF ENGINEERING & TECHNOLOGY, MADURAL - 025 009 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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EVEN SEMESTER

PREVENTIVE MAINTENANCE LIST (THERMAL LABORATORY-I)

3

Year: 22-2

Equipment/Machine Name: Single cylinder Four Stroke Diesel Engine with Electrical loading

Remarks 2 Dec. June H Dec Nov: May 2 Nov. May Ш √ Tick each cell as weekly checks > Ξ Wick each cell as monthly checks Oet. APJ. 2 Oct. My Ш H 2 Sep. Mesl. Sep. MASI Ш II Aug. Feb. 2 Aug. 10(9. Ξ I \geq III Jal Jak Ξ and that no slip -hazards are Verify the lubricating oil level, fuel level and water level, Battery fasteners and / or Switches, Wiring and /or Conduit controls etc.)Arrange for immediate repair condition of Personal Protective secure function correctly (Check latches, and Lab Technician's Sign ways are clear and unobstructed Ensure workspaces and walk-Visual check of mains Electrical Lab-in charge Sign. Conduct close inspection for all 2 Check availability of specific tools for this machine. (Spanners Lab Technician's Sign Lab-in charge Sign. Lubricate lightly according Verify all guards are availability manufactures specification Description Check floor space for oil broken of any faults. contamination interlocks). Equipment (Cracks, checking. Confirm Engines. present. locks, etc.) SLNo ä 7 S. ri Ü

PREVENTIVE MAINTENANCE LIST (THERMAL LABORATORY-I)

EVEN SEMIESTER

23

Year: 22-

Equipment/Machine Name: Single cylinder Four Stroke Diesel Engine with Hydraulic loading

Remarks 2 June. June. Ξ 2 May. H May. √ Tick each cell as weekly checks Η Tick each cell as monthly checks > 2 Ш Apr. П 2 H Mar. Mar. > 7 \geq H Feb. Feb. Ξ 2 H Jan. Jan. 8 and that no slip -hazards are fuel level and water level, Battery function correctly (Check latches, Switches, Wiring and /or Conduit etc.)Arrange for immediate repair condition of Personal Protective Verify all guards are secure and / or controls and ways are clear and unobstructed Verify the lubricating oil level, Visual check of mains Electrical Ensure workspaces and walk-Lab Technician's Sign Lab-in charge Sign. Conduct close inspection for all 2 Check availability of specific tools for this nachine. (Spanners Lab Technician's Sign Lab-in charge Sign. Lubricate lightly according availability manufactures specification Description broken Check floor space for oil fasteners of any faults. interlocks). Equipment contamination checking. (Cracks, Confirm locks, Engines. present. (0) SI.No ri 4 ci S. -2 3 4

EVEN SEMESTER

PREVENTIVE MAINTENANCE LIST (THERMAL LABORATORY-I)

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Year: 22-2

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PREVENTIVE MAINTENANCE LIST (THERMAL LABORATORY-I)

23

42

Year:

Equipment/Machine Name: Multi Cylinder Petrol Engine

EVEN SEMESTER

Remarks 2 Ш June. June. I \geq > May. H May. √ Tick each cell as weekly checks Tick each cell as monthly checks \geq Ш Apr. П \geq Ξ Mar. Ξ 2 Ξ Feb. Feb. II 2 III Jan. Jan. Ξ and that no slip -hazards are ways are clear and unobstructed Verify the lubricating oil level, fuel level and water level, Battery Verify all guards are secure function correctly (Check latches, Ensure workspaces and walko Confirm availability and condition of Personal Protective Switches, Wiring and /or Conduit controls etc.)Arrange for immediate repair Visual check of mains Electrical Lab Technician's Sign Lab-in charge Sign. Conduct close inspection for all Engines. 5 Check availability of specific tools for this machine. (Spanners Lab Technician's Sign Lab-in charge Sign. Lubricate lightly according fasteners and manufactures specification Description broken Check floor space for oil of any faults. interlocks). contamination checking. (Cracks, locks, etc.) SI.No ri 3 4 5. 1 ë 4.

PREVENTIVE MAINTENANCE LIST (THERMAL LABORATORY-I)

Year: 22-23

Equipment/Machine Name: Single Cylinder Petrol Engine

EVEN SEMESTER

Remarks 2 June. Ш June. Ξ 2 May. May. H √ Tick each cell as weekly checks II Tick each cell as monthly checks 2 Ξ Apr. П \geq 7 2 > H Mar. Mar. H \geq H Feb. Feb. T B 2 H Jan. Jan. F = Confirm availability and condition of Personal Protective controls fasteners and / or etc.)Arrange for immediate repair and that no slip -hazards are Verify the lubricating oil level, fuel level and water level, Battery Switches, Wiring and /or Conduit Lab Technician's Sign function correctly (Check latches, secure Visual check of mains Electrical Lab-in charge Sign. Conduct close inspection for all \$ ways are clear and unobstructed Ensure workspaces and walkspecific tools for this machine. (Spanners Lab-in charge Sign. Lab Technician's Sign according Verify all guards are manufactures specification Check availability of Check floor space for oil Description broken Lubricate lightly of any faults. contamination interlocks). Equipment checking. (Cracks, Engines. present. locks, etc.) SI.No 3 4 S 4 - \sim i n 4.

EVEN SEMESTER

PREVENTIVE MAINTENANCE LIST (THERMAL LABORATORY-I)

Year: 22-23

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