

UNIT V CHASSIS AND SAFETY SYSTEMS**10**

Traction control system – Cruise control system – electronic control of automatic transmission – antilock braking system – electronic suspension system – working of airbag and role of MEMS in airbag systems – centralized door locking system – climate control of cars.

TOTAL : 45 PERIODS**OUTCOMES:**

After successful completion of this course, the students should be able to

CO1: Know the importance of emission standards in automobiles.

CO2: Understand the electronic fuel injection/ignition components and their function.

CO3: Choose and use sensors and equipment for measuring mechanical quantities, temperature and appropriate actuators.

CO4: Diagnose electronic engine control systems problems with appropriate diagnostic tools.

CO5: Analyses the chassis and vehicle safety system.

TEXT BOOK:

1. Ribbens, "Understanding Automotive Electronics", 8th Edition, Elsevier, Indian Reprint, 2013

REFERENCES

1. Barry Hollembeak, "Automotive Electricity, Electronics & Computer Controls", Delmar Publishers, 2001.
2. Richard K. Dupuy "Fuel System and Emission controls", Check Chart Publication, 2000.
3. Ronald. K. Jurgon, "Automotive Electronics Handbook", McGraw-Hill, 1999.
4. Tom Denton, "Automobile Electrical and Electronics Systems", Edward Arnold Publishers, 2000.

MT8811**PROJECT WORK**

L	T	P	C
0	0	20	10

OBJECTIVES:

- To develop knowledge to formulate a real world problem and project's goals.
- To identify the various tasks of the project to determine standard procedures.
- To identify and learn new tools, algorithms and techniques.
- To understand the various procedures for validation of the product and analysis the cost effectiveness.
- To understand the guideline to Prepare report for oral demonstrations.

Students in the form of group, not exceeding 3 members in a group to carry out their main project. It should be a Mechatronics project. However, special considerations can be given for interdisciplinary measurement and computer based simulation projects. This exception should be recorded and approved by the department committee. Management related projects will not be allowed. The interdisciplinary projects will carry more weight age. It is mandatory to publish their main project in national/international level conferences to appear in the viva-voce exam.

TOTAL: 300 PERIODS**OUTCOMES:**

After successful completion of this course, the students should be able to

CO1: Design, analyze, realize / simulate a physical system by using the technology they learnt during the program.

CO2: Integrate various systems into one Mechatronics product.

CO3: Work in a team with confined time duration.

CO4: Disseminate his work both in oral and written format.

END SEMESTER EXAMINATIONS UG PROJECT VIVA VOCE SCHEDULE -MAY 2022

Degree & Branch: BE Mechatronics Engineering

Year & Semester: IV/VIII

Subject code & Name: MT8811 Project Work

Date & Session: 16-05-2022 FN & AN (9.00am -03.45PM)

Sl. No.	Batch No.	Register Number	Roll. No	Name	Time
1	4801	920418115016	18UMTR001	PRINCE YONAR.L.C	9.00-9.20 AM
		920418115027	18UMTR026	SIVA.P	
2	4802	920418115018	18UMTR011	RAHINI.G	9.20-9.40 AM
		920418115023	18UMTR012	ROHINI.G	
3	4803	920418115028	18UMTR005	SIVAKUMAR.T	9.40-10.00 AM
		920418115020	18UMTR007	RAMESH PANDIAN A	
4	4804	920418115008	18UMTR029	GOKUL SARAVANAN.R	10.00-10.20 AM
		920418115007	18UMTR030	DIYANESH.D	
		920418115010	18UMTR035	JAYA SURYA.G	
5	4805	920418115022	18UMTR006	ROHIND.A.K	10.20-10.40 AM
		920418115013	18UMTR009	MARIKANNAN.A	
		920418115032	18UMTR010	TAMILSELVAN.V	
6	4806	920418115002	18UMTR023	ANAND.L	10.40-11.00 AM
		920418115024	18UMTR008	SANTHOSH.P	
		920418115005	18UMTR004	DHANASEKARAN.V	
7	4807	920418115025	18UMTR022	SARAVANAKUMAR.P	11.20-11.40 AM
		920418115029	18UMTR025	SIVARAJ.R	
		920418115011	18UMTR033	JOY SEBASTIN.S	
8	4808	920418115012	18UMTR003	KARTHICKRAJ.M	11.40-12.00 PM
		920418115501	17UMTR039	ALDRIN JERO PAUL.A	
		920418115035	18UMTR032	VISHNU KUMAR.P	
9	4809	920418115003	18UMTR002	ARULMUTHURAM.H	12.00-12.20 PM
		920418115033	18UMTR015	THANGA MANIKANDAN.M	
		920418115009	18UMTR020	HARSHINI.T	
10	4810	920418115006	18UMTR016	DHINESH KUMAR.M	12.20-12.40 PM
		920418115015	18UMTR021	NAGARAJESH.P	
		920418115021	18UMTR024	RISHIKESH R	
11	4811	920418115001	18UMTR019	ABISHEK SAM RAJJ	01.30-01.50 PM
		920418115004	18UMTR028	CHANDRU.M	
		920418115031	18UMTR013	SYLESH KARTHIK.M	
12	4812	920418115014	18UMTR014	MOHAMMED AFRID.S	01.50-02.10 PM
		920418115036	18UMTR034	VISHNU PRASATH.M.S	


Internal Examiner


External Examiner

Sem - 8 Project 2018 - 2022 Batch.

**ABNORMAL OCCURRENCE IMPARTING
DEVICE FOR INDUSTRIES**

PROJECT REPORT

Submitted by

PRINCE YONA RLC (920418115016)

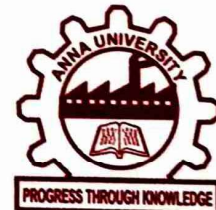
SIVA P (920418115027)

In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

IN

MECHATRONICS ENGINEERING



**DEPARTMENT OF MECHATRONICS ENGINEERING
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MAY 2022

KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY
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BONAFIDE CERTIFICATE

Certified that the project report "ABNORMAL OCCURRENCE IMPARTING DEVICE FOR INDUSTRIES" is the bonafide work of "PRINCE YONA RLC (920418115016) & SIVA P (920418115027)" who carried out the project work under my supervision.



SIGNATURE

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Assistant Professor

Department of Mechatronics Engineering

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Submitted for the Viva Voce Examination held on 16/05/22



INTERNAL EXAMINER



EXTERNAL EXAMINER



TAMILNADU GENERATION AND DISTRIBUTION CORPORATION LTD

PASUMALAI, MADURAI-625004

Certify that Selvan **PRINCE YONA RLC** has successfully completed his project work from 01.03.2022 to 30.04.2022 at MRT Division/Pasumalai and gained knowledge about non-grid substation equipments and done a project titled “**Abnormal Occurrence Imparting Device**” and also done an additional module “**Solid State Earth Fault Sensor**” based on the knowledge he attained here. During his period, his conduct and character was found to be

Very Good

Date: 30.04.2022


E.P.Saravanan

Assistant Executive Engineer
Meter & Relay Test/ Pasumalai



TAMILNADU GENERATION AND DISTRIBUTION CORPORATION LTD

PASUMALAI, MADURAI-625004

Certify that Selvan SIVA P has successfully completed his project work from 01.03.2022 to 30.04.2022 at MRT Division/Pasumalai and gained knowledge about non-grid substation equipments and done a project titled "Abnormal Occurrence Imparting Device" and also done an additional module "Solid State Earth Fault Sensor" based on the knowledge he attained here. During his period, his conduct and character was found to be

Very Good

Date: 30.04.2022


30/4/22
E.P. Saravanan

Assistant Executive Engineer
Meter & Relay Test/ Pasumalai

CHILD RESUE SYSTEM FROM OPEN BOREWELLS

PROJECT REPORT

Submitted by

RAHINI.G (920418115018)

ROHINI.G (920418115023)

In partial fulfillment for the award of the degree of

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Certified that the project report “CHILD RESCUE SYSTEM FROM OPEN BOREWELLS” is the bonafide work of “RAHINI.G (920418115018) & ROHINI.G (920418115023)” who carried out the project work under my supervision.



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INTERNAL EXAMINER



EXTERNAL EXAMINER

SOLAR PANEL CLEANING ROBOT

PROJECT REPORT

Submitted by

RAMESH PANDIAN. A (920418115020)

SIVAKUMAR. T (920418115028)

in partial fulfilment for the award of the degree of

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BONAFIDE CERTIFICATE

Certified that this project report "**SOLAR PANEL CLEANING ROBOT**" is the bonafide work of "**RAMESH PANDIAN. A (920417115020) & SIVAKUMAR. T (920418115028)**" who carried out the project work under my supervision.



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INTERNAL EXAMINER



EXTERNAL EXAMINER

MULTIFUNCTIONAL GROCERIES PACKING MACHINE

PROJECT REPORT

Submitted by

D. DIYANESH (920418115007)

R. GOKUL SARAVANAN (920418115008)

G. JAYA SURYA (920418115010)

In partial fulfillment for the award of the degree of

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BONAFIDE CERTIFICATE

Certified that the project report "MULTIFUNCTIONAL GROCERIES PACKING MACHINE" is the bonafide work of "D.DIYANESH (920418115007) & R.GOKUL SARAVANAN (920418115008) & G.JAYA SURYA (920418115010)" who carried out the project work under my supervision.



SIGNATURE

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The project report submitted for the viva voce held on...16/05/22.....



INTERNAL EXAMINER



EXTERNAL EXAMINER

INDUSTRY PROJECT COMPLETION CERTIFICATE



RUDRA TRADERS
GST No: 33ABDFR8330G1ZC

Date : 30-04-2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **DIYANESH.D, GOKUL SARAVANAN.R , JAYA SURYA.G** of final year B.E Mechatronics Engineering from Kamaraj College of Engineering and Technology, Madurai has successfully completed his project on "**Multifunctional Groceries Packing Machine**".

For **RUDRA TRADERS,**

S. Ganga Devi

S.GANGA DEVI

Managing Director

22, Thendral street, Ganapathy Nagar, Vilangudi, Madurai 625018

Contact no : +91 9791672766

rudratraders056@gmail.com

VOICE CONTROLLED ROBOTIC FURNITURE FOR GERIATIC CARE

PROJECT REPORT

Submitted by

MARI KANNAN A (920418115013)

ROHIND A.K (920418115022)

TAMIL SELVAN V (920418115033)

In partial fulfillment for the award of the degree

of

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IN
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MAY 2022

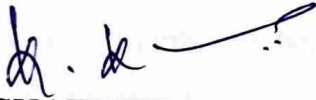
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BONAFIDE CERTIFICATE

Certified that the project report “**VOICE CONTROLLED ROBOTIC FURNITURE FOR GERIATIC CARE**” is the bonafide work of “**MARIKANNAN A (920418115013), ROHIND A.K (920418115022), TAMIL SELVAN V (920418115033)**” who carried out the project work under my supervision.



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INTERNAL EXAMINER



EXTERNAL EXAMINER

MARLION TECHNOLOGIES

PROJECT COMPLETION CERTIFICATE

THIS IS TO CERTIFY THAT

A. Mari Kannan

CARRIED OUT HIS PROJECT WORK FROM 02-01-2022 TO 10-05-2022. DURING THIS TENURE, HE GAINED EXPOSURE ON AUTOMATION AND ROBOTICS. HIS OVERALL CONDUCT WAS EXCELLENT.



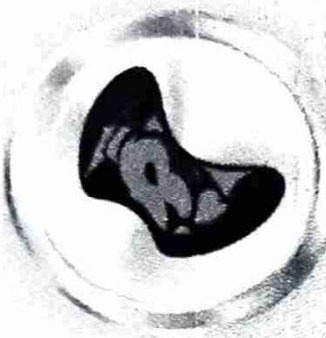
N ARUNACHALAM

Executive Director



S VAIDYANATHAN

CEO



MARLION TECHNOLOGIES

PROJECT COMPLETION CERTIFICATE

THIS IS TO CERTIFY THAT

A.k.Rohind

CARRIED OUT HIS PROJECT WORK FROM 02-01-2022 TO 10-05-2022. DURING THIS TENURE, HE GAINED EXPOSURE ON AUTOMATION AND ROBOTICS. HIS OVERALL CONDUCT WAS EXCELLENT.



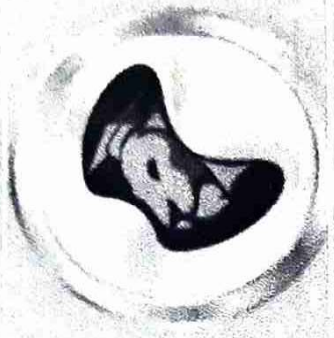
N ARUNACHALAM

Executive Director



S VAIDYANATHAN

CEO



MARLION TECHNOLOGIES

PROJECT COMPLETION CERTIFICATE

THIS IS TO CERTIFY THAT

V. Tamil Selvan

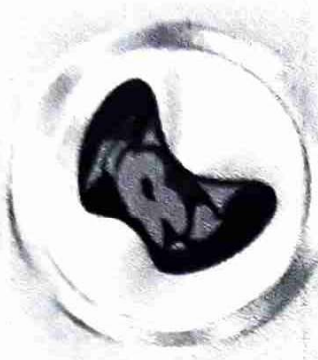
CARRIED OUT HIS PROJECT WORK FROM 02-01-2022 TO 10-05-2022. DURING THIS TENURE, HE GAINED EXPOSURE ON AUTOMATION AND ROBOTICS. HIS OVERALL CONDUCT WAS EXCELLENT.

N Arunachalam

N ARUNACHALAM
Executive Director

S Vaidyanathan

S VAIDYANATHAN
CEO



FIRE FIGHTING ROBOT

PROJECT REPORT

Submitted by

ANAND L (920418115002)

DHANASEKARAN V (920418115005)

SANTHOSH P (920418115024)

In partial fulfilment for the award of the degree

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BACHELOR OF ENGINEERING

IN

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DEPARTMENT OF MECHATRONICS ENGINEERING



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MAY 2022

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BONAFIDE CERTIFICATE

Certified that the project report “**FIRE FIGHTING ROBOT**” is the bonafide work of
“**ANAND L (920418115002) , DHANASEKARAN V(920418115005), SANTHOSH**
P (920418115024)” who carried out the project work under my supervision.



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Submitted for the Viva Voce Examination held on.....
16/5/22



INTERNAL EXAMINER



EXTERNAL EXAMINER

**DESIGN AND FABRICATION OF X-Y PLOTTER
DRAWING MACHINE**

PROJECT REPORT

Submitted by

JOY SEBASTIN S (920418115011)
SARAVANAKUMAR P (920418115025)
SIVARAJ R (920418115029)

In partial fulfillment for award of the degree of

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BONAFIDE CERTIFICATE

Certified that this project report “**DESIGN AND FABRICATION OF X-Y PLOTTER DRAWING MACHINE**” is the bonafide work of “**S. JOY SEBASTIN (920418115011), P. SARAVANAKUMAR (920418115025) & R. SIVARAJ (920418115029)**” who carried out the project work under my supervision.



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Submitted for the Viva Voce Examination held on 16.05.2022



INTERNAL EXAMINER



EXTERNAL EXAMINER

SMART HELMET USING ALCOHOL SENSOR

PROJECT REPORT

Submitted by

KARTHICKRAJ M (920418115012)

VISHNUKUMAR P (920418115035)

ALDRIN JERO PAUL A (920418115501)

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BONAFIDE CERTIFICATE

Certified that this project report "SMART HELMET WITH ALCOHOL SENSOR" is the bonafide work of "M. KARTHICK RAJ (920418115012), P. VISHNU KUMAR (920418115035), and A. ALDRIN JERO PAUL (920418115501)" who carried out the project work under my supervision.



SIGNATURE

Mr. A. GANESHAN, M.E.,

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INTERNAL EXAMINER


EXTERNAL EXAMINER

DEFECT DETECTION IN STEEL SHEET
A PROJECT REPORT

Submitted by

ARULMUTHURAM. H (920418115003)

HARSHINI. T (920418115009)

THANGAMANIKANDAN. M (920418115033)

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BONAFIDE CERTIFICATE

Certified that this project report “DEFECT DETECTION IN STEEL SHEET” is the bonafide work of “ARULMUTHURAM H (920418115003), HARSHINI T(920417115009), THANGA MANIKANDAN M (920418115033)” who carried out the project work under my supervision.



SIGNATURE

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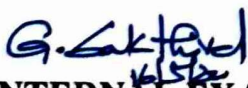
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INTERNAL EXAMINER



EXTERNAL EXAMINER

TELEPRESENCE ROVER BOT FOR SEARCH AND EXPLORATION

A PROJECT REPORT

Submitted by

DHINESH KUMAR. M (920418115006)

NAGARAJESH. P (920418115015)

RISHIKESH. B (920418115021)

In partial fulfilment for the award of the degree

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Certified that the project report "TELEPRESENCE ROVER BOT FOR SEARCH AND EXPLORATION" is the bona fide work of "DHINESH KUMAR. M (920418115006), NAGARAJESH. P (920418115015), RISHIKESH. B (920418115021)" who carried out the project work under my supervision.



SIGNATURE

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Submitted for the viva voce examination held on..16/05/2022..



INTERNAL EXAMINER



EXTERNAL EXAMINER

IoT BASED SOLAR POWERED AUTOMATIC LAWN MOWER

PROJECT REPORT

Submitted by

ABISHEK SAMRAJ J (920418115001)

CHANDRU M (920418115004)

SYLESH KARTHIK M (920418115031)

*In partial fulfillment for the award of the degree
of*

BACHELOR OF ENGINEERING

IN

MECHATRONICS ENGINEERING



**DEPARTMENT OF MECHATRONICS ENGINEERING
KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY
(An Autonomous Institution - Affiliated to Anna University, Chennai)
K. VELLAKULAM - 625 701 (Near Virudhunagar)**

MAY 2022

KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY

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BONAFIDE CERTIFICATE

Certified that this project report “IoT BASED SOLAR POWERED AUTOMATIC LAWN MOWER” is the bonafide work of “ABISHEK SAMRAJ J (920418115001) CHANDRU M (920418115004) SYLESH KARTHIK M (920418115031)” who carried out the project work under my supervision.



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INTERNAL EXAMINER



EXTERNAL EXAMINER

SEED SOWING ROBOT

PROJECT REPORT

Submitted by

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INTERNAL EXAMINER



EXTERNAL EXAMINER