



**SRI RAAJA RAAJAN COLLEGE OF ENGINEERING TECHNOLOGY,
AMARAVATHIPUTHUR KARAİKUDI-630 301
DEPARTMENT OF MECHANICAL ENGINEERING**

REPORT ON "TWO-WHEELER & FOUR-WHEELER SERVICING"

Sri Raaja Raajan college of Engineering & Technology, Amaravathi puthur was conducted a value added course on the topic of "TWO WHEELER & FOUR WHEELER_SERVICING", which was held on March 11, 2021 (Thursday). India is the largest manufacturer of two wheelers and four wheelers in the world. Many operators such as Hero Honda, TVS-Suzuki, Bajaj, Majestic Auto etc. manufacture items like scooters, mopeds and motorcycles. It is the style statement of present-day youth besides a convenient mode of transport on cheaper rates. A machine can fail anytime anywhere. So, repair of two wheelers and four wheelers is incumbent and is a big business having available demand in every nook and corner of any local. Servicing & repairing of two wheelers and four wheelers have a great potential. In developed countries, repairing of two wheelers and four wheelers is not on priority basis. Their main effort is to buy a new vehicle instead of repairing them. But in India, people with their limited income, always go for repairing of two wheelers and four wheelers. This provides a great market potential for two-wheeler repair & service units. All the IV-year Mechanical Engineering students and our faculties were attended this courser. Our resource person Mr.R.Ramasamy, Head of the Department of Mechanical Engineering, Sri Raaja Raajan college of Engineering and Technology conducted the classes about repair and maintenance of two wheelers and four wheelers . He discussed about the contents of Introduction and the major components two wheelers and four wheelers, usage of various types of automobiles, implementation of novel technologies in maintenance and servicing. By this course, our students and faculties were benefited and also they learned the fundamentals, tools, repair methods, maintenance methods about two wheelers and four wheelers.

No. of students participated: 28

No. of faculties participated: 03

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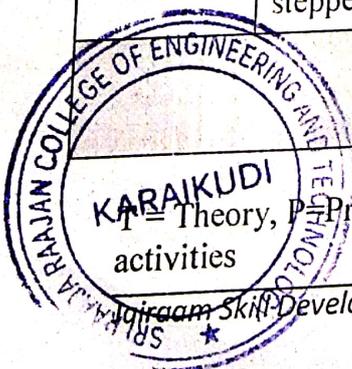
**CERTIFICATE COURSE IN TWO- WHEELER & FOUR WHEELER
SERVICING**

Course Contents – Theory

Course Code	Course Title	Theory / Practical
JSDCTFW S001- T	CONVENTIONAL AUTOMOBILES	Theory
Unit No	Modules (Theory)	T (Hrs.)
	VEHICLE STRUCTURE AND ENGINES	
I	Types of automobiles vehicle construction and different layouts, chassis, frame and body, Vehicle aerodynamics (various resistances and moments involved), IC engines –components-functions and materials, variable valve timing (VVT).	3
	ENGINE AUXILIARY SYSTEMS	
II	Electronically controlled gasoline injection system for SI engines, Electronically controlled diesel injection system - Electronic ignition system, Turbo chargers (WGT, VGT), Engine emission control by three way catalytic converter system, Emission norms (Euro and BS).	3
	TRANSMISSION SYSTEMS	
III	Clutch-types and construction, gear boxes- manual and automatic, gear shift mechanisms, Over drive, transfer box, fluid flywheel, torque converter, propeller shaft, slip joints, universal joints, Differential and rear axle, Hotchkiss Drive and Torque Tube Drive.	3
	STEERING, BRAKES AND SUSPENSION SYSTEMS	
IV	Steering geometry and types of steering gear box-Power Steering, Types of Front Axle, Types of Suspension Systems, Pneumatic and Hydraulic Braking Systems, Antilock Braking System (ABS), electronic brake force distribution (EBD) and Traction Control	3
	ALTERNATIVE ENERGY SOURCES	
V	Use of Natural Gas, Liquefied Petroleum Gas, Bio-diesel, Bio-ethanol, Gasohol and Hydrogen in Automobiles- Engine modifications required –Performance, Combustion and Emission Characteristics of SI and CI engines with these alternate fuels - Electric and Hybrid Vehicles, Fuel Cell	3
	Total	15 Hrs



Course Code	Course Title	Theory / Practical
JSDCTF WS002- T	AUTOMOTIVE ELECTRONICS	Theory
Unit No	Modules (Theory)	T (Hrs.)
I	BATTERIES AND ACCESSORIES Principle and construction of lead acid battery, characteristics of battery, rating capacity and efficiency of batteries, various tests on batteries, maintenance and charging. Lighting system: insulated and earth return system, details of head light and side light, LED lighting system, head light dazzling and preventive methods – Horn, wiper system and trafficator.	3
II	STARTING SYSTEM Condition at starting, behavior of starter during starting, series motor and its characteristics, principle and construction of starter motor, working of different starter drive units, care and maintenances of starter motor, starter switches.	3
III	CHARGING SYSTEM Generation of direct current, shunt generator characteristics, armature reaction, third brush regulation, cutout. Voltage and current regulators, compensated voltage regulator, alternators principle and constructional aspects and bridge rectifiers, new developments.	3
IV	FUNDAMENTALS OF AUTOMOTIVE ELECTRONICS Current trends in automotive electronic engine management system, electro magnetic interference suppression, electromagnetic compatibility, electronic dashboard instruments, onboard diagnostic system, security and warning system	3
V	SENSORS AND ACTIVATORS Types of sensors: sensor for speed, throttle position, exhaust oxygen level, manifold pressure, crankshaft position, coolant temperature, exhaust temperature, air mass flow for engine application. Solenoids, stepper motors, relay.	3
Total		15 Hrs

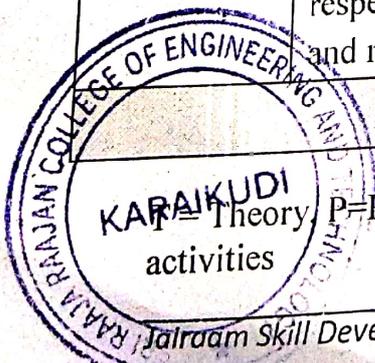


T = Theory, P = Practical, H = hands on training / Aptitude / Project work / task oriented

Sri Ramakrishna Mission Skill Development Centre

**CERTIFICATE COURSE IN TWO- WHEELER & FOUR WHEELER
SERVICING
Course Contents – Practical**

Course Code	Course Title	Theory / Practical
JSDCTFW S001 - P	AUTOMOBILE SERVICING & MAINTENANCE	Practical
Unit No	Modules (Theory)	P (Hrs.)
I	AUTOMOTIVE COMPONENTS study of Multi-cylinder Petrol Engine -- Dismantling and Assembling - Study of petrol engine fuel system - Study of diesel engine fuel system - Study, dismantling and assembling of front and rear Axles - Study, dismantling and assembling of Clutch - Study, dismantling and assembling of Gear Box - Study of steering system	10
II	AUTOMOTIVE ELECTRICAL AND ELECTRONICS Testing of batteries and battery maintenance -. Testing of starting motors and generators - Testing of regulators and cut – outs -. Diagnosis of ignition system faults - Study of Automobile electrical wiring - Fault Diagnosis of various sensors	10
III	AUTOMOTIVE FUELS AND LUBRICANTS Study of International and National standards for fuels and lubricants.- Flash and Fire points of petrol and diesel.- Cloud & Pour point Test. - Temperature dependence of viscosity of lubricants & Fuels by Redwood Viscometer. - Viscosity Index of lubricants & Fuels by Saybolt Viscometer	10
IV	ENGINE PERFORMANCE AND EMISSION TESTING Study of hydraulic, electrical and eddy current dynamometers -. Valve timing and port timing diagrams - Performance and emission test on two wheeler SI engine -. Performance and emission test on automotive multi-cylinder SI engine - Engine cylinder pressure measurement P-θ and P-V diagrams for IC engine	10
V	VEHICLE MAINTENANCE Tools and instruments required for maintenance - Safety aspects with respect to man, machine and tools - General procedures for servicing and maintenance schedule - Wheel Alignment procedure	10
Total		50 Hrs



Jalraam Skill Development Centre

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AMARAVATHIPUTHUR KARAIKUDI-630 301
DEPARTMENT OF MECHANICAL ENGINEERING**



**PARTICIPANT LIST
"TWO-WHEELER AND FOUR-WHEELER SERVICING"**

REGISTERED STUDENTS LIST			
S.NO	REG. NO	NAME	Signature
1	912517114002	AJITH KUMAR P	Ajith Kumar. P.
2	912517114007	ARUN BARATH B	Arun Barath. B.
3	912517114008	ARUNKUMAR D	Arun Kumar. D.
4	912517114009	ASHOK P	A Shok. P
5	912517114012	BABU C	C Babu
6	912517114013	BALACHANDER S	Balachander. S.
7	912517114017	DAISON VIMALRAJ A	Daison Vimalraj. A.
8	912517114021	DINESH P	Dinesh. P
9	912517114030	JEGATHEESWARI S	Jegatheeswari. S.
10	912517114031	JEGATHISHWARAN S	Jegathishwaran. S.
11	912517114037	KARTHIK P	Karthik. P
12	912517114038	KARTHIKEYAN K	Karthikeyan. K
13	912517114047	MANIMARAN D	Manimaran. D
14	912517114053	NAVEEN A	Naveen. A
15	912517114063	RAKESH R	Rakesh. R
16	912517114064	RANJITH S	Ranjith. S.
17	912517114069	SANTHOSH R	Santhosh. R
18	912517114070	SANTHOSHKUMAR K	Santhosh Kumar. K
19	912517114075	SENTHILVELRAJAN K	Senhilvelrajan. K
20	912517114080	SIVABALAN P	Sivabalan. P
21	912517114082	SURESH S	Suresh. S.
22	912517114085	THIRUMURUGAN S	Thirumurugan. S.
23	912517114091	VIGNESWARAN K	Vigneeswaran. K.
24	912517114093	VIMAL RAJ M	Vimal Raj. M.
25	912517114094	VINITHKUMAR T	Vinith Kumar. T.
26	912517114098	YUVARAJ V	Yuvaraj. V.
27	912517114301	ARUNAAKANTH S	Arunakanth. S.
28	912517114307	NAVEEN KUMARAN PL	Naveen Kumar. P.L.

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**SRI RAAJA RAAJAN COLLEGE OF ENGINEERING TECHNOLOGY,
AMARAVATHIPUTHUR KARAIKUDI-630 301
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**ATTENDANCE REPORT
"TWO-WHEELER AND FOUR-WHEELER SERVICING"**

17-03-2021

18-03-2021

19-03-2021

S.NO	REG. NO	NAME	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61
1	912517114002	AJITH KUMAR P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	912517114007	ARUN BARATH B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	912517114008	ARUNKUMAR D	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	912517114009	ASHOK P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	912517114012	BABU C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	912517114013	BALACHANDER S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	912517114017	DAISON VIMALRAJ A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	912517114021	DINESH P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	912517114030	JEGATHEESWARI S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	912517114031	JEGATHISHWARAN S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	912517114037	KARTHIK P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	912517114038	KARTHIKEYAN K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13	912517114047	MANIMARAN D	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14	912517114053	NAVEEN A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15	912517114063	RAKESH R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16	912517114064	RANJITH S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17	912517114069	SANTHOSH R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18	912517114070	SANTHOSHKUMAR K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19	912517114075	SENTHILVELRAJAN K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/





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"TWO-WHEELER AND FOUR-WHEELER SERVICING"**

S.NO	REG. NO	NAME	19-03-2021				20-03-2021										22-03-2021				
			62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
1	912517114002	AJITH KUMAR P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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Amaravathiputhur, Karaikudi – 630 301,

DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year-2020-2021

Certificate course-2 wheeler & 4 wheeler servicing

Assessment Procedure for Certificate course, Skill Development course and Add-on-course:

For Theory Course:

- Set the multiple-choice question paper (MCQ) or theory questions (2marks & 10 marks) to the prescribed given syllabus.
- Time limit for the examination is depended upon the question paper.
- Secured marks for theory course is added to the practical course marks.

For Practical Course:

- Set the list of experiments in a question paper to the prescribed given syllabus.
- The students to do the experiments to the given schedule.

Finally add both theory and practical marks scored by the student is printed in the grade sheet.

Assessment outline:

Course type	Paper Title	Theory	Practical	Total
Certificate course	2-wheeler & 4 wheeler servicing	20	80	100



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DEPARTMENT OF MECHANICAL ENGINEERING

Theory Exam-MULTIPLE CHOICE QUESTION PAPER

TWO- WHEELER & FOUR-WHEELER SERVICING

1. What is an Automobile?
 - a) self-propelled vehicle
 - b) used for carrying passengers and goods on the ground
 - c) contains the power source for its propulsion
 - d) All of the mentioned

2. Automobile can be classified based on which of the following parameter?
 - a) Fuel Used
 - b) Transmission
 - c) Drive
 - d) All of the mentioned

3. Which of the following is a classification of automobiles based on Load?
 - a) Heavy transport vehicle (HTV)
 - b) Sedan Hatchback car
 - c) Four wheeler vehicle
 - d) Front-wheel drive

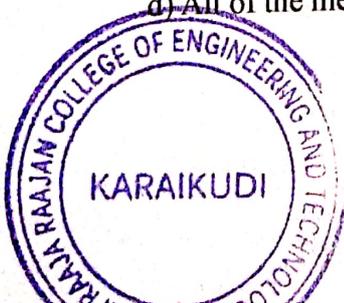
4. Which of these were or are used in automobiles to provide suspension.
 - a) Coil springs
 - b) Torsion bars
 - c) Leaf springs
 - d) All of the mentioned

5. Which of the following is not a part of the transmission system?
 - a) Clutch
 - b) Wheels
 - c) Gear box
 - d) Axles

6. In which of the following year was the first automobile built?
 - a) 1735
 - b) 1769
 - c) 1774
 - d) 1724



7. Which of the following is a classification of IC Engine?
- a) Otto cycle engine
 - b) Four-stroke engines
 - c) S.I Engines
 - d) All of the above
8. What is the function of the alternator?
- a) Recharging the Battery
 - b) Voltage Regulator
 - c) Auto-ignition
 - d) None of the above
9. In which of the following year was the first automobile built?
- a) 1789
 - b) 1769
 - c) 1765
 - d) 1770
10. Which of the following automobile has two/four doors?
- a) Convertible
 - b) Special purpose vehicles
 - c) Pickups
 - d) Sedan
11. Which of the following is found in an automobile's electrical system?
- a) Lighting systems
 - b) Battery
 - c) Alternators
 - d) All of the mentioned
12. In which of the following year was Hindustan Motors Limited, Calcutta set up?
- a) 1940
 - b) 1941
 - c) 1942
 - d) 1943
13. Which of the following is necessary for the description of an automobile?
- a) Model
 - b) Capacity
 - c) Make
 - d) All of the mentioned
14. Which of the following type of load is supported by an automobile frame?
- a) Torque from engine and transmission
 - b) Sudden impacts from collisions
 - c) Weight of the body, passengers and cargo loads
 - d) All of the mentioned



15. Which of the following parts does not include an automobile chassis?

- a) Differential
- b) Brakes
- c) Steering system
- d) Shock absorbers

16. Which of the following is defined as an upraised part on the hood which directs the airflow into the engine compartment?

- a) Hood scoop
- b) Spoiler
- c) Wings
- d) Hot pipe

17. Which of the following parameter is not necessary for the description of an automobile?

- a) Model
- b) Type
- c) Capacity
- d) Colour

18. Which of the following cars is categorized as a compact executive car?

- a) Mercedes-Benz E Class
- b) Mercedes-Benz S Class
- c) Audi A8
- d) Audi A4

19. Which of the following car is a 'Convertible'?

- a) Volkswagen Golf GTI
- b) Honda S2000
- c) Mahindra Scorpio
- d) Cadillac XTS

20. What is an IC Engine?

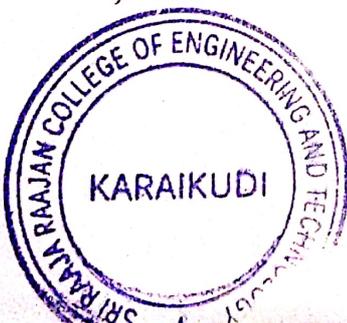
- a) the fuel is ignited and burned inside the engine
- b) the fuel is burned inside a combustion chamber
- c) the fuel is ignited inside a combustion chamber
- d) None of the above

21. Which of the following is not an arrangement of ic engine cylinders?

- a) Circular
- b) Opposed cylinder engine
- c) Radial
- d) V type engine

22. Which of the following is a cylinder head type of an ic engine?

- a) U head
- b) F head



- c) C head
- d) X head

23. The temperature of the piston will be more at _____ in an automobile engine.

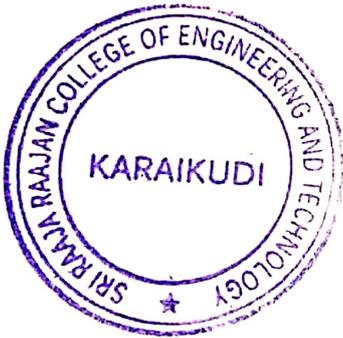
- a) The piston rings
- b) The piston walls
- c) The crown of the piston
- d) The skirt of the piston

24. Which of the following terms is used to express Ignition advance?

- a) Milli meters of piston travel before TDC
- b) Time in milliseconds
- c) Crank angle
- d) All of the mentioned

25. Which of the following is defined as the escape of burned gases from the combustion chamber past the pistons and into the crankcase?

- a) Passed gas
- b) Gas loss
- c) Blow by
- d) By pass.



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DEPARTMENT OF MECHANICAL ENGINEERING
TWO- WHEELER & FOUR-WHEELER SERVICING

PRACTICAL EXAMINATION- Question paper

Time : 3 Hours

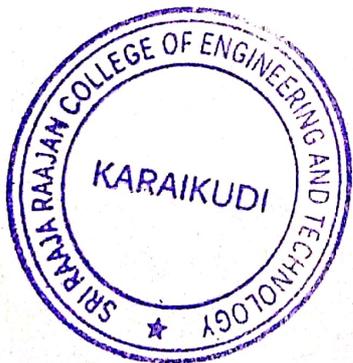
Max. Marks 75

Aim/Apparatus required	Procedure	Results	Viva-Voce	Record	Total
10	15	30	10	10	75

- 1) To check the Two-wheeler engine oil and brake pad assembly .
- 2) To check Four-wheeler cooling oil change.
- 3) To assemble Four-wheeler engine head.
- 4) To assemble Two-wheeler chain sprocket.
- 5) To check Battery ignition and Air filter assembly.
- 6) To check Water in radiator in four-wheeler.
- 7) To clean and assemble carburetor in two-wheeler.
- 8) To assemble the Cam shaft in two-wheeler.

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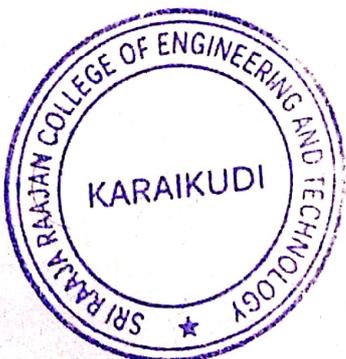
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KARAIKUDI

DEPARTMENT OF MECHANICAL ENGINEERING

TWO WHEELER AND FOUR WHEELER SERVICING

DATE: 11.03.2021

S.NO	REGISTER NO	NAME OF STUDENTS	MARKS
1	912517114002	Ajithkumar .P	72
2	912517114007	Arunbharath.B	78
3	912517114008	Arunkumar .D	80
4	912517114009	Ashok.P	81
5	912517114012	Babu.C	78
6	912517114013	Balachandar.S	77
7	912517114017	Daison Vimalraj.A	79
8	912517114021	Dinesh.P	81
9	912517114030	Jegatheshwari.s	85
10	912517114031	Jegathishwaran.s	82
11	912517114037	Karthick.P	80
12	912517114038	Karthikeyan.K	78
13	912517114047	Manimaran.D	79
14	912517114053	Naveen.A	80
15	912517114063	Rakesh.R	76
16	912517114064	Ranjith.S	75
17	912517114069	Santhosh.R	79
18	912517114070	Santhoshkumar.K	75
19	912517114075	Senthilvelrajan	76
20	912517114080	Sivabalan.P	76
21	912517114082	Suresh.S	79
22	912517114085	Thirumurugan.S	76
23	912517114091	Vigneswaran.K	76
24	912517114093	Vimalraj.M	75
25	912517114094	Vinithkumar.T	74
26	912517114098	Yuvaraj.V	80
27	912517114301	Arunaakanth.S	76
28	912517114307	Naveen kumaran PL	72




PRINCIPAL
Sri Raaja Raajan College of Engg. & Tech
Amaravathipudur, Karaikudi 630 001
Sivagangai Dist, Tamil Nadu

Sri. Raaja Raajan College of Engineering and Technology

Amaravathipudur, Karaikudi

and

Jairaam Skill Development Centre

Certificate of Participation



is awarded to Selvan. S. Arunakanth., IV Year, Mech. Engg.

for successfully completing the Value Added Course on

“Two Wheeler and Four Wheeler Servicing”

from 11th March 2021 to 22nd March 2021


Co-ordinator


HOD/Mech.


Principal

Sri. Raaja Raajan College of Engineering and Technology

Amaravathipudur, Karaikudi

and

Jairaam Skill Development Centre



Certificate of Participation

is awarded to Selvan. S. Balachander, IV Yr. Mech. Engg.

for successfully completing the Value Added Course on

“Two Wheeler and Four Wheeler Servicing”

from 11th March 2021 to 22nd March 2021

P. S. S.
Co-ordinator

[Signature]
HOD/Mech.

[Signature]
Principal





Sri. Raaja Raajan College of Engineering and Technology
Amaravathipudur, Karaikudi
and



Jairaam Skill Development Centre

Certificate of Participation

is awarded to Selvan. Vimal raj. M., IV Yr, Mech. Engg.

for successfully completing the Value Added Course on

“Two Wheeler and Four Wheeler Servicing”

from 11th March 2021 to 22nd March 2021


Co-ordinator


HOD/Mech.


Principal



Sri. Raaja Raajan College of Engineering and Technology

Amaravathipudur, Karaikudi

and

Jairaam Skill Development Centre

Certificate of Participation

is awarded to Selvan. R. Rakesh, IV Yr. Mech. Engg.

for successfully completing the Value Added Course on

“Two Wheeler and Four Wheeler Servicing”

from 11th March 2021 to 22nd March 2021


Co-ordinator


HOD/Mech.


Principal





**SRI RAAJA RAAJAN COLLEGE OF ENGINEERING TECHNOLOGY,
AMARAVATHIPUTHUR KARAİKUDI-630 301
DEPARTMENT OF MECHANICAL ENGINEERING
CERTIFICATE COURSE REPORT ON "CNC-MACHINING"**

Sri Raaja Raajan college of Engineering & Technology, Amaravathi puthur was conducted a certificate course on the topic of "CNC-MACHINING", which was held from January 20,2020 (Monday). CNC-Machining is a computerized manufacturing process in which pre-programmed software and code controls the movement of production equipment. CNC machining controls a range of complex machinery, such as grinders, lathes, and turning mills, all of which are used to cut, shape, and create different parts and prototypes. CNC machines are machine tools that cut or move material as programmed on the controller, as described above. The type of cutting can vary from plasma cutting to laser cutting, milling, routing, and lathes. CNC machines can even pick up and move items on an assembly line. M code is the machine control language that controls the overall program, often called G code. While G commands describe positions, M code directs the machine's actions. While M represents miscellaneous codes, some refer to it as machine code because it controls particular operations of the equipment. All the II-year Mechanical Engineering students and our faculties were attended this seminar. Our resource person Mr.R.Ramasamy, Head of the Department of Mechanical Engineering, Sri Raaja Raajan college of Engineering & Technology, taught about the CNC-Machining. He discussed about the contents of Introduction and the major components of CNC-Machining system, usage of various types of Machining codes as such as G-codes, M-codes etc, writing practice of program. Advantages, drawbacks and limitations, real time applications of CNC machines, By this seminar, our students and faculties were benefited and also they learned the fundamentals and applications of CNC



No. of students participated: 52

No. of faculties participated: 03


PRINCIPAL
Sri Raaja Raajan College of Engg. & Tech.,
Amaravathiputhur, Karaikudi - 630 301
Sivagangai Dist. Tamil Nadu



Certificate Programme in CNC Machining

Course Contents - Theory

Course Code	Course Title	Theory / Practical
JSDCC NC001 - T	STUDY OF CNC MACHINE - BASIC TRAINING	Theory
Unit No		
I	<p>Unit Title:INTRODUCTION TO CNC MACHINE</p> <p>Introduction of NC and CNC, definition, working principle of a CNC system, Technology, principles, features, advantages, applications,- Types of CNC Machines, CNC controllers, characteristics, interpolators- Difference between CNC and conventional lathes. Schematic diagram of CNC system. Axes convention.</p>	10
II	<p>Unit Title: CNC MACHINE TOOL PROGRAMMING</p> <p>CNC Machine building, Components of CNC machine .Cutting parameters - cutting speed, feed rate, depth of cut, constant surface speed, limiting spindle speed. Manual part programming - coordinate system – Datum points: machine zero, work zero, tool zero - reference points - NC dimensioning – G codes and M codes – linear interpolation and circular interpolation - CNC program procedure - sub-program</p>	10
III	<p>Unit Title: CNC MACHINE MAINTENANCE & SAFETY</p> <p>Introduction to Maintenance - Types – Procedure – Guideways, Stepper motors, Servo motors, Coolant Oil, Lubrication of moving parts - Troubleshoot & Overhauling - Safety & Health, Occupational Hazards - Accident & safety- housekeeping & good shop floor practices</p>	10
	Total	30Hrs

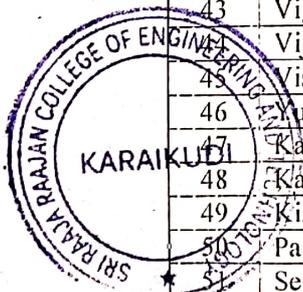
* T = Theory, P=Practical, H=hands on training / task oriented activities




Principal
 Sri Raja Raajam College of Engg. & Tech.,
 Anaravathi Road, Karaikudi - 630 301
 Sivagangai Dist. Tamil Nadu



YEAR/SEM	YEAR/SEM	II/IV	
S.NO	NAME	REG NO	SIGNATURE
1	Arun Kumar M	912518114003	Arun Kumar M
2	Deepak P	912518114004	Deepak P
3	Edwin S	912518114005	S. Edwin
4	GunasekaraPandian B	912518114006	B. Gunasekara
5	Harish Kumar K	912518114007	Harish Kumar K
6	Jeeva Felix A	912518114008	Jeeva Felix A
7	Karthick S	912518114009	Karthick S
8	Karthick Xavier V	912518114010	Karthick Xavier V
9	Kaviarasan B	912518114011	B. Kaviarasan
10	Kavikumar C	912518114012	C. Kavikumar
11	Kumaresan G	912518114013	G. Kumaresan
12	Logeswaran K	912518114015	K. Logeswaran
13	Manojkumar A	912518114016	A. Manojkumar
14	Mohamed Ali I	912518114017	Mohamed Ali I
15	Mohamed Faruk N	912518114018	Mohamed Faruk N
16	Mohamed Idrish A	912518114020	Mohamed Idrish A
17	Muneeswaran M	912518114021	Mohamed Idrish A
18	Nagajothi N	912518114024	Nagajothi N
19	Nagasivam V	912518114025	Nagasivam V
20	Naveen N	912518114026	N. Naveen
21	Naveenan B	912518114027	N. Naveen
22	Nivetha K	912518114029	Nivetha K
23	Prasanth B	912518114030	Prasanth B
24	Premkumar S	912518114031	Premkumar S
25	Ragul M	912518114032	Ragul M
26	Ramanathan D	912518114033	Ramanathan D
27	Sababathi R	912518114034	Sababathi R
28	SabariBala G	912518114035	SabariBala G
29	Sakthipandi K	912518114036	Sakthipandi K
30	Santhosh T	912518114037	Santhosh T
31	Sarath C	912518114039	Sarath C
32	Sarathkumar C	912518114040	Sarathkumar C
33	Selvakumar G	912518114041	Selvakumar G
34	Siva K	912518114042	K. Siva
35	Sivasakthi R	912518114043	Sivasakthi R
36	Sivasanthosh Kumar S	912518114044	Sivasanthosh Kumar S
37	Subash S	912518114045	Subash S
38	Suriya S	912518114047	Suriya S
39	Sushmithan S	912518114048	Sushmithan S
40	Thiruppathy S	912518114049	Thiruppathy S
41	Vengadesan N	912518114051	Vengadesan N
42	Vignesh N	912518114052	Vignesh N
43	Vigneshwaran R	912518114053	Vigneshwaran R
44	Vijay A	912518114054	Vijay A
45	Visva R	912518114056	Visva R
46	VyvaPrakash V	912518114057	VyvaPrakash V
47	Kannan V	912519114301	Kannan V
48	Karuppiya	912519114302	Karuppiya
49	Kirubakaran r	912519114303	Kirubakaran r
50	Palaniappan	912519114304	Palaniappan
51	Selvakumar K	912519114305	Selvakumar K
52	Sugan	912519114306	Sugan



SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
AMARAVATHIPUDUR, KARAİKUDI
DEPARTMENT OF MECHANICAL ENGINEERING
CNC MACHINING CEP COURSE ATTENDANCE

S.N O	YEAR/SEM	REG NO	II/IV NAME	20/01/2020								21/01/2020					22/01/2020				
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1		912518114003	Arun Kumar M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2		912518114004	Deepak P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3		912518114005	Edwin S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4		912518114006	GumasekaraPandian B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5		912518114007	Harish Kumar K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6		912518114008	Jeeva Felix A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7		912518114009	Karthick S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8		912518114010	Karthick Xavier V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9		912518114011	Kaviarasan B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10		912518114012	Kavikumar C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11		912518114013	Kumaresan G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12		912518114015	Logeswaran K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13		912518114016	Manojkumar A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14		912518114017	Mohamed Ali I	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15		912518114018	Mohamed Faruk N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16		912518114020	Mohamed Idrish A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17		912518114021	Muneeswaran M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18		912518114024	Nagajothi N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19		912518114025	Nagasivam V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20		912518114027	Naveen N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21		912518114027	Naveenan B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22		912518114029	Nitha K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23		912518114030	Nithin B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

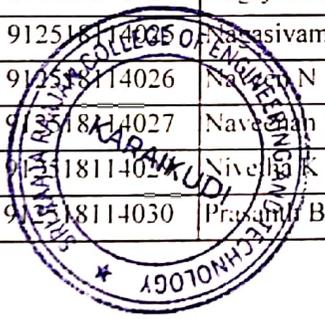


24	912518114031	Premkumar S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25	912518114032	Ragul M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
26	912518114033	Ramanathan D	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
27	912518114034	Sababathi R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
28	912518114035	SainariBala G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
29	912518114036	Sakthipandi K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
30	912518114037	Santhosh T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
31	912518114039	Sarath C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
32	912518114040	Sarathkumar C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
33	912518114041	Selvakumar G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
34	912518114042	Siva K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
35	912518114043	Sivasakthi R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
36	912518114044	Sivasanthosh Kumar S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
37	912518114045	Subash S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
38	912518114047	Suriya S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
39	912518114048	Sushmithan S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
40	912518114049	Thiruppathy S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
41	912518114051	Vengadesan N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
42	912518114052	Vignesh N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
43	912518114053	Vigneshwaran R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
44	912518114054	Vijay A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
45	912518114056	Visva R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
46	912518114057	YuvaPrakash V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
47	912519114301	Kannan V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
48	912519114302	Karuppiya	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
49	912519114303	Kirubakaran r	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
50	912519114304	Palaniappan	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
51	912519114305	Selvakumar K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
52	912519114306	sugan	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/



SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
AMARAVATHIPUDUR, KARAIKUDI
DEPARTMENT OF MECHANICAL ENGINEERING
CNC MACHINING CEP COURSE ATTENDANCE

YEAR/SEM		II/IV	22/01/2020				23/01/2020						24/01/2020									
S.NO	REG NO	NAME	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1	912518114003	Arun Kumar M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	912518114004	Deepak P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	912518114005	Edwin S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	912518114006	GunasekaraPandian B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	912518114007	Harish Kumar K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	912518114008	Jeeva Felix A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	912518114009	Karthick S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	912518114010	Karthick Xavier V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	912518114011	Kaviarasan B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	912518114012	Kavikumar C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	912518114013	Kumaresan G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	912518114015	Logeswaran K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13	912518114016	Manojkumar A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14	912518114017	Mohamed Ali I	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15	912518114018	Mohamed Faruk N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16	912518114020	Mohamed Idrish A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17	912518114021	Muneeswaran M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18	912518114024	Nagajothi N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19	912518114005	Nagasivam V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20	912518114026	Naveen N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21	912518114027	Naveen B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22	912518114028	Nivelina K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23	912518114030	Prasanna B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/



SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
AMARAVATHIPUDUR, KARAIKUDI
DEPARTMENT OF MECHANICAL ENGINEERING
CNC MACHINING CEP COURSE ATTENDANCE

YEAR/SEM		II/IV	25/01/2020										27/01/2020					28/01/2020				
S.N	REG NO	NAME	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
1	912518114003	Arun Kumar M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	912518114004	Deepak P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	912518114005	Edwin S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	912518114006	GunasekaraPandian B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	912518114007	Harish Kumar K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	912518114008	Jeeva Felix A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	912518114009	Karthick S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	912518114010	Karthick Xavier V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	912518114011	Kaviarasan B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	912518114012	Kavikumar C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	912518114013	Kumaresan G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	912518114015	Logeswaran K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13	912518114016	Manojkumar A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14	912518114017	Mohamed Ali I	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15	912518114018	Mohamed Faruk N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16	912518114020	Mohamed Idrish A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17	912518114021	Muneeswaran M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18	912518114024	Nagajothi N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19	912518114025	Nageshram V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20	912518114026	Naveen N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21	912518114027	Naveen B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22	912518114029	Nivetha K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23	912518114030	Prasanth B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/



**SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND
TECHNOLOGY**

Amaravathiputhur, Karaikudi – 630 301,

DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year-2019-2020

Certificate Course- CNC Machining

Assessment Procedure for Certificate course, Skill Development course and Add-on-course:

For Theory Course:

- Set the multiple-choice question paper (MCQ) or theory questions (2marks & 10 marks) to the prescribed given syllabus.
- Time limit for the examination is depended upon the question paper.
- Secured marks for theory course is added to the practical course marks.

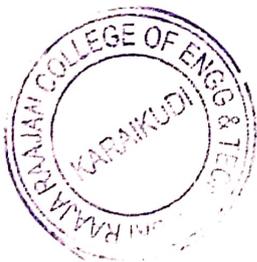
For Practical Course:

- Set the list of experiments in a question paper to the prescribed given syllabus.
- The students to do the experiments to the given schedule.

Finally add both theory and practical marks scored by the student is printed in the grade sheet.

Assessment outline:

Course type	Paper Title	Theory	Practical	Total
Certificate Course	CNC Machining	20	80	100





**SRI RAAJA RAAJAN COLLEGE OF ENGINEERING TECHNOLOGY,
AMARAVATHIPUTHUR. KARAIKUDI-630 301**

DEPARTMENT OF MECHANICAL ENGINEERING
MULTIPLE CHOICE QUESTION PAPER
CNC MACHINING

1. In machining of a workpiece, the material is removed by ____
 - a) drilling action
 - b) melting action
 - c) shearing acting
 - d) using brittleness of the material
2. The depth that the tool is plunged into the surface is called as ____
 - a) feed
 - b) depth of cut
 - c) depth of tool
 - d) working depth
3. Feed is measured in units of ____
 - a) length/revolution
 - b) degree/revolution
 - c) length
 - d) velocity
4. CNC machining centres do not include operations like ____
 - a) milling
 - b) boring
 - c) welding
 - d) tapping
5. In CNC systems multiple microprocessors and programmable logic controllers work ____
 - a) in parallel
 - b) in series
 - c) one after the other
 - d) for 80% of the total machining time
6. Which of the following is not the advantage of CNC machines?
 - a) Higher flexibility
 - b) Improved quality
 - c) Reduced scrap rate
 - d) Improved strength of the components



7. 7. In how many ways CNC machine tool systems can be classified?
- a) 2
 - b) 3
 - c) 4
 - d) 5
8. 8. Point-to-point systems are used for ____
- a) reaming
 - b) parting
 - c) grooving
 - d) facing
9. 9. In part programming, interpolation is used for obtaining ____ trajectory.
- a) helicoidal
 - b) pentagonal
 - c) triangular
 - d) zig-zag
10. 10. For CNC machining skilled part programmers are needed.
- a) True
 - b) False
11. 11. An absolute NC system is one in which all position coordinates are referred to one fixed origin called the zero point.
- a) True
 - b) False
12. Several machine tools can be controlled by a central computer in
- (a) NC
 - (b) CNC
 - (c) DNC
 - (d) CCNC
13. In the CNC machine tool, the part program entered into the computer memory
- (a) can be used only once
 - (b) can be used again and again
 - (c) can be used again but it has to be modified every time
 - (d) none of the mentioned
14. Which of the following is not the advantage of CNC machines?
- (a) Improved strength of the components
 - (b) Reduced scrap rate



(c) Higher flexibility

(d) Improved quality

15. Part-programming mistakes can be avoided in

(a) NC

(b) CNC

(c) both NC and CNC

(d) none of the mentioned

16. Point-to-point systems are used for _____.

(a) reaming

(b) parting

(c) grooving

(d) facing

17. CNC machine has the following main advantage over conventional machining practice.

(a) Ability to employ higher cutting speeds, feeds and depth of cut

(b) Feedback control

(c) Flexibility

(d) None of the mentioned

18. Which one of the following is not the advantage of the CNC machine?

(a) Reduce inspection time

(b) Reduces tooling time

(c) Higher rate of production

(d) Higher initial cost

19. In machining of a workpiece, the material is removed by _____.

(a) drilling action

(b) melting action

(c) shearing action

(d) using brittleness of the material

20. The depth that the tool is plunged into the surface is called as _____.

(a) feed

(b) depth of cut

(c) depth of tool

(d) working depth



A handwritten signature in green ink, appearing to be "K. S. S. S.", written over the printed name of the Principal.

PRINCIPAL

Sri Raaja Raajan College of Engg. & Tech.,
Amaravathipur, Karaikudi - 630 301
Sivagangai Dist. Tamil Nadu



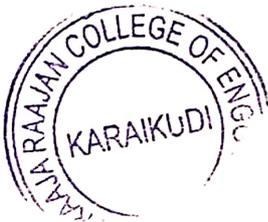


SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
AMARAVATHIPUTHUR, KARAIKUDI
CERTIFICATE COURSE-CNC MACHINING
MARK LIST

S.NO	REGISTER NO	NAME OF STUDENTS	MARK LIST
1	912518114003	Arun Kumar M	72
2	912518114004	Deepak P	78
3	912518114005	Edwin S	80
4	912518114006	GunasekaraPandian B	81
5	912518114007	Harish Kumar K	78
6	912518114008	Jeeva Felix A	77
7	912518114009	Karthick S	79
8	912518114010	Karthick Xavier V	81
9	912518114011	Kaviarasan B	85
10	912518114012	Kavikumar C	82
11	912518114013	Kumaresan G	80
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16	912518114020	Mohamed Idrish A	75
17	912518114024	Nagajothi N	79
18	912518114025	Nagasivam V	75
19	912518114026	Naveen N	76
20	912518114029	Nivetha K	76
21	912518114030	Prasanth B	79
22	912518114031	Premkumar S	76
23	912518114032	Ragul M	76
24	912518114033	Ramanathan D	75
25	912518114034	Sababathi R	74
26	912518114035	SabariBala G	80
27	912518114036	Sakthipandi K	76
28	912518114037	Santhosh T	72
29	912518114039	Sarath C	72
30	912518114040	Sarathkumar C	78
31	912518114041	Selvakumar G	80
32	912518114042	Siva K	81
33	912518114043	Sivasakthi R	78
34	912518114044	Sivasanthosh Kumar S	77
35	912518114045	Subash S	79
36	912518114047	Suriya S	81
37	912518114048	Sushmithan S	85
	912518114051	Vengadesan N	82



39	912518114052	Vignesh N	80
40	912518114053	Vigneshwaran R	78
41	912518114054	Vijay A	79
42	912518114056	Visva R	80
43	912518114057	YuvaPrakash V	76
44	912519114301	Kannan V	75
45	912519114302	Karuppiya	79
46	912519114303	Kirubakaran r	75
47	912519114304	Palaniappan	76
48	912519114305	Selvakumar K	76
49	912519114306	sugan	79





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SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY

AMARAVATHIPUDUR, KARAİKUDI-630301

(Affiliated to Anna University & Approved by AICTE)

CERTIFICATE OF COURSE PARTICIPATION

Is Here By Awarded To

.....*Selvan. C. Sarathkumar, II Year, Mech. Engg.*.....

for Successfully Completing Certificate Course on
“CNC MACHINING” which is held at “SRI RAAJA RAAJAN
COLLEGE OF ENGINEERING AND TECHNOLOGY” from
20/01/2020 to 28/01/2020.

P. Pradeep Castes

CO-ORDINATOR

P. Pradeep

HOD/MECH

[Signature]

PRINCIPAL





SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY

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CO-ORDINATOR

P. Ravi
HOD/MECH

[Signature]
PRINCIPAL





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Selvan. V. Yuvarajakash, II Yr. Mech. Engg.

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P. Pradeep Castro
CO-ORDINATOR

R. Ramy
HOD/MECH

[Signature]
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P. Pradeep Castro
CO-ORDINATOR

R. Ramani
HOD/MECH

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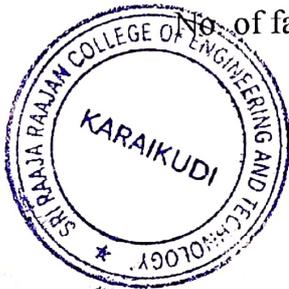
**SRI RAAJA RAAJAN COLLEGE OF ENGINEERING TECHNOLOGY,
AMARAVATHIPUTHUR. KARAİKUDI-630 301**

DEPARTMENT OF MECHANICAL ENGINEERING
SDC REPORT ON “MECHANICAL AND ELECTRICAL PLUMBING”

Sri Raaja Raajan college of Engineering & Technology, Amaravathi puthur was conducted a skill development course on the topic of “Mechanical and Electrical Plumbing”, which was held from March 11, 2022 (Friday). MEP stands for “mechanical, electrical and plumbing.” MEP engineering is the science and art of planning, designing and managing the MEP systems of a building. An MEP design company specializes in those skills Mechanical, electrical and plumbing (MEP) refers to the installation of services which provide a comfortable space for the building occupants. In residential and commercial buildings, these elements are often designed by a specialized MEP engineering firms. MEP's design is important for planning, decision-making, accurate documentation, performance- and cost-estimation, construction, and operating/maintaining the resulting facilities. All the IV-year Mechanical Engineering students and our faculties were attended this skill development course. Our resource person Mr.R.Ramasamy, Head of the Department of Mechanical Engineering, Sri Raaja Raajan college of Engineering & Technology, taught about the MEP-Machining. He discussed about the contents of Introduction and the major components of MEP system, using software such as RIVET ARCHITECTURE, RIVET MEP etc, By this course, our students and faculties were benefited and also they learned the fundamentals and applications of MEP systems.

No. of students participated: 49

No. of faculties participated: 04




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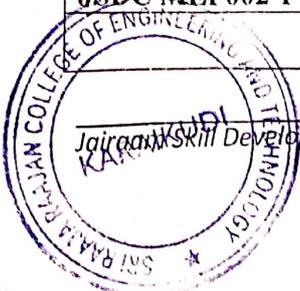
CERTIFICATE PROGRAMME IN MECHANICAL AND ELECTRICAL PLUMBING

Job Role	MECHANICAL AND ELECTRICAL PLUMBING DESIGNER	
Sector	CONSTRUCTION	
NSQF level	3	
QP Code	JSDMEP001	
Total number of hours and break up	125hrs (P: 50 Hrs., H: 75 Hrs.)*	
Occupational Standards	<ul style="list-style-type: none"> • understand the construction of pipe line in HAVC • understand construction of pipe line mechanical and electrical plumbing. 	To To
Expected Learning outcome	After completing this programme participants will be able to: <ul style="list-style-type: none"> • Knowledge in MEP • Knowledge in architecture • Knowledge in HAVC 	
Skills focused	MECHANICAL AND ELECTRICAL PLUMBING	
Course approved by	Bharathidasan University	
Placement areas	<ul style="list-style-type: none"> • MEP Designer • Heating, ventilation, and air conditioning • Electrical Power And Lighting • Fire Alarm Expertise 	

* P=Practical, H=hands on training / Aptitude / Project work / task oriented activities

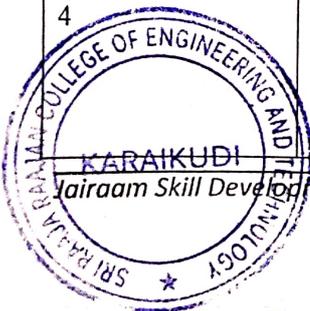
Course Outline

Course Code	Paper Title	Theory / Practical	Internal Marks	External Marks	Total
JSDC MEP001-P	REVIT ARCHITECTURE	Practical	25	75	100
JSDC MEP002-P	REVIT MEP	Practical	25	75	100
				Total	200



**CERTIFICATE PROGRAMME IN MECHANICAL AND ELECTRICAL
PLUMBING**

Course Code	Course Title	Theory / Practical	
JSDC MEP002-P	REVIT MEP	Practical	
Exercise No	Modules (Practical)	P (Hrs.)	H (Hrs.)
1	Introduction <ul style="list-style-type: none"> • MEP Design • Revit MEP • Graphical User Interface i) Ribbon ii) Quick Access Toolbar iii) Options Bar iv) Properties Palatte v) View Control Bar vi) Status Bar vii) Info Centre viii) User Interface Control ix) Menu and Settings x) Keyboard Shortcuts xi) Context Menus 	6	6
2	<ul style="list-style-type: none"> • Worksharing • Link Revit • Shared Coordinates • Controlling Visibility • Copy/Monitor • Link CAD 	4	6
3	<ul style="list-style-type: none"> • Family Creation <ul style="list-style-type: none"> • Solid Modeling • Symbols & Annotations • Creating Equipment • Creating Light Fixture • Creating Devices 	5	6
4	<ul style="list-style-type: none"> • Mechanical Design <ul style="list-style-type: none"> • Space Modeling • Zones • Building Construction • Heating and cooling Load Analysis • Report • Air Systems • Mechanical system & duct work 	6	6

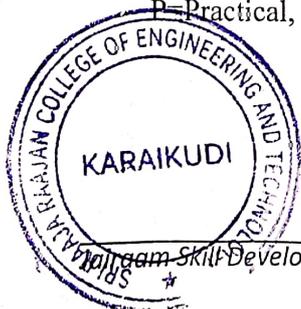


**CERTIFICATE PROGRAMME IN MECHANICAL AND ELECTRICAL
PLUMBING**

Course Contents – Practical

Course Code	Course Title	Theory / Practical	
JSDC MEP001-P	REVIT ARCHITECTURE – Practical	Practical	
Exercise No	Modules (Practical)	P (Hrs.)	H (Hrs.)
1	Introduction i) About BIM ii) Introduction to Revit iii) User Interface iv) Create Levels and grids	4	6
2	Building Elements i) Wall and Edit type ii) Door and windows iii) Columns and edit type iv) Floor and Roof	4	6
3	Circulation i) Staircase ii) Railing iii) Ramp	4	6
4	Model i) Model Text ii) Model line iii) Model Group	4	6
5	Opening i) Wall, floor, roof	3	5
6	Import DWG, JPEG	1	1
Total		20	30

P=Practical, H=hands on training / Aptitude / Project work / task oriented activities



	<ul style="list-style-type: none"> • Mechanical Piping System • Pipe Fittings 		
5	<ul style="list-style-type: none"> • Electrical Design <ul style="list-style-type: none"> i) Spaces and Lighting ii) Lighting Analysis iii) Schedule Key iv) Light Fixtures v) Site Lighting • Power and communication <ul style="list-style-type: none"> i) Modeling ii) Creating Circuits iii) Creating Fire Alarm System Model iv) Creating Power Distribution Systems v) Modeling Conduits and Cable Tray vi) Panels vii) Wiring 	5	6
6	<ul style="list-style-type: none"> • Plumbing • Fire Protection 	2	3
7	<ul style="list-style-type: none"> • Drafting and Detailing <ul style="list-style-type: none"> i) Line Style ii) Regions iii) Detail Component iv) CAD Details v) Drafting Views vi) Detail Library vii) Detail Views 	6	6
8	<ul style="list-style-type: none"> • Sheet Setting <ul style="list-style-type: none"> i) Title Block Creation ii) Sheet Creation iii) Placing Views in a Sheet iv) Sheet Revisions • Printing • Export to CADC 	6	6
Total		40	45




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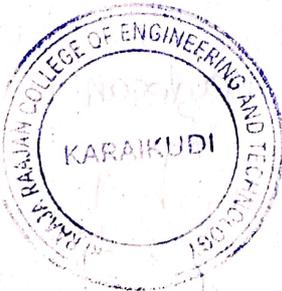
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AMARAVATHIPUDUR, KARAİKUDI
DEPARTMENT OF MECHANICAL ENGINEERING
SDC On MECHANICAL AND ELECTRICAL PLUMBING

DATE: 11.03.2022

S.No	Register Number	Name of Students	Signature
1	912518114003	Arun Kumar M	Arun Kumar M
2	912518114013	Kumaresan G	Kumaresan G
3	912518114016	Manojkumar A	A. Manojkumar
4	912518114033	Ramanathan D	D. Ramanathan
5	912518114004	Deepak P	P. Deepak
6	912518114010	Karthick Xavier V	V. Karthick Xavier
7	912518114043	Sivasakthi R	R. Sivasakthi
8	912518114304	sugan	Sugan
9	912518114005	Edwin S	S. Edwin
10	912518114025	Nagasivam V	V. Nagasivam
11	912518114026	Naveen N	N. Naveen
12	912518114057	YuvaPrakash V	V. YuvaPrakash
13	912518114006	GunasekaraPandian B	B. GunasekaraPandian
14	912518114035	SabariBala G	G. SabariBala
15	912518114054	Vijay A	A. Vijay
16	912518114007	Harish Kumar K	K. Harish Kumar
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20	912518114009	Karthick S	S. Karthick
21	912518114037	Santhosh T	T. Santhosh
22	912518114052	Vignesh N	N. Vignesh
23	912518114056	Visva R	R. Visva
24	912518114010	Kavikumar C	C. Kavikumar
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28	912518114015	Logeswaran K	K. Logeswaran



29	912518114031	Premkumar S	Premkumar S
30	912518114304	Palaniappan	Palaniappan
31	912518114304	Selvakumar K	Selva
32	912518114020	Mohamed Idrish A	Mohamed Idrish
33	912518114032	Ragul M	Ragul M
34	912518114036	Sakthipandi K	Sakthipandi
35	912518114040	Sarathkumar C	C. Sarath Kumar
36	912518114024	Nagajothi N	N. Nagajothi
37	912518114029	Nivetha K	K. Nivetha
38	912518114047	Suriya S	S. Suriya
39	912518114034	Sababathi R	R. Sababathi
40	912518114039	Sarath C	C. Sarath
41	912518114042	Siva K	K. Siva
42	912518114044	Sivasanthosh Kumar S	S. Sivasanthosh
43	912518114041	Selvakumar G	G. Selva
44	912518114301	Kannan V	V. Kannan
45	912518114302	Karuppiya	Karuppiya
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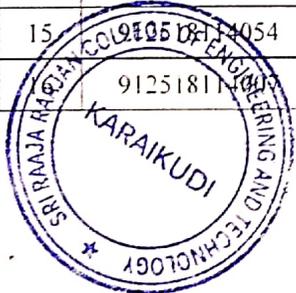




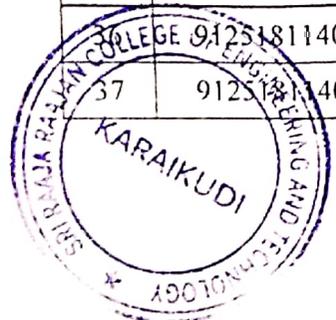
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AMARAVATHIPUDUR, KARAUKUDI
DEPARTMENT OF MECHANICAL ENGINEERING
SDC On MECHANICAL AND ELECTRICAL PLUMBING
ATTENDANCE SHEET

DATE: 11.03.2022

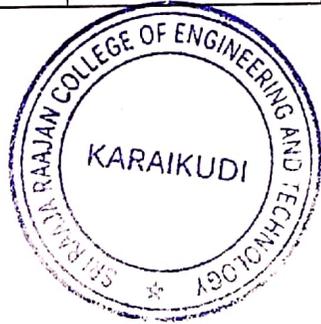
S.No	Register Number	Name of Students	11/03/22	12/03/22	13/03/22	14/03/22	15/03/22	16/03/22	17/03/22	18/03/22	19/03/22	20/03/22
1	912518114003	Arun Kumar M	/	/	/	/	/	/	/	/	/	/
2	912518114013	Kumaresan G	/	/	/	/	/	/	/	/	/	/
3	912518114016	Manojkumar A	/	/	/	/	/	/	/	/	/	/
4	912518114033	Ramanathan D	/	/	/	/	/	/	/	/	/	/
5	912518114004	Deepak P	/	/	/	/	/	/	/	/	/	/
6	912518114010	Karthick Xavier V	/	/	/	/	/	/	/	/	/	/
7	912518114043	Sivasakthi R	/	/	/	/	/	/	/	/	/	/
8	912518114304	sugan	/	/	/	/	/	/	/	/	/	/
9	912518114005	Edwin S	/	/	/	/	/	/	/	/	/	/
10	912518114025	Nagasivam V	/	/	/	/	/	/	/	/	/	/
11	912518114026	Naveen N	/	/	/	/	/	/	/	/	/	/
12	912518114057	YuvaPrakash V	/	/	/	/	/	/	/	/	/	/
13	912518114006	GunasekaraPandian B	/	/	/	/	/	/	/	/	/	/
14	912518114035	SabariBala G	/	/	/	/	/	/	/	/	/	/
15	912518114054	Vijay A	/	/	/	/	/	/	/	/	/	/
	912518114054	Harish Kumar K	/	/	/	/	/	/	/	/	/	/



17	912518114008	Jeeva Felix A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18	912518114018	Mohamed Faruk N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19	912518114051	Vengadesan N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20	912518114009	Karthick S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21	912518114037	Santhosh T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22	912518114052	Vignesh N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23	912518114056	Visva R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
24	912518114010	Kavikumar C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25	912518114011	Kaviarasan B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
26	912518114017	Mohamed Ali I	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
27	912518114030	Prasanth B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
28	912518114015	Logeswaran K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
29	912518114031	Premkumar S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
30	912518114304	Palaniappan	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
31	912518114304	Selvakumar K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
32	912518114020	Mohamed Idrish A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
33	912518114032	Ragul M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
34	912518114036	Sakhipandi K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
35	912518114040	Sarathkumar C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
36	912518114024	Nagajothi N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
37	912518114029	Nivetha K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/



38	912518114047	Suriya S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
39	912518114034	Sababathi R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
40	912518114039	Sarath C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
41	912518114042	Siva K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
42	912518114044	Sivasanthosh Kumar S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
43	912518114041	Selvakumar G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
44	912518114301	Kannan V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
45	912518114302	Karuppiya	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
46	912518114303	Kirubakaran r	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
47	912518114045	Subash S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
48	912518114048	Sushmithan S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
49	912518114053	Vigneshwaran R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/




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**SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND
TECHNOLOGY**

Amaravathiputhur, Karaikudi – 630 301,

DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year-2021-2022

Skill Development Course-Mechanical and Electrical Plumbing

Assessment Procedure for Certificate course, Skill Development course and Add-on-course:

For Theory Course:

- Set the multiple-choice question paper (MCQ) or theory questions (2marks & 10 marks) to the prescribed given syllabus.
- Time limit for the examination is depended upon the question paper.
- Secured marks for theory course is added to the practical course marks.

For Practical Course:

- Set the list of experiments in a question paper to the prescribed given syllabus.
- The students to do the experiments to the given schedule.

Finally add both theory and practical marks scored by the student is printed in the grade sheet.

Assessment outline:

Course type	Paper Title	Theory	Practical	Total
Skill development course	Mechanical and Electrical Plumbing	20	80	100




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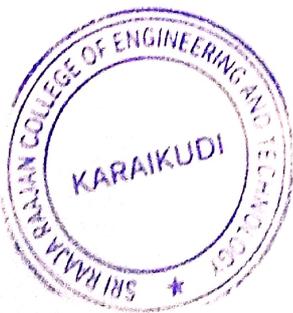
SRI RAAJA RAAJAN COLLEGE OF ENGINEERING TECHNOLOGY,
AMARAVATHIPUTHUR, KARAUKUDI-630 301

DEPARTMENT OF MECHANICAL ENGINEERING

MULTIPLE CHOICE QUESTION PAPER

MECHANICAL AND ELECTRICAL PLUMBING

1. Which valve is provided at intervals in long mains to prevent back pressure on the pump and in raising lines to prevent backflow of water?
(A) Gate valve
(B) Mud valve
(C) Reflux valve
(D) Pressure relief valve
2. What distribution system is suitable for towns growing irregularly?
(A) Dead End System
(B) Grid Iron System
(C) Radial System
(D) Ring System
3. Spun Iron pipes used in water supply shall conform to IS Number is :
(A) 1534
(B) 1535
(C) 1536
(D) 1537
4. What fittings are used in pipelines, that easy to dismantle and repair?
(A) Elbow
(B) Union
(C) Reducer
(D) Cap
5. What is the disadvantage of GI pipe?
(A) It can be easily jointed after threading.
(B) It is easy to detach joint.
(C) This pipe can be easily affected by acid or alkaline water.
(D) It will not get rusted easily because of galvanization
6. Which vice is used for holding round sections of metals, tubes and pipes?
(A) Pipe vice
(B) Bench vice
(C) Pin vice
(D) Hand vice
6. Soft solders whose melting points are below:
(A) 300°C
(B) 350°C
(C) 400°C
(D) 450°C



7. The try square is used to:
 - (A) Check the squareness
 - (B) Check the flatness
 - (C) Mark line at 90° to the edges of work piece
 - (D) All the above
8. Calipers are classified according to their :
 - (A) joints and thickness
 - (B) Thickness and width
 - (C) Joints and legs
 - (D) Leg and width
9. Metals which contain iron as major content are called :
 - (A) Non-Ferrous Metals
 - (B) Ferrous Metals
 - (C) Non-Metal
 - (D) Alloy
10. Which is used to cut external threads on cylindrical work pieces?
 - (A) tap and wrench
 - (B) pipe wrench
 - (C) spanner
 - (D) die and stuck
11. Melting point of Bronze is :
 - (A) 1083°C
 - (B) 1005°C
 - (C) 983°C
 - (D) 660°C
12. Rolling thin layer of metal on to a base metal is known as :
 - (A) Browning
 - (B) Enameling
 - (C) Electroplating
 - (D) Cladding
13. Ordinary Portland cement is available in, how many grades?
 - (A) 2
 - (B) 3
 - (C) 4
 - (D) 5
14. _____ C.I. cover provided for manholes constructed within width of road under vehicular traffic.
 - (A) Light duty
 - (B) Medium duty
 - (C) Heavy duly
 - (D) None of these
15. Minimum size of a bibcock is :
 - (A) 15 mm
 - (B) 20 mm



- (C) 23 mm
- (D) 30 mm

16. Which valve is provided at the bottom of suction pipe for holding water in the suction pipe?
- (A) Foot valve
 - (B) Ball valve
 - (C) Gate valve
 - (D) Globe valve
17. Floor trap is also known as:
- (A) Gully trap
 - (B) Running trap
 - (C) Nahani trap
 - (D) Intercepting trap
18. Commode is known as :
- (A) Urinal
 - (B) E.W.C.
 - (C) L.W.C.
 - (D) Sink
19. Advantage of P.V.C. pipe is
- (A) Light weight
 - (B) Corrosion free
 - (C) Cost of P.V.C pipe is cheaper than G.I. pipe
 - (D) All the above
20. Which system is also known as combined gravity and pumping system?
- (A) Gravity System
 - (B) Duel System
 - (C) Direct Pumping System
 - (D) None of these




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SRI RAAJA RAAJAN COLLEGE OF ENGINEERING & TECHNOLOGY,
KARAIKUDI

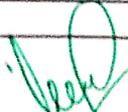
DEPARTMENT OF MECHANICAL ENGINEERING

SDC ON MECHANICAL AND ELECTRICAL PLUMPING

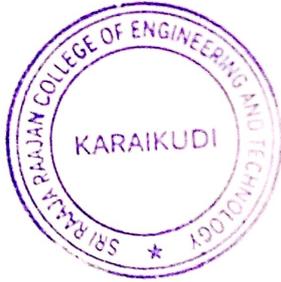
DATE: 11.03.2022

S.NO	REGISTER NO	NAME OF STUDENTS	MARKS
1	912518114003	Arun Kumar M	72
2	912518114004	Deepak P	78
3	912518114005	Edwin S	80
4	912518114006	GunasekaraPandian B	81
5	912518114007	Harish Kumar K	78
6	912518114008	Jeeva Felix A	77
7	912518114009	Karthick S	79
8	912518114010	Karthick Xavier V	81
9	912518114011	Kaviarasan B	85
10	912518114012	Kavikumar C	82
11	912518114013	Kumaresan G	80
12	912518114015	Logeswaran K	78
13	912518114016	Manojkumar A	79
14	912518114017	Mohamed Ali I	80
15	912518114018	Mohamed Faruk N	76
16	912518114020	Mohamed Idrish A	75
17	912518114024	Nagajothi N	79
18	912518114025	Nagasivam V	75
19	912518114026	Naveen N	76
20	912518114029	Nivetha K	76
21	912518114030	Prasanth B	79
22	912518114031	Premkumar S	76
23	912518114032	Ragul M	76
24	912518114033	Ramanathan D	75
25	912518114034	Sababathi R	74
26	912518114035	SabariBala G	80
27	912518114036	Sakthipandi K	76
28	912518114037	Santhosh T	72
29	912518114039	Sarath C	79
30	912518114040	Sarathkumar C	80
31	912518114041	Selvakumar G	76
32	912518114042	Siva K	75




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33	912518114043	Sivasakthi R	79
34	912518114044	Sivasanthosh Kumar S	75
35	912518114045	Subash S	76
36	912518114047	Suriya S	76
37	912518114048	Sushmithan S	79
38	912518114051	Vengadesan N	76
39	912518114052	Vignesh N	76
40	912518114053	Vigneshwaran R	75
41	912518114054	Vijay A	74
42	912518114056	Visva R	80
43	912518114057	YuvaPrakash V	76
44	912519114301	Kannan V	72
45	912519114302	Karuppiya	76
46	912519114303	Kirubakaran r	76
47	912519114304	Palaniappan	75
48	912519114305	Selvakumar K	74
49	912519114306	sugan	75



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Sri. Raaja Raajan College of Engineering and Technology
Amaravathipudur, Karaikudi



Jairaam Skill Development Centre

Certificate of Participation

is awarded to Selvan. S. Sivasanthosh Kumar, IV Year, Mech. Engg.
for successfully completing the Certified Skill Development Course on

“Mechanical and Electrical Plumbing”

from 11th March 2022 to 20th March 2022


Co-ordinator


HOD/Mech.


Principal



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Amaravathipudur, Karaikudi
and
Jairaam Skill Development Centre

Certificate of Participation

is awarded to Selvan . R. Sabapathi, IV Year, Mech. Engg.
for successfully completing the Certified Skill Development Course on
“Mechanical and Electrical Plumbing”
from 11th March 2022 to 20th March 2022


Co-ordinator


HOD/Mech.


Principal

Sri. Raaja Raajan College of Engineering and Technology
Amaravathipudur, Karaikudi



Jairaam Skill Development Centre

Certificate of Participation

is awarded to Selvan. K. Harish Kumar, IV Year, Mech. Eng.

for successfully completing the Certified Skill Development Course

“Mechanical and Electrical Plumbing”

from 11th March 2022 to 20th March 2022


Co-ordinator


HOD/Mech.


Princip



Sri. Raaja Raajan College of Engineering and Technology
Amaravathipudur, Karaikudi

and

Jairaam Skill Development Centre



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“Mechanical and Electrical Plumbing”

from 11th March 2022 to 20th March 2022


Co-ordinator


HOD/Mech.


Principa



SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to Anna University)

146 /4B1, Amaravathi Village,
Amaravathipurur (Po.),
Karaikudi - 630 301.
Ph : 04565 - 234230 / 326132

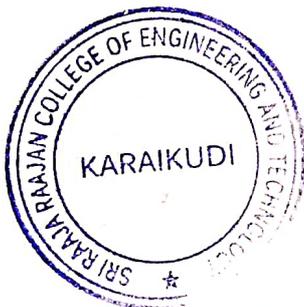
Fax : 04565 - 234430
Mobile : 73737 11322, 73737 11333
E-mail : srreet2010@gmail.com
Website : www.raajaraajan.org

WORK ORDER

Date : 08 / 01 / 2018.

Name : IL&FS Skills Development Corporation Ltd
Address : No 16(Old No.183) Baid Mehra Complex, 2nd Floor, Little Mount
City : Saidapet, Anna salai State TN
PIN : 600015
Contact Person : Mr KM Rajan (AVP)
GST No : 33AACC15146G1ZU

Description	Estimated no of Trainees	Rate / Trainee	Total fees
Course Details : Certificate Program in Soft Skills	700	500	350000
		Sub total	350,000
		CGST 9%	31,500
		SGST 9%	31,500
		TOTAL	413,000



J. Siva
PRINCIPAL

Dr. A. Kumaravadivel, M.E., Ph.D.

Principal
Sri Raaja Raajan College of
Engineering and Technology
Amaravathipurur, Karaikudi-630 301

Trust Office : No. 1, S.K.M. Building, T.T. Nagar Ist Street, Karaikudi - 630 001
Ph : 04565 - 234230, Mobile : 73737 11331, 73737 11333
Sri Raaja Raajan College of Engineering and Technology
Amaravathipurur, Karaikudi - 630 301
Sivagangotri, Tamil Nadu

IL&FS Skills Development Corporation Limited
 Baid Mehta Complex, 2nd Floor,
 # 16, Anna Salai,
 Little Mount, Saidapet,
 Chennai - 600 015



PAN - AACCI5146G

GSTIN - 33AACCI5146G1ZU

CIN - U80904DL2011PLC213135

Tax Invoice

Invoice No : CHN/17-18/50088	PO/Work Order No :
Invoice Date : 31/03/2018	PO/Work Order Date :
Reverse Charge(Y/N) : No	Date Of Supply : 31/03/2018
State : Tamil Nadu	Place Of Supply : 33
State Code : 33	

Bill to Party		Ship to Party	
Name : SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY	Name :	SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY	
Address : 146, Amaravati Village, Amaravati Pudur (PO), Karaikudi-630301 Tamil Nadu	Address :	146, Amaravati Village, Amaravati Pudur (PO), Karaikudi-630301 Tamil Nadu	
GSTIN : 33AACCI5146G1ZU	GSTIN :	33AACCI5146G1ZU	
State : Tamil Nadu Code : 33	State :	Tamil Nadu Code : 33	

S. No.	Service Description	HSN Code	Taxable Value	CGST Rate	CGST Amount	SGST Rate	SGST Amount	Total Amount
1	Towards Technical Soft Training program aims to Impart Knowledge on Developing Technologies among the sri RaajaRaajan College Students and Targeted Number is 428	999294	1,064,600.00	9.00	95,814.00	9.00	95,814.00	1,256,228.00
Total			1,064,600.00		95,814.00		95,814.00	1,256,228.00

Total Amount in words **** Twelve Lakh Fifty Six Thousand Two Hundred Twenty Eight only ****	Total Amount before Tax	1,064,600.00
Terms & Conditions Payment by crossed cheque/DD in favour of "IL&FS Skills Development Corporation Limited", Payable at New Delhi Interest @ 24% will be charged on all bills if payment not released immediately	Add: CGST	95,814.00
	Add: SGST	95,814.00
	Total Tax Amount	191,628.00
	Total Amount after Tax	1,256,228.00

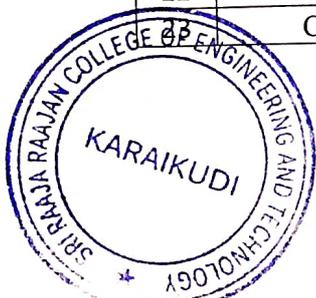
Bank Details	 Common Seal	GST on Reverse Charge
Beneficiary Name : IL&FS Skills Development Corporation Limited		Certified that the particulars given above are true and correct
Current A/C No. : 000385700000086		For IL&FS Skills Development Corporation Limited
IFSC Code : YESB0000003		 Authorized Signatory
Bank Name : YES Bank Ltd, Chanakyapuri, New Delhi		

Registered Office : 2nd Floor, Niryat Bhawan Rao Tula Ram Marg Opp. Army Hospital Research & Referral - New Delhi -



Certificate Program in CNC Operator

CNC Operator				
S.No	Session Name	Objectives	Methodology (Theory / Practical)	Duration (in hrs)
1	Introduction to CNC	Understanding about Computer Numeric Control	Theory	1
2	Cartisian Coordinates & Unit Conversion	Develop the ability to understand different units used in Machine Shop	Theory	1
3	G Code & M Code	Program Creation	Theory	3
4	CNC lathe Introduction	Explain about Lathe machine parts and their functions	Theory	1
5	Facing	Identify the tools and perform the Facing Operation	Theory	3
6	Facing		Practical	
7	Turning	Identify the tools and perform the turning Operation	Theory	6
8	Turning		Practical	
9	Step Turning	Identify the tools and perform the Step turning Operation	Theory	
10	Step Turning		Practical	
11	Tapper Turning	Identify the tools and perform the appear turning Operation	Theory	
12	Tapper Turning		Practical	
13	Grooving	Identify the tools and perform the Grooving Operation	Theory	3
14	Grooving		Practical	
15	Drilling	Identify the tools and perform the Drilling Operation	Theory	2
16	Drilling		Practical	
17	Threading	Identify the tools and perform the Threading Operation	Theory	4
18	Threading		Practical	
19	Circular Interpolation Clock Wise (G02)	Identify the tools and perform the Circular Interpolation CW Operation	Theory	4
20	Circular Interpolation Clock Wise (G02)		Practical	
21	Circular Interpolation Counter Clock Wise (G03)	Identify the tools and perform the Circular Interpolation CCW Operation	Theory	4
22	Circular Interpolation Counter Clock Wise (G03)		Practical	
	CNC Milling	Explain about milling machine parts and	Theory	1



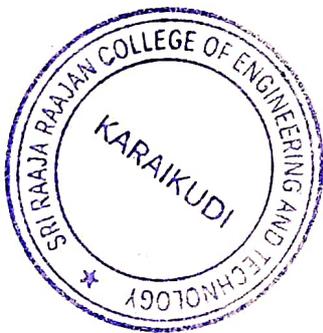
Certificate Program in Shielded Metal ARC Welding (SMAW)

Shielded Metal ARC Welding (SMAW)				
S.No	Session Name	Objective	Methodology (Theory / Practicals)	Duration (in hrs)
1	Introduction to Welding	Understanding about Welding	T	1
2	Introduction to SMAW	Brief knowledge on SMAW	T	1
3	Introduction to Electrodes & its various types	Electrodes and its types	T	1
4	Equipments used in Welding	Importance of welding equipments	T	1
5	Safety Measures in Welding	Identification of PPE	T	1
6	Types of Weld - Fillet & Groove	Identify different types of weld	T	1
7	Types of Welding Joints - Butt joint	Different types of joining processes	T & P	4
8	Types of Welding Joints - TEE joint		T & P	4
9	Types of Welding Joints - Corner joint		T & P	4
10	Types of Welding Joints - Lap joint		T & P	4
11	Types of Welding Joints - Edge joint		T & P	4
12	Welding positions	Different welding positions	T & P	4
13	Flat or Down Hand		T & P	4
14	Horizontal		T & P	4
15	Vertical		T & P	4
16	Overhead		T & P	4
17	Material Preparation	Different methods of cleaning and cutting metals	T&P	3
18	Edge Preparation	Types and Methods of Edge preparation	T&P	3
19	Fit Up	To form the component as per the drawing	T&P	3
20	Basic Welding Symbols	Groove and Fillet Welding Symbols - survey	P	1
21	Practical Exam	Exam		4
			Total Duration	60




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	Introduction	their functions			
24	Absolute Coordinate	Explain How a Machine Coordinates Works	Theory	2	
25	Increment Coordinate	How we can utilize program in a Batch method	Practical		
26	G01 Operation	Identify the tools and perform the Linear Operation	Theory	4	
27	G01 Operation		Practical		
28	Circular Interpolation Clock Wise (G02)	Identify the tools and perform the Circular Interpolation CW Operation	Theory	8	
29	Circular Interpolation Clock Wise (G02)		Practical		
30	Circular Interpolation Clock Wise (G02 IJ Mode)		Practical		
31	Circular Interpolation Counter Clock Wise (G03)	Identify the tools and perform the Circular Interpolation CCW Operation	Theory		
32	Circular Interpolation Counter Clock Wise (G03)		Practical		
33	Circular Interpolation Counter Clock Wise (G03 IJ Mode)		Practical		
34	Mirroring Operation	Identify the tools and perform the Mirroring Operation	Theory		2
35	Mirroring Operation		Practical		
36	Sub Program	Identify the tools and perform the Sub Program Operation	Theory	8	
37	Sub Program		Practical		
38	Polar Coordinate	Identify the tools and perform the Polar Operation	Theory	2	
39	Polar Cordinate		Practical		
40	Industry Orientations	Brief Explain about Industry Department	Theory	1	
			Total Duration	60	




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Raaja Raajan Engineering College Soft Skills Schedule			
III Years Students		IV Years Students	
Trainer Name	Topic	Trainer Name	Topic
Ms. Gousia	Communication Skills	Mr. Chellappa	Interpersonal Skills
Ms. Arfa	Impersion Management	Mr. Shri Murugan	Goal Setting
Ms. Vaishnavi	Self Analysis	Mr. Raghunath	Apptitude
Mr. Senthilkumar	Positive Attitude	Ms. Meena	Emotional Intelligence
Mr. Karunanidhi	Apptitude	Ms.Kavitha	Communication Skills

Raaja Raajan Engineering College Soft Skills Schedule for Final Year								
	26.12.2017		27.12.2017		28.12.2017		29.12.2017	
Trainer Name	FN	AN	FN	AN	FN	AN	FN	AN
Mr. Chellappa	F16	F12	F23	G22	G23	F16	F12	Valedictory
Mr. Shri Murugan	F12	F23	G22	G23	F16	F12	F23	
Mr. Raghunath	F23	G22	G23	F16	F12	F23	G22	
Ms. Mecna	G22	G23	F16	F12	F23	G22	G23	
Ms.Kavitha	G23	F16	F12	F23	G22	G23	F16	

Raaja Raajan Engineering College Soft Skills Schedule for Third Year						
	28.12.2017		29.12.2017		30.12.2017	
Trainer Name	FN	AN	FN	AN	FN	AN
Ms. Gousia	G17	G20	F2	F3	F25	Valedictory
Ms. Arfa	G20	F2	F3	F25	G17	
Ms. Vaishnavi	F3	F3	F25	G17	G20	
Mr. Senthilkumar	F3	F25	G17	G20	F25	
Mr. Karunanidhi	F25	G17	G20	F2	F3	





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DEPARTMENT OF MECHANICAL ENGINEERING

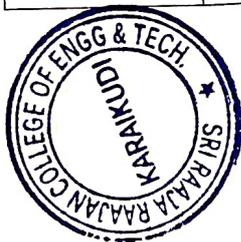
IL&FS SKILL DEVELOPMENT COURSE
PARTICIPATION LIST
Batch: 2014-2018

Reg.No	NAME	SIGNATURE
912514114001	AAKASH .N	Aakash
912514114002	AJITHKUMAR .K	Ajith
912514114004	ANBARASAN .S	Anbarasan
912514114005	ARAVINTHER .A	Aravint
912514114006	ASHARAFALI .R	Asharafali
912514114007	BALACHANDAR .V	Balachandar
912514114008	BALASUBRAMANIAN .M	Balasubramanian
912514114009	CHANDRU .R	Chandru
912514114010	DEIVENDRAN .V	Deivendran
912514114011	DINESHKUMAR .S	Dinesh
912514114012	DINESHKUMAR .V	Dinesh
912514114013	DURAIMURUGAN .K	Durai murugan
912514114014	JEGAN .G	Jegan
912514114016	KALIDASAN .V	Kalidasan
912514114017	KARAN .M	Karan
912514114019	KARTHIK RAJA .K	K. Karthik Raja
912514114020	KARUNAGARAN .M	Karunakaran .m
912514114021	KATHIRESAN .M	Kathiresan
912514114022	KEVIN PRABHAR .D	KEVIN PRABHAR
912514114024	KRISHNA .M	Krishna
912514114025	KUMAR .R	Kumar
912514114026	MANIBHARATH .P	Manibharath
912514114027	MANIKANDAN .K	Manikandan
912514114028	MANIKANDAN .S	Manikandan
912514114029	MANOHARAN .B	Manoharan
912514114031	MOHAMED SABEER J	Mohamed Sabeer
912514114032	MURUGANANTHAM .VR	Murugan
912514114033	MUTHUKUMAR .M	Muthu




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912514114034	NAGASUNDARAM .P	Nag
912514114035	NANTHA GOPALAN .R	Nanthu
912514114036	NANTHAKUMAR .P	Nanthakumar
912514114037	PALANISELVAM .K	Palani
912514114039	PONNARASAN .S	Pon
912514114041	PRADEEP .N	Pradeep
912514114042	PRAKASH .P	Prakash
912514114043	PRASANTH .R	Prasan
912514114044	RAGU M	Ragu
912514114045	RAHUL M	Rahul
912514114047	RAJKUMAR .S	Rajkumar
912514114048	RAMJIPANDIAN K	Ramji
912514114049	RANJITHRAJA .C	Ranjithraja
912514114052	SANTHOSHKUMAR .KR	Santhoshkumar
912514114051	SANTHOSHKUMAR .R	Santhoshkumar
912514114053	SARAVANAKUMAR .R	Saravankumar
912514114054	SARAVANAN .K	Saran
912514114055	SARAVANAN .V	Saran
912514114056	SATHISHKUMAR .R	Sathish
912514114057	SELVAKUMAR .P	Selvakumar
912514114060	SETHUPATHI .S	Sethupathi
912514114061	SIVAPRAKASH .K	Siva
912514114062	SUNDARESH WARAN .S	Sundareswarar
912514114063	SURJITH .R	Surjith
912514114064	SYEDABTHAHIR .M	Syedabthahir
912514114065	THANGADURAI .T	Thangadurai
912514114067	VADIVELAN R	Vadivelan
912514114068	VASANTH .M	Vasanth
912514114070	VIGNESH .S	Vignesh
912514114071	VIJAY .S	Vijay
912514114072	VIMAL .R	Vimal
912514114074	VIVEK R	Vivek
912514114401	PRABAKARAN .F	Prabakaran
912514114305	SABEER ALI .A	Sabeer
912514114307	SIVASANKARAN .S	Sivasankaran
912514114306	SANTHOSH KUMAR .D	Santhosh
912514114309	VINOTH .K	Vinoth .k
912514114303	MANIMARAN .V	Mani
912514114308	UDHAYAKUMAR .R	Udayakumar



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PARTICIPATION LIST

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PARTICIPATION LIST

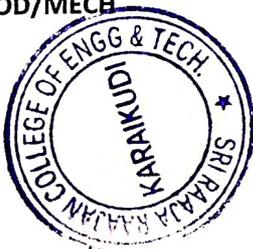
Batch: 2015-2019

S.NO	REG. NO	NAME	SIGNATURE
1	912515114001	ABDUL AZIS N	ABDUL . N
2	912515114002	ABDUL HAKKIM J	Abdul
3	912515114004	AJITHKUMAR G	Ajithkumar
4	912515114005	AJITHKUMAR K	Ajithkumar
5	912515114007	AJITHKUMAR R	Ajithkumar
6	912515114009	AJITH KUMAR R	Ajithkumar
7	912515114010	ARJUNAN M	Arjunan
8	912515114011	ARUNACHALAM M	Arunachalam
9	912515114012	ARUNKUMAR D	Arunkumar
10	912515114013	ATHISHANKAR A	Athishankar
11	912515114014	AYYAPPAN P	Ayyappan. P
12	912515114015	BABU S	Babu
13	912515114016	BANDHALAN K	Bandhalan
14	912515114017	DHINESH A	Dhinesh
15	912515114018	DURAI PANDI M	Durai Pandi
16	912515114019	GOKULAKANNAN R	Gokulakannan
17	912515114021	HARIHARAN E	Harihara
18	912515114022	IYAPPAN M	Iyappan
19	912515114024	JAGANATHAN S	Jaganathan
20	912515114025	KALAILINGAM K	Kalailingam
21	912515114026	KALEESHWARAN M	Kaleeswaran
22	912515114027	KALEESWARAN N	Kaleeswaran
23	912515114028	KALEESWARAN P	Kaleeswaran
24	912515114029	KARTHICK R	Karthick
25	912515114030	KARTHIK N	Karthik
26	912515114033	LOGESH KUMAR R	Logesh Kumar
27	912515114034	MADHAVAN A	Madhavan
28	912515114035	MANIKANDAN A	Manikandan
29	912515114036	MANIKANDAN K	Manikandan
30	912515114037	MANIKANDAN N	Manikandan
31	912515114038	MANIKANDAN R	Manikandan
32	912515114039	MANIMARAN N	Manimaran



33	912515114040	MANIVANNAN K	manivanank
34	912515114041	MOHANKUMAR S	Mohankumar
35	912515114042	MUGESHKANNAN G	Mugeshkannan
36	912515114043	MUKIL A	Mukul. A
37	912515114045	MUTHU KRISHNAN M	Muthu
38	912515114046	MUTHU MANICKAM K	Muthuman
39	912515114047	NADIMUTHU M	Nadimuthu
40	912515114048	NAVARASU M	M. Navarasu
41	912515114049	NAVEEN KUMAR A	Naveen
42	912515114050	PALANISAMY N	Palanisamy
43	912515114051	PONPRASATH A	Ponprasath
44	912515114052	PRAGATHEESHWARAN M	Pragatheeshwaran
45	912515114053	PRAVEEN R	Praveen
46	912515114054	PRAVEEN KUMAR S	Praveen
47	912515114055	PREM KUMAR S	Premkumar
48	912515114056	RAGUL V	Ragul
49	912515114057	RANJITH B	B. Ranjith
50	912515114058	RAVIKUMAR A	Ravikumar
51	912515114059	SATHISH KUMAR S	Sathish
52	912515114061	SETHU T	T. Sethu
53	912515114062	STEPHEN N	T. sethu
54	912515114063	SURYASANKAR M	N. surya
55	912515114065	UDHAYAKUMAR P	P. Udhayakumar
56	912515114067	VANMIKANATHAN A	Vannikan
57	912515114068	VASANTHAKUMAR P	Vasanth
58	912515114069	VEERAMANI A	Veeramani - A
59	912515114070	VENKATESH V	v. venkatesh
60	912515114072	VIJAYANANDH R	R. vijayandh
61	912515114073	VIJAYARAJ S	Vijayaraj
62	912515114074	VINOTH KUMAR K	Vinoth
63	912515114075	YOKESH K	K. yokesh
64	912515114303	MAHALINGAM A	malalingam
65	912515114304	MUTHAMIZHAN V	Muthamizhan
66	912515114305	MUTHU KUMAR S	Muthukumar
67	912515114306	PARTHIBAN B	B. Parathiban
68	912515114307	PRAKASH P	P. Prakash
69	912515114309	RANJITH M	M. RANJITH
70	912515114310	SANTHOSH R	R. Santhosh

HOD/MECH



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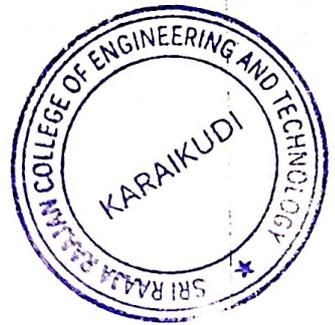
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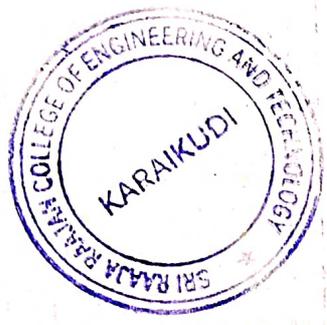
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DEPARTMENT OF MECHANICAL ENGG

Iv year

S.no	Reg.no	Name	26.12		27.12		28.12		29.12	
			F.N	A.N	F.N	A.N	F.N	A.N	F.N	A.N
1	912514114001	AAKASH .N	V. Akh	V. Akh	V. Akh	V. Akh	V. Akh	V. Akh	V. Akh	V. Akh
2	912514114002	AJITHKUMAR .K	K. Akh	K. Akh	K. Akh	K. Akh	K. Akh	K. Akh	K. Akh	K. Akh
3	912514114004	ANBARASAN .S	S. An	S. An	S. An	S. An	S. An	S. An	S. An	S. An
4	912514114005	ARAVINTHER .A	A. Ar	A. Ar	A. Ar	A. Ar	A. Ar	A. Ar	A. Ar	A. Ar
5	912514114006	ASHARAFALI .R	R. Ash	R. Ash	R. Ash	R. Ash	R. Ash	R. Ash	R. Ash	R. Ash
6	912514114007	BALACHANDAR .V	V. Bal	V. Bal	V. Bal	V. Bal	V. Bal	V. Bal	V. Bal	V. Bal
7	912514114008	BALASUBRAMANIAN .M	M. Bal	M. Bal	M. Bal	M. Bal	M. Bal	M. Bal	M. Bal	M. Bal
8	912514114009	CHANDRU .R	R. Chand	R. Chand	R. Chand	R. Chand	R. Chand	R. Chand	R. Chand	R. Chand
9	912514114010	DEIVENDRAN .V	V. Deiv	V. Deiv	V. Deiv	V. Deiv	V. Deiv	V. Deiv	V. Deiv	V. Deiv
10	912514114011	DINESHKUMAR .S	S. Dine	S. Dine	S. Dine	S. Dine	S. Dine	S. Dine	S. Dine	S. Dine
11	912514114012	DINESHKUMAR .V	V. Dine	V. Dine	V. Dine	V. Dine	V. Dine	V. Dine	V. Dine	V. Dine
12	912514114013	DURAIMURUGAN .K	K. Durai	K. Durai	K. Durai	K. Durai	K. Durai	K. Durai	K. Durai	K. Durai
13	912514114014	JEGAN .G	G. Jegan	G. Jegan	G. Jegan	G. Jegan	G. Jegan	G. Jegan	G. Jegan	G. Jegan
14	912514114016	KALIDASAN .V	V. Kalid	V. Kalid	V. Kalid	V. Kalid	V. Kalid	V. Kalid	V. Kalid	V. Kalid
15	912514114017	KARAN .M	M. Karan	M. Karan	M. Karan	M. Karan	M. Karan	M. Karan	M. Karan	M. Karan
16	912514114020	KARUNAGARAN .M	M. Karun	M. Karun	M. Karun	M. Karun	M. Karun	M. Karun	M. Karun	M. Karun
17	912514114021	KATHIRESAN .M	M. Kathi	M. Kathi	M. Kathi	M. Kathi	M. Kathi	M. Kathi	M. Kathi	M. Kathi
18	912514114022	KEVIN PRABAHAR .D	D. Kevin	D. Kevin	D. Kevin	D. Kevin	D. Kevin	D. Kevin	D. Kevin	D. Kevin
19	912514114024	KRISHNA .M	M. Krishna	M. Krishna	M. Krishna	M. Krishna	M. Krishna	M. Krishna	M. Krishna	M. Krishna
20	912514114025	KUMAR .R	R. Kumar	R. Kumar	R. Kumar	R. Kumar	R. Kumar	R. Kumar	R. Kumar	R. Kumar
21	912514114026	MANIBHARATH .P	P. Mani	P. Mani	P. Mani	P. Mani	P. Mani	P. Mani	P. Mani	P. Mani
22	912514114027	MANIKANDAN .K	K. Mani	K. Mani	K. Mani	K. Mani	K. Mani	K. Mani	K. Mani	K. Mani
23	912514114028	MANIKANDAN .S	S. Mani	S. Mani	S. Mani	S. Mani	S. Mani	S. Mani	S. Mani	S. Mani
24	912514114029	MANOHARAN .B	B. Manoh	B. Manoh	B. Manoh	B. Manoh	B. Manoh	B. Manoh	B. Manoh	B. Manoh

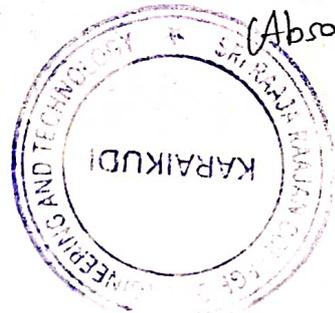


No	Reg.no	Name	26.12		27.12		28.12		29.12	
			F.N	A.N	F.N	A.N	F.N	A.N	F.N	A.N
25	912514114031	MOHAMED SABEER .J	J.Sab	J.Sab	J.Sab	J.Sab	J.Sab	J.Sab	J.Sab	J.Sab
26	912514114032	MURUGANTHAM .VR	V.R. Murug	V.R. Murug	V.R. Murug	V.R. Murug	V.R. Murug	V.R. Murug	V.R. Murug	V.R. Murug
27	912514114033	MUTHUKUMAR .M	M. Muthu	M. Muthu	M. Muthu	M. Muthu	M. Muthu	M. Muthu	M. Muthu	M. Muthu
28	912514114034	NAGASUNDARAM .P	P. Nagar	P. Nagar	P. Nagar	P. Nagar	P. Nagar	P. Nagar	P. Nagar	P. Nagar
29	912514114035	NANTHA GOPALAN. .R	R. Nanth	R. Nanth	R. Nanth	R. Nanth	R. Nanth	R. Nanth	R. Nanth	R. Nanth
30	912514114036	NANTHAKUMAR .P	P. Nanth	P. Nanth	P. Nanth	P. Nanth	P. Nanth	P. Nanth	P. Nanth	P. Nanth
31	912514114037	PALANISELVAM .K	K. Palani	K. Palani	K. Palani	K. Palani	K. Palani	K. Palani	K. Palani	K. Palani
32	912514114041	PRADEEP .N	N. Pradeep	N. Pradeep	N. Pradeep	N. Pradeep	N. Pradeep	N. Pradeep	N. Pradeep	N. Pradeep
33	912514114042	PRAKASH .P	P. Prakash	P. Prakash	P. Prakash	P. Prakash	P. Prakash	P. Prakash	P. Prakash	P. Prakash
34	912514114043	PARASANTH .R	R. Parasanth	R. Parasanth	R. Parasanth	R. Parasanth	R. Parasanth	R. Parasanth	R. Parasanth	R. Parasanth
35	912514114044	RAGU .M	M. Ragu	M. Ragu	M. Ragu	M. Ragu	M. Ragu	M. Ragu	M. Ragu	M. Ragu
36	912514114045	RAHUL .M	M. Rahul	M. Rahul	M. Rahul	M. Rahul	M. Rahul	M. Rahul	M. Rahul	M. Rahul
37	912514114047	RAJKUMAR .S	S. Rajkumar	S. Rajkumar	S. Rajkumar	S. Rajkumar	S. Rajkumar	S. Rajkumar	S. Rajkumar	S. Rajkumar
38	912514114048	RAMJIPANDIAN .K	K. Ramji	K. Ramji	K. Ramji	K. Ramji	K. Ramji	K. Ramji	K. Ramji	K. Ramji
39	912514114049	RANJITHRAJA .C	C. Ranjith	C. Ranjith	C. Ranjith	C. Ranjith	C. Ranjith	C. Ranjith	C. Ranjith	C. Ranjith
40	912514114051	SANTHOSHKUMAR .R	R. Santhos	R. Santhos	R. Santhos	R. Santhos	R. Santhos	R. Santhos	R. Santhos	R. Santhos
41	912514114052	SANTHOSHKUMAR .KR	K.R. Santhos	K.R. Santhos	K.R. Santhos	K.R. Santhos	K.R. Santhos	K.R. Santhos	K.R. Santhos	K.R. Santhos
42	912514114053	SARAVANAKUMAR .R	R. Saravan	R. Saravan	R. Saravan	R. Saravan	R. Saravan	R. Saravan	R. Saravan	R. Saravan
43	912514114054	SARAVANAN .K	K. Saravan	K. Saravan	K. Saravan	K. Saravan	K. Saravan	K. Saravan	K. Saravan	K. Saravan
44	912514114055	SARAVANAN .V	V. Saravan	V. Saravan	V. Saravan	V. Saravan	V. Saravan	V. Saravan	V. Saravan	V. Saravan
45	912514114056	SATHISHKUMAR .R	R. Sathish	R. Sathish	R. Sathish	R. Sathish	R. Sathish	R. Sathish	R. Sathish	R. Sathish
46	912514114057	SELVAKUMAR .P	P. Selvak	P. Selvak	P. Selvak	P. Selvak	P. Selvak	P. Selvak	P. Selvak	P. Selvak
47	912514114060	SETHUPATHI .S	S. Sethup	S. Sethup	S. Sethup	S. Sethup	S. Sethup	S. Sethup	S. Sethup	S. Sethup



No	Reg.no	Name	26.12		27.12		28.12		29.12	
			F.N	A.N	F.N	A.N	F.N	A.N	F.N	A.N
48	912514114061	SIVAPRAKASH .K	K.P	K.P	K.P	K.P	K.P	K.P	K.P	K.P
49	912514114062	SUNDARESH WARAN .S	AB	AB	AB	AB	AB	AB	AB	AB
50	912514114063	SURJITH .R	S.R	S.R	S.R	S.R	S.R	S.R	S.R	S.R
51	912514114064	SYEDABTHAHIR .M	M.A	M.A	M.A	M.A	M.A	M.A	M.A	M.A
52	912514114065	THANGADURAI .T	T.Th	T.Th	T.Th	T.Th	T.Th	T.Th	T.Th	T.Th
53	912514114067	VADIVELAN .R	V.R	V.R	V.R	V.R	V.R	V.R	V.R	V.R
54	912514114068	VASANTH .M	M.V	M.V	M.V	M.V	M.V	M.V	M.V	M.V
55	912514114070	VIGNESH .S	S.V	S.V	S.V	S.V	S.V	S.V	S.V	S.V
56	912514114071	VIJAY .S	V.S	V.S	V.S	V.S	V.S	V.S	V.S	V.S
57	912514114072	VIMAL .R	R.V	R.V	R.V	R.V	R.V	R.V	R.V	R.V
58	912514114074	VIVEK R	V.V	V.V	V.V	V.V	V.V	V.V	V.V	V.V
59	912514114301	BALASUBRAMANIAN .M	AB	AB	AB	AB	AB	AB	AB	AB
60	912514114302	KATHIRAVAN	V.K	V.K	V.K	V.K	V.K	V.K	V.K	V.K
61	912514114303	MANIMARAN V	V.M	V.M	V.M	V.M	V.M	V.M	V.M	V.M
62	912514114305	SABEER ALI A	A.S	A.S	A.S	A.S	A.S	A.S	A.S	A.S
63	912514114306	SANTHOSH KUMAR D	D.S	D.S	D.S	D.S	D.S	D.S	D.S	D.S
64	912514114307	SIVASANGARAN S	S.S	S.S	S.S	S.S	S.S	S.S	S.S	S.S
65	912514114308	UDAYAKUMAR R	R.U	R.U	R.U	R.U	R.U	R.U	R.U	R.U
66	912514114309	VINGOTH K	K.V	K.V	K.V	K.V	K.V	K.V	K.V	K.V
67	912514114401	PRABAKARAN F	F.P	F.P	F.P	F.P	F.P	F.P	F.P	F.P
68	912514114502	ASHOK KUMAR	A.K	A.K	A.K	A.K	A.K	A.K	A.K	A.K
69	912514114504	SELVENTHIRAN	S.S	S.S	S.S	S.S	S.S	S.S	S.S	S.S
70	912514114505	AJITH.N	A.N	A.N	A.N	A.N	A.N	A.N	A.N	A.N
71	912514114506	JOHN BROTTTO .J	J.B	J.B	J.B	J.B	J.B	J.B	J.B	J.B
72	912514114509	M.SARAVANAKUMAR	M.S	M.S	M.S	M.S	M.S	M.S	M.S	M.S

Total : 72
Present : 56
Absence : 16



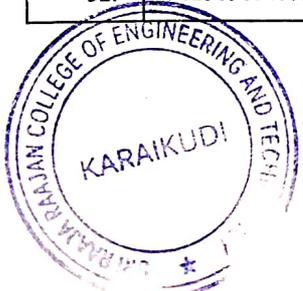
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DEPARTMENT OF MECHANICAL ENGINEERING - III Year-BIVSEM

ILFS ATTENDANCE REGISTER

S.NO	REG NO	NAME	27.12.17		28.12.17		29.12.17	
			FN	AN	FN	AN	FN	AN
1.	912515114041	MOHANKUMAR.S	S.M.K	S.M.K	S.M.K	S.M.K	S.M.K	S.M.K
2.	912515114042	MUGESHKANNAN.G	AB	AB	G.M	G.M	G.M	G.M
3.	912515114043	MUKILA	Mukil	Mukil	Mukil	Mukil	Mukil	Mukil
4.	912515114045	MUTHUKRISHNAN.M	M.K	M.K	M.K	M.K	M.K	M.K
5.	912515114046	MUTHUMANICKAM.R	M.K	M.K	M.K	M.K	M.K	M.K
6.	912515114047	NADIMUTHU.M	N.M	N.M	N.M	N.M	N.M	N.M
7.	912515114048	NAVARASU.M	N.V	N.V	N.V	N.V	N.V	N.V
8.	912515114049	NAVEENKUMAR.A	N.V	N.V	N.V	N.V	N.V	N.V
9.	912515114050	PALANISAMY.N	N.P	N.P	N.P	N.P	N.P	N.P
10.	912515114051	PONPRASATH.A	P.P	P.P	P.P	P.P	P.P	P.P
11.	912515114052	PRAGADEESWARAN.M	P.R	P.R	P.R	P.R	P.R	AB
12.	912515114053	PRAVEEN.R	P.R	P.R	P.R	P.R	P.R	AS
13.	912515114054	PRAVEENKUMAR.S	P.S	P.S	P.S	P.S	P.S	P.S
14.	912515114055	PREMKUMAR.S	P.S	P.S	P.S	P.S	P.S	P.S
15.	912515114056	RAGUL.V	V.R	V.R	V.R	V.R	V.R	V.R
16.	912515114057	RAMASAMY.M	M.R	M.R	M.R	M.R	M.R	M.R
17.	912515114058	RANJITH.B	R.B	R.B	R.B	R.B	R.B	R.B
18.	912515114059	RAVIKUMAR.A	R.A	R.A	R.A	R.A	R.A	R.A
19.	912515114060	SASIKUMAR.S	S.S	S.S	S.S	S.S	S.S	S.S
20.	912515114061	SATHISHKUMAR.S	S.S	S.S	S.S	S.S	AB	AB
21.	912515114062	SETHU.T	T.S	T.S	T.S	T.S	T.S	T.S
22.	912515114063	STEPHEN.N	N.S	N.S	N.S	N.S	N.S	N.S
23.	912515114065	SURYASANKAR.M	M.S	M.S	M.S	M.S	M.S	M.S
24.	912515114066	UTHAYAKUMAR.P	P.U	P.U	P.U	P.U	P.U	P.U
25.	912515114067	VANMIKANATHAN.A	A.V	A.V	A.V	A.V	A.V	A.V
26.	912515114068	VASANTHAKUMAR.T	T.V	T.V	T.V	T.V	T.V	T.V
27.	912515114069	VEEKAMANI.A	A.V	A.V	A.V	A.V	A.V	A.V
28.	912515114070	VENKATESH.V	V.V	V.V	V.V	V.V	V.V	V.V
29.	912515114072	VIJAYANANTH.R	R.V	R.V	R.V	R.V	R.V	R.V
30.	912515114073	VIJAYARAJ.S	S.V	S.V	S.V	S.V	S.V	S.V
31.	912515114074	VINOTHKUMAR.K	K.V	K.V	K.V	K.V	K.V	K.V
32.	912515114075	YOKESH.K	K.V	K.V	K.V	K.V	K.V	K.V





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AMARAVATHIPUDUR, KARAİKUDI
DEPARTMENT OF MECHANICAL ENGINEERING - II Year-B/IV SEM**

ILFS ATTENDANCE REGISTER

33.	912515114315	VIKRAM.S	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
34.	912515114312	SELVA KUMAR.K	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
35.	912515114311	SATHISH KUMAR.S	AB	AB	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
36.	912515114701	MARIYA IMANUVEL.P	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
37.	912515114303	MAHALINGAM.A	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
38.	912515114314	THANGAM.V	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
39.	912515114309	RANJITH.M	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>



Class Coordinator

HOD

[Signature]

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Sri Raaja Raajan College of Engg. & Tech
Amaravathipudur, Karaikudi - 630 301
Sivagangai Dist. Tamil Nadu



SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
AMARAVATHIPUDUR, KARAİKUDI
DEPARTMENT OF MECHANICAL ENGINEERING - III Year-A/IV SEM

ILFS ATTENDANCE REGISTER

S.NO	REG NO	NAME	27.12.17		28.12.17		29.12.17	
			FN	AN	FN	AN	FN	AN
1.	912515114001	ABDULAZIS.N						
2.	912515114002	ABDULHAKKIM.J						
3.	912515114004	AJITHKUMAR.G						
4.	912515114005	AJITHKUMAR.K						
5.	912515114007	AJITHKUMAR.R						
6.	912515114009	AJITHKUMAR.R						
7.	912515114010	ARJUNAN.M						
8.	912515114011	ARUNACHALAM.M						
9.	912515114012	ARUNKUMAR.D						
10.	912515114013	ATHISHANKAR.A						
11.	912515114014	AYYAPAN.P						
12.	912515114015	BABU.S						
13.	912515114016	BANDHALAN.K						
14.	912515114017	DINESH.A						
15.	912515114018	DURAI PANDE.M						
16.	912515114019	GOKULAKANNAN.R						
17.	912515114021	HARIHARAN.E						
18.	912515114022	IYAPPAN.M						
19.	912515114024	JEGANATHAN.S						
20.	912515114025	KALAILINGAM.K						
21.	912515114026	KALEESHWARAN.M						
22.	912515114027	KALEESHWARAN.N						
23.	912515114028	KALEESWARAN.P						
24.	912515114029	KARTHIK.R						
25.	912515114030	KARTHIK.N						
26.	912515114033	LOGESHKUMAR.R						
27.	912515114034	MATHAVAN.A						
28.	912515114035	MANIKANDAN.A						
29.	912515114036	MANIKANDAN.K						
30.	912515114037	MANIKANDAN.N						
31.	912515114038	MANIKANDAN.R						
32.	912515114039	MANIMARAN.N						
	912515114040	MANNIVANNAN.K						





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DEPARTMENT OF MECHANICAL ENGINEERING - III Year-A/IV SEM

ILFS ATTENDANCE REGISTER

Sl. No.	Roll No.	Name	F.N		A.N		F.N		A.N	
			1	2	1	2	1	2	1	2
34.	912515114307	PRAKASH.P	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash
35.	912515114304	MUTHAMILAN.V	V.Muthu	V.Muthu	V.Muthu	V.Muthu	V.Muthu	V.Muthu	V.Muthu	V.Muthu
36.	912515114305	MUTHU KUMAR.S	S.Muthu	S.Muthu	S.Muthu	S.Muthu	S.Muthu	S.Muthu	S.Muthu	S.Muthu
37.	912515114306	PARTHIBAN.B	B.Parthi	B.Parthi	B.Parthi	B.Parthi	B.Parthi	B.Parthi	B.Parthi	B.Parthi
38.	912515114316	VINITH KUMAR.S	S.Vinith	S.Vinith	S.Vinith	S.Vinith	S.Vinith	S.Vinith	S.Vinith	S.Vinith
39.	912515114310	SANTHOSH.R	R.Santho	R.Santho	R.Santho	R.Santho	R.Santho	R.Santho	R.Santho	R.Santho



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**SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND
TECHNOLOGY**

Amaravathiputhur, Karaikudi – 630 301,

DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year-2017-2018

Skill development course- IL&FS(CNC operator and SMAW)

Assessment Procedure for Certificate course, Skill Development course and Add-on-course:

For Theory Course:

- Set the multiple-choice question paper (MCQ) or theory questions (2marks & 10 marks) to the prescribed given syllabus.
- Time limit for the examination is depended upon the question paper.
- Secured marks for theory course is added to the practical course marks.

For Practical Course:

- Set the list of experiments in a question paper to the prescribed given syllabus.
- The students to do the experiments to the given schedule.

Finally add both theory and practical marks scored by the student is printed in the grade sheet.

Assessment outline:

Course type	Paper Title	Theory	Practical	Total
Skill development course	IL&FS(CNC operator and SMAW)	20	80	100



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AMARAVATHIPUDUR, KARAIKUDI- 630 301. SIVAGANGAI DIST.

CONTINUING EDUCATION PROGRAMME

Certificate of Achievement

Awarded to Selvan. M. Muthukrishnan

in recognition of having successfully completed a course on

CNC- OPERATOR

from 26.12.2017 to 29.12.2017

Conducted at

CONTINUING EDUCATION CENTRE

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Date : 29.12.2017

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G. Gubera Muthu
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Certificate of Achievement

Awarded to Selvan. S. JEGANATHAN (912515114024)

in recognition of having successfully completed a course on

CNC - OPERATOR

from 26.12.2017 to 29.12.2017

Conducted at

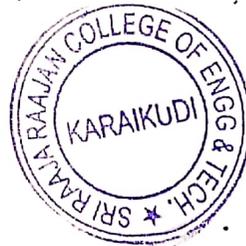
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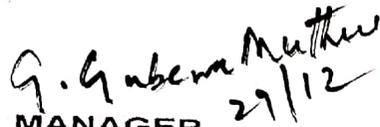
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CONTINUING EDUCATION PROGRAMME

Certificate of Achievement

Awarded to Selvan. K. Vinoth Kumar

in recognition of having successfully completed a course on

CNC - OPERATOR

from 26.12.2017 to 29.12.2017

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Date: 29.12.2017

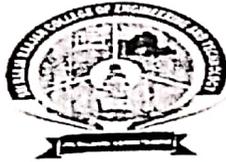

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CONTINUING EDUCATION PROGRAMME

Certificate of Achievement

Awarded to Selvan. M. Karunagaran

in recognition of having successfully completed a course on

SMAW

from 26.12.2017 to 29.12.2017

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Awarded to Selvan. V. Manimaran

in recognition of having successfully completed a course on

SMAN

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Date: 29.12.2017


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MANAGER
CON-EDU. 29/12


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Principal
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CONTINUING EDUCATION PROGRAMME

Certificate of Achievement

Awarded to Selvan. K. Ramji Pandian.

in recognition of having successfully completed a course on

SMAN

from 26.12.2017 to 29.12.2017

Conducted at

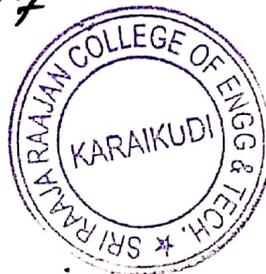
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Date: 29.12.2017


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