



JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE
DEPARTMENT OF MECHANICAL ENGINEERING

E-Vehicles & Automation (EVA)



JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

E-Vehicle and Automation (EVA)


PRINCIPAL
Jaipur Engineering College &
Research Centre
Tonk Road, Jaipur-302022



JECRC Foundation
www.jecrcfoundation.com

Jaipur Engineering College and Research Centre

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JECRC Campus, Shri Ram Ki Nangal,

Via Sitapura RIICO, Opp. EPIP Gate, Tonk Road, Jaipur 302 022

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(A) Research facility (E-Vehicles & Automation)

The COE in E-Vehicles & Automation (COE-EVA) at Jaipur Engineering College & Research Centre, Jaipur aims to be a solution provider to the challenges being faced by E-vehicle industry in India and world at large. To the best of our knowledge, this centre is the first of its kind under the aegis of Rajasthan Technical University, Kota that is focused primarily on E-Vehicles and Automation. COE-EVA dedicates its efforts to provide trained manpower for E-vehicle industry and also aims to develop solutions to India-specific problems of the industry using automation tools like Artificial Intelligence Big Data and Machine Learning. The center realizes that automation in E-vehicles is a field which is still maturing and has lots of potential for research that can benefit the industry. COE-EVA is focused on developing skills and concepts central to the successful adoption of E-vehicles as the primary mode of road transportation.

COE-EVA works on enhancing the technical skill of the participants by providing them opportunities to do hands-on work on E-vehicles and its components. The participants are encouraged to apply automation tools to increase efficiency and performance of these vehicles. Working in close partnership with industries that are engaged in these two areas, COE-EVA has procured multiple training kits that expose students to basic fundamentals of E-vehicles and automation. The centre is equipped with the latest hardware and software (list enclosed) that is currently being used in industries for analysis, design and improvement in performance of E-Vehicles. The facilities provided by COE-EVA for trainees to apply their knowledge for modifying/building their own E-vehicles are state of the art and second to none. The centre engages well qualified faculty and industry professionals who are actively engaged in the area of E-Vehicles and automation.

JECRC foundation and COE-EVA have already conducted numerous off-line and online training programs that have received positive response from the participants (detailed reports enclosed as Annexure # 7.). The centre is spread into approximately 2300 square feet built up area which houses dedicated facilities for hands-on training on E-vehicle and automation as well as fabrication/modification of E-Vehicles. As part of its infrastructure, the centre boasts of multiple two-wheelers that have been used for training students on modification of conventional two wheelers into E-vehicles. The centre also has a Mercedes Benz car that exposes trainees to different sub-systems (e.g. engine, transmission, wheel assembly, steering system, suspension) of four-wheelers and their



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working. This know-how of real world technology helps trainees to generate practical solutions in the field of E-vehicles and automation that can be readily applied to industry. Additionally, COE-EVA also has multiple engines and transmissions system and their sub components of two-wheelers, four wheelers and commercial vehicles. The training provided on these real world equipments helps students to increase efficiency of existing IC Engine based vehicles as well.

Utilizing the knowledge gained during multiple trainings at COEEVA, some trainees, who are also students of Jaipur Engineering College & Research Centre affiliated to Rajasthan Technical University (RTU) Kota, are already working on developing an electric two-wheeler by modifying a conventional two-wheeler. The trainees are also working on development of an electric Go-Kart under the guidance and supervision of trainers engaged with COE-EVA. As part of training on automation, CEO-EVA provides software training to participants so that they are able to apply automation concepts on issues related to vehicle autonomous control, wireless charging of electric vehicles (dynamic charging on the road), user and traveler behaviour, modelling of smart grids, energy demand scenarios for EVs and consumer barriers and incentives. As per Bureau of Energy Efficiency (BEE), Ministry of Power, GoI; designated as the nodal agency for E-vehicle related charging infrastructure, some of the key challenges facing E-vehicles are range of such vehicles, efficient use of battery power, waiting time during battery charging and recycling and safe disposal of components.

The training provided in automation by COE-EVA will definitely help in developing solutions to these barriers in Evehicle adaptation in India. The predictive maintenance of battery packs using Data science, AI, and big data tools helps in achieving high battery efficiency and operational reliability. Blending advanced electronics training with IoT, data science and Machine Learning; data gathered during E-vehicle operation can be utilized to predict battery life, identify potential degradation/breakdown and their causes, number of charge cycles remaining and fix delays/errors even before they arise. The COE-EVA will also help trainees find meaning placement and fulfilling carrier in one of the most fast developing industry sector. As already stated, this industry is attracting lots of investment from Central and State Governments as well as automobile giants. This is expected to generate a lot of job-opportunities for the youth of the country. But a major problem faced by today's engineers is that they have all the theoretical knowledge but unable to apply that knowledge to solve challenges being faced by the industry. Many a times, they are working on outdated technologies and totally unaware of the latest tools



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being used in industry. Employers are also skeptical of dated paper certificates, and they generally ask potential recruits to demonstrate their hands on skills before hiring them. At COE-EVA, emphasis is given to practical knowledge and trainees are encouraged to work on latest systems and 'get their hands dirty'. This hands-on training, provided at the centre, helps solve the problem of 'bookish knowledge only' and give its trainees a leg-up over the competition. COE-EVA empowers students to develop skills that which will be appreciated by employers. In summary, COE-EVA will help to improve skills and competitiveness of the students of affiliated colleges of Rajasthan Technical University (RTU), Kota and other trainees in the area of E-vehicles. The centre aims to promote innovative solutions in the field of automation and transfer these innovations in the form of start-ups into the social and economic environment to meet the requirements of the modern era.

(B) List of Equipments with service cost

S.No.	Name	Items Description	Qty	Price/Unit	Total
1	Hero Electric Vehicle	Electric Vehicle	1	45000	45000
2	Working Electric Vehicle	Electric Vehicle	1	55000	55000
3	Digital Multimeter	750 Volts	1	250	250
4	Controllers for 2 wheeler	ECU	1	12200	12200
5	Battery Charger -12 Volts	12 Volts	1	3800	3800
6	Battery Charger - 48 volts	48 volts	1	8500	8500
7	DC – DC Convertor for 2 wheeler		1	12000	12000
8	Tachometers for Motor Testing - 2 Sets	Motor Tester	2	7600	15200
9	Two Wheeler Wiring set with indicators	Two / Four wheeler	1	2750	2750
10	Four Wheeler Car Section	Working car for practical or scanning purpose	1	8 Lakh	8 Lakh
11	Four Wheeler Engine Section	Automatic Transmission	1	90000	90000



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12	Four Wheeler Engine Section	Four cylinder Petrol engine	1	1.25 Lakh	1.25 Lakh
13	Four Wheeler Engine Section	Four cylinder diesel engine	1	1.5 Lakh	1.5 Lakh
14	Four Wheeler Engine Section	Four cylinder diesel engine	1	1.2 Lakh	1.2 Lakh
15	Four Wheeler Transmission Section	Rear Wheel Drive Manual transmission	1	75000	75000
16	Four Wheeler Transmission Section	Front Wheel Drive Manual transmission	1	75000	75000
17	Four Wheeler Transmission Section	Front Wheel Drive Manual transmission	1	75000	75000
18	Four Wheeler Transmission Section	Manual transmission	1	75000	75000
19	Four Wheeler Transmission Section	Front wheel Drive Manual transmission	1	1 Lakh	1 Lakh
20	Four Wheeler auxiliaries system section	Car engine self starter motor for engine starting	1	75000	75000
21	Four Wheeler auxiliaries system section	Carburetor systems	1	50000	50000
22	Two Wheeler	180 CC engine	1	18000	18000
23	Two Wheeler	160 CC engine	1	15000	15000
24	Two Wheeler	110 CC engine	1	15000	15000
25	Two Wheeler	100 CC engine	1	10000	10000
26	Two Wheeler	125 CC engine	1	15000	15000
27	Two Wheeler	110 CC engine	1	18000	18000
28	Two Wheeler	175 CC Two Stroke engine	1	9500	9500
29	Two Wheeler	125 CC engine	1	9500	9500
30	Two Wheeler	100 CC engine	1	10000	10000
31	Two Wheeler	125 CC engine	1	12000	12000
32	Two Wheeler	150 CC engine	1	12000	12000
33	Two Wheeler	100 CC Two	1	9500	9500



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		Stroke engine			
34	Two Wheeler	125 CC engine	1	12000	12000
35	Two Wheeler	2-Wheeler for electric working	1	35000	35000
36	Power Steering Pump	Four Wheeler	1	6500	6500
37	Turbo Charger	Four Wheeler	1	4300	4300
38	AC Four Wheeler Compressor	Four Wheeler	1	3500	3500
39	Power Brake Booster	Four Wheeler	1	3500	3500
40	TIG Welding Set	200 amps	1	60000	60000
41	MIG/MAG Welding Set	200 amps	1	20000	20000
42	Hand Grinder	Electric	1	1750	1750
43	Hammer	500 gm	1	140	140
44	Hammer	1 kg.	1	310	310
45	Hand Drill Machine	Electric	1	2200	2200
46	Screw Driver Set		1	450	450
47	Circilp Plier		1	170	170
48	Adjustable Wrench	32 mm	1	400	400
49	Sheet Cutter		1	250	250
50	Allen Key Set		1	350	350
51	T-Tommy	10,11,13 no.	3 Nos.	341	341
52	Pliar		1	210	210
53	T- Spanner Set		1	470	470
54	U - Spanner Set		1	495	495
55	Ring - Spanner Set	6x7 - 30x32	1	813	813
56	Double Ended Spanner Set		1	411	411
57	Bench Vice - 4 Set	5" Jaw Size	4	13920	13920
58	Pillar Drill Machine	1/2"	1	11700	11700
59	Power Press	3 METRIC TON	1	7700	7700
60	Tong	12"	1	200	200
61	Chipping Hammer	12"	1	150	150



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(c) Geo Tagged Photos of Equipments



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Latitude: 26.781794
Longitude: 75.820663
Elevation: 366.96±3 m
Accuracy: 35.2 m
Time: 28-11-2022 12:20
Note: Jaipur Engineering College and Research Center

Powered by NoteCam



Latitude: 26.781421
Longitude: 75.820962
Elevation: 366.96±4 m
Accuracy: 52.4 m
Time: 28-11-2022 12:20
Note: Jaipur Engineering College and Research Center

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Latitude: 26.781421
Longitude: 75.820962
Elevation: 366.96±4 m
Accuracy: 52.4 m
Time: 28-11-2022 12:19
Note: Jaipur Engineering College and Research Center

Powered by NoteCam



Latitude: 26.781426
Longitude: 75.82088
Elevation: 366.96±6 m
Accuracy: 36.9 m
Time: 28-11-2022 12:26
Note: Jaipur Engineering College and Research Center

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Latitude: 26.781425
Longitude: 75.820881
Elevation: 366.96+6 m
Accuracy: 36.9 m
Time: 28-11-2022 12:26
Note: Jaipur Engineering College and Research Center

Powered by NoteCam



Latitude: 26.781368
Longitude: 75.820953
Elevation: 366.96+4 m
Accuracy: 52.4 m
Time: 28-11-2022 12:19
Note: Jaipur Engineering College and Research Center

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Latitude: 26.781809
Longitude: 75.821467
Elevation: 366.96±2 m
Accuracy: 24.8 m
Time: 28-11-2022 12:27
Note: Jaipur Engineering College and Research Center

Powered by NoteCam



Latitude: 26.781432
Longitude: 75.820964
Elevation: 366.96±4 m
Accuracy: 52.4 m
Time: 28-11-2022 12:19
Note: Jaipur Engineering College and Research Center

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Latitude: 26.781425
Longitude: 75.820881
Elevation: 366.96±6 m
Accuracy: 36.9 m
Time: 28-11-2022 12:26
Note: Jaipur Engineering College and Research Centre

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Latitude: 26.78102
Longitude: 75.820892
Elevation: 366.96±4 m
Accuracy: 100.0 m
Time: 28-11-2022 12:19
Note: Jaipur Engineering College and Research Center

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Latitude: 26.78143
Longitude: 75.820964
Elevation: 366.96±4 m
Accuracy: 52.4 m
Time: 28-11-2022 12:19
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(d) Stock Register Details

<h1>Stock Register</h1>						
Name of Article नाम सामग्री			HSN Code			
Month & Date महीना व दिनांक	PARTICULARS विवरण	Voucher or Invoice No. वाउचर / बीजक संख्या	Receipt प्राप्ति	Issue निर्गमित	Balance शेष	Remarks टिप्पणी
11/4/20	Hero Electric Vehicle		01			
11/4/20	Working Electric Vehicle		01			
11/4/20	Vehicle BLDC Motors for 2 wheeler-		01			
11/2/20	Lead Acid Battery Packs for 2 wheeler					
11/2/20	Battery Load Tester for E-vehicle Battery Capacity					
11/1/20	Motor Controllers for 4-wheeler		01			

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नाम सामग्री _____

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11/7/20	DC-DC Converter for 4-wheeler		01			
11/7/20	Tachometer for 4 wheeler Motor Testing		02			
11/7/20	Hydrometer for Battery Gravity Testing		01			
11/7/20	2 Wheeler Wiring set with headlight brakes, indicators horn sets		01			
11/7/20	Four Wheeler Car MERCEDES BENZ		01			
11/7/20	V-6 Twin turbocharged		01			

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11/2/20	Four Wheeler Engine Section (Automatic Transmission)		01			
11/2/20	Four cylinder diesel Engine (Maruti)		01			
11/2/20	Four Cylinder diesel engine (TATA Safari)		01			
11/2/20	Four cylinder diesel engine (TATA Indigo)		01			
11/2/20	Four Cylinder diesel engine (Honda City)		01			
11/2/20	Four Wheeler Transmission Section (5 speed manual transmission)		01			

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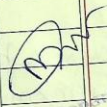
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11/1/20	Four wheeler Transmission Section (four wheel Drive Manual transmission Honda)		01			
11/2	Four wheeler steering system with Rack & pinion Arrangement		01			
11/2	Four wheeler Power steering system with Rack & pinion Arrangement		01			
11/2	Four wheeler Differential system section		01			
11/2	Four wheeler Breaking & suspension system		01			


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नाम सामग्री

Month & Date माहीना व दिनांक	PARTICULARS विवरण	Voucher or Invoice No. वाचर / बीजक संख्या	Receipt प्राप्ति	Issue निर्गमित	Balance शेष	Remarks टिप्पणी
11/2020	Four wheeler Braking & suspension system (Brake Vacuum booster)		01			11/20
11/2020	Four wheeler Air Bag & other Auxiliary system (Air filter unit)		01			11/20
11/2020	2-wheeler 220cc Bajaj Pulsar engine		01			11/20
11/2020	2-wheeler 180 cc engine TVS Apache		01			11/20
11/2020	2-wheeler 125cc Engine LML Freedom		01			11/20

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11/1/20	2-Wheelers Eltemo engine (Honda)		01		
11/2/20	2-Wheelers 150cc engine (Tvs Vector)		01		
11/3/20	2-Wheelers 110cc engine (Honda)		01		
11/4/20	2-Wheelers 125cc engine (Honda)		01		
11/5/20	2-Wheelers (150cc engine bajaj discovers)		01		
11/6/20	Two Wheelers Two Stroke engine (Raydoot)		01		

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	TIG WELDING SET (200 Amps)		01			RECEIVED FRSM MECHANICAL ENGINEERING DEPT.
	MIG/MAG WELDING SET (200 Amps)		01			}
	ARC WELDING SET (300 Amps)		01			
	HAND GRINDER (BOSCH)		01			
	HAMMER 500 gm		01			
	HAMMER 1 kg		01			
	HAND DRILL MACHINE (BOSCH)		01			
	SCREW DRIVER SET (VENUS)		01			

[Signature]
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[Signature]



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11/11/2020	Circle Plier (Venus)		01			
11/11/2020	Adjustable Wrench (32mm)		01			
11/11/2020	Sheet cutter		01			
11/11/2020	Allen key set		01			
11/11/2020	T-Tommy (10,11,13 mm)		01			
11/11/2020	Pilar (Tapar)		01			
11/11/2020	T-Spanner set		01			
11/11/2020	U-Spanner set		01			

RECEIVED FROM SUBJECT DEPT

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**JAIPUR ENGINEERING COLLEGE
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Month & Date माहिना व दिनांक	PARTICULARS विवरण	Voucher or Invoice No. वाच्यर / बीजक संख्या	Receipt प्राप्ति	Issue निर्गमित	Balance शेष	Remarks टिप्पणी
	Ring-Spanner Set		01			RECEIVED FROM MACH. ENGR. DEPT.
	Double Endleaf Spanner set		01			
	Bench vice		04			
	Pillar Drill Machine		01			
	Lathe machine		01			
	Radial drilling machine		01			
	Capstan lathe machine		01			

Head of the Department
Mechanical Engineering
JECRC, Jaipur

Ran
CL



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	Multi Stage Air Compressors		01			RECORDED IN BK - ENX-1007
	Power Press		01			
	Tong		01			
	Chipping Hammer		01			
	ew (Tech. Mechanical)					
	M. Gupta (M. Engg. Gupta)					
	Latit (Latit K. Sharma)					
	Head of the Department Mechanical Engineering JECRC, Jaipur					



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