



Brochure for EEE_Technical class 4



One Day Workshop on
E-Vehicles: Design Concepts to Industrial Products
22 April 2022

Electric Vehicles (EVs) are more energy efficient and pollution less. Various alternate powertrain technologies are available today such as Hybrid Electric Vehicle, Plug-in Hybrid Electric Vehicle, Battery Electric Vehicle, etc. The total global demand of electric vehicle is expected to rise at a Compound Annual Growth Rate (CAGR) of 18-30% in coming decade. A comprehensive workshop is essential for discussing the issues related to deployment of EVs and its associated technologies.

About the Workshop:
EVCIP-2022 will cover a range of topic related to smart electric vehicles. The Following topics will be covered by the distinguished speakers:

- E-Vehicles @ CUTM - A Passionate Journey
- Lightweight E-Vehicles - Design Challenges
- E-Vehicles for Autonomy
- Exciting Times for Engineers - Electric Vehicles
- Overview of Vehicle Dynamics and Control
- Simulation for Electric Vehicle Ecosystem

About CUTM:
Centurion University has both built and participated in building eco-systems that include and integrate the community around it's campuses and beyond, industry, entrepreneurs and other education institutions. Its education and training delivery approach is:

- Skill Integrated and Employability Linked Teaching/Learning Process
- Focuses/Leverages Industry and Community Partnerships
- Creates/co-creates Enterprises

Distinguished Speakers:

| | | | | |
|--|--|---|---|---|
|  Mr. S.A. Sundaresan Ashok Leyland, Chennai |  Prof. D.N. Rao, VP, CUTM |  Prof. Anindya Deb, IISc Bangalore |  Mr. Saurabh Chandra, Ati Motors, Bangalore |  Prof. Shankar Ram, IIT Madras |
|--|--|---|---|---|

Organizers:
Prof. Radhakant Padhi, Honorary Provost, CUTM
Prof. Sudhansu Kumar Samal, HoD, EEE, CUTM
Prof. Ramesh Chandra Mohanty, ME, CUTM

Contact Details:
E-Mail: sudhansu.samal@cutm.ac.in
Mobile: 9778118876
University Website: www.cutm.ac.in

centurion university of technology and management
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Attendance for EEE_Technical class 4(22nd April)

| Sl.No. | Name of Students | Students Reg No. | Date |
|--------|----------------------------|------------------|----------|
| | | | 28th Nov |
| 1 | SWATI RITUPARNA | 190705170001 | P |
| 2 | SWORNA PRAVA BISWAL | 190705170002 | P |
| 3 | SASMITA SAMAL | 190705170003 | P |
| 4 | HARIPRIYA DEHURY | 190705170004 | P |
| 5 | SARBESWAR BEHERA | 190705170005 | P |
| 6 | PRIYANKA PRIYADARSANI PATI | 190705170006 | P |
| 7 | MONALISHA KAR | 190705170007 | P |
| 8 | TARASANKAR PATTANAIK | 190705170008 | P |
| 9 | TWINKLE PRADHAN | 190705170009 | P |
| 10 | SWATI SUMIT ROUT | 190705170010 | P |
| 11 | ARPITA DASH | 190705170011 | P |
| 12 | BATYA BIJAYINI | 190705170012 | P |
| 13 | USHASHEE MANDAL | 190705170013 | P |
| 14 | SUTAPA SUDIPTI PRADHAN | 190705170014 | P |
| 15 | SOMANATH ROURAY | 190705170015 | P |
| 16 | SABHYATA SAMBIT SAMAL | 190705170016 | P |
| 17 | KRISHNA KUMARI JASHMUKH | 190705170017 | P |
| 18 | MANISHA DASH | 190705170018 | P |
| 19 | BHAGYALAXMI SWAIN | 190705170019 | P |
| 20 | SUSHREE LIPSA MEHER | 190705170020 | P |
| 21 | SARINA SENAPATI | 190705170022 | P |
| 22 | BHAGYAJYOTI BARAL | 190705170023 | P |
| 23 | SWATI SUCHARITA | 190705170024 | P |
| 24 | BAIJAYANTI PAIKARAY | 190705170025 | P |
| 25 | JAYANTI PAIKARAY | 190705170026 | P |
| 26 | SWATISOUMYA SAHOO | 190705170028 | P |

| | | | |
|----|-----------------------------------|--------------|---|
| 27 | SULAGNA SINGHDEO | 190705170029 | P |
| 28 | PRIYANKA PRIYADARSHINI PRADHAN | 190705170030 | P |
| 29 | SONALIKA DAS | 190705170031 | P |
| 30 | AMRITA GARNAYAK | 190705170032 | P |
| 31 | MOUSUMI TRIPATHY | 190705170033 | P |
| 32 | SHEETISWAPNA NAYAK | 190705170034 | P |
| 33 | PRATIBHA NAIK | 190705170035 | P |
| 34 | SUBHALAXMI CHOUDHURY | 190705170036 | P |
| 35 | DEVEESMITA NANDY | 190705170037 | P |
| 36 | UDIT NARAYAN BAIDYA | 190705170038 | P |
| 37 | NIRANJAN NAYAK | 190705170039 | P |
| 38 | LISHA RANI ROUT | 190705170040 | P |
| 39 | ANWESHA PANIGRAHI | 190705170041 | P |
| 40 | RAJALAXMI BAHINIPATI | 190705170042 | P |
| 41 | SONALI SUCHARITA JENA | 190705170043 | P |
| 42 | MONALISA DHALL | 190705170044 | P |
| 43 | SHRABANI SAPTASCHARYI | 190705170045 | P |
| 44 | ABHIPSA MISHRA | 190705170046 | P |
| 45 | SMRUTIREKHA DASH | 190705170047 | P |
| 46 | SANGEETA MOHAPATRA | 190705170048 | P |
| 47 | SWAGAT KUMAR MALLICK | 190705170049 | P |
| 48 | SONALI PANDA | 190705170050 | P |
| 49 | KRISHNAKAJAL ROUT | 190705170051 | P |
| 50 | KRISHNA PRIYADARSHINI | 190705170052 | P |
| 51 | ATISHA MOHAPATRA | 190705170053 | P |
| 52 | SAGAR KUMAR PANIGRAHI | 190705170054 | P |
| 53 | PRANGYA SAHOO | 190705170055 | P |
| 54 | JYOTIKIRAN RAY | 190705170056 | P |
| 55 | MONALISA PANDA | 190705170057 | P |
| 56 | SMARANIKA MOHAPATRA | 190705170058 | P |
| 57 | LIPSA DAS | 190705170059 | P |
| 58 | MEENAVALLI MURALI KRISHNA | 190705170060 | P |

| | | | |
|----|---------------------|--------------|---|
| 59 | BANDANA MISHRA | 190705170062 | P |
| 60 | UJJWAL NAIK | 190705170063 | P |
| 61 | NIKITA EKKA | 190705170064 | P |
| 62 | SULAGNA MOHANTY | 190705170065 | P |
| 63 | L STHITIPRANGYA | 190705170066 | P |
| 64 | SUCHISMITA SAHOO | 190705170067 | P |
| 65 | PRAJNYA PRABHA JENA | 190705170068 | P |
| 66 | SNIGDHA BEHERA | 190705170069 | P |
| 67 | MADHUSMITA NAIK | 190705170070 | P |
| 68 | SAMBIT BEHERA | 190705170071 | P |
| 69 | APARUPA DANTA | 190705170072 | P |
| 70 | PRIYANKA KAR | 190705170073 | P |
| 71 | SRADHA SUMAN NAYAK | 190705170074 | P |
| 72 | SAGARIKA BISWAL | 190705170075 | P |
| 73 | LOPAMUDRA HATI | 190705170076 | P |
| 74 | AMRITA PRITAM SAHOO | 190705170077 | P |
| 75 | RUTUPARNA BAG | 190705170078 | P |
| 76 | SHIBANI PRADHAN | 190705170079 | P |
| 77 | MAHIMA BEHURA | 190705170080 | P |




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Report for EEE_Technical class 4

Event Name:

**One Day workshop on E-Vehicles: Design Concepts
to Industrial Products-**

Year of Event:

22nd April 2022



Figure 1: 22.04.2022, EEE_Technical class 4

A One Day Workshop on E-Vehicles: Design Concepts to Industrial Products was organized by the **School of Engineering and Technology**, Centurion University of Technology and Management, Odisha on 22nd April 2022. The Program is inaugurated by the Honorary Provost Prof. Radhakant padhi followed by the Vice-chancellor, Prof. Supriya Pattnaiak, President, Centurion University, Prof. Mukti kanta Mishra, Hon'ble Chief Guest, Mr. T Sasikumar (VP-HR, Ashok Leyland) and Vice precedent, Prof. D.N. Rao.

In this Occasion **Prof. D.N. Rao** (Vice precedent, CUTM) shared his views on EV technology constraints in India. He also emphasises the make in India prospective of EV parts. He also mentioned, how from one from single EV by 2017, the Centurion University now become one of the leading E-Rickshaw Designer and Manufacturer in Odisha. We are now deal with Tata E-Rickshaw, OMFED as well as Outside India vendors. He also mentions how students can be involved to real- time product design in Centurion. Also, mentioned how **Dassault Systemes** Design Platform utilised in Centurion for development of EV prototypes. Also share his thoughts about ready to market and go to market by incubation of Academics with industry. His real aim is to make the centurion not only an academic centre but a real innovation hub with ideas. Speaker from **IISc, Bangalore**, Prof. **Anindya Deb** share his idea about

Lightweight E-Vehicles - Design Challenges. Speaker from

Industry (ATI Motors, Bengaluru) Mr. **Saurabh Chandra** share his product ideas on E-Vehicles for Autonomy for Autonomous vehicles and also demonstrate some live examples to the participants. Next, to him **Mr. S.A. Sundaresan (Ashok Leyland, Chennai)** explained about the statistical analysis of market for EV in India. and how the leading organizations works to achieve the target range on EV. Also discussed about the various aspects of EV designing from bottom to top approach. **Prof. Shankar Ram (IIT Madras, Chennai)** nicely explained about the control aspects of EV with details mathematical modelling. He also explained overall Vehicle Dynamics and Control of EV. Expert from **Dassault Systemes, Bangalore, Mr. Ranjit Gopi** explained about the Simulation environment available for EV designing with Detail Battery Design using Dassault Simulia and Dymola. **Prof. Radhakant Padhi** conveyed his final concluding remarks on Workshop. Professors and Students from Various campus (Bhubaneswar, Paralakhemundi and Vizag) attend this seminar at their campus. Participants from other university and Industries also attended this seminar in virtual mode. **Prof. Madhumita Das**, School of Management, hosted this event and **Prof. Radhakant padhi, Prof. Sudhansu Kumar Samal, HOD, EEE** and **Prof. Ramesh Chandra Mohanty, Professor, Mechanical** organized this event.

Name of Organizer with Details:

Name: Dr. Sudhansu Kumar Samal, HOD, EEE, CUTM, Odisha, India E-

Mail: sudhansu.samal@cutm.ac.in

Mobile: 9778118876

Dr. Ramesh Chandra Mohanty, ME,

CUTM

 

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