

## Objective of his Industrial SIP

This internship/ training program in association with Rishi Agastya Pvt.Ltd. is designed in accordance to the need of Undergraduate and Post Graduate Students of Electrical Engineering. Power electronics is the current technology in applications like Electric Vehicle (EV), Renewable energy conversion and also in day-to-day life activities. For an enthusiastic involvement of students in latest emerging trends of power electronics, a hands-on practice on various converters is essential. This internship program is designed for instilling technical skills in UG/PG students for facilitating a good career starts-up. The various aspects of power electronics such as the design of regulated/unregulated power supplies, gate driver circuits, and micro-scale converters for EV, renewable and other applications in general will be dealt in this SIP. Simulation and Hardware development are the key features of this internship. This internship anticipate that it not only builds the fundamental engineering concepts but also offer a very sound technical circuit development/analysis skill.

## Course Content

The course majorly contains the following:

- Hands-on practice of simulation software (e.g. MATLAB/PSIM)
- Basics designing of electrical vehicles.
- Programming of various controller (DSP/ AUDRINO etc.)
- Modelling and Simulation of Electric Vehicle Chargers.
- Designing & Fabrication of Power Supplies.
- Design and Fabrication of High Frequency converters.
- Hands-on practice of designing & fabrication of power electronic converters.

## Eligibility / Target Audience

This summer internship program targets UG, PG (Power System or Power Electronics) students and Faculty of Govt. / Govt. aided/self- financed engineering colleges who are interested in computer simulation, designing & fabrication of Power Electronic Circuits. All the undergraduate students who are appearing in the 4th and 6th semester examinations are eligible to apply.

## How to Apply / Register

|                           |                           |
|---------------------------|---------------------------|
| UG Students (EE/ EEE/ EC) | INR 11800                 |
| PG Students/PhD           | INR 14160                 |
| Faculty                   | INR 14160                 |
| Mode for Payment          | Demand Draft or NEFT/IMPS |

(Inclusive of 18% Goods and Service tax [GST])

- Demand Draft: “**Registrar (Industrial Consultancy Cell), MNIT Jaipur**” Payable at Jaipur
- NEFT/IMPS: **Registrar (ICC), MNIT Jaipur Account No. 676801081625 IFSC CODE: ICIC0006768 (ICICI BANK, MNIT)**

The applicants must register themselves [after fee submission] for Summer Internship Program on SEaSR lab website (link available below) latest by **30th April 2020**.

<https://sites.google.com/view/seasrslab>

Kindly read the instructions available on website carefully before registering.

Note: **The demand draft must be sent to the below mentioned address of communication through a reputed courier service only.** The selection is on “**first come first serve**” basis depending upon the availability of the seats. Registration fee is **non-refundable**.



SEaSR Lab., In-house Developed Prototype for EV

**Registration Form**  
Industrial  
Summer Internship Program  
on

*Design, Modelling & Implementation of Power Electronic Circuits for Electric Vehicle Designing and Renewable Energy Applications*

20th May – 5th July 2020  
EED, MNIT Jaipur – 302 017 Rajasthan

- Name:
- Category (UG/PG):
- Branch:
- Semester:
- Department:
- Institute:

Phone (M)..... (O).....

E-mail:.....@.....

Accommodation Required? YES / NO (Please tick)

Registration fee Details (Tick on applicable)

- Mode of Payment: DD IMPS/NEFT
- Transaction Reference No.
- Date
- Registration Amount

The payment has to be made to the “Registrar (industrial Consultancy Cell), MNIT Jaipur”

The above information provided is true and to the best of my knowledge. If, selected, I agree to abide by the rules and regulations of the program and MNIT Jaipur.

Date: \_\_\_\_\_ Signature of Candidate

The applicant will be permitted to participate in the above program, if selected.

Date: \_\_\_\_\_ Signature of HOD with Seal

## About MNIT Jaipur

Malviya National Institute of Technology Jaipur (Deemed University) is one of the premier NITs, designated with the status of "Institute of National Importance" by MHRD. The institute was established in 1963, and its campus spreads over 325 acres of lush green area in the central location of Jaipur city. The institute offers undergraduate and postgraduate courses (B.Tech., MTech./MBA/ M.Sc.& Ph.D.) to about 4500 students, in leading fields of engineering, technology, architecture, management & sciences. Through the internationally renowned faculty, laboratories with state of art equipment's and excellent infrastructure, the institute is actively engaged in research, consultancy and developmental activities, besides imparting regular teaching.

## Electrical Engineering Department

The Department is one of the oldest departments of the institute, offering a fine blend of experience and innovation in teaching. Presently, offering under-graduate and post-graduate studies in Electrical Engineering and Power Systems & Power Electronics Engineering, respectively. The department is home to over 35 research scholars, pursuing Ph.D. in varied fields of Electrical Engineering. The department provides a life-long learning experience, through its state of art laboratories, vast pool of courses, and industry-orientation. A strong collaborative framework with reputed universities in India and abroad, the department offers ample opportunities for individual growth.

## About Rishi Agastya Technologies Pvt.Ltd.

Rishi Agastya Technologies Pvt.Ltd. is a Research and Development Company in the sector of Electrical, Electronic, Renewable Energy and Electric Mobility. Rishi Agastya Technologies is most growing start-up in the vehicle technology of Electric Vehicles aimed to create a well skills and technology environment in India. Rishi Agastya Technologies has a proof of concept of several Electric Mobility and Electrical Equipment which fulfil the domain of Electrical, Electronic, Renewable Energy and Electric Mobility.

## Organizing Committee

### Patron

Prof. UdayKumar R Yaragatti, Director, MNIT-Jaipur

### Program Advisor

Prof. Rajesh Kumar, H.O.D, EED, MNIT-Jaipur

### Program Coordinators

Dr. Arun Kumar Verma, Assistant Professor, EED, MNIT-Jaipur

Dr. Sandeep N, Assistant Professor, EED, MNIT-Jaipur

Prof. H. P. Tiwari, Professor, EED, MNIT-Jaipur

### Accommodation

Limited accommodation is available in the MNIT Hostels for outstation participants on nominal charges on the first come first serve basis. The participants will not be paid any TA/DA. Charges of Institute Hostels are approximately **Rs. 200/-\*** per day for accommodation (Excluding food).

## Important Dates

Last date of receiving complete registration form:

**30th April 2020**

Confirmation of selection by E- mail:

**5th May 2020**

Internship Duration

**20th May 2020 to 5th July 2020 (45 Days)**

## Address for Communication

**Dr. Arun Kumar Verma / Dr. Sandeep N**

Assistant Professor

Department of Electrical Engineering,

Malviya National Institute of Technology,

J. L. N. Marg, Jaipur-302 017, Rajasthan

☎ +91-9588072153, +91-9540150864, +91-9711970193

✉ [seasrlab.eemnit@gmail.com](mailto:seasrlab.eemnit@gmail.com)

\*Accommodation rates are tentative and all right reserved by the hostel office MNIT Jaipur

*Industrial  
Summer Internship Program*

*With Aim*

*"Make India the Skill India"*

*On*

*Design, Modelling &  
Implementation of Power  
Electronic Circuits for Electric  
Vehicle Designing and  
Renewable Energy Applications*

*20th May to 5th July 2020*



*Organized By*

**Department of Electrical Engineering  
Malviya National Institute of Technology**

**Jaipur- 302 017 Rajasthan- India**

**[www.mnit.ac.in](http://www.mnit.ac.in)**