

# Empower Excel Elevate

## 10 Weeks Program in HYBRID ELECTRIC VEHICLE

Integrated with Top Experts with MNCs



## ABOUT US

An Idea of learning and upskilling every single day for the hope of a better tomorrow.

LearnFlu is nothing but an Idea. An Idea of learning and upskilling every single day for the hope of a better tomorrow. LearnFlu is also a disease, which every being alive wishes to have. A disease of learning something new and interesting for the growth they desire

## COURSE CURRICULUM

### Module 1: Introduction to Hybrid & Electric Vehicle

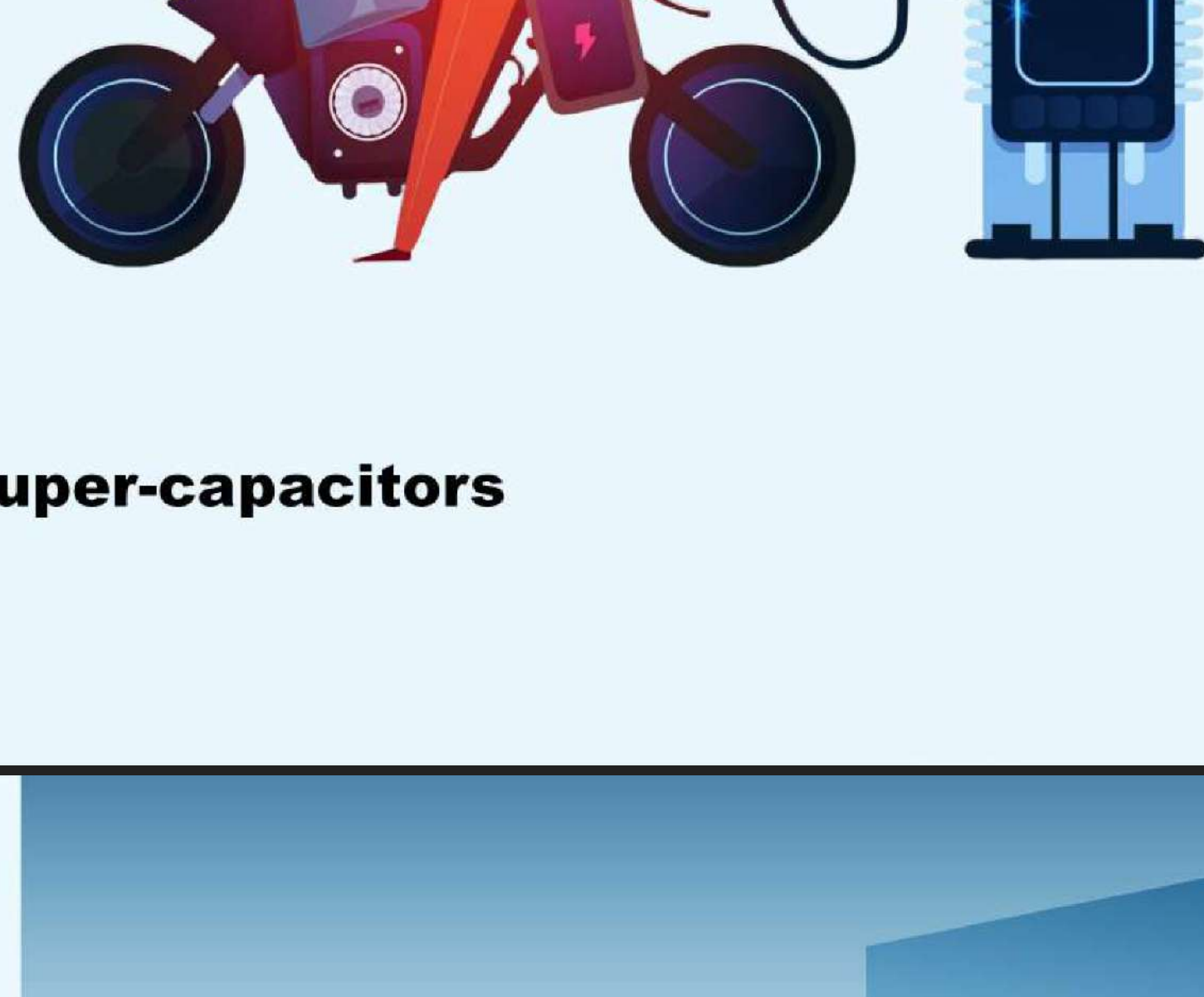
#### Chapter 1: Overview of EV

- Why EV?
- Why HEV?
- Why PHEV?
- Hybridisation Ratio
- Architectures of HEV
- Comparison of IC & EV

### Module 2: Batteries

#### Chapter 1: Overview of Battery

- Battery Parameters
- Lithium Batteries
- Metal- Air Batteries
- Hybrid Batteries Super- Capacitors
- Comparison b/w Hybrid batteries & super-capacitors
- C-rates



### Module 3: Vehicle Modelling

#### Chapter 1: Overview of Vehicle Modelling

- Duty Cycles
- Vehicle Model
- Vehicle Performance
- EV Powertrain Component Sizing Vehicle Efficiency

### Module 4: Minor Project Discussion

#### Chapter 1: Battery Thermal Management

- Thermal Runaway
- Cooling Systems
- Active Cooling
- Passive Cooling
- Safety Systems in EV to avoid Thermal Runaway



### Module 5: Motors & Control Systems

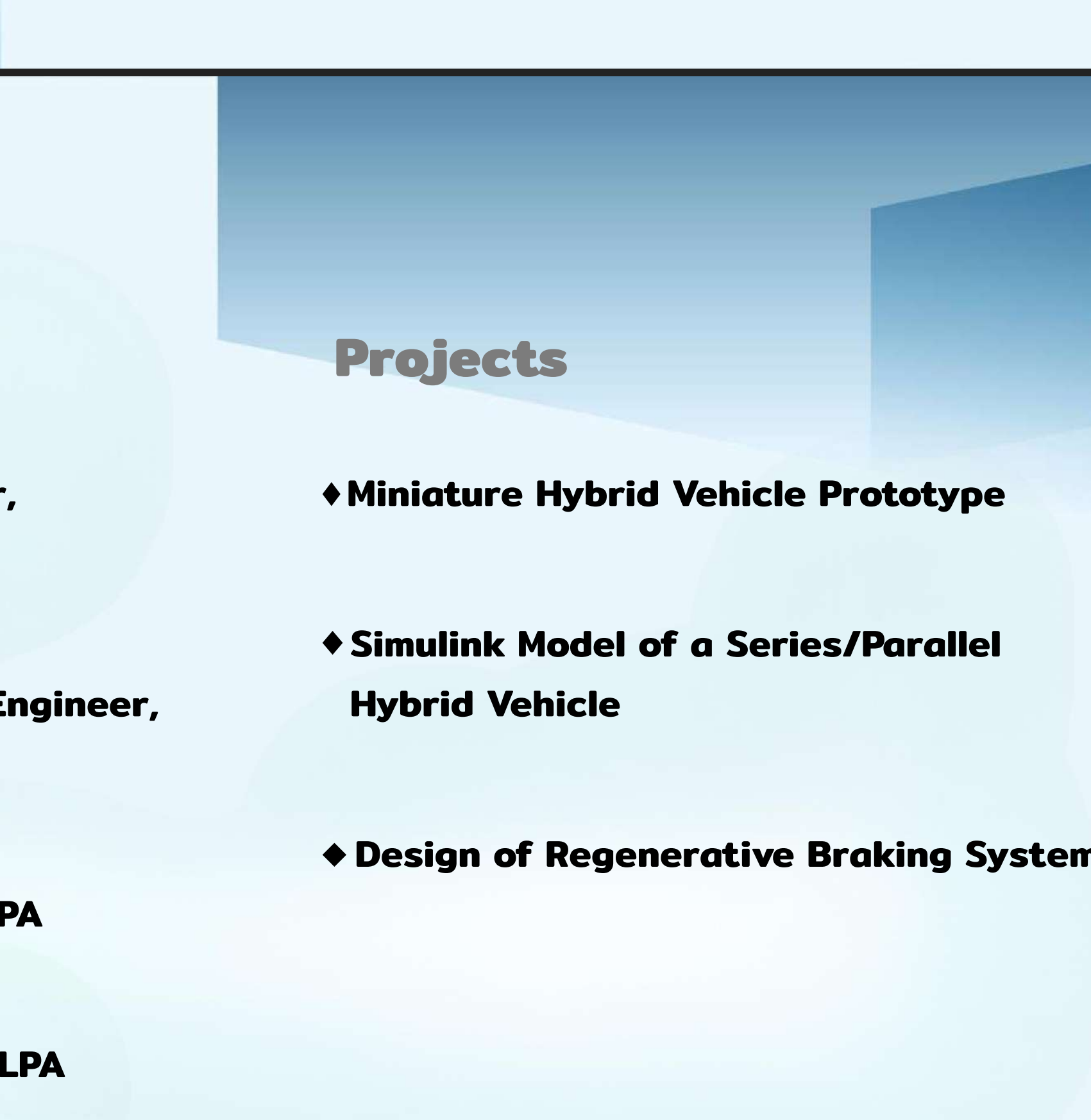
#### Chapter 1: Overview of Motors & Control Systems

- Types of Motors
- Motor Configurations
- Asynchronous Motors
- Synchronous : Permanent Switch Reluctance Motors
- Axial Flux Motors
- Motor Torque & Power Characteristics
- Motor Efficiency
- Control Systems

### Module 6: Battery Pack Design & Calculations (MajorProject)

#### Chapter 1: Battery Management System in EV

- Background
- Battery Management Systems
- Basic Functions of BMS
- Topology of BM



### Module 7: Battery Charging

#### Chapter 1: Overview of Battery Charging

- Charging Standards
- Wireless Power Transfer
- Solar – Charging Case Study

### Minor Project

- Battery Thermal Management
- Motors & Control Systems

### Major Project

- Battery Pack Design & Calculations



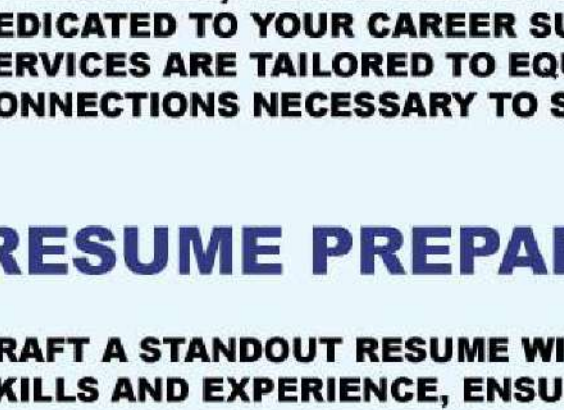
### Jobs You Can Apply

- ♦ Electric Vehicle (EV) Design Engineer, ₹6-12 LPA
- ♦ Battery Management System (BMS) Engineer, ₹8-15 LPA
- ♦ Power Electronics Engineer , ₹7-14 LPA
- ♦ Vehicle Integration Engineer , ₹6-10 LPA
- ♦ Automotive Embedded Systems Engineer , ₹6-12 LPA
- ♦ R&D Engineer (EV/HEV Focus) , ₹5-12 LPA.

### Projects

- ♦ Miniature Hybrid Vehicle Prototype
- ♦ Simulink Model of a Series/Parallel Hybrid Vehicle
- ♦ Design of Regenerative Braking System.

## TOOL BOX



## MEET YOUR MENTOR



DEEPAK

Meet Deepak, a seasoned mentor with over 5 years of expertise in his industry. With a proven track record, he has successfully managed a team of 4 professionals, steering them towards excellence. Manit leadership has been instrumental in completing over 120 projects, showcasing his proficiency in strategic planning and execution. His wealth of experience, combined with a passion for mentoring, makes Deepak a valuable guide; for those looking to navigate and excel in their respective fields. With a commitment to knowledge-sharing and professional growth, Deepak is dedicated to fostering success in his mentees



## PLACEMENT SERVICES

### REACH YOUR DREAM JOB :

AT LEARNFLU, WE ARE DEEPLY COMMITTED TO YOUR LEARNING JOURNEY AND DEDICATED TO YOUR CAREER SUCCESS. OUR COMPRE- HENSIVE PLACEMENT SERVICES ARE TAILORED TO EQUIP YOU WITH THE SKILLS, CONFIDENCE, AND CONNECTIONS NECESSARY TO SECURE YOUR DREAM TECH JOB

### RESUME PREPARATION :

CRAFT A STANDOUT RESUME WITH EXPERT GUIDANCE TO EFFECTIVELY HIGHLIGHT YOUR SKILLS AND EXPERIENCE, ENSURING YOU CATCH THE ATTENTION OF RECRUITERS.

### SOFT SKILL PREPARATION :

ELEVATE YOUR COMMUNICATION, TEAMWORK, AND LEADERSHIP ABILITIES WITH ENGAGING LIVE SESSIONS AND CUSTOMIZED FEEDBACK, DESIGNED TO HELP YOU EXCEL IN ANY PROFESSIONAL SETTING

### HIRING PARTNERS & CAREER PORTAL :

GAIN ACCESS TO LEADING TECH COMPANIES THROUGH OUR EXTENSIVE NETWORK OF HIRING PARTNERS AND OUR EXCLUSIVE CAREER PORTAL, DESIGNED TO CONNECT YOU WITH YOUR IDEAL JOB OPPORTUNITIES.

### MENTORSHIP :

TAKE HANDS-ON EXPERIENCE THROUGH INTERNSHIPS AND MENTORED PROJECTS, EARNING AN INDUSTRY CERTIFICATE

## ADDITIONAL SERVICES

### LinkedIn optimization

Optimizing your LinkedIn profile can greatly enhance your professional online presence and increase your

### Career Guidance

Career guidance plays a vital role in helping individuals navigate the complex and often challenging world of work

### Career Opportunities

Career opportunities are essential as they provide pathways for personal and professional growth, financial stability, and the fulfillment of individual potential and aspirations.

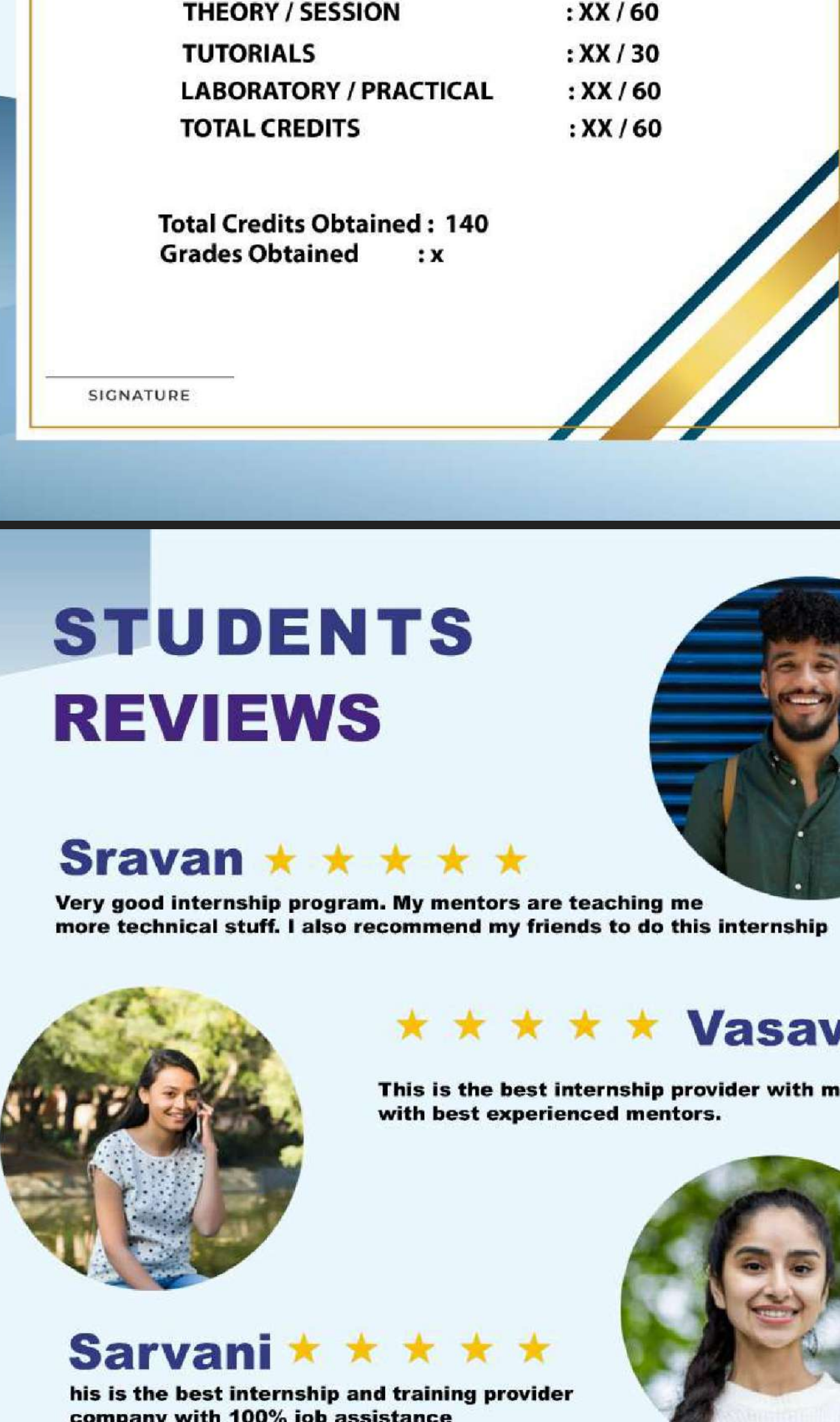
### Hands-on experience

The importance of hands-on experience, especially in the context of professional development and education, is very substantial to land your first Job

### Personality Development

Personality development is crucial as it enhances overall personal growth, fosters confidence, and improves interpersonal skills, leading to success in both personal and professional life

### CREDIT VALIDATION REPORT



### COURSE COMPLETION CERTIFICATE



### INTERNSHIP COMPLETION CERTIFICATE



## STUDENTS REVIEWS

### Sravan

Very good internship program. My mentors are teaching me more technical stuff. I also recommend my friends to do this internship



### Vasavi

This is the best internship provider with major projects with best experienced mentors.



### Sarvani

his is the best internship and training provider company with 100% job assistance



### Raghu Roy

This is the best internship provider with major projects with best experienced mentors



### Aradhya

"Learnflu seamlessly merges education and technology, offering a dynamic platform for immersive learning experiences. With innovative tools and engaging content, Learnflu elevates the educational landscape."

## Krishna Yadav

Very good internship program. My mentors are teaching me more technical stuff. I also recommend my friends to do this internship



### Dinakaran

Thank you so much learnflu for giving this wonderful opportunity and developed my knowledge



### Ayu Koshan

enrolled for web Data Analysis Program for April batch and yesterday was my induction session and Session was so good and the mentor Syed Aleem have given very insightful information about this internship and Training Programme and I am very much excited regarding the program



### Priya

This is a very good learning platform which offers students training and internship program



## OUR ALUMNI WORKS AT



## CONTACT US

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