

FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING








**AN INITIATIVE BY THE DEPARTMENT OF
ELECTRONICS & COMPUTER SCIENCE**

S.P.H.E.R.E. – Supporting Placements & Higher Education Requirements in Engineering

SPHERE aims to create a complete 360° support system in becoming a single point of contact at the Department level for addressing student related queries of career counseling, academic guidance, placements, higher education, developing the relevant skill sets or upskilling etc. along with providing suitable resources in order to achieve them.

ACTIVITIES FOR A.Y. 2021 – 2022

| No. | Name of SPHERE Activity | Date | Scan QR Code for Details |
|-----|---|------------------------------|---|
| 1. | Orientation Programme for Description & Guidance in Selection of Elective Subjects | 12 th June 2021 |  |
| 2. | Orientation Programme on Internships – Needs & Objectives, Overview & Types of Internships | 4 th October 2021 |  |
| 3. | Introduction to SPHERE – Supporting Placements & Higher Education Requirements in Engineering | 8 th January 2022 |  |
| 4. | Virtual Guidance & Preparatory Arrangements with Mentoring for On-campus Placement Process | 5 th March 2022 |  |
| 5. | Industrial Visit for Interaction with Outside World & Bridging the Curriculum Gap | 23 rd April 2022 |  |



A Supporting Placements & Higher Education Requirements in Engineering (SPHERE) Activity

On

ORIENTATION FOR ELECTIVE SUBJECTS

By

Dr. Sapna Prabhu

**Professor & Head of Department (HOD)
Department of Electronics & Computer Science**

Jayen Modi

**Assistant Professor & Placements Coordinator
Department of Electronics & Computer Science**

Saturday 12th June 2021

09:30 am IST onwards on Google Meet (online)

T.E. (Electronics & Computer Science) – Semester V

Academic Year 2021 – 2022

ELECTRONICS & COMPUTER SCIENCE (ECS)

ORIENTATION PROGRAMME FOR SELECTION OF ELECTIVES IN SEMESTER V – T.E. (ECS)

Saturday, 12th June 2021
09:30 am IST on Google Meet



Software Testing &
Quality Assurance



Sensors &
Applications



Information Theory
& Coding



ASIC Verification

Google Meet link will be emailed to all students on latest by Friday, 11th June 2021. **Please note that attendance is compulsory.**

The orientation programme gives formal introduction to the various elective subjects offered by the Electronics & Computer Science Department. It helps out students to make an informed decision in choosing a particular elective also with addressing of queries if any.



Fr. Agnel Ashram, Bandstand, Bandra (W), Mumbai – 400050.
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ORIENTATION PROGRAMME FOR ELECTIVE SUBJECTS

1. Overview & Details

| | |
|---|--|
| Name of SPHERE Activity | A Supporting Placements & Higher Education Requirements in Engineering (SPHERE) Activity on Orientation Programme for Elective Subjects |
| Venue / Location | Online on Google Meet (https://meet.google.com/met-tibh-jub) by Electronics & Computer Science Department, Fr. Conceicao Rodrigues College of Engineering |
| Activity Co-ordinator | Jayen Modi Assistant Professor, Department of Electronics & Computer Science (ECS) Fr. Conceicao Rodrigues College of Engineering (Fr. CRCE) |
| Day, Date & Timings | Saturday 12 th June 2021 from 09:30 am IST onwards |
| Key Resource Persons / Subject Expert Speakers | Dr. Sapna U. Prabhu Professor & Head of Department (HOD) – Electronics & Computer Science Fr. Conceicao Rodrigues College of Engineering (Fr. CRCE) |
| Aim & Objective of the SPHERE Activity | Semester V of T.E. (Electronics & Computer Science) has a choice of elective subjects wherein all students need to select any one & only one elective subject out of the four subject offered as electives. This will define their future academic trend & career prospects. The selection or choice of electives depends completely upon the interest, field of study & technological domain in which the student would like to work in the future or study further. In order to help the students, make an informed decision about the same & also to formally introduce all the four elective subjects in greater detail an orientation programme is arranged. This is not only the ultimate opportunity to know all about the elective subjects but also to get their doubts/queries/questions cleared about the same. |
| Contents of SPHERE Activity on Orientation Programme for Elective Subjects | <ul style="list-style-type: none">• What are elective subjects ?• Career tracks or domains towards Industry 4.0• Electives on offer in Department for T.E. (ECS) – Semester V• Proposed course contents of all elective subjects• Pre-requisite subjects for all elective subjects• Relevance to future subjects for all elective subjects• Choosing an elective subject |
| Intended Audience | All students of T.E. (Electronics & Computer Science) – Semester V |

ELECTRONICS & COMPUTER SCIENCE (ECS)

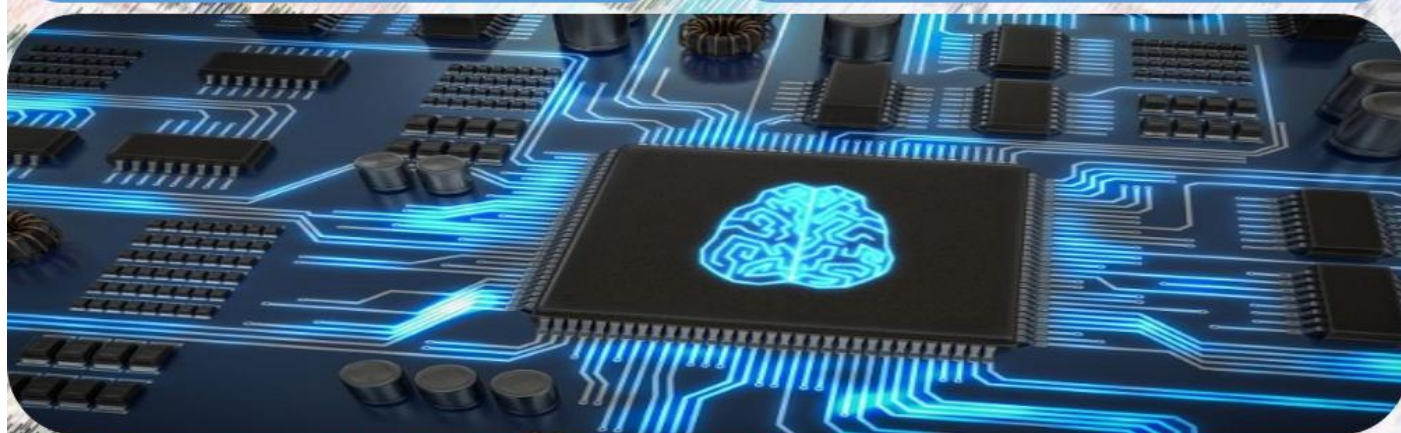
TRACK # 1 – SOFT COMPUTING

SEMESTER V

- ❖ Software Engineering
- ❖ Software Testing & Quality Assurance (elective)

SEMESTER VI

- ❖ Artificial Intelligence
- ❖ Machine Learning (elective)



SEMESTER VII

- ❖ Deep Learning (elective)
- ❖ Block Chain Technology (elective)
- ❖ Data Analytics (elective)

SEMESTER VIII

- ❖ Advanced Algorithms (elective)
- ❖ Quantum Computing (elective)

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TRACK # 2 – WEB TECHNOLOGIES, IT INFRASTRUCTURE & MANAGEMENT

SEMESTER V

- ❖ Web Technologies
- ❖ Software Engineering

SEMESTER VI

- ❖ Data Warehousing & Mining



SEMESTER VII

- ❖ Advanced Database Management (elective)
- ❖ Cloud Computing (elective)
- ❖ Cyber Security (elective)
- ❖ Big Data Analytics (elective)

SEMESTER VIII

- ❖ Multimedia & Virtual Reality (elective)
- ❖ System Security (elective)
- ❖ Advanced Networking Technologies (elective)

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ELECTRONICS & COMPUTER SCIENCE (ECS)

TRACK # 3 – COMMUNICATION, SIGNAL & INFORMATION PROCESSING

SEMESTER V

- ❖ Communication Engineering
- ❖ Information Theory & Coding (elective)

SEMESTER VI

- ❖ Computer Networks
- ❖ Digital Signal Processing (elective)

SEMESTER VII

- ❖ Image Processing (elective)
- ❖ Mobile Communication (elective)

SEMESTER VIII

- ❖ Natural Language Processing (elective)
- ❖ Advanced Networking Technologies (elective)

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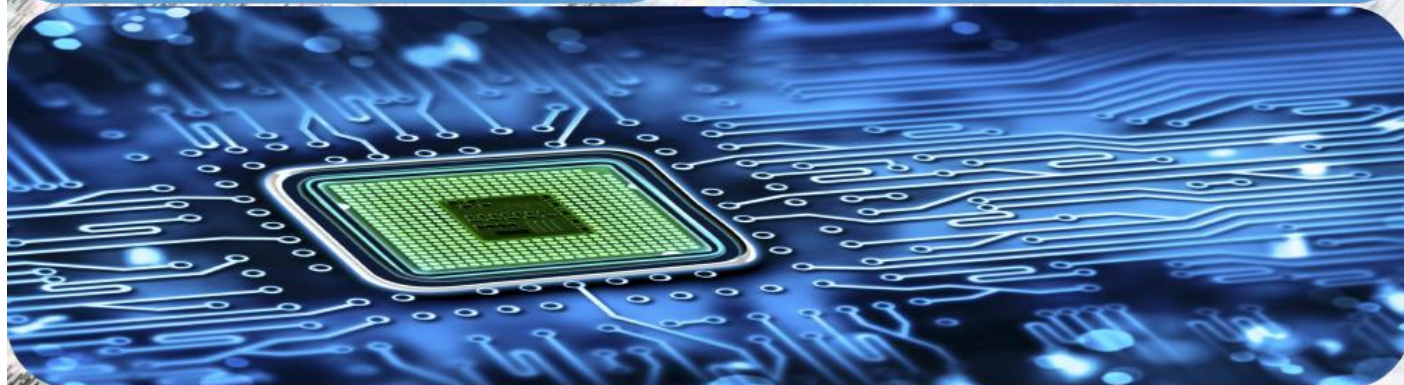
TRACK # 4 – EMBEDDED SYSTEMS, VLSI & INTERNET OF THINGS (IOT)

SEMESTER V

- ❖ Computer Organization & Architecture
- ❖ ASIC Verification (elective)

SEMESTER VI

- ❖ Embedded System & RTOS
- ❖ Electronic Product Design (elective)



SEMESTER VII

- ❖ Very Large Scale Integration (VLSI) Design
- ❖ Internet of Things (IOT)

SEMESTER VIII

- ❖ MEMS Technology (elective)
- ❖ Multimedia & Virtual Reality (elective)

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TRACK # 5 – ROBOTICS, INDUSTRIAL AUTOMATION & PRODUCT DESIGN

SEMESTER V

- ❖ Sensors & Applications (elective)
- ❖ ASIC Verification (elective)

SEMESTER VI

- ❖ Industrial Automation
- ❖ Electronic Product Design (elective)



SEMESTER VII

- ❖ Internet of Things (IOT)
- ❖ Image Processing (elective)
- ❖ Very Large Scale Integration (VLSI) Design

SEMESTER VIII

- ❖ Robotics
- ❖ 3D Printing & Design (elective)
- ❖ MEMS Technology (elective)

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ELECTRONICS & COMPUTER SCIENCE (ECS)

All students can orient their studies & accordingly select their careers towards any of 'career tracks' as mentioned below; thereby meeting the requirements of Industry 4.0 thus subsequently opening up new horizons; not only for their growth as professionals but also for future studies !

TRACK # 1 – SOFT COMPUTING



TRACK # 2 – WEB TECHNOLOGIES, IT INFRASTRUCTURE & MANAGEMENT



TRACK # 3 – COMMUNICATION, INFORMATION & SIGNAL PROCESSING



TRACK # 4 – EMBEDDED SYSTEMS, VLSI & INTERNET OF THINGS (IOT)



TRACK # 5 – ROBOTICS, INDUSTRIAL AUTOMATION & PRODUCT DESIGN



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2. Description of Activity

As per the revised 2019 syllabus 'C' scheme (CBC based) of the University of Mumbai, semester V of T.E. (Electronics & Computer Science) has a choice of elective subjects wherein all students need to select any one & only one elective subject out of the four subject offered as electives. This will define their future academic trend & career prospects. The selection or choice of electives depends completely upon the interest, field of study & technological domain in which the student would like to work in the future or study further. In order to help the students, make an informed decision about the same & also to formally introduce all the four elective subjects in greater detail an orientation programme is arranged. This is not only the ultimate opportunity to know all about the elective subjects but also to get their doubts / queries / questions etc. cleared about the same.

The department of electronics & computer science (ECS) offered all the following four (04) elective subjects for the academic year of 2021 – 2022 :-

- Software testing & quality assurance (STQA)
- Application specific integrated circuit (ASIC) verification
- Information Theory & Coding (IT&C)
- Sensors & Applications (S&A)

Prof. Jayen Modi organized the entire orientation activity online by briefing students well in advance about the same & it was conducted in the presence of Dr. Sapna Prabhu, Professor & Head of Department (HOD) on Saturday 12th June 2021. The following topics / points were discussed by the undersigned :-

- What are elective subjects ?
- Career tracks or domains towards Industry 4.0
- Electives on offer in Department for T.E. (ECS) – Semester V
- Proposed course contents of all elective subjects
- Pre-requisite subjects for all elective subjects
- Relevance to future subjects for all elective subjects
- Choosing an elective subject

All the above topics were comprehensively explained by the undersigned using a PowerPoint (PPT) module attached with this report. Several questions were fielded from the students which were satisfactorily answered to a great extent.

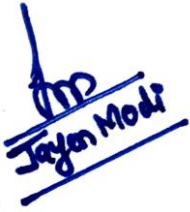
Dr. Sapna Prabhu presented an overview of the entire elective subjects' ecosystem & apprised the students of the need to have elective subjects in the first place. She cited practical, real-life examples about how selecting elective subjects in the right scheme of things can be extremely beneficial to one's academic & future career too. She ended the session by mentioning an important checklist to be considered while selecting an elective subject.

2. Outcome of Activity

Hosting an orientation programme certainly went a long way in apprising all students about various elective subjects on offer which they could select as per their taste & choices. A formal introduction made them aware about everything viz. the pre-requisites needed, the scope of the subject along with future relevance. Students were able to introspect their own strengths & interests thus being able to take their own decisions. This being the first of many SPHERE activities was very well appreciated by all the students who praised the fact that almost all of them received valuable inputs into making a right / correct career choice. Later a Google Form was circulated from which a majority of the students opted for software testing & quality assurance (STQA) while a handful of them selected sensors & application (S&A) since these students were more oriented towards the electronics domain with a keen interest in hardware.

3. Link of Google Meet Video Recording

<https://drive.google.com/file/d/1pLZT2OTloHEPdUcQh5sJQk20Lulg5IK-/view?usp=sharing>



Jayen Modi

Assistant Professor & Coordinator – Training & Placement,
Department of Electronics & Computer Science (ECS),
Fr. Conceicao Rodrigues College of Engineering (Fr. CRCE)

* * * * *

A Supporting Placements & Higher Education Requirements in Engineering (SPHERE) Activity

On

ORIENTATION FOR AWARENESS ON INTERNSHIPS

By

Dr. Sapna Prabhu

**Professor & Head of Department (HOD)
Department of Electronics & Computer Science**

Jagruti Nagaonkar

**Assistant Professor & Internships Coordinator
Department of Electronics & Computer Science**

Jayen Modi

**Assistant Professor & Coordinator – Placements
Department of Electronics & Computer Science**

Monday 4th October 2021

09:30 am IST onwards on Google Meet (online)

S.E. (Electronics & Computer Science) – Semester III

Academic Year 2021 – 2022



FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING



DEPARTMENT OF ELECTRONICS & COMPUTER SCIENCE

ORIENTATION PROGRAMME FOR AWARENESS ON INTERNSHIPS



Dr. Sapna Prabhu

Professor & Head of Department (HOD)

Prof. Jagruti Nagaonkar

Assistant Professor & Internship Coordinator

Monday, 4th October 2021 @ 09:30 am



Google Meet

**Initiative by SPHERE (Supporting
Placements & Higher Education
Requirements in Engineering)**

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ORIENTATION & AWARENESS FOR INTERNSHIPS

1. Overview & Details

| | |
|---|---|
| Name of SPHERE Activity | A Supporting Placements & Higher Education Requirements in Engineering (SPHERE) Activity on Orientation & Awareness Session for Internships |
| Venue / Location | Online on Google Meet (https://meet.google.com/vzm-fhks-eug) by Electronics & Computer Science Department, Fr. Conceicao Rodrigues College of Engineering |
| Activity Co-ordinator | Jayen Modi Assistant Professor, Department of Electronics & Computer Science (ECS) Fr. Conceicao Rodrigues College of Engineering (Fr. CRCE) |
| Day, Date & Timings | Monday 4 th October 2022 from 09:30 am IST onwards |
| Key Resource Persons / Subject Expert Speakers | Dr. Sapna U. Prabhu Professor & Head of Department (HOD) – Electronics & Computer Science Fr. Conceicao Rodrigues College of Engineering (Fr. CRCE) Prof. Jagruti S. Nagaonkar Assistant Professor & ECS Department Coordinator – Internships Fr. Conceicao Rodrigues College of Engineering (Fr. CRCE) |
| Aim & Objective of the SPHERE Activity | The rise in global competition has prompted organizations to devise strategies to have a talented and innovative workforce to gain a competitive edge. Developing an internship policy is an impactful strategy for creating a future talent pool for the industry. This Internship orientation & awareness program not only helps fresh pass-outs in gaining professional know-how but also benefits, corporate on fresh perspectives on business issues and even discovering future business leaders. |
| Contents of SPHERE Activity on Orientation & Awareness Programme for Internships | <ul style="list-style-type: none"> • What are internships ? • What is the importance of internships ? • Facilitating institute – industry interaction • Objectives of internship programme • Benefits of internships to students • Discussing AICTE guidelines on internship programmes • Institute / Department level policy for internships |
| Intended Audience | All students of S.E. (Electronics & Computer Science) – Semester III |

2. Objectives of Internships

Internships are educational and career development opportunities, providing practical experience in a field or discipline. They are structured, short-term, supervised placements often focused around particular tasks or projects with defined timescales. An internship may be compensated, non-compensated or some time may be paid. The internship has to be meaningful and mutually beneficial to the intern and the organization. It is important that the objectives and the activities of the internship program are clearly defined & understood. Following are the intended objectives of internship training :-

- Will expose technical students to the industrial environment in real-time & on run-time basis.
- Provide possible opportunities to learn, understand & sharpen technical / managerial skills required at the job.
- Exposure to the current technological developments relevant to the subject area of training.
- Experience gained from the 'Industrial Internship' in classroom will be used in classroom discussions.
- Create conditions conducive to quest for knowledge and its applicability on the job.
- Learn to apply the Technical knowledge in real industrial situations.
- Gain experience in writing Technical reports/projects.
- Expose students to the engineer's responsibilities and ethics.
- Familiarize with various materials, processes, products and their applications along with quality control.
- Promote academic, professional and/or personal development.
- Expose the students to future employers.
- Making students more aware with the conditions of rural or socially deprived brothers & sisters
- Making students to come up with innovative solutions leading to positive impact.
- Understand social, economic & administrative considerations influence the working of industrial organizations.
- Understand the psychology of the workers and their habits, attitudes and approach to problem solving.

3. Benefits of Internships

3.1 Benefits to the Industry :-

- Availability of ready to contribute candidates for employment.
- Year-round source of highly motivated pre-professionals.
- Students bring new perspectives to problem solving.
- Visibility of the organization is increased on campus.
- Quality candidate's availability for temporary or seasonal positions and projects.
- Freedom for industrial staff to pursue more creative projects.
- Availability of flexible, cost-effective work force not requiring a long-term employer commitment.
- Proven, cost-effective way to recruit and evaluate potential employees.
- Enhancement of employer's image in the community by contributing to the educational enterprise.

3.2 Benefits to the Students :-

- An opportunity to get hired by the Industry/ organization.
- Practical experience in an organizational setting.
- Opportunity to see how the theoretical aspects learned in classes are integrated into the practical world.
- On-floor experience provides better professional experience often worth more than classroom teaching.
- Helps them decide if the industry and the profession is the best career option to pursue.
- Opportunity to learn new skills and supplement knowledge.
- Opportunity to practice communication and teamwork skills.

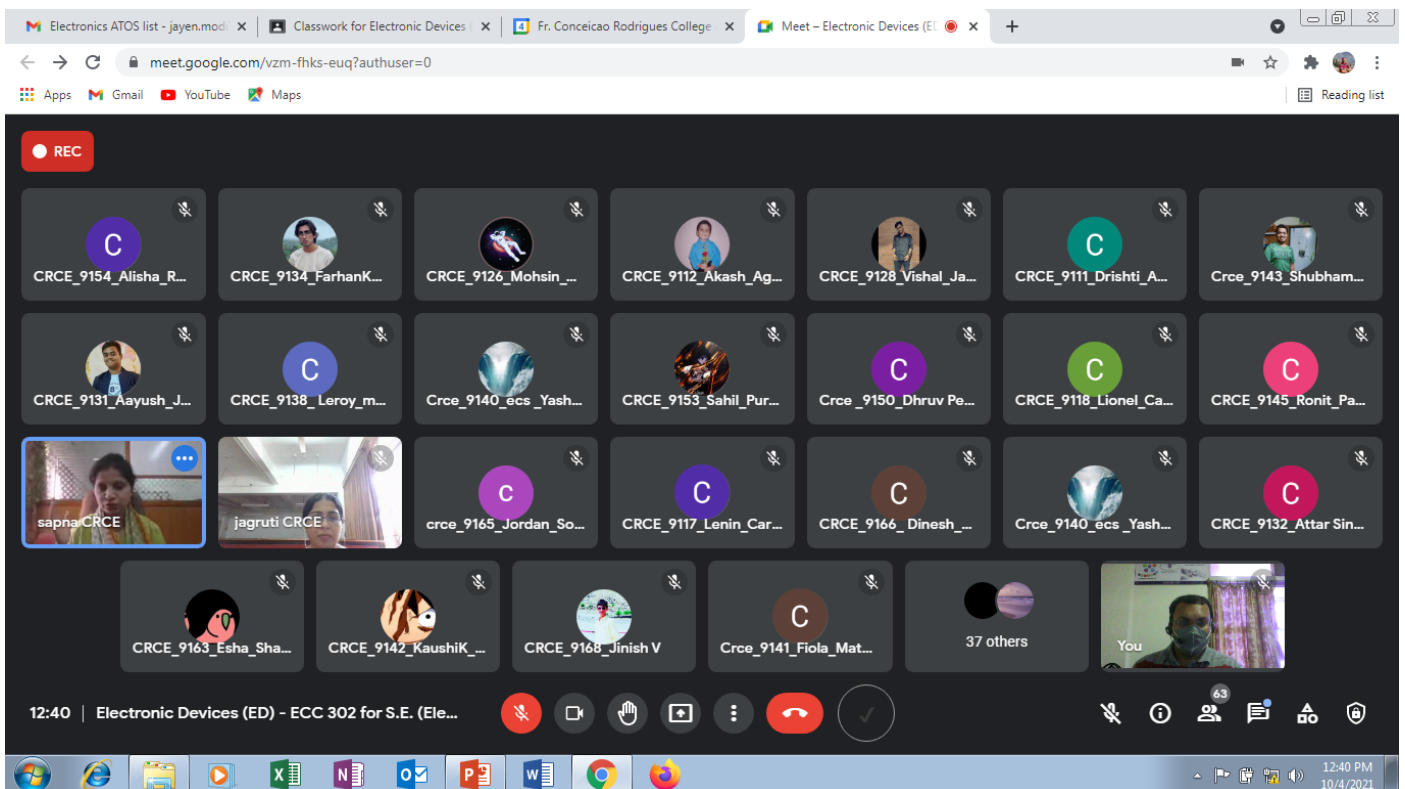
FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING
Department of Electronics & Computer Science (ECS)

- Opportunity to learn strategies like time management, multi-tasking etc. in an industrial setup.
- Opportunity to meet new people and learn networking skills.
- Makes a valuable addition to their resume.
- Enhances their candidacy for higher education.
- Creating network and social circle and developing relationships with industry people.
- Provides opportunity to evaluate the organization before committing to a full-time position.

3.3 Benefits to the Institute :-

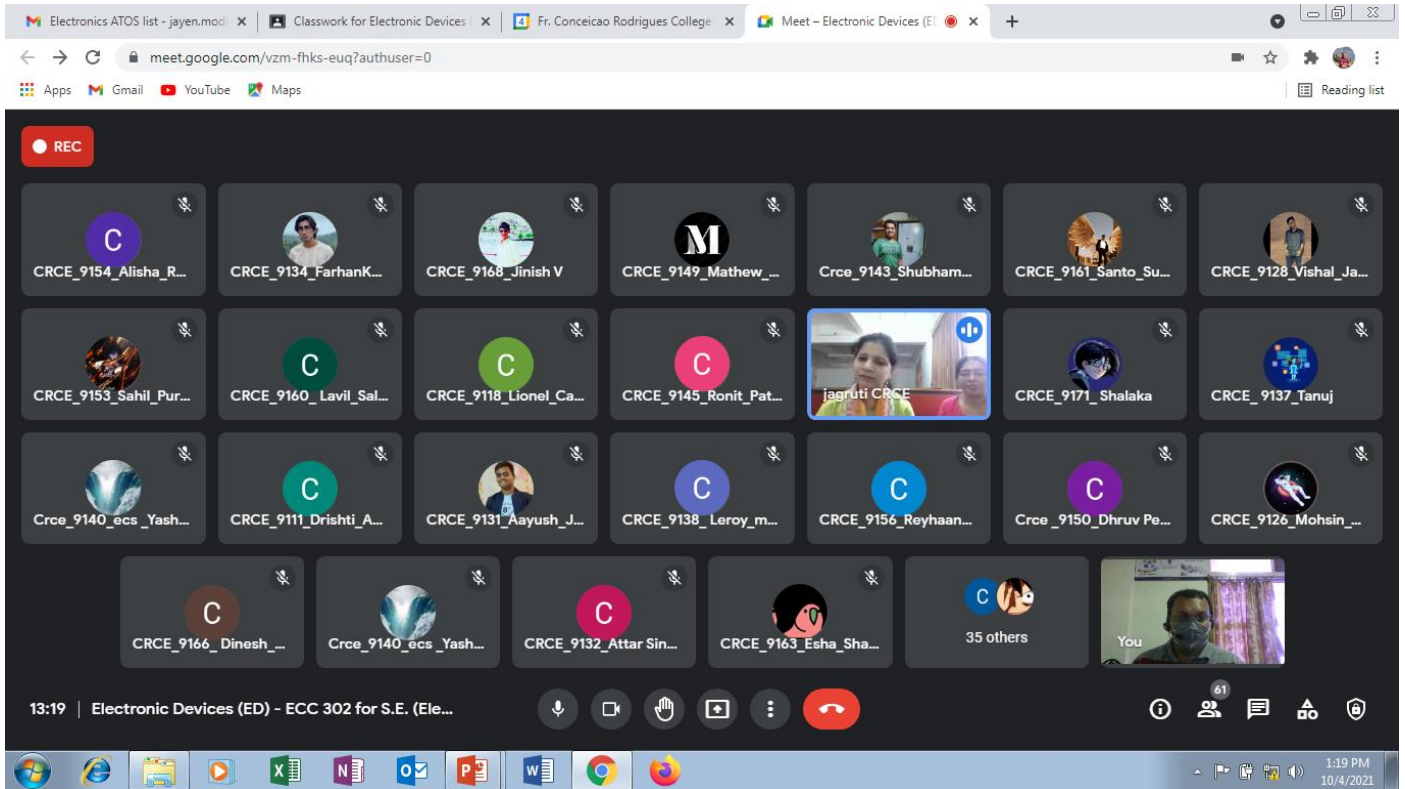
- Build industrial relations.
- Makes the placement process easier.
- Improve institutional credibility & branding.
- Helps in retention of the students.
- Curriculum revision can be made based on feedback from industry/students.
- Improvement in teaching learning process.

4. Screenshot Images of Activity



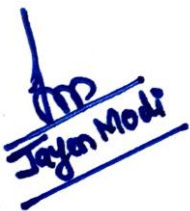
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Department of Electronics & Computer Science (ECS)



5. Link of Google Meet Video Recording

<https://doc-0k-0k-docs.googleusercontent.com/docs/securesc/1cedrc1jtmn92toiemf36c0d3eqh9t5s/33s89opi898huk0bhmqe01ijjo7ir9st/1653617250000/01008624727634063624/01008624727634063624/12ZECm1njmwvp0IQZQbE4sQIAY9PVg706?e=download&authuser=0>


Jayen Modi

Jayen Modi
Assistant Professor & Coordinator – Training & Placement,
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Fr. Conceicao Rodrigues College of Engineering (Fr. CRCE)

* * * * *

Daily Attendance Report for electronic-devices-(ed)-for-s.e.-(ecs)---semester-iii: 2021-10-04

Class Name: **electronic-devices-(ed)-for-s.e.-(ecs)---semester-iii**
 12:23 End: 13:31 Duration: 68 min

Meet ID: **vzm-fhks-euq**

Date: **2021-10-04** ▼

Earliest Arrivals: **12:23**

Start:

Class Notes:

Lecture No. 14 on Monday, 4th October 2021 from 12:30 pm to 01:30 pm IST - The Schottky Diode (Unit No. 2.2 - Module No. 2 titled 'Special Semiconductor Devic

| 100 Names (0 Absent) ☆ | 12:20 | 12:23 | 12:25 | | 12:30 | | 12:35 | | 12:40 | | 12:45 | | 12:50 | | 12:55 | | 13:00 | | 13:05 | | 13:10 | | 13:15 |
|------------------------------|-------|-------|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
| ? 10 Others | | | | | | | | | | | | | | | | | | | | | | | |
| ? 2 Others | | | | | | | | | | | | | | | | | | | | | | | |
| ? 20 Others | | | | | | | | | | | | | | | | | | | | | | | |
| ? 21 Others | | | | | | | | | | | | | | | | | | | | | | | |
| ? 25 Others | | | | | | | | | | | | | | | | | | | | | | | |
| ? 26 Others | | | | | | | | | | | | | | | | | | | | | | | |
| ? 27 Others | | | | | | | | | | | | | | | | | | | | | | | |
| ? 28 Others | | | | | | | | | | | | | | | | | | | | | | | |
| ? 29 Others | | | | | | | | | | | | | | | | | | | | | | | |
| ? 3 Others | | | | | | | | | | | | | | | | | | | | | | | |
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| ? 39 Others | | | | | | | | | | | | | | | | | | | | | | | |
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| ? 45 Others | | | | | | | | | | | | | | | | | | | | | | | |
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| ? 47 Others | | | | | | | | | | | | | | | | | | | | | | | |
| ? 48 Others | | | | | | | | | | | | | | | | | | | | | | | |
| ? 5 Others | | | | | | | | | | | | | | | | | | | | | | | |
| ? 6 Others | | | | | | | | | | | | | | | | | | | | | | | |
| ? 7 Others | | | | | | | | | | | | | | | | | | | | | | | |
| ? 8 Others | | | | | | | | | | | | | | | | | | | | | | | |
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| ? Cree_9150_dhruv Pedne... | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9114_harshit_anchan | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9136_Arpita_Khot | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9137_tanuj | | | | | | | | | | | | | | | | | | | | | | | |
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| ? Cree_9112_akash_agre | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9113_Sheldon | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9115_sahil_bane | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9116_dhruvin_barot | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9117_lenin_carvalho | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9118_lionel_castelino | | | | | | | | | | | | | | | | | | | | | | | |
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| ? Cree_9123_kevin_dsouza | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9124_mohini Gautam | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9125_atharva_getle | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9125_atharva_getle... | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9126_mohsin_ghad... | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9126_mohsin_ghad... | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9127_ajay | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9128_vishal_jaiswal | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9129_pulkit_Anan... | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9130_Ronit_jhaveri | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9131_aayush_juhukar | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9132_attar Singh_k... | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9134_farhankhan | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9138_Leroy_mach... | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9139_anika Makhija | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9140_ecs_yashraj ... | | | | | | | | | | | | | | | | | | | | | | | |
| ? Cree_9141_fiola_mathias | | | | | | | | | | | | | | | | | | | | | | | |

Daily Attendance Legend:

✓ The student was present then exited, rejoined then exited again, and rejoined again, etc., etc

The alternating background patterns indicate that the student may have left and rejoined the Meet

✓ The student was marked present by the teacher (but did not shown up in the Meet window)

The student missed the entire class

Help videos:

To help your eye follow across the page, the table rows alternate between white and grey backgrounds which leads to two subtly different shades of green for the times when the student was present

NB - If you want a printed copy of this report, make sure that the 'More settings' → 'Background graphics' checkbox is checked in the Print dialog

A Supporting Placements & Higher Education Requirements in Engineering (SPHERE) Activity

On

INTRODUCTION & ORIENTATION TO S.P.H.E.R.E.

By

Dr. Sapna Prabhu

**Professor & Head of Department (HOD)
Department of Electronics & Computer Science**

Jayen Modi

**Assistant Professor & Placements Coordinator
Department of Electronics & Computer Science**

Saturday 8th January 2022

10:30 am IST onwards on Google Meet (online)

T.E. (Electronics & Computer Science) – Semester VI

Academic Year 2021 – 2022



FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING



AN INITIATIVE BY THE DEPARTMENT OF ELECTRONICS & COMPUTER SCIENCE

Supporting Placements & Higher Education Requirements in Engineering (SPHERE)

SPHERE aims to create a complete 360° support system in becoming a single point of contact in the Department for addressing all student related queries of career counseling, academic guidance, placements, higher education, developing the relevant skill sets etc. along with providing suitable resources in order to achieve them.

OBJECTIVES

- ❖ To guide students in selecting the career path of their choice
- ❖ To equip students with the necessary skill sets as per requirements
- ❖ To apprise students about higher education prospects
- ❖ To make students professionally mature & employable graduates
- ❖ To improve soft skills & communication abilities of students
- ❖ To help bridge the gap between industry & graduate professionals

FUNCTIONS

- ❖ Addressing students & their parents about various career options
- ❖ Helping students identify their area of interest during graduation
- ❖ Guiding students to help them focus on building right kind of skills
- ❖ Providing information on higher education option in India & abroad
- ❖ Supporting students during the on-campus placement season
- ❖ Organizing interactive seminars, webinars, workshops & any other relevant activities for benefit & enrichment of students

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Fr. Agnel Ashram, Bandstand, Bandra (W), Mumbai – 400050.
www.frcrce.ac.in / +91-22-67114111 / ecs.frcrce@gmail.com



INTRODUCTION & ORIENTATION OF S.P.H.E.R.E.

1. Overview & Details

| | |
|---|--|
| Name of SPHERE Activity | A Supporting Placements & Higher Education Requirements in Engineering (SPHERE) Activity on Orientation & Introduction to SPHERE itself |
| Venue / Location | Online on Google Meet (https://meet.google.com/ssc-fxuh-dgt) by Electronics & Computer Science Department, Fr. Conceicao Rodrigues College of Engineering |
| Activity Co-ordinator | Jayen Modi Assistant Professor, Department of Electronics & Computer Science (ECS) Fr. Conceicao Rodrigues College of Engineering (Fr. CRCE) |
| Day, Date & Timings | Saturday 8 th January 2022 from 10:00 am IST onwards |
| Key Resource Persons / Subject Expert Speakers | Dr. Sapna U. Prabhu Professor & Head of Department (HOD) – Electronics & Computer Science Fr. Conceicao Rodrigues College of Engineering (Fr. CRCE) |
| Aim & of SPHERE Activity | SPHERE aims to create a complete 360° support system in becoming a single point of contact in the Department of Electronics & Computer Science (ECS) for addressing all student related queries of career counseling, academic guidance, placements, higher education, developing all the relevant skill sets etc. along with providing suitable resources in order to achieve them. |
| Proposed Objectives of SPHERE Activity | <ul style="list-style-type: none"> • To guide students in selecting the career path of their choice • To equip students with the necessary skill sets as per requirements • To apprise students about higher education prospects • To make students professionally mature & employable graduates • To improve soft skills & communication abilities of students • To help bridge the gap between industry & graduate professionals |
| Proposed Functions of SPHERE Activity | <ul style="list-style-type: none"> • Addressing students & their parents about various career options • Helping students identify their area of interest during graduation • Guiding students to help them focus on building right kind of skills • Providing information on higher education option in India & abroad • Supporting students during the on-campus placement season • Organizing interactive seminars, webinars, workshops & other relevant activities for benefit & enrichment of students |

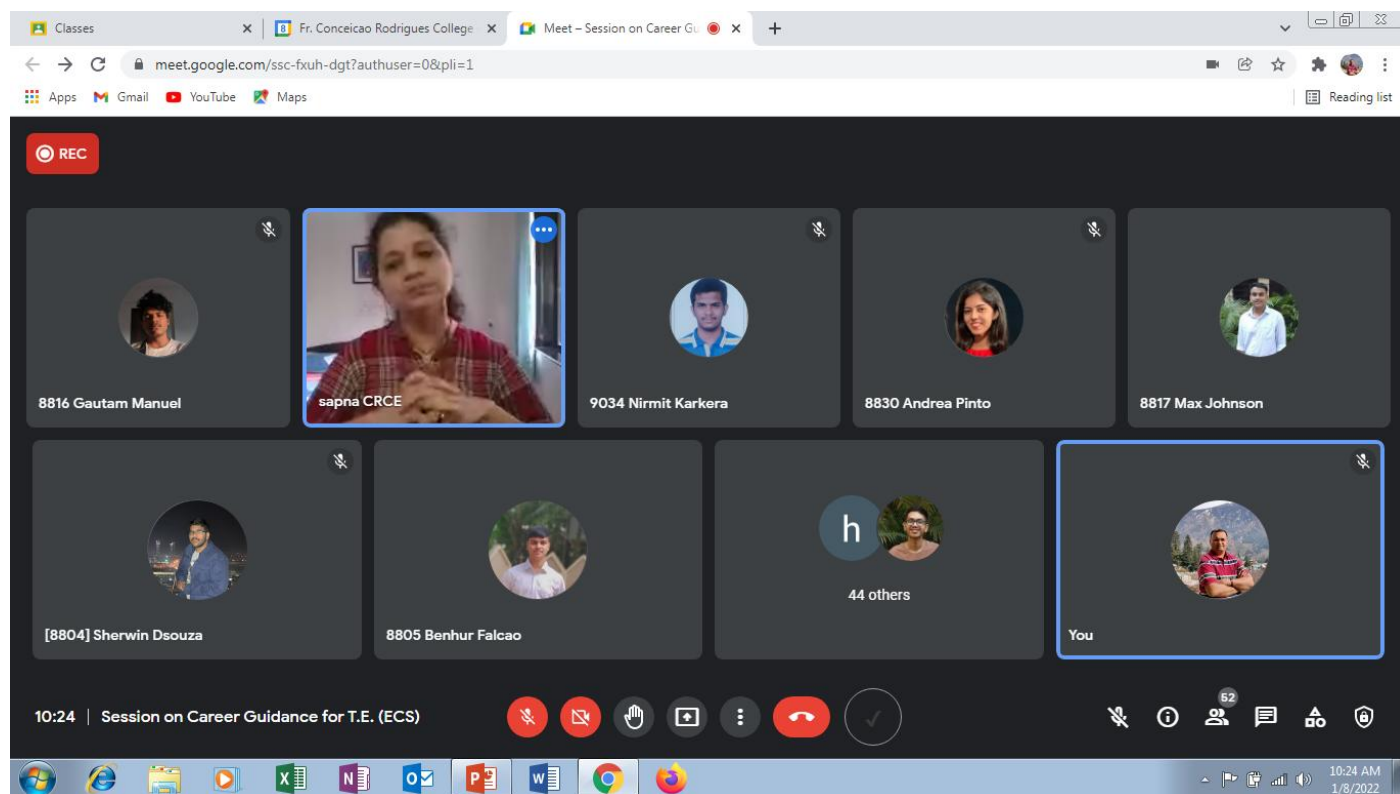
2. Description of Activity

The Department of Electronics & Computer Science at Fr. Conceicao Rodrigues College of Engineering for the academic year of 2021 – 2022 initiated a programme viz. supporting placements & higher education requirements in engineering (SPHERE) as an outreach to all the students of T.E. (Electronics & Computer Science) – Semester VI. The activity was carried out to let the students from the department know that whatever was possible for addressing all student related queries of career counseling, academic guidance, placements, higher education, developing all the relevant skill sets etc. along with providing suitable resources in order to achieve them.

Prof. Jayen Modi formally introduced the notion behind SPHERE for the department & highlighted various arenas which the students needed to focus upon be it higher education or placements or entrepreneurship etc. The primary goal was to ensure all students were readily equipped with the necessary skills in terms of technical & managerial in order to face the dynamic challenges of the outside world.

Dr. Sapna Prabhu added her own experience & enriched the SPHERE introductory session by quoting several examples & case studies in which various students over the years have suitably groomed themselves. Some have even sought mentoring / counseling / guidance on various career paths based on their domain or area of interest. Overall the session was highly enriching since the students were assured of maximum possible help from the department to assist them.

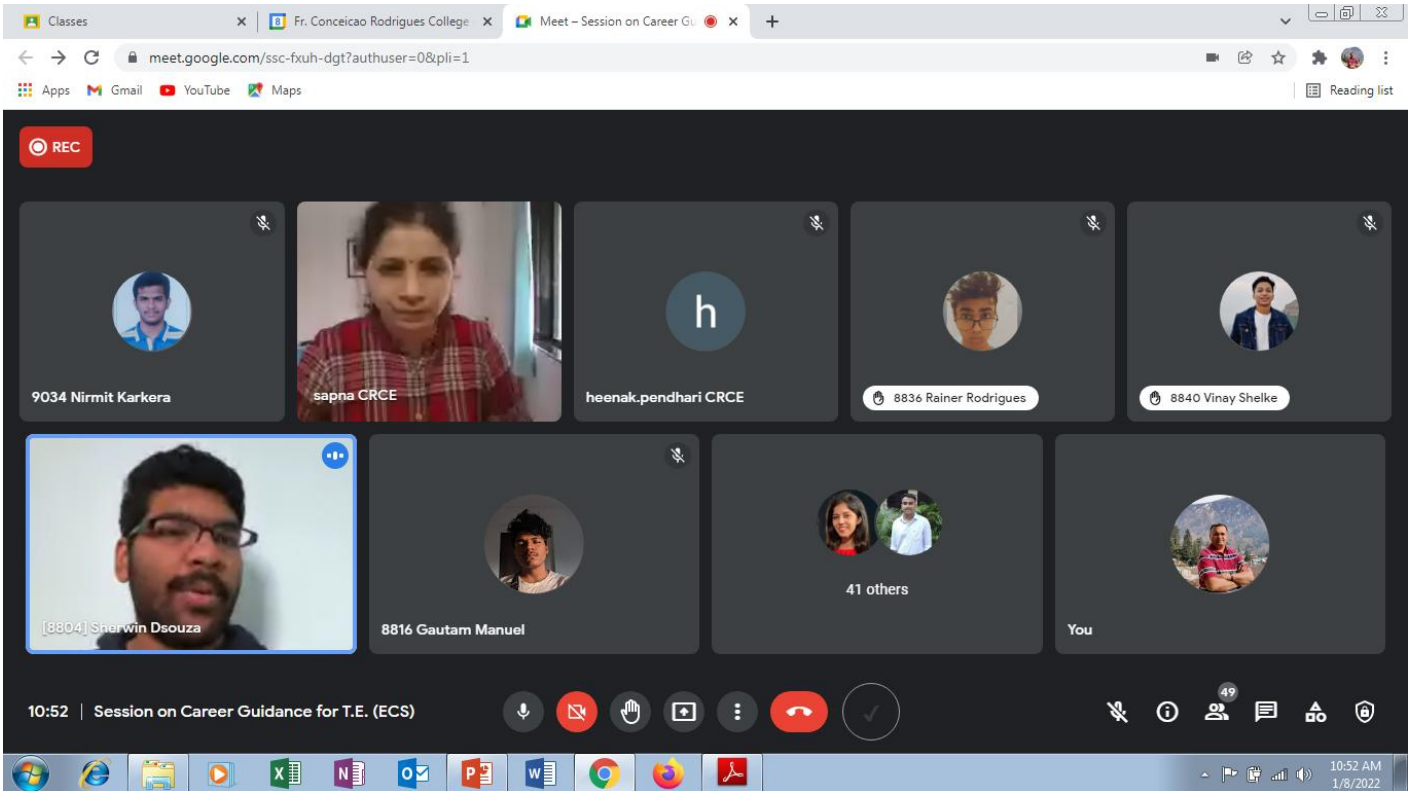
3. Screenshot Images of SPHERE Activity



FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING
Department of Electronics & Computer Science (ECS)

A SPHERE Activity on Introduction & Orientation of SPHERE for T.E. (ECS) – Semester VI 5
Saturday 8th January 2022 10:00 am IST onwards on Google Meet (online) for A.Y. 2021 – 2022

FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING
Department of Electronics & Computer Science (ECS)



4. Link of Google Meet Video Recording

<https://doc-0o-0k-docs.googleusercontent.com/docs/securesc/1cedrc1jtmn92toiemf36c0d3eqh9t5s/d4ik23lbq7ec6s7el1jdr2349bf2bee/1653633450000/01008624727634063624/01008624727634063624/1eboxSv7984uk0C1sHeeoFoVrVeLCIf4?e=download&authuser=0>


Jayen Modi

Jayen Modi
Assistant Professor & Coordinator – Training & Placement,
Department of Electronics & Computer Science (ECS),
Fr. Conceicao Rodrigues College of Engineering (Fr. CRCE)

* * * * *



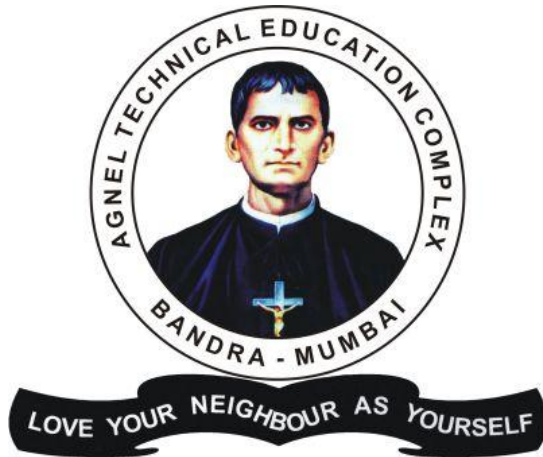
FR. CONCEICAO RODRIGUES
COLLEGE OF ENGINEERING

Moulding Engineers Who Can Build The Nation



**Wishing all students & their family members a
happy, safe & successful New Year 2022 !**

Supporting Placements & Higher Education Requirements in Engineering (SPHERE) @ECS



Dr. Sapna Prabhu
Prof. Heenakausr Pendhari
Prof. Jayen Modi



An Initiative by the
Department of Electronics & Computer Science,
Fr. Conceicao Rodrigues College of Engineering

Overview / Agenda

- **Introduction**
- **Aim**
- **Objectives**
- **Functions**
- **Plan of Action (Implementation)**
- **Associated Faculty Members**
- **Questions & Answers (Q&A)**

1. Introduction

Successful engineering graduates need to :-

- **Identify & analyze problems**
- **Design & implement potential solutions**
- **Liaise with & present to clients (communicate with them too)**
- **Work with & also direct colleagues**

They need to do these above things more efficiently, ethically, professionally & competently, often they need to do it quickly

2. Aim

To be a single point of contact (in the department) aiming to address student related queries about career counseling, decision making, higher education, placements etc. along with providing suitable resources for fulfilling or achieving the same

3. Objectives

- **To bridge the gap between industry & graduate professionals**
- **To make students professionally mature & employable**
- **To improve communication abilities & technical knowledge**
- **To guide & equip students to choose the right career path**
- **To apprise students about higher education prospects**
- **To mobilize resources for training & placement purposes**

4. Functions

- **Helping students identify their area of interest**
- **Guiding students to help them focus on right kind of skills**
- **Addressing students & parents (if needed) for career choices**
- **Providing updated information about higher education avenues**
- **Supporting students during the placement season (on-campus)**
- **Organizing interactive seminars & other relevant sessions to address the above issues**

4. Plan of Action (Implementation)

- Interactive seminars by alumni
- Educative & informative sessions
- Career & educational fairs (subject to COVID-19 protocols)
- Academic counseling & career guidance
- **Pre-placement training by training & placement office (TPO)**
- Any other activities which assist SPHERE

4. Associated Faculty Members

- **Dr. Sapna Prabhu** – Professor & Head of Department, Electronics & Computer Science (ECS)
- **Prof. Heenakausr Pendhari** – Assistant Professor & Department Coordinator for Training & Placements
- **Prof. Jayen Modi** – Assistant Professor & Department Coordinator for Training & Placements

THANK YOU !

Questions & Answers (Q&A)

Daily Attendance Report for supporting-placements-&-higher-education-requirements-in-engineering-(sphere): 2022-01-08

Class Name: **supporting-placements-&-higher-education-requirements-in-engineering-(sphere)** Meet ID: **ssc-fxuh-dgt** Date: **2022-01-08** ▾ Earliest Arrivals: **09:58** Start: **9:58** End: **11:29** Duration: **91 min**

Class Notes:

Supporting Placements & Higher Education Requirements in Engineering (SPHERE) @ECS on Saturday 8th January 2021 from 10:00 am onwards

| 59 Names (0 Absent) ☆ | 9:55 | 9:58 | 10:00 | 10:05 | 10:10 | 10:15 | 10:20 | 10:25 | 10:30 | 10:35 | 10:40 | 10:45 | 10:50 | 10:55 | 11:00 | 11:05 | 11:10 | 11:15 |
|-----------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ? 8574 Vishwa Shukla | | | | | | | | | | | | | | | | | | |
| ? 8796 Abhishek Bhattach... | | | | | | | | | | | | | | | | | | |
| ? 8798 Anushka Bobade | | | | | | | | | | | | | | | | | | |
| ? 8800 Aditya Chaurasia | | | | | | | | | | | | | | | | | | |
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| ? 8805 Benhur Falcao | | | | | | | | | | | | | | | | | | |
| ? 8806 Brycen Fernandes | | | | | | | | | | | | | | | | | | |
| ? 8809 Pramit Kanjilal | | | | | | | | | | | | | | | | | | |
| ? 8810 Zeeshan Khan | | | | | | | | | | | | | | | | | | |
| ? 8813 Jyothis Shajan | | | | | | | | | | | | | | | | | | |
| ? 8815 Sahil Mahimkar | | | | | | | | | | | | | | | | | | |
| ? 8816 Gautam Manuel | | | | | | | | | | | | | | | | | | |
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| ? 8817 Max Johnson | | | | | | | | | | | | | | | | | | |
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| ? 8819 Aashay Mundy | | | | | | | | | | | | | | | | | | |
| ? 8820 Rohit Nair | | | | | | | | | | | | | | | | | | |
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| ? 8823 Palak Joseph | | | | | | | | | | | | | | | | | | |
| ? 8825 Jaydeep Patil | | | | | | | | | | | | | | | | | | |
| ? 8826 Omkar Patil | | | | | | | | | | | | | | | | | | |
| ? 8827 Siddhesh Patil | | | | | | | | | | | | | | | | | | |
| ? 8828 Grace Pereira | | | | | | | | | | | | | | | | | | |
| ? 8830 Andrea Pinto | | | | | | | | | | | | | | | | | | |
| ? 8833 Yash Rangucha | | | | | | | | | | | | | | | | | | |
| ? 8834 Mufaddal Rangwala | | | | | | | | | | | | | | | | | | |
| ? 8836 Rainer Rodrigues | | | | | | | | | | | | | | | | | | |
| ? 8837 Sushant Shanbhag | | | | | | | | | | | | | | | | | | |
| ? 8839 Sharvin Sunny | | | | | | | | | | | | | | | | | | |
| ? 8840 Vinay Shelke | | | | | | | | | | | | | | | | | | |
| ? 8843 Shreedhar | | | | | | | | | | | | | | | | | | |
| ? 8844 Amandeep Singh | | | | | | | | | | | | | | | | | | |
| ? 8845 Harsh Soni | | | | | | | | | | | | | | | | | | |
| ? 8846 Divyanshu Tandon | | | | | | | | | | | | | | | | | | |
| ? 8847 Spandan Thakor | | | | | | | | | | | | | | | | | | |
| ? 8847 Spandan Thakor | | | | | | | | | | | | | | | | | | |
| ? 8848 Sharon Shajan | | | | | | | | | | | | | | | | | | |
| ? 8850 Saurabh Wable | | | | | | | | | | | | | | | | | | |

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✓ The student was present then exited, rejoined, then exited again, and rejoined again, etc., etc.

- ✓ The student was marked present by the teacher (but did not shown up in the Meet window)

The student missed the entire class

Help videos:

To help your eye follow across the page, the table rows alternate between white and grey backgrounds which leads to two subtly different shades of green for the times when the student was present

NB - If you want a printed copy of this report, make sure that the 'More settings' → 'Background graphics' checkbox is checked in the Print dialog

A Supporting Placements & Higher Education Requirements in Engineering (SPHERE) Activity

On

VIRTUAL GUIDANCE & PREPARATORY ARRANGEMENTS FOR PLACEMENT PROCESS

By

Heenakausr Pendhari

**Assistant Professor & Placements Coordinator
Department of Electronics & Computer Science**

Jayen Modi

**Assistant Professor & Placements Coordinator
Department of Electronics & Computer Science**

Saturday 5th March 2022

03:00 pm IST onwards on Google Meet (online)

T.E. (Electronics & Computer Science) – Semester VI

Academic Year 2021 – 2022



FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING



DEPARTMENT OF ELECTRONICS & COMPUTER SCIENCE

VIRTUAL GUIDANCE ON PREPARATORY ARRANGEMENTS FOR PLACEMENT PROCESS

Get an in-depth understanding about the preparatory arrangements for on-campus placement processes by your seniors & alumni; who will not only guide you all along the way but will also share their own experiences in cracking aptitude tests, clearing technical rounds, sailing through group discussions & conquering interviews for that job offer you've always dreamt of !

Saturday, 5th March 2022 @ 03:00 pm



Google Meet

Initiative by SPHERE (Supporting
Placements & Higher Education
Requirements in Engineering)



Fr. Agnel Ashram, Bandstand, Bandra (W), Mumbai – 400050.
www.frcrce.ac.in / +91-22-67114111 / ecs.frcrce@gmail.com



VIRTUAL GUIDANCE & ONLINE INTERACTION MEETING

1. Overview & Details

| | |
|--|---|
| Name of SPHERE Activity | A Supporting Placements & Higher Education Requirements in Engineering (SPHERE) Activity on Virtual Guidance & Preparatory Session for Placements |
| Venue / Location | Online on Google Meet (https://meet.google.com/mxs-smeh-wtr) by Electronics & Computer Science Department, Fr. Conceicao Rodrigues College of Engineering |
| Activity Co-ordinator | Heenakausr Pendhari & Jayen Modi Assistant Professors, Department of Electronics & Computer Science (ECS) Fr. Conceicao Rodrigues College of Engineering (Fr. CRCE) |
| Day, Date & Timings | Saturday, 5 th March 2022 from 03:00 pm IST onwards |
| Key Resource Persons / Subject Expert Speakers | <ul style="list-style-type: none"> Kraig Fernandes Nikhil Sharma Saptarshi Chatterjee Shamita Shetty |
| Aim & Objectives of Virtual Guidance Online Session & Interaction Meeting | The lockdown enforced by the Indian Government on account of the COVID-19 pandemic changed entire hiring ecosystem. It brought the whole process online right from registration to the pre-placement talks followed by the aptitude & the technical tests, culminating with a virtual interview session either on Zoom or Google Meet or MS Teams. Keeping this practice in mind, training & placement office (TPO) took the initiative to hold a virtual guidance session & preparatory online meeting session for certain select companies. Their goal was to invite the alumni already placed in the particular company to address the students & inform them about the expected selection process. The alumni discussed, in detail about their own experience as prospective candidates, enriching students about various aspects of the placement selection process. Many myths were busted & several questions were answered pertaining to whatever doubts students had. Primary objective was to prepare the students in advance with additional training on the specific company-related matters (with inputs received from the alumni giving a large coverage from their experience). It motivated the students & gave them a really good insight as to what they were expected to face for the placement drive. |
| Expected / Target Audience | Interested & eligible students for the on-campus placement process from the class of T.E. (Electronics & Computer Science) – Semester VI |

FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING
Department of Electronics & Computer Science (ECS)

2. Description of Activity

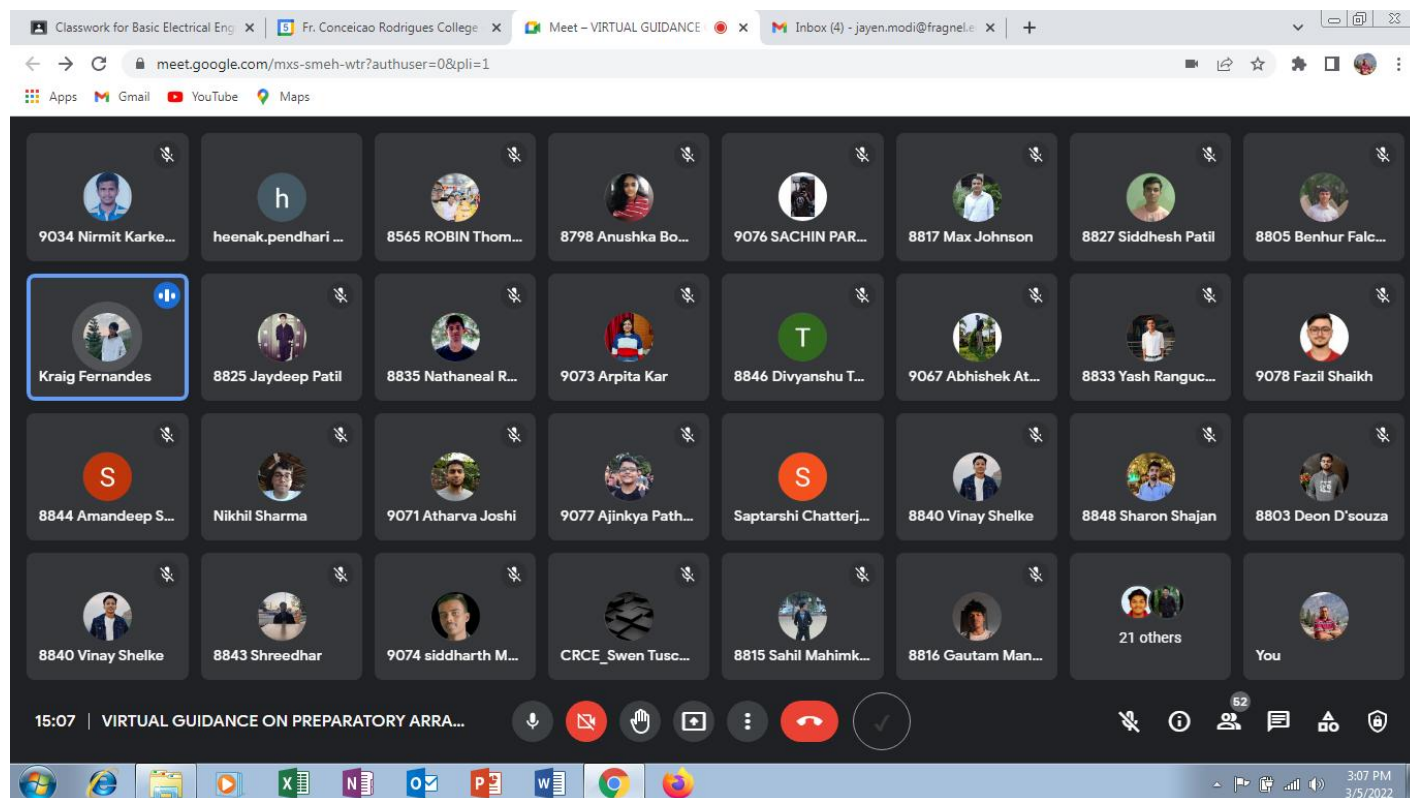
The Department of Electronics & Computer Science at Fr. Conceicao Rodrigues College of Engineering for the academic year of 2021 – 2022 initiated a programme viz. supporting placements & higher education requirements in engineering (SPHERE) as an outreach to all the students of T.E. (Electronics & Computer Science) – Semester VI. The activity was carried out to let the students from the department know that whatever was possible for addressing all student related queries of career counseling, academic guidance, placements, higher education, developing all the relevant skill sets etc. along with providing suitable resources in order to achieve them.

Prof. Jayen Modi formally introduced the notion behind SPHERE for the department & highlighted various arenas which the students needed to focus upon be it higher education or placements or entrepreneurship etc. The primary goal was to ensure all students were readily equipped with the necessary skills in terms of technical & managerial in order to face the dynamic challenges of the outside world.

Based on the above, a virtual guidance & an online preparatory session for mentoring prospective students who were interested in opting for on-campus placements, was organized by Prof. Heenakausr Pendhari & Prof. Jayen Modi on Saturday 5th March 2022. The goal of this activity was to cater towards all doubts, questions, queries, aspirations or any other thought process which students would have before appearing for the placement drive. Students from the batch of B.E. (Electronics Engineering) – Semester VIII, Kraig Fernandes, Shamita Shetty, Nikhil Sharma & Saptarshi Chatterjee were the resource persons who described their own experience in detail.

All of them offered useful tips & guidelines on preparation for the placement process. They described their own personal experiences of the interviews & other selection processes & how they were able to go beyond it. Several questions were fielded from the audience by them towards the end of the session. Prospective students who attended the session were highly appreciative of the inputs given by their seniors which would serve as a stepping stone towards their journey.

3. Screenshot Images of SPHERE Activity



A SPHERE Activity on Preparation for Placement Process for T.E. (ECS) – Semester VI 4
Saturday 5th March 2022 at 03:00 pm IST onwards on Google Meet (online) for A.Y. 2021 – 2022

FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING
Department of Electronics & Computer Science (ECS)

Classwork for Basic Electrical Eng x Fr. Conceicao Rodrigues College x Meet - VIRTUAL GUIDANCE x Inbox (2) - jayen.modi@fragnel.e x

meet.google.com/mxs-smeh-wtr?authuser=0&pli=1

Apps Gmail YouTube Maps

9034 Nirmit Kark... heenak.pendhari ... 8565 ROBIN Tho... 8798 Anushka Bo... 9076 SACHIN PA... 8817 Max Johnson

8827 Siddhesh P... 8805 Benhur Fal... Kraig Fernandes 8825 Jaydeep Patil 8835 Nathaneal R... 9073 Arpita Kar

8846 Divyanshu ... 9067 Abhishek A... 8833 Yash Rangu... 9078 Fazil Shaikh 8844 Amandeep ... Nikhil Sharma

9071 Atharva Joshi Saptarshi Chatte... 8840 Vinay Shelke 8842 Shibu Math... 30 others You

15:13 | VIRTUAL GUIDANCE ON PREPARATORY ARRANGEMENTS

3:13 PM 3/5/2022

Classwork for Basic Electrical Eng x Fr. Conceicao Rodrigues College x Meet - VIRTUAL GUIDANCE x Inbox (2) - jayen.modi@fragnel.e x

meet.google.com/mxs-smeh-wtr?authuser=0&pli=1

Apps Gmail YouTube Maps

9034 Nirmit Karke... heenak.pendhari ... 8565 ROBIN Thom... 8798 Anushka Bo... 9076 SACHIN PAR... 8817 Max Johnson 8827 Siddhesh Patil 8805 Benhur Falc...

Kraig Fernandes 8825 Jaydeep Patil 8835 Nathaneal R... Shamita Shetty 8846 Divyanshu T... 9067 Abhishek At... 8833 Yash Ranguc... 9078 Fazil Shaikh

8844 Amandeep S... Nikhil Sharma 9071 Atharva Joshi Saptarshi Chatterj... 8840 Vinay Shelke 8842 Shibu Mathew 9073 Arpita Kar 8848 Sharon Shajan

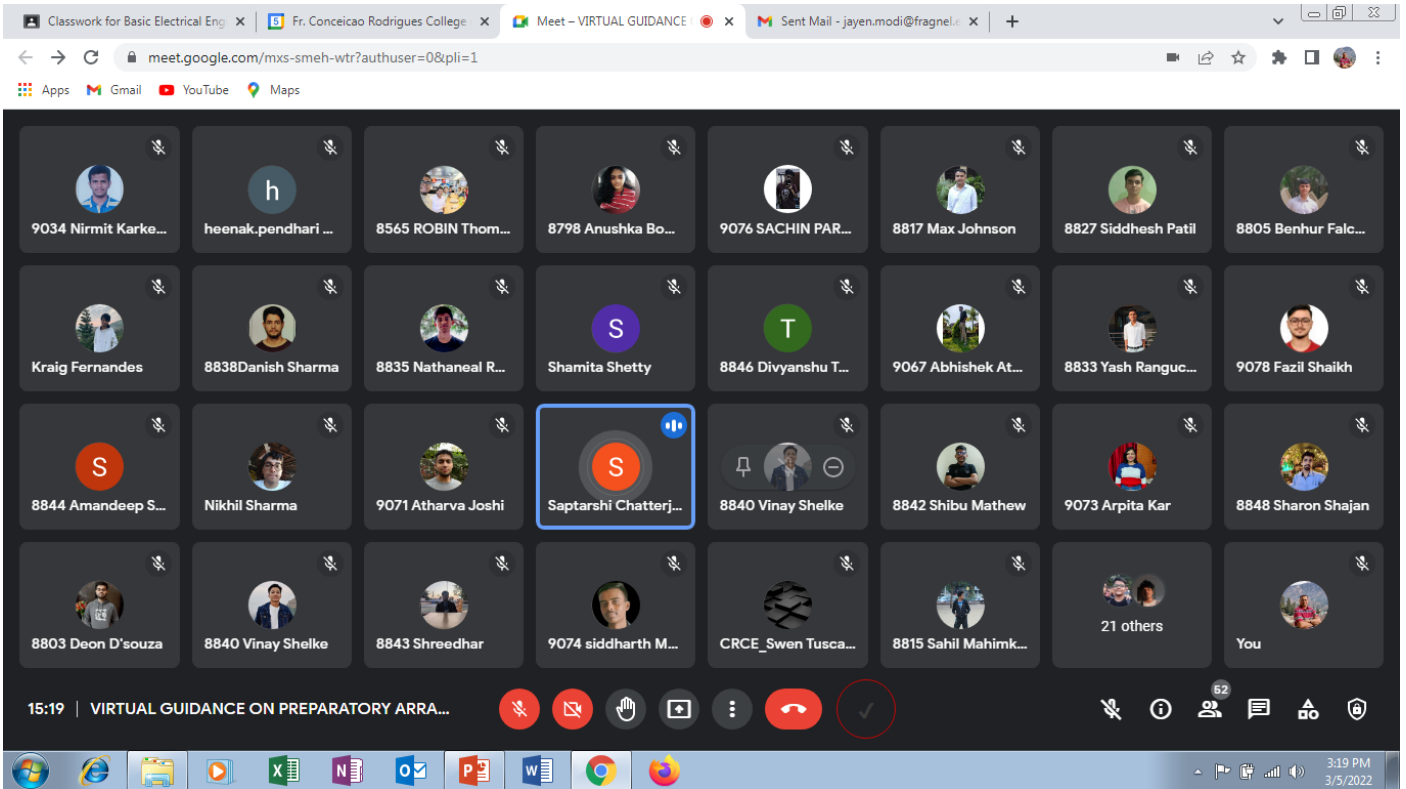
8803 Deon D'souza 8840 Vinay Shelke 8843 Shreedhar 9074 siddharth M... CRCE_Swen Tusca... 8815 Sahil Mahimk... 22 others You

15:14 | VIRTUAL GUIDANCE ON PREPARATORY ARRANGEMENTS

3:14 PM 3/5/2022

A SPHERE Activity on Preparation for Placement Process for T.E. (ECS) – Semester VI 5
Saturday 5th March 2022 at 03:00 pm IST onwards on Google Meet (online) for A.Y. 2021 – 2022

FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING
Department of Electronics & Computer Science (ECS)



Jayen Modi

Jayen Modi

Assistant Professor & Coordinator – Training & Placement,
Department of Electronics & Computer Science (ECS),
Fr. Conceicao Rodrigues College of Engineering (Fr. CRCE)

* * * * *

Daily Attendance Report for virtual-guidance-on-preparatory-arrangements-for-placement-process: 2022-03-05

Class Name: virtual-guidance-on-preparatory-arrangements-for-placement-process
14:47 Start: 14:47 End: 16:35 Duration: 108 min

Meet ID: mxs-smeh-wtr

Date: 2022-03-05

Earliest Arrivals:

Class Notes:

Virtual Guidance on Preparatory Arrangements for Placement Process - A SPHERE Activity (Saturday 5th March 2022)

| 58 Names (0 Absent) ☆ | 14:45 | 14:47 | 14:50 | 14:55 | 15:00 | 15:05 | 15:10 | 15:15 | 15:20 | 15:25 | 15:30 | 15:35 | 15:40 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ? 8565 Robin Thomas | | | | | | | | | | | | | |
| ? 8798 Anushka Bobade | | | | | | | | | | | | | |
| ? 8799 Aaron Carvalho | | | | | | | | | | | | | |
| ? 8801 Arnav Chawathe | | | | | | | | | | | | | |
| ? 8802 Adroit D'souza | | | | | | | | | | | | | |
| ? 8803 Deon D'souza | | | | | | | | | | | | | |
| ? 8805 Benhur Falcao | | | | | | | | | | | | | |
| ? 8815 Sahil Mahimkar | | | | | | | | | | | | | |
| ? 8816 Gautam Manuel | | | | | | | | | | | | | |
| ? 8817 Max Johnson | | | | | | | | | | | | | |
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| ? 8819 Aashay Mundy | | | | | | | | | | | | | |
| ? 8820 Rohit Nair | | | | | | | | | | | | | |
| ? 8825 Jaydeep Patil | | | | | | | | | | | | | |
| ? 8826 Omkar Patil | | | | | | | | | | | | | |
| ? 8827 Siddhesh Patil | | | | | | | | | | | | | |
| ? 8829 Micah Philip | | | | | | | | | | | | | |
| ? 8832 Abhay Rajbhar | | | | | | | | | | | | | |
| ? 8833 Yash Rangucha | | | | | | | | | | | | | |
| ? 8835 Nathaneal Rodrigues | | | | | | | | | | | | | |
| ? 8837 Sushant Shanbhag | | | | | | | | | | | | | |
| ? 8838 danish Sharma | | | | | | | | | | | | | |
| ? 8839 Sharvin Sunny | | | | | | | | | | | | | |
| ? 8840 Vinay Shelke | | | | | | | | | | | | | |
| ? 8842 Shibu Mathew | | | | | | | | | | | | | |
| ? 8843 Shreedhar | | | | | | | | | | | | | |
| ? 8844 Amandeep Singh | | | | | | | | | | | | | |
| ? 8845 Harsh Soni | | | | | | | | | | | | | |
| ? 8846 Divyanshu Tandon | | | | | | | | | | | | | |
| ? 8847 Spandan Thakor | | | | | | | | | | | | | |
| ? 8848 Sharon Shajan | | | | | | | | | | | | | |
| ? 8850 Saurabh Wable | | | | | | | | | | | | | |
| ? 8996 Mayur Gurav | | | | | | | | | | | | | |
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| ? 9034 Nirmal Karkera | | | | | | | | | | | | | |
| ? 9067 Abhishek Athani | | | | | | | | | | | | | |
| ? 9068 Rizwan Baig | | | | | | | | | | | | | |
| ? 9069 Blaise Correia | | | | | | | | | | | | | |
| ? 9070 Siddhant Gangawane | | | | | | | | | | | | | |
| ? 9071 Atharva Joshi | | | | | | | | | | | | | |
| ? 9072 Maina Kanaparthi | | | | | | | | | | | | | |
| ? 9073 Arpita Kar | | | | | | | | | | | | | |
| ? 9074 Siddharth Mhade | | | | | | | | | | | | | |
| ? 9075 Darshal Parmar | | | | | | | | | | | | | |
| ? 9076 Sachin Parmar | | | | | | | | | | | | | |
| ? 9077 Ajinkya Pathare | | | | | | | | | | | | | |
| ? 9078 Fazil Shaikh | | | | | | | | | | | | | |
| ? 9079 Moin Shaikh | | | | | | | | | | | | | |
| ? Crce_swen Tuscano | | | | | | | | | | | | | |
| ? Heenak.Pendhari Crce | | | | | | | | | | | | | |
| ? Jayen Modi Fr. Crce | | | | | | | | | | | | | |
| ? Kraig Fernandes | | | | | | | | | | | | | |
| ? Nikhil Sharma | | | | | | | | | | | | | |
| ? Saptarshi Chatterjee | | | | | | | | | | | | | |
| ? Shamita Shetty | | | | | | | | | | | | | |

Daily Attendance Legend:

- ✓ The student was present then exited, rejoined then exited again, and rejoined again, etc., etc
- The alternating background patterns indicate that the student may have left and rejoined the Meet
- ✓ The student was marked present by the teacher (but did not shown up in the Meet window)
- The student missed the entire class

REPORT ON INDUSTRIAL VISIT FOR INTERACTION WITH THE OUTSIDE WORLD & BRIDGING THE CURRICULUM GAP

TO

KAY VYBIN CORPORATION PVT. LTD. (PUNE)



Saturday, 23rd April 2022

**A Supporting Placements & Higher Education
Requirements in Engineering (SPHERE) Activity**

**T.E. (Electronics & Computer Science) – Semester VI
S.E. (Electronics & Computer Science) – Semester IV**

Academic Year 2021 – 2022



REPORT ON DEPARTMENT INDUSTRIAL VISIT

1. Activity / Event Overview & Details

| | |
|--|---|
| Type of Visit / SPHERE Activity | A Supporting Placements & Higher Education Requirements in Engineering (SPHERE) Activity of Industrial Visit at Department Level for Staff & Students |
| Name of Institution / Organization Visited | Kay Vybin Corporation Pvt. Ltd., Chakan (Pune) Industrial Robotics & Automation Solutions Provider (www.kayvybin.com) |
| Educational Visit Organizer & Coordinator | Jayen Modi Assistant Professor & Coordinator – Training & Placements Department of Electronics & Computer Science (ECS) |
| Intended Target Audience | T.E. (Electronics & Computer Science) – Semester VI S.E. (Electronics & Computer Science) – Semester IV |
| Staff Members Present for Educational Visit | <ul style="list-style-type: none"> Prof. Shilpa J. Patil – Associate Professor Prof. Vaibhav V. Godbole – Assistant Professor Prof. Swapnali A. Makdey – Assistant Professor Mrs. Pradnya P. Nandlaskar – Laboratory Technician |
| Day, Date & Timings | Saturday 23 rd April 2022 (full day) |
| Motivation & Objective of Educational Visit | A golden opportunity in the post-lockdown scenario to observe the actual working of any industrial facility in action, thereby trying to bridge the gap between theory & practice. With the global ecosystem entering the phase of Industry 4.0, visit to industrial robotics & automation solution provider company makes student learn & understand concepts of smart manufacturing, Internet of Things (IoT), robotics & other associated technologies thereby enriching their knowledge of the fourth generation industrial revolution (Industry 4.0) ! |
| Relevance to Academic Subjects (Curriculum) | <ul style="list-style-type: none"> Electronic Devices (ED) – Semester III Electronic Circuits (EC) – Semester IV Controls & Instrumentation (C&I) – Semester IV Sensors & Applications (S&A) – Semester V Industrial Automation (IA) – Semester VI Electronic Product Design (EPD) – Semester VI Internet of Things (IoT) – Semester VII Robotics (ROB) – Semester VIII |
| Relevance to Programme Outcomes (POs) | <ul style="list-style-type: none"> PO-5 :- Modern Tool Usage PO-6 :- Engineer & Society PO-7 :- Environment & Sustainability PO-9 :- Individual & Teamwork PO-11 :- Project Management & Finance PO-12 :- Life-long Learning |

3. Introduction to Kay Vybin Corporation Pvt. Ltd.

Kay Vybin Corporation was registered as a small scale industry with the Government of Maharashtra, in the year 1979. Being pioneer in this field for past four decades, innovation has been the hallmark of Kay Vybin Corporation resulting in products & services that best meet customer needs and expectation. Kay Vybin Corporation now is dedicated to the manufacture and supply of Resistance Welding Equipment which serves the entire needs of automobile weld shops & is currently the leading suppliers to the Indian automobile industry. Continuous support by their customers has boosted their confidence of sourcing out the best quality products internationally available from the world of industrial robotics & automation. Having an endeavor of expanding also in to the non-automotive industries, the company is now joining hands with new world leading manufacturers providing collaborative and light duty robotics solutions. With the addition of these new partners & their products, they now provide complete automation solutions to the industries like FMCG, Food & Beverages, Pharma, Electronics, Glass, White Goods, Packaging & Palletizing & many other.



4. Arrival, Welcome Address & Felicitations

The group was warmly welcomed at the industrial premises after an enjoyable but tiring bus ride from Mumbai. Amongst the dignitaries present on the dias were Mr. Bipin Sham Kulkarni, Managing Director of Kay Vybin Corporation Pvt. Ltd., Mr. Harshad Bhatt, Head of Administration, Mr. Deepak Balakunderi, Senior Manager & several other engineering staff members of the organization. Ms. Mohini Gautam of S.E. (ECS) – Semester IV introduced the college, students & staff members while Ms. Alisha Rawat of S.E. (ECS) – Semester IV assisted all the college staff members in handing over a token of appreciation to all the dignitaries on the dias. Mr. Bipin Sham Kulkarni, the Managing Director of the company briefly introduced their facility & acknowledged the warm reception from the institute. He briefed the students about the various opportunities the field of robotics & industrial automation had to offer especially in the automotive domain & took the staff members for a quick tour of the industrial premises.

FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING
Department of Electronics & Computer Science (ECS)



5. Introductory Seminar on Robotics & Industrial Automation

Mr. Deepak Balakunderi, Senior Manager & Head of Projects, Sales & Services introduced to the group the amazing world of industrial robotics & automation systems. He began with the basic introduction to robotics systems & then went into detail describing various components of robotic systems along with their application in the industrial domain. This close to one-hour introductory session was a classical textbook chapter about coverage of industrial robots but from a practical viewpoint. This seminar laid the foundation of the industrial visit from which students would later understand.



6. Industrial Facility Tour & Video Demonstration

After the highly informative session on introduction to robotics by Mr. Deepak Balakunderi, the group enjoyed a hearty lunch courtesy of the organization. Later in the afternoon, the company engineers took the students for a brief tour of the small but well-equipped industrial facility. They witnessed real-time & real-life videos of various industrial robotic systems in action particularly in the automotive industry. The company engineers also briefed the students about the various aspects of using industrial robotics systems – right from planning, system designing, layout & implementation to the actual operation & programming. This activity was very well received by the students since it widened their horizon & gave them valuable insights on the recent advances & technologies in industrial automation systems.



7. Practical Demonstration of Industrial Robotic Systems

The main attraction or the highlight of the industrial visit was a practical demonstration of their existing industrial robotic systems to the entire group. Students & staff members were requested to organize into discrete groups wherein each batch was guided to a robotic workplace by an engineering staff of the company. They thoroughly explained each & every robotic system present in the facility – the structure, configuration, electronic & mechanical components, power supply, tools & other implements, programming & system communication. This was certainly the best phase of the visit since the staff & students got to observe the robots in actions – something they were missing during online classes.





7. Outcomes, Takeaways & Conclusion

Industrial visits offer a great source to gain practical knowledge. Students can observe and learn as to how theatrical concepts are put to into action, thereby aiding their practical learning. Students are exposed to real working environment and shown how things are done in an organization. From the details about the management to the targets they achieve, everything is covered in these visits.

An industrial visit is first-hand experience to anything related to students' career. It helps gain an active learning experience. Traditional engineering colleges cannot afford to show the real methodologies of companies. Therefore, industrial visits are a great way to gain as much as practical and technical knowledge on area of interest. Be it challenges involved in a particular area of interest or nuances to master the field or scope, everything is covered in an industrial visit.

The gap between theoretical learning and practical exposure is actually bridged by industrial visits. The importance of industrial visits is such that it has been made mandatory in many institutions. Also, students are always curious about what kind of work they would be doing after entering their favorite industry. Through industrial visits, they can clarify their doubts and silence their curiosities. They can communicate with people and organizations to get a clear idea of their dream job.

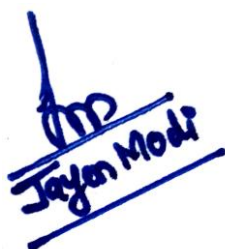


8. Acknowledgements

Heartfelt acknowledge to all staff members of Kay Vybin Corporation Pvt. Ltd. for etching out a complete day from their busy schedule in hosting the group for the industrial visit. The hospitality in terms of all arrangements & food preparations was excellent. The group was very well looked after with majority of queries reasonably answered by the staff of the organization. The undersigned wishes to thank Dr. Sapna Prabhu, Professor & Head of Department (ECS) for her support, encouragement & permission.

A very special mention is made of Sherwin Dsouza, Max Johnson, Mohini Gautam & Alisha Rawat – all students of the Department of Electronics & Computer Science (ECS) who coordinated this entire activity. Without their inputs, the industrial visit possibly wouldn't have materialized. Right from keeping track of students' registrations, collecting the money required for travel arrangements, updating the students on various aspects, actually making the bus bookings & finally managing the entire trip, the undersigned greatly acknowledges the contributions of Alisha, Mohini, Max & Sherwin.




Jayen Modi

Jayen Modi
Assistant Professor & Coordinator – Training & Placement,
Department of Electronics & Computer Science (ECS),
Fr. Conceicao Rodrigues College of Engineering (Fr. CRCE)



Jayen Modi Fr. CRCE <jayen.modi@fragnel.edu.in>

List for Students for Industrial Visit on Saturday 23rd April 2022

2 messages

Jayen Modi Fr. CRCE <jayen.modi@fragnel.edu.in>

17 April 2022 at 19:35

To: harshad.bhatt@kayvybin.com, Bipin Sham Kulkarni <bipin.kulkarni@kayvybin.com>

Cc: "CRCE, sapna" <sapna@fragnel.edu.in>, sapna@frcrce.ac.in

Respected Sir

Kindly find attached the final list of students for the upcoming industrial visit on Saturday 23rd April 2022 at your esteemed premises. The total number of students are 56, all of whom are fully vaccinated. A total of 4 staff members (including myself) will also be accompanying the group. The attached list can be considered final as all 56 students have contributed towards the travel expenses incurred from Mumbai.

As per our conversation earlier, we will try our best to reach your premises latest by 11:00 am IST on Saturday 23rd April 2022. We greatly appreciate the permission granted to visit your premises & your kind gesture to provide a working lunch for all the visiting staff & students.

Thanking you & regards,

Jayen Modi

**Student List for I.V. 23-04-2022.pdf**

79K

Harshad Bhatt <harshad.bhatt@kayvybin.com>

18 April 2022 at 10:26

To: "Jayen Modi Fr. CRCE" <jayen.modi@fragnel.edu.in>, Bipin Sham Kulkarni <bipin.kulkarni@kayvybin.com>

Cc: "CRCE, sapna" <sapna@fragnel.edu.in>, sapna@frcrce.ac.in

Dear Mr. Jayen Modi,

We here with note the list of students and we are confirm your Industrial Educational visit at our Robotic and Automation facility at Chakan, Pune.

Thanks & regards**Harshad Bhatt.****Manager – Admin.****9702983977****Kay Vybin Corporation**

5 / C, Raju Industrial Estate,

Penkar Pada Road,

Near Dahisar Check Naka,

Off. Mumbai, Mira - 401 104

Tel. No.: +91 22 2896 4671 / 2897 4972

E-mail: harshad.bhatt@kayvybin.com

Website: www.kayvybin.com

This e-mail may contain confidential and/or privileged information. If you are not the intended recipient (or have received this e-mail in error) please notify the sender immediately and destroy this e-mail. Any unauthorized copying, disclosure, or distribution of contents of this e-mail is strictly forbidden.

Legal, Kay Vybin Corporation

[Quoted text hidden]

FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING, BANDRA (W), MUMBAI - 400050.**Department of Electronics & Computer Science (ECS)****LIST OF STUDENTS CONFIRMING PARTICIPATION FOR INDUSTRIAL VISIT****Name of Industry :-** Kay Vybin Corporation (www.kayvybin.com)**Domain / Functional Area :-** Robotics & Industrial Automation Solutions**Location / Place of Visit :-** Chakan, Pune (Maharashtra)**Day, Date & Time :-** Saturday 23rd April 2022 (Full Day)

| No. | Email Address | Name of Student | Roll Number | Contact Number | Branch | Attach PDF for Vaccine Certificate |
|-----|-------------------------|----------------------------|-------------|----------------|--------|---|
| 1 | crce.9131.ecs@gmail.com | Aayush Rajesh Juhukar | 9131 | 8657255064 | SE ECS | https://drive.google.com/open?id=1ZidlwCdEEoJJyva3o9cwlPG8vtM123S0 |
| 2 | crce.9112.ecs@gmail.com | Akash Agre | 9112 | 8983399417 | SE ECS | https://drive.google.com/open?id=1VKm-fULu3bwOmDH8m_keoGM2jVmoPgHc |
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