



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(Unit of Alva's Education Foundation (R), Moodbidri)

Affiliated to Visvesvaraya Technological University, Belagavi &

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DEPARTMENT OF ECE TECHNICAL TALK REPORT

July-2023

TECHNICAL TALK REPORT



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Report of Technical Talk

Topic: "Road map to Crack Core company Jobs"

Resource Person: CHARAN RAJ S

ATC System Designer, Alstom Transport India PVT Ltd,
Bangalore

Date: 20-07-2023 Time: 3:00 PM to 4:30 PM.

Alva's Institute of Engineering & Technology
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

evtonics
Presents

TECHNICAL TALK

By Mr. CHARAN RAJ S
ATC System Designer
Alstom Transport India PVT Ltd, Bangalore

Topic: "Road map to Crack Core company Jobs"

Date: 20/07/2023

Department of ECE, conducted the technical talk on "**Road map to Crack Core company Jobs**" for the students of 4th semester - ECE on 20th July 2023. Resource person for the talk was Mr. Charan Raj S. who is Alumni of our College and passed out in the year 2018-19. He worked in TVM Signaling and Transportation Systems Pvt Ltd, Bangalore from July 2019 - Nov 2021. Presently he is working as ATC System Designer in

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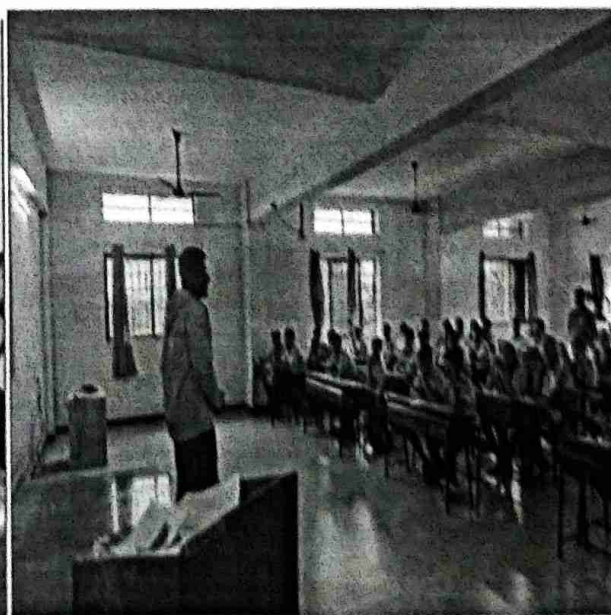
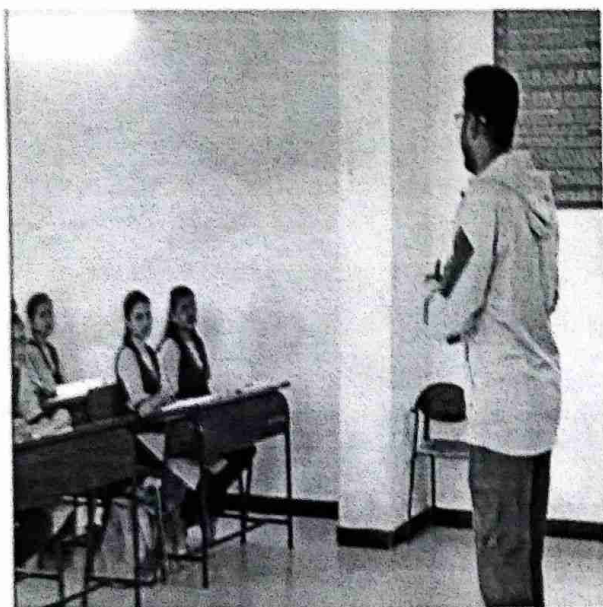
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Alstom Transport India PVT Ltd, Bangalore. He is taking Projects and Responsibilities as Montreal Metro Project -REM Designing specifications using the ALSTOM U4 moving block system for ATC and data preparation/validation tasks for deployment of onboard and trackside. Adhering to the Project V-cycle. Designing a beacon layout. Placement of beacons in accordance with the project's rules for beacon subdivision. Trackside and Onboard data preparation and quick analysis to debug the issues. Troubleshooting for Interfaces and Data.



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Talk was started with welcoming of Mr. Charan Raj S. by Dr. DV Manjunatha Senior Professor, Department of ECE. Talk on “**Road map to Crack Core company Jobs**” was presented to encourage students in putting efforts to get core company jobs. He expressed that today there is nothing much difference between Core and IT field for an ECE student. Both fields demand good command on programming. The language may differ. But both fields demand programming skill. So it is must for every ECE student to develop programming skill. Since lots of demand is there in Electronics Core field which is easily available for ECE students, He highlighted that every ECE student must master C programming skill.

In his talk he pointed out following core profiles for electronics engineer like Microelectronics, VLSI Design, Embedded System, Signal Processing etc.

1. Microelectronics- In microelectronics, you will be working on the device level. For that you need to focus on semiconductor physics, fabrication of semiconductor ICs etc.

2. VLSI- In VLSI there are three parts;

(a) Digital VLSI design- For Digital VLSI design you should focus on digital electronics and HDL(VHDL, Verilog). There are plenty of companies which work in digital domain like Intel, Qualcomm, TI etc.

(b) Analog VLSI design- For Analog VLSI design you should focus on analog circuits and analog IC design tools like Cadence, Mentor Graphics etc. In this area, there are few companies compared to digital VLSI design.

(c) Mixed Signal IC design- This is the combination of Analog and Digital. To work in this area you need to be good at both analog and digital VLSI design.

3. Embedded System- For the embedded system, you should learn about various microcontrollers(8085, 8086 etc.) and embedded coding.

4. Signal Processing- For signal processing, you should focus on DSP and programming languages(like MATLAB, OCTAVE, Machine Learning etc.)

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

He told that many Core companies hire Electrical and Communication graduates. The major core companies that hire Electrical and Communication graduates include,

- Texas Instruments
- Analog Devices
- MicroChips
- Intel
- Amd
- Qualcomm
- GE
- ABB
- Schneider Electric
- Volvo
- Cisco
- Arista Networks
- Tejus Networks
- Infinera
- Bosch
- Continental

To get into a core company students have to have good command over the major subjects of ECE. Some of the most important subjects that you need to know, for ECE placements are:-

1. Electronic Devices and Circuits
2. Control Systems
3. Microprocessors And Microcontrollers
4. Switching Theory And Logical design
5. Analog and Digital Communications

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Core Companies want to hire ECE graduates who have a good knowledge of their core subjects. Additionally, students can develop skills that are in demand in the Electrical and Communications industry. This includes:-

1. Internet of Things
2. Microprocessor and Microcontroller
3. Embedded Systems
4. PCB
5. VLSI
6. VHDL

Finally Prof. Sudhakara HM Associate Professor, department of ECE expressed gratitude for giving such an informative talk to the students.

16/4

Technical talk Coordinator

Siddesh

HOD

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Dept. Of Electronics & Communication
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Technical talk Attendance

Topic: "Road map to Crack Core company Jobs"

Resource person: Mr. Charan Raj S, ATC System Designer,
Alstom Transport India PVT Ltd, Bangalore

Class: IV B

Date: 20/07/2023

#	USN	Student Name	
1.	4AL21EC056	Nivedita T Patil	
2.	4AL21EC057	Prajyot Rajgonda	
3.	4AL21EC058	Pavan	
4.	4AL21EC059	Pooja Venkatesh	
5.	4AL21EC060	Prajwal L R	
6.	4AL21EC061	Prajwal Malabagi	
7.	4AL21EC063	Prakruthi K P	
8.	4AL21EC064	Prasanna Kumar B I	
9.	4AL21EC065	Rakesh	
10.	4AL21EC066	Raksha	
11.	4AL21EC067	Rakshith	
12.	4AL21EC069	Ravi Kovi	
13.	4AL21EC070	Sahana	
14.	4AL21EC071	Saikumar	
15.	4AL21EC073	Sanjana Shrikant	
16.	4AL21EC074	Santhosha S	
17.	4AL21EC076	Shashank C	
18.	4AL21EC077	Shashank Swami	
19.	4AL21EC078	Shashank Viresh	
20.	4AL21EC079	Shivakumar K V	
21.	4AL21EC080	Shravya Shetty	
22.	4AL21EC081	Shreya Chandrahasa	
23.	4AL21EC082	Shreya K R	
24.	4AL21EC083	Shreyas S Naik	
25.	4AL21EC084	Shruthi	
26.	4AL21EC085	Siddharoodh B	
27.	4AL21EC086	Sinchana C K	
28.	4AL21EC087	Sinchana R	
29.	4AL21EC088	Sinchana RD	
30.	4AL21EC089	Sinchana.S.D	
31.	4AL21EC090	Sindhu KS	

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32.	4AL21EC091	Sindhu S Patil	
33.	4AL21EC092	Sonali	
34.	4AL21EC093	Srishti S Shetty	
35.	4AL21EC094	Suma K G	Suma K G
36.	4AL21EC095	Sumith N	
37.	4AL21EC096	Sushrutha N	
38.	4AL21EC097	Tanishka	Tanishka
39.	4AL21EC098	Tej Ashok	
40.	4AL21EC099	Thejas J Kotian	
41.	4AL21EC100	Thejashwi P	
42.	4AL21EC101	Thrisha P Hegde	
43.	4AL21EC102	Usha Rani.N	Usha Rani.N
44.	4AL21EC103	V Venkta Sainihith	
45.	4AL21EC105	Vaishnavi Vithal	
46.	4AL21EC106	Varshini Shetty	
47.	4AL21EC107	Varun Kumar R	Varun Kumar R
48.	4AL21EC108	Varun Devaramani	
49.	4AL21EC109	Veena Basavaraj	
50.	4AL21EC110	Videesh D Shetty	
51.	4AL21EC111	Vishal	
52.	4AL21EC112	Vishwanath HB	
53.	4AL21EC113	Yashaswini T R	
54.	4AL21EC114	Yashwanth GT	
55.	4AL21EC115	Yogeshwar M	
56.	4AL20EC009	C. Navajeevan	
57.	4AL22EC404	Navaneeth	

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Technical talk Attendance

Topic: "Road map to Crack Core company Jobs"

Resource person: Mr. Charan Raj S, ATC System Designer,
Alstom Transport India PVT Ltd, Bangalore

Class: IV A

Date: 20/07/2023

#	USN	Student Name	
1.	4AL21EC001	A. S. Pavithra	
2.	4AL21EC002	Abhishek S	<i>Abhishek S</i>
3.	4AL21EC003	Akash A H	<i>Akash A H</i>
4.	4AL21EC005	Akshay Kumar H	<i>Akshay Kumar H</i>
5.	4AL21EC006	Amaresha M	<i>Amaresha M</i>
6.	4AL21EC007	Anchita	
7.	4AL21EC008	Anush S Amargol	<i>Anush S Amargol</i>
8.	4AL21EC009	B.Vennela	
9.	4AL21EC010	Basangouda Patil	<i>Basangouda Patil</i>
10.	4AL21EC011	Basavakiran	<i>Basavakiran</i>
11.	4AL21EC013	Bharath N	
12.	4AL21EC014	Bhaskar T	
13.	4AL21EC015	Bhavana.B	<i>Bhavana</i>
14.	4AL21EC016	Chakravarthy Jaipal T	
15.	4AL21EC018	Charan Raj R V	<i>Charan Raj R V</i>
16.	4AL21EC019	Chethan M	<i>Chethan M</i>
17.	4AL21EC020	Chethan K.M	<i>Chethan K.M</i>
18.	4AL21EC021	Chiranjeevi U B	<i>Chiranjeevi U B</i>
19.	4AL21EC022	Chithra L	
20.	4AL21EC023	Darshan T S	
21.	4AL21EC024	Darshana Basavara;	<i>Darshana Basavara;</i>
22.	4AL21EC025	Deeksha S	
23.	4AL21EC026	Deekshith D Shetty	<i>Deekshith D Shetty</i>
24.	4AL21EC027	Diya	
25.	4AL21EC028	Gagan H S	<i>Gagan H S</i>
26.	4AL21EC029	Gowtham M A	<i>Gowtham M A</i>
27.	4AL21EC030	Harshitha B S	<i>Harshitha B S</i>
28.	4AL21EC031	Hemanth R	<i>Hemanth R</i>
29.	4AL21EC032	Hemashri H N	<i>Hemashri H N</i>



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30.	4AL21EC033	Huriya Sanadi	
31.	4AL21EC034	Inchara S Shetty	
32.	4AL21EC035	Jeevan K G	
33.	4AL21EC036	Jeevan V	
34.	4AL21EC037	Kalmesh G	
35.	4AL21EC038	Kaluva Chandrashek	
36.	4AL21EC039	Keertinan S	
37.	4AL21EC040	Kiran Kashyap M	
38.	4AL21EC041	Kishor U	
39.	4AL21EC042	Lakshan	
40.	4AL21EC043	Lakshmi Keerthana	
41.	4AL21EC044	Lekhan T	
42.	4AL21EC045	Madugonde Sandeep	
43.	4AL21EC046	Mahantesh	
44.	4AL21EC047	Mailaragouda N P	
45.	4AL21EC049	Manupriya Y	
46.	4AL21EC050	Meghana L	
47.	4AL21EC051	Mohammed Iqbal	
48.	4AL21EC052	Muhammad Razi	
49.	4AL21EC053	Nagabhushan H K	
50.	4AL21EC054	Naveen Kumar H S	
51.	4AL21EC062	Prajwal S Das	
52.	4AL21EC068	Ramya R	
53.	4AL21EC104	Vaishnavi S	
54.	4AL22EC400	Abhishek P T	
55.	4AL22EC401	Chetana A B	
56.	4AL22EC402	Chetan G Kur Gouda	
57.	4AL22EC403	Lakshmi P B	
58.	4AL22EC405	Pallavi B	
59.	4AL22EC406	Shamshuddin	
60.	4AL22EC407	Suhani R J	
61.	4AL22EC408	Veeresh S V	

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