

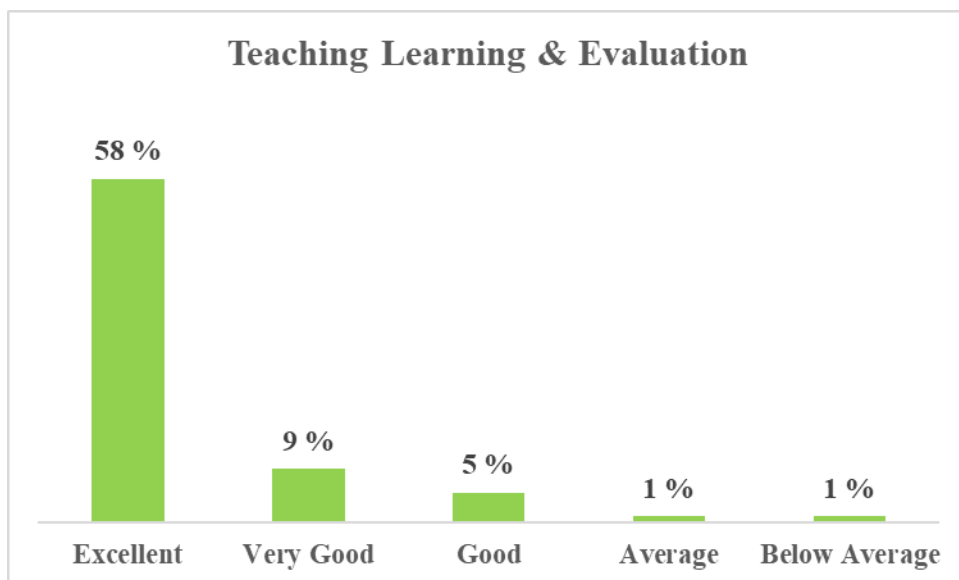
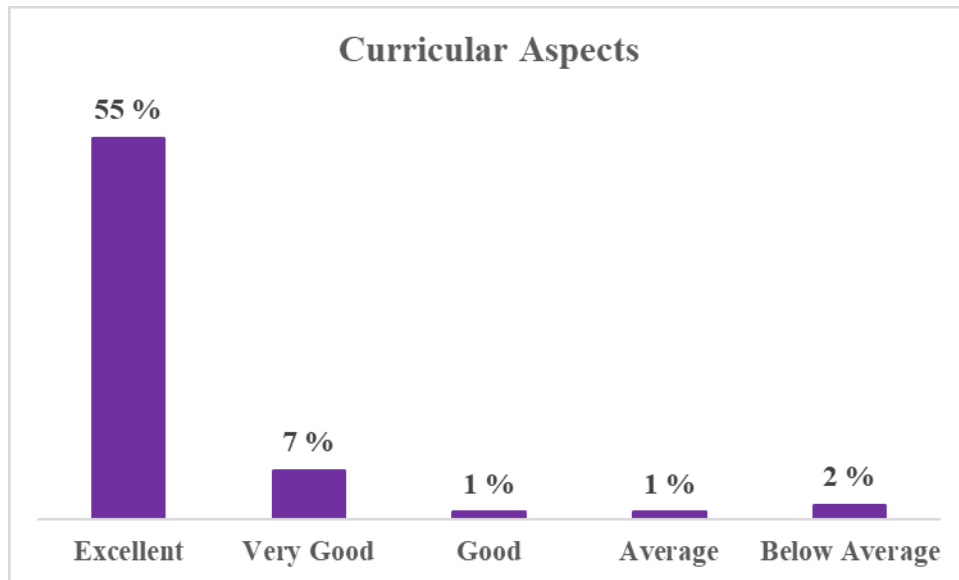


**CHARUSAT**  
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

**FEEDBACK ANALYSIS  
REPORT  
OF STAKEHOLDERS  
(2022-23)**

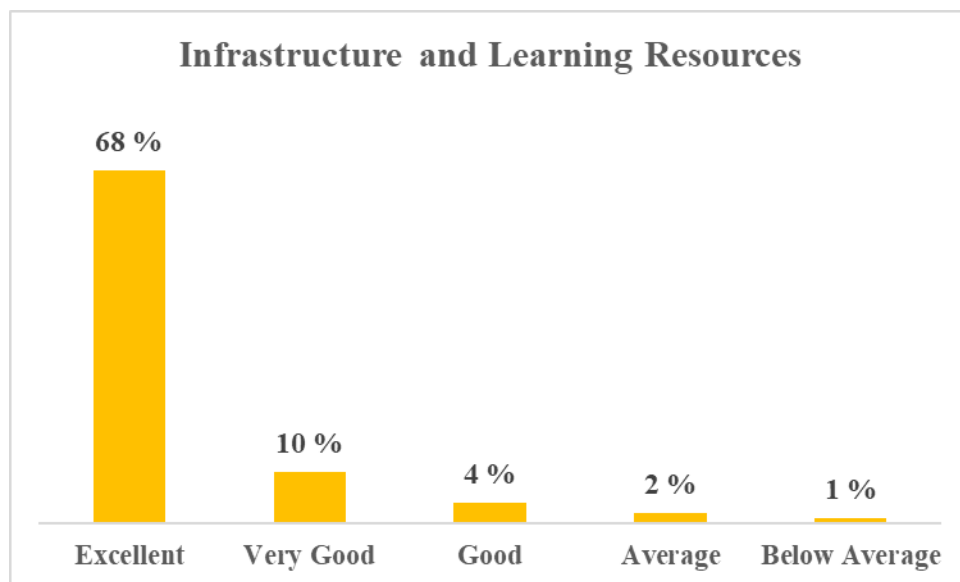
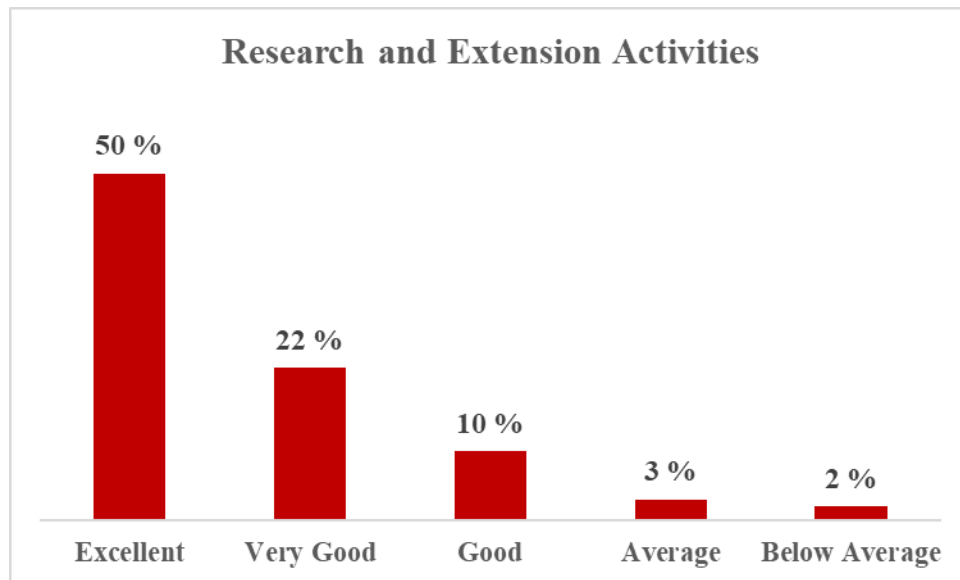
**Charotar University of Science & Technology [CHARUSAT]  
Faculty of Technology & Engineering  
Chandubhai S. Patel Institute of Technology  
V. T. Patel Department of EC Engineering**

**Analysis Report of Feedback Received from different Stack Holders  
(AY: 2022-23)**



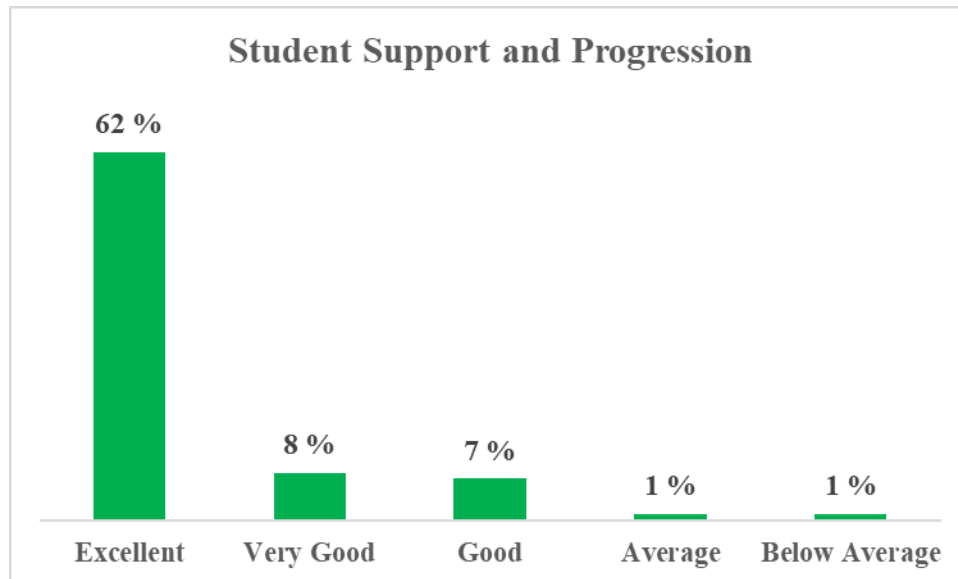
**Charotar University of Science & Technology [CHARUSAT]  
Faculty of Technology & Engineering  
Chandubhai S. Patel Institute of Technology  
V. T. Patel Department of EC Engineering**

**Analysis Report of Feedback Received from different Stack Holders  
(AY: 2022-23)**



**Charotar University of Science & Technology [CHARUSAT]  
Faculty of Technology & Engineering  
Chandubhai S. Patel Institute of Technology  
V. T. Patel Department of EC Engineering**

**Analysis Report of Feedback Received from different Stack Holders  
(AY: 2022-23)**



**Analysis Report of Feedback Received from different Stack Holders  
AY 2022-23****Students:**

As per the students' opinion, the curriculum is optimistically designed.

All of the students gave the positive feedback about the curriculum. Inclusion of software and industrial visit seems attractive to students.

Most of students like the inclusion of Advanced level subject, more practical knowledge, and Advanced Microcontroller based subjects in curriculum. They are satisfied and happy with the educational goals included in curriculum. Students appreciated about the practical weightage given in curriculum.

**Alumni:**

As per alumnus, embedded and VLSI based courses are very helpful. Alumni believes that the curriculum helps to develop the holistic understanding. They appreciated the inclusion of summer internships as an industrial training is the part of curriculum. The conclusion of alumni feedback is to incorporate the recent trends and give more weightage and time to final year project in curriculum.

**Experts from Academia:**

Expert from other institutes and own institute emphasis more focus on programming based subjects. The general feedback given to include advanced concepts in Programming subjects. All aspects to develop technical skill are taken care. New trends of courses are added is positive side of curriculum. They like the different online platform used for execution of courses. Very well developed curriculum but still there is scope of improvement.

**Industry / Employer:**

The industry people gave about well-designed curriculum and adequate course contents in line with current industry trends. They had appreciated the industry level projects developed by the students in projects and internships.

**Analysis Report of Feedback Received from different Stack Holders  
AY 2022-23**

**Suggestion:**

1. Certificate Course on VLSI Deign must be initiated.
2. Curriculum of Minor Subject must be incorporated with the course Sensor Network.
3. C programming course must be restructure.
4. Minor course on Data Science must be initiated.

**Action taken:**

The following action taken from the feedback of various stack holders.

**Note: The suggestions were already incorporated.**

1. STM32 platform as an advanced microcontroller is already available in the syllabus of 3<sup>rd</sup> Year EC.

**Suggestion to be incorporated in upcoming Board of Study meeting.**

1. Certificate Course on VLSI Design is proposed.
2. Curriculum of Sensor Network is design and proposed.
3. Curriculum of C Programming is restructured and proposed as Basic C Programming and Advanced C Programming.
4. Primary structure of Minor Course on Data Science is prepared and proposed.



**Dr. Upesh Patel**  
HoD, EC Department,  
FTE, CHARUSAT





**CHARUSAT**  
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

**FEEDBACK ACTION TAKEN  
REPORT OF  
STAKEHOLDERS  
(2022-23)**

# CHARUSAT

Date: 1/6/2022

**Subject:** Action Plan from various feedback received

**Reference Department:** EC Department

## 1. Action plan from Feedback received from employers.

#	Suggestion	Action Plan
1	More Courses based on VLSI must be in the Syllabus	Certification Course in VLSI Design is going to commence from new Academic Year. (Refer Annexure – I, Proceedings 18.02)
2	Content of C Programming must be bifurcated in two parts.	C programming course is bifurcated into two parts as Basics of C Programming and Advanced C Programming. (Refer Annexure – II, Proceedings 19.01)

## 2. Action plan from Feedback received from Teachers (End semester course feedback)

#	Suggestion	Action Plan
1	Kotlin language should be adopted in the curriculum	Laboratory of the Course EC385 Mobile Application Development is based on Kotlin Language. (Refer Annexure – III)

## 3. Action plan from Feedback received from Alumni

#	Suggestion	Action Plan
1	More Practical exposure in Python	More Lab Practicals are added (Refer Annexure – IV)

## 4. Action plan from Feedback received from final year students

#	Suggestion	Action Plan
1	FreeRTOS and STM32 based practicals needs to be add in curriculum	FreeRTOS and STM32 based practicals added in the Course EC364 Embedded System (Refer Annexure – V)



5. Action plan from Feedback received from Parents.

#	Suggestion	Action Plan
1	- Assignment need to be float for every subjects	- Subject wise Individual Assignment is floated in Online Platform like Google Classroom (Refer Annexure – VI)
2	- Placement and Mentor are good. - VLSI and embedded domain placement are good but need to explore telecommunication.	CDPC need to placement emphasis on telecommunication company. (Refer Annexure – VII)

*Upesh Patel*

Dr. Upesh Patel  
HoD, EC Department,  
FTE, CHARUSAT



## Annexure - I

**CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY**  
**FACULTY OF TECHNOLOGY & ENGINEERING**  
**V.T. Patel Department of Electronics and Communication Engineering**

**Minutes – 18<sup>th</sup> Meeting of Board of Studies**

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<b>Date</b>	:	<b>October, 01, 2022, Saturday</b>
<b>Time</b>	:	<b>10:00 am</b>
<b>Mode</b>	:	<b>Online</b>

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The meeting of the 18<sup>th</sup> Board of Studies, Department of Electronics and Communication (E&C) Engineering, Faculty of Technology, Charotar University of Science and Technology (CHARUSAT) was held online as per schedule.

The following members were present:

1.	Dr. Trushit Upadhyaya	<b>Chairman</b>	Professor & HoD, Department of E&C Engineering, CSPIT
2.	Dr. Y.P.Kosta	<b>Member</b>	Professor, Department of E&C Engineering, CSPIT
3.	Dr. Arpita Patel	<b>Member</b>	Associate Professor, Department of E&C Engineering, CSPIT
4.	Dr. Brijesh Shah	<b>Member</b>	Associate Professor, Department of E&C Engineering, CSPIT
5.	Dr. Jitendra Chaudhari	<b>Member</b>	Associate Professor, Department of E&C Engineering, CSPIT
6.	Dr. Killol Pandya	<b>Member</b>	Associate Professor, Department of E&C Engineering, CSPIT
7.	Dr. Upesh Patel	<b>Member</b>	Assistant Professor, Department of E&C Engineering, CSPIT
8.	Dr. Sanjeev Gupta	<b>Member</b>	Professor, DAIICT, Gandhinagar
9.	Mr. Nilesh Ranpura	<b>Member</b>	Director, e-infochips, An Arrow Company, Ahmedabad
10.	Dr. Amit Bhatt	<b>Member</b>	Professor, DAIICT, Gandhinagar
11.	Mr. Jayesh Pabari	<b>Member</b>	Scientist, Physical Research Laboratory (PRL), Ahmedabad
12.	Mr. Bhaskar Trivedi	<b>Member</b>	Senior Director, PerfectVIP, Ahmedabad
13.	Dr. Upena Dalal	<b>Member</b>	Professor, Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat
14.	Mr. Jignesh Patel	<b>Member</b>	Founder, Energy System Engineering, Baroda
15.	Mr. Pinal Patel	<b>Member</b>	Distinguished Alumni & Associate Director, e-infochips, An Arrow Company
16.	Mr. Akshat Patel (19EC037)	<b>Member</b>	Student representative, Department of E&C Engineering, CSPIT

17.	Rajvi Padaria (19EC030)	<b>Member</b>	Student representative, Department of E&C Engineering, CSPIT
18.	Prof. Miral Desai	<b>Invitee</b>	Assistant Professor, Department of E&C Engineering, CSPIT

### **Agenda Proceedings & Resolutions: -**

**Item 18.01: For Discussion:** To review and approve the Teaching & Examination scheme and detailed syllabus of B.Tech - Choice Based Credit System (CBCS) for Electronics and Communication.

### **Proceedings 18.01:**

- Board of Studies members reviewed and discussed teaching scheme and detailed syllabus of B Tech under Choice Based Credit System (CBCS). The following new courses are introduced or the credit scheme has been changed. The courses are listed below:

<b>Semester</b>	<b>Course Name</b>
2	Basics of Digital Electronics
3	Design of Digital Circuits
3	Network Theory
4	Python Programming
5	Electromagnetics and Antenna Technology
5	Verilog Programming
5	Simulation on RF and Microwave Engineering
6	Design, Testing and Verification
7	Introduction to Artificial Intelligence
7	Optical Communication
7	Image Processing and Computer Vision

### **Resolution 18.01:**

- The Board approved the teaching scheme and syllabi of B. Tech program under Choice Based Credit System (CBCS). The teaching and examination scheme along with the detailed syllabus is attached as an **Annexure I**.
- The total credit of the course shall be 176.

**Item 18.02: For Discussion:** To discuss about the Certificate course in VLSI Design.

**Proceedings 18.02 :**

- Board of Studies members reviewed and discussed teaching scheme and detailed syllabus of Certificate course.

**Resolution 18.02:**

- The board members appreciated and emphasized the need of industry requirement oriented certificate course.
- The Board approved the teaching scheme and syllabi of Certificate course in VLSI design. The details about the courses and syllabus is attached as an **Annexure II**.

**Item 18.03: For Discussion:** Analysis and discussion on the semester end results of the students and steps taken for the remedial actions.

**Proceedings 18.03 :**

- The University examination results were discussed with BoS members. Last three academic years' results comparison was carried out. Total number of students having distinction, first class and second class was presented to board members.
- Action plan and on-going activities of department were also discussed for the improvement of the overall result.

**Resolution 18.03:**

- BoS member found results satisfactory for all the years of B.Tech. The Year-on-year Result Analysis and remedial actions' document are attached as an **Annexure III**.

**Item 18.04: For Discussion:** Analysis of campus placement and discussion of related activities to enhance them further.

**Proceedings 18.04 :**

- BoS members discussed about Training & Placement and internship activity of the students.

**Resolution - 18. 04:**

- Board members were satisfied with the efforts of departmental T&P Committee. It was suggested to approach industries on regular interval and maintain healthy relationship with them.
- The placement statistics are attached as an **Annexure IV**.

**Item 18.05 : For Discussion:** Panel of examiners for winter and summer examination

**Proceedings & Resolution - 18.05:**

- BoS members approved the Internal and External examiners panel.
- Since the examiner list is confidential, it shall be supplied to University Examination Section separately.

**Item 18.06: For Discussion:** Reduction of numbers of intake in the B.Tech EC Engineering.

**Proceedings & Resolution 18.06 :**

- The historical changes in the UG and PG in the Electronics and Communication Engineering department was prepared. BoS members approved reduction in the seats of UG programme.
- The historical change of the UG and PG of Electronics and Communication Engineering department is attached as **Annexure V**.

**Item 18.07: For Discussion:** Discussion on department Academic and Administrative report of the academic year 2021- 22.

**Proceedings & Resolution - 18.07:**

- Chairman, BoS explained the details of all the activities for the academic year 2021- 22. Board members appreciated the efforts by the department staff members in co-curricular & research activities.

**Item 18.08: For Discussion:** To discuss and approve the teaching scheme and detailed syllabus of Minors in “Robotics and Internet of Things” for 6<sup>th</sup> and 7<sup>th</sup> semester of B.Tech.

**Proceedings 18.08:**

- Board of Studies members reviewed and discussed teaching scheme and detailed syllabus of Minor specialization.

Sr. No	Name of the course	Offered in Semester	Credits
1.	Elements of Robotics	6	05
2.	Sensor Networks	7	05

**Resolution - 18.08:**

- Board members approved the courses of Minor program.

**Item 18.09: For Discussion:** The synopsis approval of research scholars of the department.

**Proceedings 18.09 :**

- Synopsis of PhD research scholars were presented to the board members.
- BoS members discussed about the articles published by the research scholars in WoS/SJR journals and conferences.

**Resolution - 18. 09:**

- Board members appreciated that department promotes research publications in WoS/SJR indexed journals.
- Details of research scholars' publications are attached as an Annexure VI.

**Item 18.10: For Discussion:** For Discussion and Suggestion: Discussion on effective implementation of Outcome Based Education (OBE).

**Proceedings & Resolution 18.10 :**

- For outcome based education "Performance Indicators" are important factor. The Performance indicator were presented to BoS for discussion, suggestion and Approval. Achievement of Program Outcomes were discussed.
- The Performance indicators were approved and attached as Annexure VII. The attainment of the Program Outcomes and its comments are attached as Annexure VIII.

**Item 18.11: For Discussion:** The feedback of the stakeholders including exit (last day) feedback of the students to improve the various best practices adopted by the departments.

**Proceedings & Resolution 18.11 :**

- The final year students' feedback and different stake holder feedback were discussed. Few suggestions of different stake holder like including micro project/field work, hardware, MOOC courses are incorporated.
- The overall feedback analysis is attached as **Annexure IX.**

**Item 18.12: For Discussion:** For information and Discussion: Technical expert scrutiny report on question papers of AY 2021-22.

**Proceedings & Resolution 18.12 :**

- Evaluation of University exam papers as per bloom's taxonomy were done by faculty members. The question papers were balanced as per different levels of blooms taxonomy and had very good mark distribution as per syllabus.
- Experts had welcomed the approach and asked continuing this practice of drawing balanced question paper. The Analysis is listed as **Annexure X**.

*The meeting ended with a vote of thanks.*

A handwritten signature in blue ink that reads "Upesh Patel" with a horizontal line underneath the name.

**Dr. Upesh Patel  
Chairman, BoS, EC Department,  
FTE, CHARUSAT**

**Date: October 1, 2022**

## Annexure - II

**CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY**  
**FACULTY OF TECHNOLOGY & ENGINEERING**  
**V.T. Patel Department of Electronics and Communication Engineering**

### Minutes – 19<sup>th</sup> Meeting of Board of Studies

**Date: March 15, 2023, Wednesday**

**Time: 03:00 pm**

**Mode: Online**

The meeting of the 19<sup>th</sup> Board of Studies, Department of Electronics and Communication (E&C) Engineering, Faculty of Technology, Charotar University of Science and Technology (CHARUSAT) was held online as per schedule.

The following members were present:

1.	Dr. Upesh Patel	<b>Chairman</b>	HoD, Department of E&C Engineering, CSPIT
2.	Dr. Trushit Upadhyaya	<b>Member</b>	Professor, Department of E&C Engineering, CSPIT
3.	Dr. Y.P.Kosta	<b>Member</b>	Professor, Department of E&C Engineering, CSPIT
4.	Dr. Arpita Patel	<b>Member</b>	Associate Professor, Department of E&C Engineering, CSPIT
5.	Dr. Jitendra Chaudhari	<b>Member</b>	Associate Professor, Department of E&C Engineering, CSPIT
6.	Dr. Killol Pandya	<b>Member</b>	Associate Professor, Department of E&C Engineering, CSPIT
7.	Dr. Upena Dalal	<b>Member</b>	Professor, Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat
8.	Dr. Jayesh Pabari	<b>Member</b>	Scientist, Physical Research Laboratory (PRL), Ahmedabad
9.	Dr. Jignesh Patel	<b>Member</b>	Founder, Energy System Engineering, Baroda
10.	Mr. Pinal Patel	<b>Member</b>	Distinguished Alumni & Associate Director, e-infochips, An Arrow Company
11.	Mr. Akshat Patel (19EC037)	<b>Member</b>	Student representative, Department of E&C Engineering, CSPIT
12.	Rajvi Padaria (19EC030)	<b>Member</b>	Student representative, Department of E&C Engineering, CSPIT

The following members could not remain present:

1.	Dr. Sanjeev Gupta	<b>Member</b>	Dean (Academics) An initiative by Arcelor Mittal University.
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2.	Mr. Nilesh Ranpura	<b>Member</b>	Director, e-infochips, An Arrow Company, Ahmedabad
3.	Dr. Amit Bhatt	<b>Member</b>	Pro Vice-Chancellor, Dayanand Sagar University, Bangalore
4.	Mr. Bhaskar Trivedi	<b>Member</b>	Vice President, Intech Systems, Ahmedabad

### **Agenda Proceedings & Resolutions: -**

**Item 19.01: For Discussion:** To review and approve the Teaching & Examination scheme and detailed syllabus of B.Tech first year Electronics and Communication Engineering for the academic year 2023-24.

#### **Proceedings 19.01:**

- Board of Studies members reviewed and discussed the teaching scheme and detailed syllabus of B Tech under the Choice Based Credit System (CBCS). The following new courses are introduced or the credit scheme has been changed. The courses are listed below:

<b>Sr. No</b>	<b>Semester</b>	<b>Subject code and name</b>	<b>Remarks</b>
1	1	EC101: Basics of Electronics Engineering	A few contents are revised
2	1	ECXXX: Basic C Programming	New subject introduced
3	2	ECXXX: Applied Programming	New subject introduced

#### **Resolution 19.01:**

- The Board approved the teaching scheme and syllabi of the B. Tech program first-year courses with a few suggestions. The teaching and examination scheme along with the detailed syllabus is attached as **Annexure I**.

**Item 19.02: For Discussion:** To discuss the pedagogical interventions incorporated in the syllabi of the course and the strategy to align the teaching-learning process to outcome-based education.

#### **Proceedings 19.02 :**

- Board of Studies members reviewed and discussed outcome-based education aligned syllabus with the blooms taxonomy level. Members appreciate the syllabus design

format and the concept of the micro-projects to be implemented in the majority of the subjects.

**Resolution 19.02:**

- The Board approved the syllabus of courses aligned with the OBE (Outcome Based Education) and a sample syllabus is attached as an **Annexure II**.

**Item 19.03: For Discussion:** To discuss and approve the Minor specialization on “Data Science” for the admission year 2023 batch.

**Proceedings 19.03 :**

- The Minor specialization on “Data Science” along with its detailed structure, methodology, subjects, teaching and examination scheme was presented to the board members.

**Resolution 19.03:**

- BoS members appreciate the minor specialization proposal and approve the teaching and examination scheme. The details along with the list of the courses in the minor course are attached as **Annexure III**.

**Item 19.04: For Discussion:** Discussion on foundation course offered as audit course from the AY 2023-24.

**Proceedings 19.04 :**

- In the first year of undergraduate programs "Foundation courses" was offered to help students comprehend the fundamental concepts of science. The foundation courses will be offered as audit courses from the academic year 2023–24 to improve students' learning capacity.

**Resolution - 19. 04:**

- Board members agreed to the proposal of converting these courses to audit courses and further no credits shall be awarded to this foundation course from the academic year 2023-24.
- The details and official communication regarding the same are attached as **Annexure IV**.

**Item 19.05: For Discussion:** The synopsis approval of research scholars of the department.

**Proceedings 19.05 :**

- A Synopsis of PhD research scholars were presented to the board members.
- BoS members discussed the articles published by the research scholars in WoS/SJR journals and conferences.

**Resolution - 19. 05:**

- Board members appreciated that the department promotes research publications in WoS/SJR-indexed journals.
- Details of research scholars' publications are attached as **Annexure V**.

**Item 18.06: For Discussion:** Analysis and discussion on the semester end results of the students and steps taken for the remedial actions.

**Proceedings 19.06 :**

- The University examination results were discussed with BoS members. Last three academic years' results comparison was carried out. Total number of students having distinction, first class and second class was presented to board members.
- Action plan and on-going activities of department were also discussed for the improvement of the overall result.

**Resolution 19.06:**

- BoS member found results satisfactory for all the years of B.Tech. The Year-on-year Result Analysis and remedial actions' document are attached as an **Annexure VI**.



*The meeting ended with a vote of thanks.*




**Dr. Upesh Patel**  
**Chairman, BoS, EC Department,**  
**FTE, CHARUSAT**

**Date: March 17, 2023**

**Subject** EC385 Mobile Application Development

Exp. No	Name of Experiment	Annexure - III	Signature
1	Getting Started with Android Studio.		
2	Liner Layout in Android.		
3	Relative Layout in Android.		
4	Activity Lifecycle in Android.		
5	<p>Create an application to design an Employee ID Card. The ID card should have a company logo at the top right corner. The company name should be displayed in Capital letters, aligned to the center. Information like the name of the employee, Designation, Department Name, Phone number, Email is to be displayed.</p> 		
6	<p>Create Mobile Application which contain One Image View and three Buttons. Create On click event on each button as</p> <ol style="list-style-type: none"> <li>1) When Send Now button pressed, it display message as “Data Sending from app...”</li> <li>2) When Receive Now button pressed, it display message as “Data Receiving from app...”</li> <li>3) When Delete Now button pressed, it display message as “Data Deleting from app...”</li> </ol> 		

7	Design an application which contain three buttons Increment, Decrement and Reset along with one Textview for displaying result by activity of the button.	
8	Design an application of Basic Calculator using controls like Buttons, TextView, EditText. The Calculator having basic functionality like Addition, Subtraction, Multiplication, Division. <div align="center" data-bbox="553 516 781 957">  </div>	
9	Design an application which gives the demonstration of Implicit and Explicit Intent	

**CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**FACULTY OF TECHNOLOGY AND ENGINEERING**  
**V T PATEL DEPARTMENT OF ELECTRONICS AND**  
**COMMUNICATION**

**EC262: PYTHON PROGRAMMING**  
**ASSIGNMENT**

1	WAP to display basic details of a User like Name, Roll no, Division and Address.
2	WAP to perform arithmetic operations in python.
3	WAP to Convert no. of Days into No. of Months and days.
4	WAP to convert temperature from Celsius to Fahrenheit.
5	WAP to convert distance from C.M. into meter, KM., feet, and inches.
6	WAP to check whether the number is positive or not.
7	WAP to find the largest among three numbers.
8	WAP to find average of N numbers using while loop.
9	WAP to find given number is PRIME or NOT using for loop.
10	WAP to print Multiplication Table.
11	WAP to find factorial of a given number.
12	WAP that demonstrates the use of break and continue statements to alter the flow of the loop.
13	WAP to prompt the user for hours and rate per hour to compute gross pay. Company will give the employee 1.5 times the Hourly rate for hours worked above 40 hours.
14	Given the family relationship below output all persons who fit in the input characteristic. These characteristics are SIBLING, PARENT, CHILD, GRANDPARENT and GRANDCHILD. Family 1-> Ann and Marty have children Bill, Cathy and Frank. Cathy and Don have children Madd and Sally. Frank and Jill have child Sarah. Bill and Alice have no children. Family 2-> Debbie and Phil have children Jill and Betty. Jill and Frank have child Sarah. Betty and Paul have children Marry, Jane and Bart.

**List of Experiments**

**Annexure - V**

<b>Subject</b>	EC364 Embedded System
<b>Document</b>	Laboratory Manual

<b>Exp. No</b>	<b>Name of Experiment</b>	<b>Date</b>	<b>Signature</b>
1	Getting Started with STM32		
2	To Flash/Toggle/Blink/On-Off Single LED with appropriate Delay interfaced with STM32.		
3	One Push Button (Digital Sensor) and One LED is interfaced with STM32. Develop STM32 Based Embedded C Code for the following Environment. When Push button is Pressed, LED will be ON. When Push button is Released, LED will be OFF.		
4	A) One Common Cathode Seven Segment Display is interfaced with STM32. Develop STM32 Based Embedded C Code to generate Counter of 0 to 9 nos. on Seven Segment Display with appropriate delay. B) Two Common Cathode Seven Segment Displays are interfaced with STM32. Develop STM32 Based Embedded C Code to generate Counter of 00 to 99 nos. on Seven Segment Displays with appropriate delay.		
5	A) Develop STM32 Based Embedded C Code transmit message using UART of STM32. B) Develop STM32 Based Embedded C Code to receive message from UART3 and reprint the same message on UART1 of STM32.		
6	One 16 * 2 LCD is interfaced with STM32. Develop STM32 Based Embedded C Code to display message on 16 * 2 LCD.		
7	One Analog Sensor (Soil moisture Sensor) is interfaced with STM32. Develop STM32 Based Embedded C Code to take the sample of Soil moisture from sensor and display the same on Serial Monitor.		
8	Develop STM32 Based Embedded C Code which demonstrate Watchdog Timer Application.		
9	Develop STM32 Based FreeRTOS Code which creates three tasks. Display message for each task on UART.		
10	Develop STM32 Based FreeRTOS Code which creates three tasks with the different priority. Display message for each task on UART.		
11	Develop STM32 Based FreeRTOS Code which creates two tasks with the different priority. The Highest priority task depends on external input (Push Button). Display message for each task on UART.		

## Annexure - VI

The screenshot displays a Google Classroom interface for the course 'CE143\_2022'. The left sidebar contains a navigation menu with options like Home, Calendar, Teaching, and To review, along with a list of courses. The main content area shows a 'Classwork' tab with a '+ Create' button and a list of assignments. The assignments are as follows:

Assignment Title	Posted Date
Video Lecture Links for Dynamic Memory Al...	Posted Jan 11
Unit 12 and Unit 13	Posted Jan 10
Unit 9-User Defined Functions	Posted Jan 2
Unit 6_Loops	Posted Jan 2
Unit_12_Pointers	Posted Jan 2
Unit 5	Posted Nov 8, 2022
Unary Example	Posted Nov 3, 2022
Unit 4	Posted Nov 3, 2022
Practice Question papers	Posted Nov 2, 2022



**Annexure - VII**

Miral Desai &lt;miraldesai.ec@charusat.ac.in&gt;

**Fwd: Matrix Comsec Pvt Ltd. - Campus Connect Invite - CHARUSAT**

1 message

20EC037 SREELAKSHMI KURUP &lt;20ec037@charusat.edu.in&gt;

Mon, Oct 30, 2023 at 4:00 PM

To: Miral Desai &lt;miraldesai.ec@charusat.ac.in&gt;

----- Forwarded message -----

From: **Dharmendra Chauhan** <dharmendrachauhan.ec@charusat.ac.in>

Date: Wed, 25 Oct, 2023, 3:36 pm

Subject: Fwd: Matrix Comsec Pvt Ltd. - Campus Connect Invite - CHARUSAT

To: &lt;20ec@charusat.edu.in&gt;, Sujal Dadhaniya &lt;divyangpurohit.tnp@charusat.ac.in&gt;, TNP Cell - CHARUSAT &lt;tnp@charusat.ac.in&gt;, Ernest &lt;erneststevens.adm@charusat.ac.in&gt;

Dear Students,

Kindly refer below email from Matrix.

Interested students may register with the following link on or before 26.10.2023, 09.00 AM.

<https://forms.gle/3c6t1jixNKUrhbjJA>

Hello Divyang,

We are looking forward to hire freshers from your institute for **embedded profile** at our **R&D Center**. Request you to provide the student details of **EC Batch** only. Looking forward to a wonderful association with your institution! The campus process will include the following three steps: Kindly provide me with suitable dates for the campus process.

1. **Campus Talk by VP HR - Ashish Shah (Can be in person or virtual as per college requirement)**
2. **Online Test (Virtual)**
3. **Technical Interviews (Virtual)**

**Company Overview:**

We would like to introduce ourselves as, Matrix ComSec Pvt. Ltd ([www.matrixcomsec.com](http://www.matrixcomsec.com)), a leading manufacturer of Surveillance Security products like Access Control, NVR, DVR, Time Attendance System, Canteen Management, etc & in Telecom we have Digital PBX, ISDN KTS, GSM & VoIP Gateways, Voice Mail Systems many more products spread across India and globally over 50 countries. Matrix, having its own Research & Development Center which has a capacity to occupy 300+ Engineers. Matrix also has vast representation in the Middle East and Asia. With a range of over 40 products that are versatile in design, catering to various market segments offers a unique combination of multiple technologies and interfaces. Matrix customers are diverse and include large corporate offices, telecom & security service providers, institutions, factories, call centers, hotels, hospitals, housing societies, and apartments, buildings, and residences.

**Company Location: Matrix Comsec Pvt Ltd.****190 – R&D Center****GIDC, Makarpura, Near VCCI Building****Vadodara****Some of our Core Products are as per below:**