Charotar University of Science & Technology
Chandubhai S. Patel Institute of Technology
V. T. Patel Department of EC Engineering

Year 2015-16

Analysis and Action Taken on Feedback on Curriculum by Stake Holders

Suggestions Given:

1) Up gradation of Syllabus
2) More Emphasize on Project work

Action Taken:

1) It has been approved in 12th BoS meeting that Contents of Courses are revised as per industrial requirements.(Annexure-I)

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
FACULTY OF TECHNOLOGY & ENGINEERING
Department of Electronics and Communication Engineering

Minutes – 12th Meeting of Board of Studies

Date : September 3, 2016, Saturday
Time : 10:00 am
Venue : Room 235 Multimedia Room, EC Department, CSPIT, FTE, CHARUSAT Campus

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The meeting of the 12th Board of Studies, Department of Electronics and communication Engineering, Faculty of Technology & Engineering, Charotar University of Science and Technology (CHARUSAT) was held as per schedule.

Following members were present:

1.	Dr. Trushit Upadhyaya	**Chairman;**	Associate Professor & Head, Department of E&C Engineering, CSPIT
2.	Dr. Hiren Mewada	**Member**	Associate Professor, Department of E&C Engineering, CSPIT
3.	Prof. Rachna Jani	**Member**	Associate Professor, Department of E&C Engineering, CSPIT
4	Prof. Brijesh Shah	**Member**	Associate Professor, Department of E&C Engineering, CSPIT
5	Dr. S. K. Hadia	**Member**	Associate Professor, Department of E&C Engineering, CSPIT
6	Mr. Upesh Patel	**Member**	Assistant Professor, Department of E&C Engineering, CSPIT
7	Dr Sanjeev Gupta	**Member**	Professor & Dean (R&D), DAIICT, Gandhinagar.
8	Dr. Amit Bhatt	**Member**	Associate Professor, DAIICT, Gandhinagar
9	Mr. Jignesh Patel	**Member**	Sr. Engineer, ABB Corporation, Baroda

Following members were absent due to preoccupation:

1	Dr. Niranjan Devashrayee	**Member**	Professor, Nirma University, Ahmedabad
2	Mr. Tarun Makwana	**Member**	Sr. Technical Lead, Einfochips, Ahmedabad

Agenda Proceedings & Resolutions:-

1. **Item 12.01: For Discussion:** To approve the teaching & examination scheme of B. Tech – Electronics & Communication (EC) Engineering program under Choice Based Credit System (CBCS) for 3rd to 8th Semester.

Proceedings 12.01 :

- Board of Studies members reviewed and discussed teaching & examination scheme of B.Tech – EC program under Choice Based Credit System (CBCS) for 3rd to 8th Semester.

Resolution 12.01:

- The Board approved the teaching & examination scheme of B. Tech - EC program under Choice Based Credit System (CBCS) for 3rd to 8th Semester.
- The teaching and examination scheme along with modified syllabus are attached as **Annexure I**.

2. **Item 12.02: For Discussion:** To review and approve the detailed syllabus of 1st and 2nd year B. Tech program under CBCS

Proceedings 12.02 :

- Following modifications are incorporated in B.Tech CBCS for 2nd Year after suggestion from course teachers and board members

Sr. No.	Old Course Code	New Course Code	Course Name	Remarks
1.	EC201.01	EC241	Digital Electronics & Logic Design	• The syllabus was modified as per the suggestions of course teachers and experts. • Theory contact hours were reduced from 4 to 3.
2.	EC202.01	EC242	Network Theory	• The syllabus was modified as per the suggestions of course teachers and experts. • Theory contact hours were reduced from 4 to 3.
3.	EC203.01 & EC204.01	EC243	Electronic Devices & Measurement	• 2 Subjects were merged as per the suggestion of course teacher and experts.

				• Theory hours were increased from 3 to 4.
4.	EC212	EC244	Mini Project-I	• syllabus content changed as per industrial requirements based on suggestions from experts.
5.		EC281	Introduction to MATLAB Programming	• University Elective subject
6.	EC207.01	EC245	Control Systems	• There is no change in syllabus content & Teaching Scheme..
7.	EC208.01 & EC302.01	EC246	Analog Circuits & Applications	• 2 Subjects were merged as per the suggestion of course teacher and experts. • Theory hours were increased from 3 to 4..
8.	EC209.01	EC247	Microprocessor & Interfacing	• There is no change in syllabus content & Teaching Scheme..
9.	EC210	EC248	Analog Communication	• There is no change in syllabus content & Teaching Scheme..
10.	EC213	EC249	Mini Project-II	• syllabus content changed as per industrial requirements based on suggestions from experts.
11.		EC282	Prototyping Electronics with Arduino	• University Elective Subject

Resolution - 12.02:

- The Board members gave consent to continue with detailed syllabus for 2nd Year under CBCS after incorporating suggested modifications.
- The teaching and examination scheme & detailed syllabus are attached as **Annexure II**.

3. **Item 12.03: For Discussion:** To approve the teaching & examination scheme & syllabus of M.Tech programme under Choice Based Credit System (CBCS) effective from academic year 2016-17.

Proceedings 12.03:

- In M.Tech – Communication System Engineering (CSE) and Embedded System & VLSI Design (EVD) following **University Electives** has been added.

Course Code	Semester 1 (University Elective I)	Course Code	Semester 2 (University Elective II)
MA771	Reliability and Risk Analysis	**EE782**	Energy Audit and Management
EE781	Optimization Techniques	**CE771**	Project Management
ME781	Occupational Health and Safety	**IT771**	Cyber Security and Laws
CE770	Research Methodology	**CA842**	Mobile Application Development
CA730	Internet and Web Designing	**PT796**	Fitness and Nutrition
PT795	Health and Physical Activity	**NR752**	Epidemiology and Community Health
NR751	Women's Health	**OC733**	Introduction to Polymer Science
RD701	Introduction to Analytical Techniques	**MB651**	Software based Statistical Analysis
RD702	Introduction to Nanoscience and Technology	**PH826**	Intellectual Property Rights
MB650	Creative Leadership	**MA772**	Design of Experiments
PH825	Community Pharmacy Ownership		

Resolution - 12.03:

- The Board approved M.Tech (CSE & EVD) teaching & examination scheme along with revised syllabus effective from Academic Year 2016-17.
- The teaching and examination scheme along with modified syllabus are attached as **Annexure III**.

4. **Item 12.04**: For Discussion: To approve the teaching & examination scheme & syllabus of M.Tech programme under Choice Based Credit System (CBCS) effective from academic year 2017-18

Proceedings 12.04:

- **Modification in Syllabus of M.Tech Programme**

Sr. No.	Course Code	Course Name	Remarks
1.	EC749	CMOS VLSI Design - 1	• Analog part has been removed • Digital design application based content has been added
2.	EC768	Digital Image and Speech Processing	• Image and Speech processing are separated as new subjects • "EC769: Digital Image and Video Processing" which would be offered as Cluster Elective subject • "EC765: Digital Speech Processing" would be offered as Programme Elective subject
3.	EC752	VLSI Design Verification & Testing	• Verification content removed • Verilog content introduced

Resolution - 12.04:

- The Board approved teaching and examination scheme and detailed syllabus for M.Tech (CSE & EVD) for the academic year 2017-18 CBCS scheme which are attached as **Annexure IV.**

5. Item 12.05: For Discussion: To review and approve the detailed syllabus of 3rd year B.Tech programme for a batch of 2015 intake

Proceedings 12.05 :

- There were no modifications suggested by course teachers in 3rd year syllabus for 2015 intake batch.

Resolution - 12. 05:

- Board approved teaching & examination scheme and syllabus of 3rd year for 2015 intake batch. The teaching and examination scheme is attached as **Annexure V**.

6.Item 12.06: For Discussion; To review and approve the detailed syllabus of 4th year B.Tech programme for a batch of 2014 intake.

Proceedings 12.06:

- There were no modifications suggested by course teachers in 4th year syllabus for 2014 intake batch.

Resolution 12.06:

- Board approved teaching & examination scheme and syllabus of 4th year B.Tech programme of 2014 intake batch. The teaching and examination scheme is attached as **Annexure VI**.

7.Item 12.07: For Discussion; Discussion on implementation of Outcome Based Education (OBE) and ICT based Teaching-Learning

Proceedings 12.07:

- Dr. Trushit Upadhyaya presented details of Outcome Based Education (OBE) with Course Outcome (CO), Programme Outcome (PO), Programme Educational Outcome (PEO) and Graduate Attributes (GA).

Resolution 12.07:

- Board gave few suggestions to incorporate in Programme Education Outcomes. Detailed document regarding same is attached as **Annexure VII**.

8.Item 12.08: For Discussion; Discussion regarding NBA Accreditation Application

Proceedings 12.08:

- Dr. Trushit Updadhyaya discussed about NBA prequalifier form submission. Board appreciated that all essential and desirable parameters were complied by department.

Resolution 12.08

- Submitted NBA Prequalifier form document is attached as **Annexure VIII.**

9.Item 12.09: For Discussion; Introducing the new PG program in Electronics & Communication Engineering

Proceedings 12.09:

- Proposed teaching and examination schemes for two new PG programme, M.Tech in Satellite communication and M.Tech by Research Programme were discussed.

Resolution 12.09

- Board gave approval to commence M.Tech by Research and M.Tech in Satellite Communication programmes.
- Teaching and Examination scheme for M.Tech in Satellite Communication and Detailed document for M.Tech (Research) Programme are attached as **Annexure IX.**

10.Item 12.10: For Discussion; Suggestions regarding new UG programs in new Institute of Technology in Faculty of Technology and Engineering, CHARUSAT

Proceedings 12.10:

- Dr. Trushit Upadhyaya brief that university is planning to commence new institute. In new institute Information and Communication Technology (ICT) programme shall be offered by electronics & communication engineering department. Teaching scheme was discussed.

Resolution 12.10

- Board gave consent to commence ICT Programme. Board members gave few suggestions in courses and teaching scheme for ICT. Teaching scheme of ICT is attached as **Annexure X.**

11.Item 12.11: For Discussion; Review of Exam Question Papers

Proceedings & Resolution 12.11:

- Board reviewed question papers' quality. Quality of papers was found satisfactory.

Item 12.12: For Discussion; Approval of updated examiners' list.

Proceedings 12.12:

- List of various course experts who can be appointed as examiner at CHARUSAT University examinations was prepared. Dr. Trushit Upadhyaya discussed the names of course experts. Board Members suggested few names of experts who can be appointed as an external examiner at University Examinations

Resolution 12.12:

- The Board approved the Panel of Examiner. As the Panel of Examiner is a confidential matter, it is not attached as Annexure. It is to be submitted to the exam section in a sealed cover.

Item 12.13: For Discussion; Review of University Result Analysis

Proceedings 12.13:

- Previous University examination results were discussed with BoS members. Last two academic years' results comparison was carried out. Total number of students having distinction, first class and second class was presented to board members. Detain students' list was also considered for discussion.

Resolution 12.13:

- BoS member found results quite satisfactory for Third and Fourth Year B.Tech and both years of M.Tech. It was noticed by BoS members that improvement in results for the First and Second Year B.Tech is required.
- Board members suggested to have separate examination slots for detain students during the semester instead of asking detain students to appear along with regular students in university examination. Year on year Result Analysis is attached as **Annexure XI**.

Item 12.14: For Discussion; To discuss about Training and Placements Records

Proceedings 12.14:

- The training and placement data for B.Tech 2015-16 Batch was discussed. Dr. Trushit Updadhyaya discussed number of students placed and package offered. Details of soft skills training offered by the institute to final year B.Tech students were shared with board members.

Resolution 12.14

- BoS member appreciated the efforts of staff members for enhancing training and placement activities in department by physically approaching companies. The idea of imparting soft skills training to increase the employability of students was greatly appreciated. The placement statistics is attached as **Annexure XII.**

- **Item 12.15: For Discussion & Approval;** To discuss & approve Synopsis submitted by research scholars of EC department
- **Proceedings & Resolution 12.15:** Board of Studies members reviewed and approved synopsis of Mr. Hardik Modi, Mr. Vinesh Kapadia & Mrs. Kaushika Patel submitted during academic year 2015-16. Board members appreciated the quantum of work done by research scholars.

The meeting ended with a vote of thanks.



Dr. Trushit Upadhyaya
Chairman, Board of Studies,
Electronics & Communication Engineering Department
Date: 03/09/2016

CHARUSAT

Charotar University of Science & Technology
Chandubhai S. Patel Institute of Technology
V. T. Patel Department of EC Engineering

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Chandubhai S Patel Institute of Technology

Year 2016-17

Analysis on Feedback on Curriculum by Present Students

Suggestion Given:

1) Use of Linux OS is mandatory.
2) Switch to Linux Architecture is the first requirement of Industries.

Action Taken:

1) It has been approved in 13th BoS meeting that Embedded Linux Course is introduced in 6th Semester (3rd Year) of B.Tech EC. (Annexure-I)

Analysis on Feedback on Curriculum by Alumni

Suggestion Given:

1) Introduction to Verilog – HDL must be in syllabus.

Action Taken:

1) It has been approved in 13th BoS meeting that VLSI Technology & Design (EC342) is shifted from 6th Semester to 5th Semester (3rd Year) of B.Tech EC. (Annexure-I)

Analysis on Feedback on Curriculum by Employer

Suggestion Given:

1) Fundamentals should be emphasis.

Action Taken:

1) It has been approved in 13th BoS meeting that Digital System Design course is introduced in 5th Semester of B.Tech EC (3rd Year). (Annexure-I)

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Analysis on Feedback on Curriculum by Teacher

Suggestion Given:

1) 8051 Microcontroller should be replaced with AVR Microcontroller.

Action Taken:

2) It has been approved in 13th BoS meeting that Course contents of EC344 Microcontroller & Application is replaced by AVR Microcontroller. (Annexure-I)

CHANDUBHAI S. PATEL INSTITUTE OF TECHNOLOGY
CSPIT
CHANGA

13th BOS

Annexure-I

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
FACULTY OF TECHNOLOGY & ENGINEERING
Department of Electronics and Communication Engineering

Minutes – 13th Meeting of Board of Studies

Date : August 26, 2017, Saturday
Time : 10:00 am
Venue : Room No: 235 Multimedia Lab, EC Department, CSPIT, FTE CHARUSAT

The meeting of the 13th Board of Studies, Department of Electronics and communication Engineering, Faculty of Technology, Charotar University of Science and Technology (CHARUSAT) was held as per schedule.

Following members were present:

1.	Dr. Trushit Upadhyaya	**Chairman;**	Associate Professor & Head, Department of E&C Engineering, CSPIT
2.	Dr. Hiren Mewada	**Member**	Asso. Professor, Department of E&C Engineering, CSPIT
3.	Prof. Rachna Jani	**Member**	Asso. Professor, Department of E&C Engineering, CSPIT
4	Prof. Brijesh Shah	**Member**	Assistant Professor, Department of E&C Engineering, CSPIT
5	Dr. S. K. Hadia	**Member**	Asso. Professor, Department of E&C Engineering, CSPIT
6	Mr. Upesh Patel	**Member**	Assistant Professor, Department of E&C Engineering, CSPIT
7	Dr Sanjeev Gupta	**Member**	Professor, DAIICT, Gandhinagar.
8	Dr. Amit Bhatt	**Member**	Associate Professor, DAIICT, Gandhinagar
9	Mr. Jignesh Patel	**Member**	Sr. Engineer, ABB Corporation, Baroda
10	Dr. Niranjan Devashrayee	**Member**	Professor, Nirma University, Ahmedabad
11	Mr. Tarun Makwana	**Member**	Sr. Technical Lead, Einfochips, Ahmedabad

Agenda Proceedings & Resolutions:-

Item 13.01: For Discussion: To approve the detailed syllabus & Teaching scheme for 3rd year CBCS B Tech courses.

Proceedings 13.01 :

- Board of Studies members reviewed and discussed teaching scheme of B.Tech 3rd year under Choice Based Credit System (CBCS).
- Following modifications are incorporated in syllabus of 3rd year.

Sr. No.	Old Course Code	New Course Code	Course Name	Remarks
1.	EC301.01	EC341	Electromagnetic Theory	• There is no change in syllabus content & Teaching Scheme..
2.	EC311.01	EC342	VLSI Technology & Design	• Course shifted from 6th Semester to 5th Semester
3.	EC312.01	EC343	Digital Signal Processing	• Course shifted from 6th Semester to 5th Semester
4.	EC305.02	EC344	Microcontroller and Application	• AVR Controller is introduce in place of 8051 • Detail syllabus and content are given in annexure 1
5.	EC308.01	EC347	Antenna & Wave Propagation	• There is no change in syllabus content & Teaching Scheme..
6.	EC309.01	EC348	Digital Communication	• There is no change in syllabus content & Teaching Scheme..
7.		ITXXX	Embedded Linux	• New subject introduced
8.	EC404.01	EC349	Embedded Systems	• Course shifted from 7th Semester to 6th Semester

Resolution 13.01:

- The Board approved the teaching scheme of B. Tech program under Choice Based Credit System (CBCS) for 3rd year.
- The teaching and examination scheme along with modified syllabus is attached as **Annexure I**.

Item 13.02: For Discussion: To approve the teaching scheme for all the semesters of B Tech CBCS courses effective from 2016 (Total credits to be kept= around 200 for UG and 100 around for PG)

Proceedings 13.02 :

- Board of Studies members reviewed and discussed teaching scheme all the semesters of B Tech CBCS courses effective from 2016.

Resolution - 13.02:

- The teaching and examination scheme & Detailed Syllabus are attached as **Annexure II**.

Item 13.03: For Discussion: To approve the syllabus for Final year for 2013 Revision Year, if any

Proceedings 13.03:

- No Changes

Resolution - 13.03:

- The teaching and examination scheme is attached as **Annexure III.**

Item 13.04: For Discussion: Any change in PG Syllabus of CBCS courses.

Proceedings 13.04:

- **No Changes**

Resolution - 13.04:

- The teaching and examination scheme for M.Tech (CSE & EVD) for the academic year 2017-18 CBCS scheme which are attached as **Annexure IV.**

Item 13.05: For Discussion: Preparation, Discussion and approval for the Elective Courses (University, Institute, Program and Program Electives)

Proceedings 13.05 :

- BoS members discussed and approved following elective courses from the pool of few elective subjects.
- List of Program Electives

Sem	Subject Code	Sr No	Subject Name

5	ECxxx	1	Power Electronics
		2	Television Systems / Multimedia System
		3	Digital System Design
		4	Computer Organization and architecture
		5	Machine Learning
		6	DSP Processors and applications
6		7	JAVA Programming
		8	Error Control Coding
		9	ASIC Design
		10	VLSI Signal Processing
7		11	Digital Image Processing
		12	Radar Systems
		13	Analog VLSI Design
		14	Soft Computing

- List of University Electives

Sem	Subject Code	Sr No	Subject Name
3	ECxxx	1	Introduction to MATLAB Programming
4		2	Prototyping Electronics with Arduino
5		3	Programing and Scripting
6		4	To be discussed during BoS meeting

Resolution - 13. 05:

- The teaching and examination scheme is attached as **Annexure V**.

Item 13.06: For Discussion: To discuss about Training and Placements Records

Proceedings 13.06 :

- BoS members discussed and approved following elective courses from the pool of few elective subjects.

Resolution - 13. 06:

- The teaching and examination scheme is attached as **Annexure VI**.

Item 13.07: For Discussion; Review of University Result Analysis

Proceedings 13.07:

- Previous University examination results were discussed with BoS members. Last two academic years' results comparison was carried out. Total number of students having

distinction, first class and second class was presented to board members. Detain students' list was also considered for discussion.

Resolution 13.07:

- BoS member found results quite satisfactory for Third and Fourth Year B.Tech and both years of M.Tech. It was noticed by BoS members that improvement in results for the First and Second Year B.Tech is required.
- Board members suggested to have separate examination slots for detain students during the semester instead of asking detain students to appear along with regular students in university examination. Year on year Result Analysis is attached as **Annexure VII**.

Item 13.08: For Discussion: Discussion regarding research publications, proposals and grants

Proceedings 13.08:

Board members discussed about research publications, project proposals and grant for the academic year 2016-17.

Resolution 13.08:

- The detail statistics opf publications and list of ongoing projects and grants are attached as **Annexure VIII.**

The meeting ended with a vote of thanks.

Dr. Trushit Upadhyaya
Chairman, BoS
Date: 28/08/2017

CHARUSAT

Charotar University of Science & Technology
Chandubhai S. Patel Institute of Technology
V. T. Patel Department of EC Engineering

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Year 2017-18

Analysis on Feedback on Curriculum by Present Students

Suggestion Given:

1) Practical Aspects should be added more than theoretical concept.
2) It should more focus on Practical aspects in some courses.

Action Taken:

1) It has been approved in 14th BoS meeting that Course content of EC441 Data Communication & Networking are modified with more practical concepts.
2) It has been approved in 14th BoS meeting that Course content of EC443 Wireless Communication are modified with more practical concepts. (Annexure-I)

Analysis on Feedback on Curriculum by Alumni

Suggestion Given:

1) Syllabus should be upgrade in form of more projects.

Action Taken:

1) It has been approved in 14th BoS meeting that EC446 Summer Internship – II course is introduce in 7th Semester. In this course students need to pursue good project given by the industry during summer break of 6th Semester. (Annexure-I)

Analysis on Feedback on Curriculum by Employer

Suggestion Given:

1) Focus on one Technology related project rather than 3-4 various technological aspects projects.

Action Taken:

1) It has been approved in 14th BoS meeting that EC445 Group Project – III course is introduce in 7th Semester. In this course students need to pursue good project in a team.

(Annexure-I)

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Analysis on Feedback on Curriculum by Teacher

Suggestion Given:

1) Microwave vacuum device should be removed from the chapter and RF circuit should be included.

Action Taken:

3) It has been approved in 14th BoS meeting that Course contents of EC442 Microwave Engineering are modified. (Annexure-I)

CHANDUBHAI S. PATEL INSTITUTE OF TECHNOLOGY
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Annexure-I

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

FACULTY OF TECHNOLOGY & ENGINEERING

V.T. Patel Department of Electronics and Communication Engineering

Minutes – 14th Meeting of Board of Studies

Date	:	**July 28, 2018, Saturday**
Time	:	**10:00 am**
Venue	:	**Conference room, T&P Cell, Ground Floor, EC/EE Building, CSPIT, FTE, CHARUSAT**

The meeting of the 14th Board of Studies, Department of Electronics and communication Engineering, Faculty of Technology, Charotar University of Science and Technology (CHARUSAT) was held as per schedule.

Following members were present:

1.	Dr. Trushit Upadhyaya	**Chairman**	Associate Professor & HoD, Department of E&C Engineering, CSPIT
2.	Dr. Hiren Mewada	**Member**	Associate Professor, Department of E&C Engineering, CSPIT
3.	Dr. S. K. Hadia	**Member**	Associate Professor, Department of E&C Engineering, CSPIT
4	Prof. Brijesh Shah	**Member**	Assistant Professor, Department of E&C Engineering, CSPIT
5	Prof. Arpita Patel	**Member**	Assistant Professor, Department of E&C Engineering, CSPIT
6	Dr. Falguni Raval	**Member**	Assistant Professor, Department of E&C Engineering, CSPIT
7	Mr. Upesh Patel	**Member**	Assistant Professor, Department of E&C Engineering, CSPIT
8	Dr Sanjeev Gupta	**Member**	Professor, DAIICT, Gandhinagar.
9	Dr. Amit Bhatt	**Member**	Professor, DAIICT, Gandhinagar
10	Dr. Niranjan Devashrayee	**Member**	Professor, Nirma University, Ahmedabad
11	Mr. Nilesh Ranpura	**Member**	Delivery Manager, e-infochips, Ahmedabad

12	Mr. Jignesh Patel	**Member**	Founder, Energy System Engineering, Baroda
13	Dr. Killol Pandya	**Invitee**	Assistant Professor, Department of E&C Engineering, CSPIT
14	Mr. Jignesh Patoliya	**Invitee**	Assistant Professor, Department of E&C Engineering, CSPIT
15	Mr. Arpan Desai	**Invitee**	Assistant Professor, Department of E&C Engineering, CSPIT
16	Mr. Yogesh Tiwari	**Invitee**	Assistant Professor, Department of E&C Engineering, CSPIT

Agenda Proceedings & Resolutions:-

Item 14.01: For Discussion: To approve the detailed syllabus & Teaching scheme for final year CBCS B Tech courses.

Proceedings 14.01 :

- Board of Studies members reviewed and discussed teaching scheme and detailed syllabus of B.Tech final year under Choice Based Credit System (CBCS).
- Following modifications are incorporated in syllabus of Final year.

Sr. No.	Old Course Code	New Course Code	Course Name	Remarks
1.	EC401.01	EC441	Data Communication & Networking	There are few modifications in the course content. Detailed syllabus is given in Annexure II.
2.	EC402.01	EC442	Microwave Engineering	There are few modifications in the course content. Detailed syllabus is given in Annexure II.
3.	EC403.01	EC443	Wireless Communication	Subject title and contents are updated. Detailed syllabus is mention in Annexure II.
4.	EC310.01	EC444	Optical Communication	Course shifted from 6th Semester to 7th Semester
5.	---	EC445	Group Project-III	New course is introduced.

6.	---	EC446	Summer Internship-II	New course is introduced.
7.	---	EC471	Digital Image Processing	There is no change in syllabus content & Teaching Scheme.
8.	---	EC472	Radar Systems	Obsolete contents are replaced by few latest topics. Detail syllabus and content are given in Annexure II.
9.	---	EC473	Error Control Coding	New course is introduced.

Resolution 14.01:

- The Board approved the teaching scheme and syllabus of Final Year B. Tech program under Choice Based Credit System (CBCS) for final year.
- The teaching and examination scheme along with modified syllabus is attached as an **Annexure I**.

Item 14.02: For Discussion: To approve the detailed syllabus & Teaching scheme for second year CBCS B Tech courses.

Proceedings 14.02 :

- Board members reviewed and discussed teaching scheme and detailed syllabus of third year of B.Tech under CBCS.

Resolution - 14.02:

- Board members have shown their satisfaction for Teaching and examination scheme and for syllabus.
- The teaching and examination scheme is attached as an **Annexure II**.

Item 14.03: For Discussion: Summer Internship for UG Students

Proceedings 14.03 :

- BoS members discussed details of summer internship undergone by second year UG students during summer vacation.

Resolution - 14. 03:

- Board members appreciated the initiative of FTE to introduce summer internship after 2nd Year and 3rd Year.
- Details of Summer Internship – I are attached as an **Annexure III**.

Item 14.04: For Discussion: To discuss about Training and Placements Records

Proceedings 14.04:

- BoS members discussed about Placement records.

Resolution - 14. 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 details are attached as an **Annexure IV**.

Item 14.05: For Discussion; Review of University Result Analysis

Proceedings 14.05:

- Previous 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.

Resolution 14.05:

- BoS member found results quite satisfactory for Third and Fourth Year B.Tech. It was noticed by BoS members that improvement in results for the First and Second Year B.Tech is required.
- Year on year Result Analysis is attached as an **Annexure V**.

Item 14.06: For Discussion: Discussion on Academic and Administrative Audit (AAA) of -the department for the academic year 2017-18.

Proceedings & Resolution 14.06:

- Board members were quite satisfied with year-wise progress of the department after reviewing Academic and Administrative Audit (AAA) data of department.
- Details of AAA are attached as an **Annexure VI.**

Item 14.07: For Discussion: NBA Accreditation Summary & Status

Proceedings 14.07:

- Board members were informed that EC Department, FTE has filled up the online application form for NBA Accreditation.

Resolution 14.07:

- Board members appreciated efforts made by staff members for NBA Accreditation preparation.

Item 14.08: For Discussion: Ph. D synopsis Approval of Research Scholars

Proceedings 14.08:

- Five Synopsis were presented in front of Board members.
- BoS members discussed about the article published by the research scholars in various SCI and SJR journals.

Resolution 14.08:

- Board members appreciated that department promotes research publications in SJR & JCR indexed journals. Committee has suggested to avoid publications in UGC Listed journals which are not indexed in SJR & JCR.
- Details of research scholars' publications are attached as an **Annexure VII.**

Item 14.09: For Discussion: Analysis of University Question Papers

Proceedings 14.09:

- The university question paper analysis was discussed by the board members.
- Blooms Taxonomy & Reverse Blooms Taxonomy based paper analysis is carried out by department staff members.

- Mapping of Course Outcomes (CO) & Programme Outcomes (PO) and Programme Educational Objectives (PEOs) was discussed.

Resolution 14.09:

- A sample analysis of university question paper is attached along with CO-POs as an **Annexure VIII.**

Item 14.10: For Discussion: Approval of Internal & external examiners' panel for B.Tech and M.Tech

Proceedings 14.10:

- BoS members approved the Internal and External examiners panel.

Resolution 14.12:

- Since the examiner list is confidential, it shall be supplied to University Examination Section separately.

The meeting ended with a vote of thanks.

Dr. Trushit Upadhyaya
Chairman-BoS, EC Department,
FTE, CHARUSAT

Date: 28/07/2018

CHARUSAT

Charotar University of Science & Technology
Chandubhai S. Patel Institute of Technology
V. T. Patel Department of EC Engineering

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Chandubhai S Patel Institute of Technology

Year 2018-19

Analysis on Feedback on Curriculum by Present Students

Suggestion Given:

1) Chapter based on Neural Network should be in the syllabus.
2) Industry demand subject should be in depth.

Action Taken:

1) It has been approved in 15th BoS meeting that new Elective Course as Programme Elective – II (Deep Learning) is introduced in 6th Semester of B.Tech EC.
2) It has been approved in 15th BoS meeting that MOOC course on Hardware Modeling using Verilog is introduced in 4th Semester of B.Tech EC. (Annexure-I)

Analysis on Feedback on Curriculum by Alumni

Suggestion Given:

1) IoT application in Robotics should be added in curriculum.

Action Taken:

1) It has been approved in 15th BoS meeting that MOOC course on Robotics is introduced in 4th Semester of B.Tech EC. (Annexure-I)

Analysis on Feedback on Curriculum by Employer

Suggestion Given:

1) VLSI Back End Design practical and Lab sessions should be in course.

Action Taken:

1) It has been approved in 15th BoS meeting that new Elective Course as Programme Elective – III (Analog VLSI Design) is introduced in 7th Semester of B.Tech EC.

(Annexure-I)

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Analysis on Feedback on Curriculum by Teacher

Suggestion Given:

1) Advanced Embedded Protocols for Intelligent system should be in syllabus.

Action Taken:

1) It has been approved in 15th BoS meeting that MOOC course on Artificial Intelligence is introduced in 4th Semester of B.Tech EC. (Annexure-I)

CHANDUBHAI S. PATEL INSTITUTE OF TECHNOLOGY
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CHANGA

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

FACULTY OF TECHNOLOGY & ENGINEERING

V.T. Patel Department of Electronics and Communication Engineering

Minutes – 15th Meeting of Board of Studies

Date	:	**August 31, 2019, Saturday**
Time	:	**10:00 am**
Venue	:	**Conference room, T&P Cell, Ground Floor, EC/EE Building, CSPIT, FTE, CHARUSAT**

The meeting of the 15th Board of Studies, Department of Electronics and communication Engineering, Faculty of Technology, Charotar University of Science and Technology (CHARUSAT) was held as per schedule.

Following members were present:

1.	Dr. Trushit Upadhyaya	**Chairman**	Associate Professor &HoD, Department of E&C Engineering, CSPIT
2.	Dr. Hiren Mewada	**Member**	Associate Professor, Department of E&C Engineering, CSPIT
3.	Dr. S. K. Hadia	**Member**	Associate Professor, Department of E&C Engineering, CSPIT
4	Prof. Brijesh Shah	**Member**	Assistant Professor, Department of E&C Engineering, CSPIT
5	Dr. Arpita Patel	**Member**	Assistant Professor, Department of E&C Engineering, CSPIT
6	Dr. Falguni Raval	**Member**	Assistant Professor, Department of E&C Engineering, CSPIT
7	Mr. Upesh Patel	**Member**	Assistant Professor, Department of E&C Engineering, CSPIT
8	Dr. Sanjeev Gupta	**Member**	Professor, DAIICT, Gandhinagar.
9	Dr. Niranjan Devashrayee	**Member**	Professor, Nirma University, Ahmedabad
10	Mr. Nilesh Ranpura	**Member**	Delivery Manager, e-infochips, Ahmedabad
11	Mr. Jignesh Patel	**Member**	Founder, Energy System Engineering, Baroda
12	Dr. Killol Pandya	**Invitee**	Assistant Professor, Department of E&C Engineering, CSPIT

13	Mr. Jignesh Patoliya	**Invitee**	Assistant Professor, Department of E&C Engineering, CSPIT
14	Mr. Arpan Desai	**Invitee**	Assistant Professor, Department of E&C Engineering, CSPIT
15	Mr. Yogesh Tiwari	**Invitee**	Assistant Professor, Department of E&C Engineering, CSPIT

Following member could not remain present due to preoccupation.

1	Dr. Amit Bhatt	**Member**	Professor, DAIICT, Gandhinagar.

Agenda Proceedings & Resolutions:-

Item 15.01: For Discussion: To discuss and approve the teaching schemes for all the semesters of B.Tech (UG Programme) under CBCS scheme, effective from the academic year 2019-20.

Proceedings 15.01 :

- Board of Studies members reviewed and discussed teaching scheme and detailed syllabus of all the semester of B.Tech under Choice Based Credit System (CBCS).
- MOOC Courses can be introduced as an **Audit Course** for 4th Semester. Following courses were discussed which could be offered as an Audit Course.

Semester	Course Name
4	1. Hardware modelling using Verilog
	2. Robotics
	3. Fundamentals of Artificial Intelligence
	4. Ethics in Engineering Practice
	5. Patent Filing for beginners
	6. Introduction to Operating Systems

Resolution 15.01:

- Board members appreciated the idea of offering Audit course looking at the changing market trend. After thorough discussion, following courses shall be offered as Audit courses in Electronics & Communication Department, Faculty of Technology & Engineering. The examination scheme for the audit course shall be

finalized in consultation with Dean, Faculty of Technology & Engineering. It shall be circulated to board members for approval.

Semester	MOOC Course Name
4	1. Hardware modelling using Verilog
	2. Robotics
	3. Fundamentals of Artificial Intelligence
	4. Ethics in Engineering Practice

- The Board approved the teaching scheme and syllabi of B. Tech program under Choice Based Credit System (CBCS), effective from the academic year 2019-20. The teaching and examination scheme along with modified syllabus is attached as a Part-I of **Annexure I.**

Item 15.02: For Discussion: To discuss and approve the detailed syllabus of elective courses.

Proceedings 15.02 :

- Board members reviewed and discussed teaching scheme and detailed syllabi of elective courses of B.Tech under CBCS.
- Following new elective courses are added in B.Tech curriculum under CBCS.

Semester	Course Code	Course Name
6	EC378	Programme Elective- II
		1. Deep Learning
7	ECXXX	Programme Elective- III
		1. EC474: Cloud Computing
		2. EC475: Analog VLSI Design

Resolution - 15.02:

- Board members have approved and gave their suggestion in elective courses. The detailed syllabus of all new elective courses is attached as an **Annexure II.**

Item 15.03: For Discussion: Modification in existing teaching scheme and syllabus of 2nd, 3rd and 4th year of B.Tech.

Proceedings 15.03 :

- BoS members discussed detailed syllabus of final year newly added elective course.

Resolution - 15. 03:

- Board members in principle have approved detailed syllabus of final year. Minor suggestions were given for modifications in curriculum. The suggestions are reflected in curriculum.
- Detailed syllabus of newly added elective course is attached as an **Annexure III**.

Item 15.04: For Discussion: Modification in M.Tech (PG Programme) syllabus under CBCS Scheme.

Proceedings & Resolutions 15.04:

- The teaching credits were reduced to 90 from present 102 credits. Fourth Semester year credits were reduced to 18 from 30. The Part-II of Annexure I reflects the modifications.

Item 15.05: To review and approve detailed syllabus of Quantitative Techniques for Ph.D. course work.

Proceedings 15.05:

- BoS members approved the syllabus of Quantitative Techniques for Ph.D. course work.

Resolution 15.05:

- Board members reviewed detailed syllabus and suggested minor changes in curriculum of Quantitative Techniques. Approved detailed syllabus is attached as **Annexure IV.**

Item 15.06: For Discussion: Ph. D synopsis Approval of Research Scholars

Proceedings 15.06:

- A Synopsis was presented in front of Board members.

- BoS members discussed about the articles published by the research scholars in SJR journals and conferences.

Resolution 15.06:

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

Item 15.07: For Discussion: Implementation on Outcome Base Education (OBE) and ICT based Teaching learning.

Proceedings 15.07:

- Mapping of Course Outcomes (CO) & Programme Outcomes (PO) and Programme Educational Objectives (PEO) were discussed.

Resolution 15.07:

- A sample COs, POs, PSOs and PEOs mapping for a course is attached as an **Annexure VI.**

Item 15.08: For Discussion: Preparation carried out on NBA and NAAC accreditation and Discussion on Academic and Administrative Audit (AAA) of the department for the academic year 2018-19.

Proceedings & Resolution 15.08:

- Board members were quite satisfied with year-wise progress of the department after reviewing Academic and Administrative Audit (AAA) data of department.
- Details of AAA are attached as an **Annexure VII.**

Item 15.09: For Discussion; Review of University Result Analysis and steps for the remedial actions.

Proceedings 15.09:

- Previous 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 15.09:

- BoS member found results quite satisfactory for Third and Fourth Year B.Tech. It was noticed by BoS members that improvement in results for the First and Second Year B.Tech is required, especially for mathematics courses.
- Year on year Result Analysis and remedial actions' document are attached as an **Annexure VIII**.

Item 15.10: To discuss about Training and Placements Records

Proceedings 15.10:

- BoS members discussed about Placement records.

Resolution - 15. 10:

- 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 details are attached as an **Annexure IX**.

Item 15.11: For Discussion: Assessment of the quality of Question Papers

Proceedings 15.11:

- The university question paper analysis was discussed by the board members.
- Blooms Taxonomy based paper analysis is carried out by department staff members.

Resolution 15.11:

- A sample analysis of university question paper is attached as an **Annexure X.**

In addition to above items, detailed discussion was carried out on the current admission scenario in EC Engineering and new examination practices adopted by the department viz. open book test and coding test with use of internet.

Other Items

Few other suggestions given by the Board members are:

- Prerequisites for all the courses should be added in the beginning of course introduction.
- VLSI Academy should be started for the VLSI domain as there are substantial amount of jobs available in VLSI domain, both in Gujarat and outside Gujarat
- A course on Entrepreneurship should also be started.
- Master's elective courses can be offered to final semester student of B.Tech as an elective courses.
- IIT professors can be invited as an Adjunct Professors to increase the visibility of the institute amongst aspirant students.
- A course on "**Product Design Approach**" can be introduced as an elective course for 7th semester. This course should be taught by industry experts.

The meeting ended with a vote of thanks.

Dr.Trushit Upadhyaya
Chairman-BoS, EC Department,
FTE, CHARUSAT

Date: 31/08/2019

CHARUSAT

Charotar University of Science & Technology
Chandubhai S. Patel Institute of Technology
V. T. Patel Department of EC Engineering

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Chandubhai S Patel Institute of Technology

Year 2019-20

Analysis on Feedback on Curriculum by Present Students

Suggestion Given:

1) Scripting languages should be in syllabus

Action Taken:

1) It has been approved in 16th BoS meeting that Python and Pearl scripting language can be offered in 4th semester in the software modeling course. (Annexure-I)

Analysis on Feedback on Curriculum by Alumni

Suggestion Given:

1) Include full custom and semicustom architecture in syllabus.

Action Taken:

1) It has been approved in 16th BoS meeting that Software modeling course is modified with add-on contents. (Annexure-I)

Analysis on Feedback on Curriculum by Employer

Suggestion Given:

1) Python Programming should be in curriculum.

Action Taken:

1) It has been approved in 16th BoS meeting that Python and Pearl scripting language can be offered in 4th semester in the software modeling course. (Annexure-I)

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Analysis on Feedback on Curriculum by Teacher

Suggestion Given:

1) More focus should be given on Verilog.

Action Taken:

1) It has been approved in 16th BoS meeting that MOOC course on Hardware Modelling using Verilog is introduced in 4th Semester of B.Tech EC. (Annexure-I)

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Annexure-I

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

Minutes – 16th Meeting of Board of Studies

Date	:	**July 04, 2020, Saturday**
Time	:	**10:00 am**
Venue	:	**Online Via Google Meet**

The meeting of the 16th Board of Studies, Department of Electronics and communication Engineering, Faculty of Technology, Charotar University of Science and Technology (CHARUSAT) was held online as per schedule.

Following members were present:

1.	Dr. Trushit Upadhyaya	**Chairman**	Associate Professor & HoD, Department of E&C Engineering, CSPIT
2.	Dr. Falguni Raval	**Member**	Assistant Professor, Department of E&C Engineering, CSPIT
3.	Dr. Arpita Patel	**Member**	Assistant Professor, Department of E&C Engineering, CSPIT
4.	Prof. Brijesh Shah	**Member**	Assistant Professor, Department of E&C Engineering, CSPIT
5.	Dr. Upesh Patel	**Member**	Assistant Professor, Department of E&C Engineering, CSPIT
6.	Dr. Sanjeev Gupta	**Member**	Professor, DAIICT, Gandhinagar
7.	Dr. Amit Bhatt	**Member**	Professor, DAIICT, Gandhinagar
8.	Mr. Nilesh Ranpura	**Member**	Delivery Manager, e-infochips, Ahmedabad
9.	Mr. Jignesh Patel	**Member**	Founder, Energy System Engineering, Baroda
10.	Dr. Jitendra Chaudhari	**Invitee**	Associate Professor, Department of E&C Engineering, CSPIT
11.	Dr. Amit Patel	**Invitee**	Assistant Professor, Department of E&C Engineering, CSPIT
12.	Dr. Killol Pandya	**Invitee**	Assistant Professor, Department of E&C Engineering, CSPIT

13.	Dr. Jignesh Patoliya	**Invitee**	Assistant Professor, Department of E&C Engineering, CSPIT
14.	Dr. Arpan Desai	**Invitee**	Assistant Professor, Department of E&C Engineering, CSPIT
15.	Mr. Yogesh Tiwari	**Invitee**	Assistant Professor, Department of E&C Engineering, CSPIT

Following member could not remain present due to preoccupation.

1	Dr. Niranjan Devashrayee	**Member**	Professor, Nirma University, Ahmedabad

Agenda Proceedings & Resolutions:-

Item 16.01: For Discussion: To discuss and approve the teaching scheme and detailed syllabus of second and third year for B.Tech (UG Programme) under CBCS scheme and detailed discussion on following items:

1. Software Modeling course
2. MOOC Courses and its evaluation mechanism

Proceedings 16.01 :

- Board of Studies members reviewed and discussed teaching scheme and detailed syllabus of all the semester of B.Tech under Choice Based Credit System (CBCS).
- Python and Pearl scripting language can be offered in 4th semester in the software modeling course.
- Following MOOC courses shall be introduced in 4th semester:

Semester	Course Name
4	1. Hardware modelling using Verilog
	2. Fundamentals of Artificial Intelligence
	3. Fundamentals of Robotics
	4. Project Management
	5. Ethics in Engineering Practice

Resolution 16.01:

- The Board approved the teaching scheme and syllabi of Final Year B. Tech program under Choice Based Credit System (CBCS), effective from the academic

year 2020-21, MOOC courses and final year syllabus along with the teaching scheme. The teaching and examination scheme along with syllabus is attached as a Part-I of **Annexure I.**

Item 16.02: For Discussion: Review and approve the 4th year courses of B.Tech CBCS for the batch 2018-19. Physics course in first year of UG Programme.

Proceedings 16.02 :

- Board of Studies members reviewed and discussed teaching scheme and detailed syllabus of final year of B.Tech under Choice Based Credit System (CBCS).

Resolution - 16.02:

- Board members have approved and gave their suggestion in few courses of final year. The approved detailed syllabus is attached as an **Annexure II.**

Item 16.03: For Discussion: Review and approve the updated Teaching and Examination schemes of B.Tech (CBCS) courses and detailed syllabus of 1st year applicable for 2020-21.

Proceedings 16.03 :

BoS members discussed detailed teaching and examination scheme of B Tech (CBCS) courses and detailed syllabus of 1st year applicable for 2020-21.

Resolution - 16. 03:

- Board members in-principle have approved teaching and examination scheme for first year.

Resolution - 16. 03:

- Board members have in-principle approved detailed syllabus.
- Detailed syllabus of newly added elective course is attached as an **Annexure III.**

Item 16.04: For Discussion: Review of physics course in 1st and 2nd semester of B.Tech.

Proceedings & Resolutions 16.04:

- Board of Studies members reviewed and discussed teaching scheme and detailed syllabus of Physics courses for 1st and 2nd semester of B.Tech under Choice Based

Credit System (CBCS). Detailed syllabi of physics for both the semesters is attached as an **Annexure III.**

Item 16.05: For discussion: Approval of Online M.Tech courses

Proceedings & Resolutions 16.05:

- Board of Studies members reviewed and discussed teaching scheme and detailed syllabus of online M.Tech courses under Choice Based Credit System (CBCS). Detailed teaching and examination scheme for online M.Tech course is attached as an **Annexure IV.**

Item 16.06: For Discussion; Review of University Result Analysis and steps for the remedial actions.

- **Proceedings 16.06:** University examination results of previous academic year were discussed with BoS members. Year-on-year comparison of 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 16.06:

- BoS member found results quite satisfactory for Third and Fourth Year B.Tech. It was noticed by BoS members that improvement in results for the First and Second Year B.Tech is required, especially for mathematics courses.
- Year on year Result Analysis and remedial actions' document are attached as an **Annexure V.**

Item 16.07: To discuss about Training and Placements Records

Proceedings 16.07:

- BoS members discussed about Placement records.

Resolution 16.07:

- 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 details are attached as an **Annexure VI.**

Item 16.08 For Discussion: To review the course outcome and Programme outcome mapping in a view of NBA preparation.

Proceedings 16.08:

- Mapping of CO-PO for each course has prepared and attainment for first and second unit test and final external examination has done.

Resolution 16.08:

- Board members reviewed and appreciated the exercise done by all staff members for the attainment and mapping of course outcomes for each courses. Final sheet is attached as **Annexure VII.**

Item 16.09: Ph. D. synopsis Approval of Research Scholars

Proceedings 16.09:

- Synopsis of PhD research scholars were presented in front of Board members.
- BoS members discussed about the articles published by the research scholars in SJR journals and conferences.

Resolution 16.09:

- Board members appreciated that department promotes research publications in SJR & JCR indexed journals.
- Details of research scholars' publications are attached as an **Annexure VIII.**

Item 16.10: For Discussion: Planning of online courses conduction for UG and PG Programme.

Proceedings & Resolutions 16.10:

- A detailed course wise methodology and evaluation criterion has been prepared for each courses of UG and PG programme. Presentation on online execution and course wise methodology is attached as an **Annexure IX.**

Item 16.11: For Discussion: Introduction of new University Elective course.

Proceedings 16.11:

- BoS members discussed detailed syllabus of University Elective course.

Resolution 16.11:

- Board members in principle have approved detailed syllabus.
- Detailed syllabus of newly added elective course is attached as an **Annexure X.**

Item 16.12: For Discussion: Enhancing Research activity and research plan.

Proceedings & Resolution 16.12:

- Dr. Jitendra Chaudhari explained the details of all research project carried out at CSRTC, CHARUSAT. Board members appreciated the efforts by the department in research projects.

The meeting ended with a vote of thanks.

Dr.Trushit Upadhyaya
Chairman,BoS, EC Department,
FTE, CHARUSAT

Date: 04/07/2020