

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
Chandubhai S Patel Institute of Technology
Manubhai Shivabhai Patel Department of Civil Engineering

SUMMARY OF CURRICULUM FEEDBACK RECEIVED FROM STACK

HOLDERS (Year 2019 -20)

1. In the pedagogy, more practical aspects should be included as per the course need.
2. Courses should be taught in such a way that it should include question of competitive examination such as GATE and also include advance topic to develop interest.
3. "Load assessment and Design Philosophies" should be added in Design of Concrete Structure.
4. Failure of Structures should also be added as a unit to sensitize students to the importance of good structural design.
5. As per the current industry need, B.Tech. (Civil Engineering) with Minor Specialization in Artificial Intelligence and Machine Learning programme should be introduced.
6. Minor specialization courses may be offered as electives initially.

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ACTION TAKEN ON FEEDBACK FROM STAKEHOLDERS (Year 2019-20)

Suggestions given by stakeholders were considered and following actions were discussed and implemented.

- In all the courses group activities, case studies, presentations, report writing is included in the pedagogy. (Annexure – I)
- Courses were accordingly designed in a manner that shall help the students to cope up with the contents of competitive examinations. (Annexure – I)
- To have detailed study of structural design, design of concrete and steel structures are separated as different courses and will be implemented from year 2021-22. Also, discussion on failure of structures and load assessment is included to make students conscious about importance of good structural design. (Annexure – I)
- Minor specialization in the EMERGING AREAS viz., Artificial Intelligence (AI), Internet of Things (IoT), Blockchain, Quantum Computing, Data Sciences, 3D Printing and Design, Augmented Reality/Virtual Reality (AR/VR), etc. were introduced in B.Tech. Civil Engineering. (Annexure – I)
- To implement minor specialization, experts of the field (both from Computer Engineering and Civil Engineering) were consulted. The minor specialization courses are offered as institute electives. (Annexure – I)

Vedanti M. V.
Ms. Mitali Vedanti
Assistant Professor



Dr. V. R. Panchal,
Professor and Head,
M S Patel Department of Civil Engineering, CSPIT, CHARUSAT

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Annexure - I

Minutes – 18th Meeting of Board of Studies of Civil Engineering

Date : 4th July 2020, Saturday

Time : 10:00 a.m. onwards

Venue: Through Google Meet

The 18th meeting of the Board of Studies (BOS), Civil Engineering, Faculty of Technology and Engineering, Charotar University of Science and Technology (CHARUSAT) was held as per above schedule.

Following members were present:

1.	Dr. V. R. Panchal	Chairman	Professor & Head, Department of Civil Engineering, CSPIT
2.	Dr. Hiteshri Shastri	Internal Member	Associate Professor, Department of Civil Engineering, CSPIT
3.	Ms. Neha Chauhan	Internal Member	Assistant Professor, Department of Civil Engineering, CSPIT
4.	Ms. Dipali Patel	Internal Member	Assistant Professor, Department of Civil Engineering, CSPIT
5.	Dr. N. C. Shah	Invitee	Advisor, Uka Tarsadiya University, Bardoli
6.	Dr. H. M. Patel	External Expert	Professor, Department of Civil Engineering, Faculty of Technology and Engineering, The M. S. University of Baroda, Vadodara
7.	Dr. Sanjay Dhiman	External Expert	Associate Professor, Civil Engineering Department, B. V. M. College of Engineering, V. V. Nagar
8.	Mr. Bhavin Shah	External Expert	Chief Executive officer (CEO) VMS Engineering & Design Services Pvt. Limited, Ahmedabad
9.	Dr. Sharad Purohit	External Expert	Professor, Department of Civil Engineering, Institute of Technology, Nirma University Ahmedabad

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Initiation:

Chairman welcomed members of Board of Studies (BOS) and introduced them and initiated the proceedings as per Agenda.

Proceedings & Resolutions:-

Agenda No. 18.01: For Approval: Approval of Minutes of the 17th BOS Meeting

Proceeding No. 18.01

Minutes of 17th Meeting of BOS, Faculty of Technology & Engineering were circulated to BOS members in advance. Chairman outlined the summary and the actions taken on the received suggestions of 17th Meeting of Board of Studies and invited further comments.

Resolution No. 18.01

As no comments were received on circulation of Minutes, the minutes of meetings were confirmed. These are attached as **Annexure – 1**.

Agenda No. 18.02: Approval: To review and approve course structure and Third Year syllabi of CBCS based B.Tech. (Civil Engineering) program to be implemented for the students enrolled in AY 2019-20.

Proceeding No. 18.02

Course structure and Third year syllabi of CBCS based B.Tech. (Civil Engineering) program to be implemented for the students enrolled in AY 2019-20 were presented. Members deliberated on the course structure and Third year syllabi. The course structure is attached as **Annexure – 2**.

Resolution No. 18.02

Board reviewed and granted its approval to course structure and Third Year syllabus of CBCS based B.Tech. (Civil Engineering) program to be implemented for the students enrolled in AY 2019-20.

Agenda No. 18.03: Approval: To review and approval of Course structure and Final year syllabi of CBCS based B.Tech. (Civil Engineering) program to be implemented for the students enrolled in AY 2018-19.

Proceeding No. 18.03

Course structure and Final year syllabi of CBCS based B.Tech (Civil Engineering) program to be implemented for the students enrolled in AY 2018-19 were presented. Members

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deliberated on the course structure and Final year syllabi. The course structure is attached as **Annexure – 3.**

Resolution No. 18.03

Board reviewed and granted approval to Course structure and Final year syllabi of CBCS based B.Tech. (Civil Engineering) program to be implemented for the students enrolled in AY 2018-19. Following suggestions were given by the Board members:

1. "Load assessment and Design Philosophies" should be added as first unit in CL451 Design of Reinforced Concrete Structures.
2. Design of conventional and continuous slab should be clubbed in one unit in CL451.
3. Failure of Structures should also be added as a unit in both courses CL451 and CL452, to sensitize students to the importance of good structural design.

Agenda No. 18.04: Approval: To review and approve course structure CBCS based B.Tech (Civil Engineering) program and detailed syllabi of 1st and 2nd years applicable for 2020-21 Admission Batch.

Proceeding No. 18.04

Course structure CBCS based B.Tech (Civil Engineering) program and detailed syllabi of 1st and 2nd years applicable for 2020-21 Admission Batch were presented. The details are attached as **Annexure – 4.**

Chairman briefly informed about the modification made in Course structure and syllabus of Environmental Sciences course (CL142.01/CL142A.01) (which is being offered across the University in practical mode during odd and even semesters) and informed new course code (CL144A/CL144B/CL144C). The same is attached as **Annexure – 5.**

Resolution No. 18.04

Board reviewed and granted approval to Course structure CBCS based B.Tech (Civil Engineering) program and detailed syllabi of 1st and 2nd years applicable for 2020-21 Admission Batch.

The new course structure and syllabus of Environmental Sciences were approved by the board members with a suggestion to visit the Gujarat Ecological Commission by concerned faculty members.

Agenda No. 18.05: Approval: To review and approve M Tech program in online mode planned by Civil Engineering Department

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Proceeding No. 18.05

Chairman asked M Tech Coordinator (internal member of BOS) to present the details of M Tech program in online mode planned by Civil Engineering Department. The details are attached as **Annexure – 6**.

Resolution No. 18.05

Board Members approved with the suggestions that only up to 20% credit transfer should be permitted in every semester through online courses provided through SWAYAM platform.

Agenda No. 18.06: For Discussion: Analysis and discussion on the semester end results of the Academic year 2019-20 and steps taken for the remedial actions.

Proceeding No. 18.06

Semesters wise and Course wise End Semester Examination results of B. Tech and M. Tech programs of Academic Year 2019-20 was presented to the Board members. The same is attached as **Annexure –7**.

Resolution No. 18.06

The Board deliberated on the courses which were having more percentage failure. Following suggestions were given by the Board members to improve the results in future:

1. Geotechnical Engineering - II (CL 444) course should be taught in such a way that it should include questions of competitive examination such as GATE and also include advance topics to develop interest in the students, if not included.
2. Extra efforts should be made for the slow learners.

Agenda No. 18.07: Discussion: Analysis on placement of AY 2019-20.

Proceeding No. 18.07

Chairman presented details of placement activities carried out in Academic year 2019-20 and the placement details of students. The same is attached as **Annexure – 8**.

Resolution No. 18.07

Board members suggested that proposed B. Tech in Civil Engineering with minor specialization will improve the placement of students in future.

Agenda No. 18.08: For Approval: Approval of Synopsis and panel of potential reviewers/referees for PhD thesis of Ms. Hema R. Parmar (12DRCL001), Research Scholar, Department of Civil Engineering.

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Proceeding No. 18.08

Ms. Hemaben R. Parmar (12DRCL001) presented her synopsis on “Hydro Geological Study of Multi Aquifers Causing Water Logging and Salinity in Dharoi Command Area” to the BOS members. It is attached as **Annexure – 9a**. Suggestions for the panel of potential reviewers/referees for her Ph. D. Thesis of Ms. Hemaben R. Parmar were invited by the Chairman. The same is attached as **Annexure – 9b**.

Resolution No. 18.08

Members of Board of Studies approved the synopsis of Ms. Hemaben R. Parmar (12DRCL001) with minor corrections & the panel of reviewers/ referees.

Agenda No. 18.09: Approval: CBCS M. Tech (Structural Engineering) teaching and examination schemes to be implemented for the students enrolled in AY 2019-20 and to be enrolled in AY 2020-21.

Proceeding No. 18.09

The teaching & examination schemes for CBCS M.Tech (Structural Engineering) Program to be implemented for the students enrolled in AY 2019-20 and to be enrolled in AY 2020-21 were presented. The details are attached as **Annexures–10a and 10b**.

Resolution No. 18.09

Board reviewed and granted approval to CBCS M. Tech (Structural Engineering) Teaching and Examination Schemes to be implemented for the students enrolled in AY 2019-20 and to be enrolled in AY 2020-21.

Agenda No. 18.10: Approval: To review and approval of course structure of CBCS based B.Tech. (Civil Engineering) program to be implemented for the students, who are enrolled in AY 2017-18.

Proceeding No. 18.10

The course structure of CBCS based B.Tech. (Civil Engineering) program is to be implemented for the students, who are enrolled in AY 2017-18 was presented before BOS members. The same is attached as **Annexure –11**.

Resolution No. 18.10

Board reviewed and granted approval to the course structure.

Agenda No. 18.11: For Approval: To review and to approve panel of examiner for winter and summer examinations 2020-21.

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Proceeding No. 18.11

The panel of examiner for winter and summer examinations 2020-21 was put forward. The same is attached as **Annexure – 12**.

Resolution No. 18.11

Board granted its approval to the proposed panel of examiners.

Agenda No. 18.12: Discussion: Pedagogy of AY 2019-20 and suggestions for improvement or modification.

Proceeding No. 18.12

The current Pedagogy of all courses of odd and even semesters of AY 2019-20 was presented. The pedagogy is attached as **Annexure –13**

Resolution No. 18.12

The board members noted the current pedagogy.

Agenda No. 18.13: Discussion: Question Papers Scrutiny Report 2019-20

Proceeding No. 18.13:

The Question Papers Scrutiny Report 2019-20 was presented. Board members deliberated on the report. The report is attached as **Annexure –14**.

Resolution No. 18.13

Board Members noted that majority of the question papers reviewed by the subject experts were of “Good” to “Very Good” Category and few were of “Excellent Category”.

Agenda No. 18.14: Discussion: Minor specialization in the Emerging Areas viz., Artificial Intelligence (AI), Internet of Things (IoT), Blockchain, Robotics, Quantum Computing, Data Sciences, Cyber Security, 3D Printing and Design, Augmented Reality/ Virtual Reality (AR/VR), etc. to be offered from AY 2020-21 admission batch to earn B. Tech in Civil Engineering with minor specialization in the Emerging Areas.

Proceeding No. 18.14:

Chairman explained about the requirements of minor specialization to be offered with Major Discipline like Civil Engineering and sought suggestions from board members regarding choice of minor specialization to be offered.

Resolution No. 18.14:

Following suggestions were given by the Board members:

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1. The board members appreciated the move and recommended that senior faculty members of Civil Engineering Department in consultation with Experts/faculty members related to the emerging areas can finalize minor specialization to be offered to the students of 2020-21 admission batch.
2. It was also suggested that prerequisites related to the minor specialization should be checked and offered for effective knowledge impartation.

The Board authorized chairman of BOS of Civil engineering to initiate action in the matter and subsequently inform the board after finalization of course structure and syllabi.

Agenda No. 18.15: Discussion: Planning of online course conduction and its effective implementation.

Proceeding No. 18.15

Chairman opened the discussion by talking about the plans of online education impartation and challenges faced.

Resolution No. 18.15

1. Board members agreed that online education was a challenge especially for analytical subjects. They also agreed that maintaining student attentiveness, network issues, platform constraints are other issues that everyone is facing.
2. Members suggested taking a small quiz at the end of the lecture to check the attentiveness of the students.
3. Making videos of the experiments to be performed was also suggested for conducting lab sessions. Virtual labs can also be utilized for the same.

Agenda No. 18.16: Discussion: Examiner feedback review of question papers of AY 2019-20.

Proceeding No. 18.16

The existing feedback review of question papers of AY 2019-20 were shown to the Board members. The same is attached as **Annexure – 15**.

Resolution No. 18.16

Board members noted the feedbacks received from external examiners.

Agenda No. 18.17: Discussion: Research Activities, Project and Consultancy of AY 2019-20 and preparation of the action plan for the same.

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Proceeding No. 18.17

The details of Research Activities, Project and Consultancy of AY 2019-20 were presented. The same is attached as **Annexure – 16**.

Resolution No. 18.17

Board members appreciated the efforts made by the Department.

Agenda No. 18.18: Discussion: Admissions and Quality of Inputs of AY 2019-20.

Proceeding No. 18.18

The details of admissions of AY 2019-20 and efforts made by faculty members of Civil Engineering Department to improve the admissions were presented. The same is attached as **Annexure – 17**.

Resolution No. 18.18

Board members noted the admissions and efforts made by the Department. Board members suggested that proposed B. Tech in Civil Engineering with minor specialization will improve the admission of students in future.

Agenda No. 18.19: Discussion: Discussion on the feedback of the stakeholders to improve the various practices adopted by Civil Engineering Department.

Proceeding No. 18.19

The feedback of the stakeholders to improve the various practices adopted by Civil Engineering Department was presented. The same is attached as **Annexures – 18a and 18b**.

Resolution No. 18.19

Board members noted the feedbacks received from various stakeholders.

Agenda No. 18.20: Discussion on effective implementation of Outcome-Based Education (OBE) and utilization of Smart Class Room (ICT) based Teaching Learning.

Proceeding No. 18.20

Chairman asked for the suggestions on the effective implementation of OBE.

Resolution No. 18.20

Board members suggested to make students aware about the OBE process and its importance.

Agenda No. 18.21: Discussion on the preparation of NBA and NAAC done by the Civil Engineering Department.

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Proceeding No. 18.21

Chairman informed efforts made by faculty members of Civil Engineering Department regarding NAAC preparations. He also informed that the Civil Engineering Department can't go for the NBA accreditation due to non-compliance of criteria of Pre-qualifier.

Resolution No. 18.21

Members suggested to fulfil the criteria of Pre-qualifier before applying for NBA.

As there was no other item, the meeting ended with a vote of thanks by the Chairman.



Dr. V. R. Panchal
Chairman, BOS



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