

SHARDA UNIVERSITY  
SCHOOL OF ENGINEERING AND TECHNOLOGY  
DEPARTMENT OF CIVIL ENGINEERING

Date: June 12, 2018

Minutes of the Meeting

Subject: Approval of Courses in the BOS held on June 12, 2018

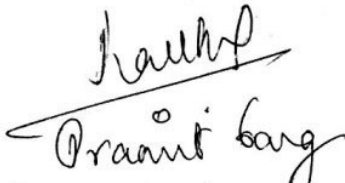
A meeting of the Board of Studies (BOS) of the Department of Civil Engineering was held on June 12, 2018 at 10:00 am in the SET-I board room 005.

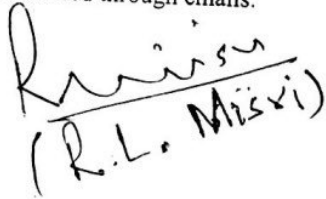
Suggestions from the following members were obtained:

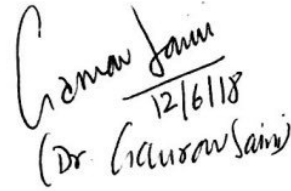
1. Dr. Gaurav Saini, HoD
2. Prof. Satyaprakash
3. Prof. Vivek Shankar Mathur
4. Pinaki P. Nayak\*
5. Nishant Kumar
6. Sarmistha Rudra Paul\*
7. Megha Gupta
8. Dr. R. L. Misri, former Registrar & Pro-VC, SU
9. Rajeeb Kumar, Ultratech\*.
10. Pramit Garg, Director, DMRC

Chairman  
Internal Member  
Internal Member  
Internal Member  
Internal Member  
Internal Member  
Internal Member  
External Member  
External Member  
External Member

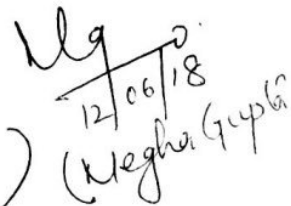
\*Comments and/or approvals were obtained through emails.

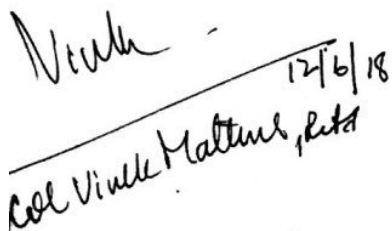
  
Pramit Garg  
(Delhi Metro)  
12/6/18

  
(R.L. Misri)

  
12/6/18  
(Dr. Gaurav Saini)

  
12/6/18  
(SATYAPRAKASH)

  
12/06/18  
(Megha Gupta)

  
12/6/18  
Prof. Vivek Mathur, IIT

  
12/6/18

Date: June 12, 2018

### Agenda for Board of Studies Meeting

#### **B. Tech. (Civil Engg.)**

**Agenda 1:** New course structure of B.Tech in Civil Engineering for all four years, admitted in 2018 onwards and minor updates in the 2nd year onwards for students admitted in 2016 and 2017.

The updated course structures for 2018-22 onwards batches and some minor changes for 2016 and 2017 batches will be presented to the BOS.

The details are:

#### **For 2016-20 Batch:**

- 1) The credit for AR – III in V<sup>th</sup> semester is changed from 1 to 2 credit and AR-V in 7<sup>th</sup> semester is changed to 1 credit.
- 2) The names and credit structure of the courses have been changed from AR-III (0-2-0) 1 credit, AR-IV (0-3-0) 2 credits and AR-V (0-3-0) 2 credits to CTS-3 Impact to impress (0-0-4) 2 credits, CTS-4 Ace the interview (0-0-4) 2 credits and CTS-5 Campus to Corporate (0-0-2) 1 credit.
- 3) Elective-I and Analysis of Structures-II have been interchanged.

#### **For 2017-21 Batch:**

- 1) The credit of open elective in 7<sup>th</sup> semester is changed from 4 (4-0-0) to 2 (2-0-0) credits.
- 2) Introduction to Design (2-0-0) has been removed from the curriculum. Instead a course titled Construction Engineering Management (2-0-0) has been offered in the VIII<sup>th</sup> semester.
- 3) Elective-I and Analysis of Structures-II have been interchanged.
- 4) The AR-I to AR-V courses and their L-T-P structures have been updated as follows:

<b>Existing</b>	<b>Updated</b>
AR-I (0-2-0) 1 credits	*CTS-1 Building Essential Language and Life Skills (0-0-4) 2 credits
AR-II (0-2-0) 1 credits	CTS-2 Communicate to Conquer (0-0-4) 2 credits
AR-III (0-2-0) 1 credit	CTS-3 Impact to impress (0-0-4) 2 credits
AR-IV (0-3-0) 2 credits	CTS-4 Ace the interview (0-0-4) 2 credits
AR-V (0-3-0) 2 credits	CTS-5 Campus to Corporate (0-0-2) 1 credit

#### **For 2018-22 Batch:**

- 1) The new course structure is attached.
- 2) The total no. of credit is now 160.

Agenda 2: Approval of new and modified courses. The syllabi for these courses will be presented to the BOS.

### Minutes of Meeting

The following comments/suggestions were obtained from the experts.

1. The summer industrial training of the students can ideally be monitored by the deputing a faculty member who will interact with the companies in which students are undergoing the summer training. If the training is in another city, the University should fund the stay and travel of the faculty. This will help the department build long-term relations with the industry.
2. The department can explore tie-ups with private organizations (in addition to government organizations) for summer training of students. Some examples are the various private organizations (such as, AFCONS, L & T, B L Kashyap, etc.) who are sub-contractors of DMRC.
3. An emerging area within civil engineering is the EHS (Environment, Health & Safety). Options for training in this area can be explored. In addition, the students can be encouraged to gain certification in EHS for better employment prospects.
4. Introduction to Civil Engineering and EHS can be given as subjects for minors in Civil Engineering.
5. For the summer training after 1<sup>st</sup> and 2<sup>nd</sup> year, it would be better if actual data/designs are obtained from the industry and then the same are used for guided in-house training of students.
6. Mass Rapid Transportation System (MRTS) can be included as a unit in the elective course on Railways.
7. The elective on Railways should be modified as per the present conditions. Schedule of dimensions, Tunnelling/Viaducts can be included in the syllabus.
8. Topics of emerging significance such as, inland waterways and smart cities can be included in the curriculum either as stand-alone electives or as a part of an elective in Transportation Engg.
9. Topics such as connections, plumbing and pipe systems can be included in the courses on Introduction to civil engineering or project-based learning.
10. Financial modelling should be included in construction project management or construction engineering management.
11. In the course on Surveying, unit 4A can include "Metro".

### **Challenges:**

The experts also discussed the challenges that need to be met by the academia in order to make the students more employable.

1. The work is mostly getting automated so the curriculum should be updated accordingly.
2. The students must be familiarized with industry-specific software as higher pay packages are being for corresponding roles.
3. After 1<sup>st</sup> and 2<sup>nd</sup> year, the students are not well prepared for the site and hence for the industrial training.

6/12/2018

Sharda University Mail - Board of Studies Meeting documents for review



Gaurav Saini (SUSET Associate Professor) <gaurav.saini@sharda.ac.in>

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## Board of Studies Meeting documents for review

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Pinaki Office <pinakiprasanna.nayak@sharda.ac.in>

Tue, Jun 12, 2018 at 6:30 AM

To: "Gaurav Saini (SUSET Associate Professor)" <gaurav.saini@sharda.ac.in>

Sir

I will be on leave on the said date of BOS meeting. But I already had a internal discussion with the department regarding the changes before my departure and have given my approval for those. So my this consent may be considered in my absence on the day of the meeting.

With regards

Pinaki P Nayak  
Assistant Professor  
Department of Civil Engineering

Sent from my iPhone

[Quoted text hidden]

<Complete syllabus 2018-22B Tech Civil.pdf>

<BOS\_12.6.18.docx>

<B.Tech Course Structure for 2018 onwards.pdf>

<Updated-B.Tech Course Structure for 2017 onwards batches.pdf>

<Updated-B.Tech Course Structure for 2016 (2nd yr onwards).pdf>

6/11/2018

Sharda University Mail - Board of Studies Meeting documents for review



Gaurav Saini (SUSET Associate Professor) <gaurav.saini@sharda.ac.in>

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## Board of Studies Meeting documents for review

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Rajeeb Kumar <rajeeb.kumar@adityabirla.com>  
To: "Gaurav Saini (SUSET Associate Professor)" <gaurav.saini@sharda.ac.in>

Mon, Jun 11, 2018 at 11:46 AM

Sir,

I gone through the contents , Structure is well planned and very much related to today's need.

Sem V – Concrete Technology

Ready Mix concrete ( A mechanized concrete ) is the main building material of major construction site and in future all major concreteing will be done by Ready Mix plant or site Batching plant . It is advisable to include a topic " Introduction of Ready Mix concrete " reference material IS 4926 : 2003 .

Optional: You can further add " Introduction of Certification of Ready Mix Concrete Plant " Reference:  
<http://qcin.org/cas/rmcpc/>

Regards,

Rajeeb kumar

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**From:** Gaurav Saini (SUSET Associate Professor) [mailto:gaurav.saini@sharda.ac.in]

**Sent:** Sunday, June 10, 2018 6:35 PM

**To:** Rajeeb Kumar

**Subject:** Board of Studies Meeting documents for review

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://mail.google.com/mail/u/0/?ui=2&ik=3cece4bcd0&jsver=DwQKp74ilHY.en.&cbl=gmail\_fe\_180603.15\_p9&view=pt&msg=163ed7d4a5b1c85c&q=rajee

6/13/2018

Sharda University Mail - BoS meeting documents review



Gaurav Saini (SUSET Associate Professor) <gaurav.saini@sharda.ac.in>

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## BoS meeting documents review

**Sarmistha Rudra Paul (SUSET Assistant Professor)**

Tue, Jun 12, 2018 at 5:13 PM

<sarmistharudra.paul@sharda.ac.in>

To: Gaurav Saini <gaurav.saini@sharda.ac.in>

Sir,

I am on summer vacation leave, so I couldn't attend BoS meeting on the said date. But I already discussed in the department about the changes before leaving. So, kindly consider my consent in my absence on the scheduled meeting.