MINUTES OF THE MEETING OF BOS IN COMPUTER SCIENCE & ENGINEERING AND INFORMATION TECHNOLOGY

Date: 07/04/2018

Meeting of the Board of Studies in Computer Sc. & Engineering and Information Technology was held on 07/ 04/ 2018 in the department of CSE & IT, 11:00 AM Onwards. During the meeting following were present.

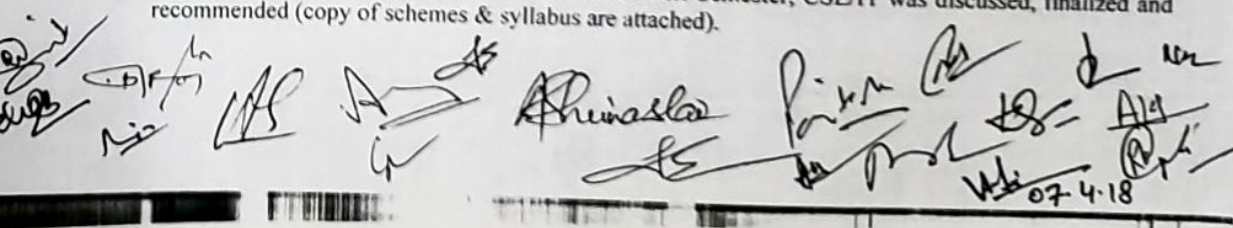| 1	Dr. Akhilesh Tiwari	Chairman
2	Dr. Anand Shrivastava, Professor, IIIT Delhi	External Member (Academics)
3	Mr. Amitabh Shrivastava, Senior Consultant, TCS Noida	External Member (Industry)
4	Mr. Paritosh Jain, Director (Engineering), IHS Markit, Gurgaon.	External Member (Alumnus)
5	Dr. R. K. Gupta	Member
6	Dr. Manish Dixit	Member
7	Ms. Khushboo Agarwal	Member
8	Mr. Punit Kumar Johari	Member
9	Dr. Sanjiv Sharma	Member
10	Mr. Abhilash Sonkar	Member
11	Ms. Jaimala Jha	Member
12	Mr. Jamvant Singh Kumare	Member
13	Mr. Rajeev Kumar Singh	Member
14	Ms. Neha Bhardwaj	Member
15	Mr. Mahesh Parmar	Member
16	Mr. R. R. Singh Makwana	Member
17	Mr. Amit Kumar Manjhvar	Member

The following external members could not attend the meeting

1	Dr. Goutam Sanyal, Professor, NIT Durgapur	External Member (Academics)
2	Dr. (Mrs.) Vrinda Tokekar, Professor, IET-DAVV, Indore	External Member (Academics)

Following were discussed and recommended:

Discussion pertaining to the implementation of Flexible Scheme / Curriculum (as per the guidelines of AICTE, New Delhi):

1. In order to be eligible for the award of B.Tech degree in Computer Science & Engineering / Information Technology, it is required to earn minimum 160 credits.

2. Scheme Structure and syllabus of B.Tech I & II Semester, CSE/IT was discussed, finalized and recommended (copy of schemes & syllabus are attached).

3. Scheme Structure and syllabus of B.Tech III & IV Semester, CSE/IT was discussed, finalized and recommended (copy of schemes & syllabus are attached).

4. Scheme Structure and syllabus of B.Tech V & VI Semester, CSE/IT was discussed, finalized and recommended (copy of schemes & syllabus are attached).

5. Scheme Structure and syllabus of B.Tech VII & VIII Semester, CSE/IT was discussed, finalized and recommended (copy of schemes & syllabus are attached).

07.4.18

6. It was recommended to fix the schemes of B.Tech (CSE/IT) to 169 Credits with the coverage of all the essential components including HSMC, BSC, ESC, DC, DE, OC and project work, seminar, internship etc. (provisioned through DLC/SWAYAM/NPTEL/ MOOC). However, in case of any emergent futuristic requirement; credits may be slightly adjusted. Moreover, Minor variation in the DC/DE/OC subjects/courses can also be made.

Following were recommended to promote SWAYAM / NPTEL / MOOC platform based learning (as provisioned in the recommended flexible schemes of B.Tech (CSE/IT) programmes

7. In the 3rd & 4th semester, B.Tech CSE/IT, presentation & self-learning will be conducted through SWAYAM / NPTEL / MOOC platform and the credit will be 0-0-2.

8. In the 6th & 7th semester, B.Tech CSE/IT, at least one departmental elective or open course to be conducted through SWAYAM / NPTEL / MOOC platform.

9. It is recommended to make the 8th semester completely flexible by provisioning that all subjects to be taught through SWAYAM/ NPTEL/ MOOC platform. In addition, a provision has also been made either to opt for Internship or Major project. It is also recommended that initially the mode of examination for the subjects taught through SWAYAM/ NPTEL/ MOOC platform will be as per the current examination practice of the institute (i. e. through end term examination).

10. Tracks of Specialization (Tentative; subject to the offering/availability on NPTEL/SWAYAM/MOOC platform in the respective semester) (to be offered as Departmental Electives (DE-1 to DE-6) have been discussed, finalized and recommended. Details pertaining to the name of tentatively decided DE tracks (for B.Tech CSE programme) are as follows-

DE1 Track name: Information Security
DE2 Track name: Networking
DE3 Track name: Web Computing
DE4 Track name: Distributed Computing
DE5 Track name: Intelligent Computing
DE6 Track name: Image Processing

Details pertaining to the name of tentatively decided DE tracks (for B.Tech IT programme) are as follows-

DE1 Track name: Information Security
DE2 Track name: Networking
DE3 Track name: Web Computing
DE4 Track name: IT Management
DE5 Track name: Intelligent Computing
DE6 Track name: Image Processing

11. Tentative List of Open Category Courses (OC-1 to OC-5) have been discussed, finalized and recommended (this is again subject to the offering/availability on NPTEL/SWAYAM/MOOC platform in the respective semester).

12. It is recommended to include Python (along with Java Programming) (DLC-2) in the IV Sem. B.Tech CSE/IT.

13. It is recommended to include basic/fundamental courses (such as Data Structure, Operating System etc.), interdisciplinary nature courses (such as Robotics/Machine Learning) and Emerging Technology courses (such as programming languages/ Virtual Reality & Augmented Reality/Block Chain Technology/ NoSQL Database, Modern GUI Tech. etc.) in DEs/OCs, wherever feasible.
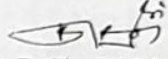
- **Recommendation for additional courses for B.Tech Hons. / Minor Specialization**

14. Considering the proposal of AICTE, it is discussed and recommended that; to have Hons. Degree, a student is required to earn 19-20 credits (additionally). These additional courses will be different from Professional Elective/ Departmental Elective courses. Details & related course conduction mechanism (it may be through SWAYAM/MOOC based learning) of additional courses to be considered for obtaining additional credit will be finalized and made available in advance (this aspect will ultimately be finalized by the competent body of the institute, as the institute is UGC autonomous)
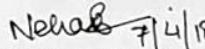
- **Discussion pertaining to the scheme & syllabus of 7th & 8th Semesters, B.E. CSE/IT programmes (running under new grading system) (Admitted batch- July 2015 & July 2016)**
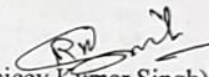
15. There was a discussion on the draft scheme & syllabus of VII & VIII Sem., B.E. CSE/IT relating to new grading system (for the students who have admitted in July 2015 & July 2016 sessions). Relating scheme & syllabus have been discussed, finalized and recommended (copy of schemes & syllabus are attached).

(Mr. Amit Manjhvar)   (Mr. R. R. Singh Makwana)   (Mr. Mahesh Parmar)

(Mr. Neha Bhardwaj)   (Mr. Rajeev Kumar Singh)   (Mr. Jamvant Singh Kumare)

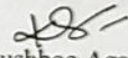(Ms. Vaimala Jha)   (Mr. Abhilash Sonkar)   ABSENT
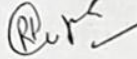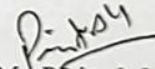   (Mr. Vikas Sejwar)

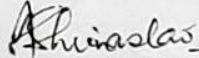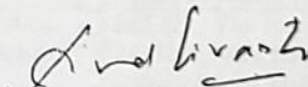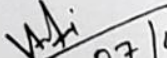(Dr. Sanjiv Sharma)   (Mr. Punit Kumar Johari)   (Ms. Khushboo Agarwal)

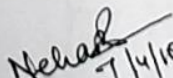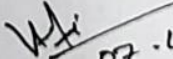(Dr. Manish Dixit)   (Dr. R. K. Gupta)   (Mr. Paritosh Jain)
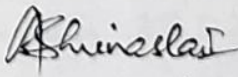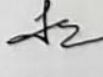   Director (Engineering),
                                                       IHS Markit, Gurgaon

(Mr. Amitabh Shrivastava)   (Dr. Anand Shrivastava) 7.4.18
Senior Consultant, TCS Noida   Professor, IIIT-Delhi

(Dr. Akhilesh Tiwari)
Chairman- BOS