

Madhav Institute of Technology & Science, Gwalior-474 005

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

Department of CSE & IT

Minutes of Meeting of Board of Studies (BoS) in Computer Science & Engineering and Information Technology

Date: 23/11/2019

The Meeting of Board of Studies (BoS) in Computer Science & Engineering and Information Technology was held on 23rd November, 2019 in the department of CSE & IT, 11:30 A.M. onwards. During the meeting following were present.

1.	Dr. Akhilesh Tiwari, Professor & Head	Chairman
2.	Dr. A. K. Solanki, Professor (Computer Science & Engineering), B.I.E.T. Jhansi (U.P.)	External Member (Academics) <i>(Nominee of Hon'ble Vice Chancellor RGPV Bhopal)</i>
3.	Dr. Nanhay Singh, Professor & Head, Department of Computer Science & Engineering, Ambedkar Institute of Advanced Communication Technologies & Research (AIACR), Delhi	External Member (Academics) <i>(Nominee of Academic Council (AC), MITS Gwalior)</i>
4.	Dr. Virendra Prasad Vishwakarma, Professor, University School of Information and Communication Technology (USICT), Guru Gobind Singh Indraprastha University (GGSIPU), Delhi	External Member (Academics) <i>(Nominee of Academic Council (AC), MITS Gwalior)</i>
5.	Dr. Kapil Sharma, Professor & Head, Department of Information Technology, Delhi Technological University (DTU), Delhi	External Member (Academics) <i>(Nominated by DTU Delhi under twinning arrangement of TEQIP-III)</i>
6.	Dr. Dinesh Kumar Vishwakarma, Associate Professor, Department of Information Technology, Delhi Technological University (DTU), Delhi	External Member (Academics) <i>(Nominated by DTU Delhi under twinning arrangement of TEQIP-III)</i>
7.	Dr. R. K. Gupta, Professor	Member
8.	Dr. Manish Dixit, Professor	Member
9.	Ms. Khushboo Agarwal, Assistant Professor	Member
10.	Dr. Sanjiv Sharma, Assistant Professor	Member
11.	Mr. Abhilash Sonkar, Assistant Professor	Member
12.	Mr. Jamvant Singh Kumare, Assistant Professor	Member
13.	Ms. Neha Bhardwaj, Assistant Professor	Member
14.	Mr. Mahesh Parmar, Assistant Professor	Member
15.	Mr. R. R. Singh Makwana, Assistant Professor	Member
16.	Mr. Amit Kumar Manjhvar, Assistant Professor	Member

In addition to above, faculty members engaged under TEQIP-III Project and contractual faculty were also present.

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The following external and internal members (regular faculty) could not attend the meeting. However, some of the external members have given their suggestions in electronic mode.

1.	Mr. Amitabh Shrivastava, Senior Consultant, TCS Noida	External Member (Industry)
2.	Dr. Nisha Chaurasia, Assistant Professor (Senior Grade), Department of CSE & IT, Jaypee Institute of Information Technology (JIIT), Noida	External Member (Alumnus)
3.	Mr. Punit Kumar Johari, Assistant Professor	Member
4.	Mr. Vikas Sejwar, Assistant Professor	Member
5.	Ms. Jaimala Jha, Assistant Professor	Member
6.	Mr. Rajeev Kumar Singh, Assistant Professor	Member
7.	Dr. R. S. Jadon, Professor (Computer Application)	Member
8.	Dr. Anshu Chaturvedi, Professor (Computer Application)	Member
9.	Mrs. Parul Saxena, Assistant Professor (Computer Application)	Member

The following students were present during the meeting:

S. No.	Name of Student	Class
1	Ms. Ayushi Agrawal	B. Tech CSE III year
2	Ms. Sakshi Patel	B. Tech CSE III year
3	Ms. Bhoomika Jain	B. Tech CSE III year
4	Ms. Somya Prajapati	B. Tech CSE III year
5	Mr. Rohit Kushwah	B. Tech CSE III year
6	Mr. Trishal Arora	B. Tech CSE III year
7	Ms. Rachna Patil	B. Tech IT III year
8	Ms. Shikha Mourya	B. Tech IT III year

The following deliberations took place in the meeting:

The minutes of previous BoS meeting held on 9th April, 2019 were confirmed, followed by item-wise discussion (as per the agenda of present BoS meeting), as follows

<p>ITEM CSEIT-1:</p>	<p>To review and finalize the list and syllabi for all Departmental Elective (DE) Courses of VI Semester under the flexible curriculum along with their COs</p> <p>The courses to be offered under Departmental Elective (DE) category (in offline mode) for B.Tech VI Semester CSE & IT discipline (under flexible curriculum) were discussed and finalized, as per the following detail</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p><u>DE-1 (B.Tech CSE):</u></p> <ul style="list-style-type: none"> • Network & Web Security • Cloud Computing • Mobile Computing </td> <td style="width: 50%; vertical-align: top;"> <p><u>DE-1 (B.Tech IT):</u></p> <ul style="list-style-type: none"> • Network & Web Security • Cloud Computing • Agile Methodology </td> </tr> </table> <p><i>It is further discussed that the above mentioned list of courses may be expanded (if required) to accommodate the industrial demand and latest technological</i></p>	<p><u>DE-1 (B.Tech CSE):</u></p> <ul style="list-style-type: none"> • Network & Web Security • Cloud Computing • Mobile Computing 	<p><u>DE-1 (B.Tech IT):</u></p> <ul style="list-style-type: none"> • Network & Web Security • Cloud Computing • Agile Methodology
<p><u>DE-1 (B.Tech CSE):</u></p> <ul style="list-style-type: none"> • Network & Web Security • Cloud Computing • Mobile Computing 	<p><u>DE-1 (B.Tech IT):</u></p> <ul style="list-style-type: none"> • Network & Web Security • Cloud Computing • Agile Methodology 		

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 - "11.19" (written)
 - "23/11/19" (written)
 - "RB" (written in a circle)
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	<p><i>advancements.</i></p> <p>The syllabi of Courses along with their Course Outcomes (COs) is Annexed as Annexure-I</p>
ITEM CSEIT-2:	<p>To review and finalize the list of Courses from SWAYAM/NPTEL/MOOC Platform to be offered in online mode under DE category for credit transfer in the VI Semester</p> <p>The list of Departmental Elective (DE) courses to be offered from SWAYAM/NPTEL/MOOC based learning platform (in online mode) for B.Tech VI Semester CSE & IT discipline (under flexible curriculum) were discussed and finalized, as per the following detail</p> <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <p>DE-2 (B.Tech CSE / IT):</p> <ul style="list-style-type: none"> • Data Analytics with Python • Introduction to Machine Learning • Deep Learning </div> <p><i>In continuation, it is also discussed and recommended that the above mentioned list of Departmental Elective (DE) course may be kept dynamic and newly emerging courses must be included (as per the need and recent developments).</i></p>
ITEM CSEIT-3:	<p>To review and finalize the Courses & Syllabi to be offered under Open Category (OC) Courses for VI semester students of other departments along with their COs</p> <p>The courses to be offered under Open Category (OC) Courses for B.Tech VI Semester (for the students of other departments) were discussed and finalized as per the following detail</p> <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <p>OC-1:</p> <ul style="list-style-type: none"> • Python Programming • Data Structures • Software Engineering </div> <p><i>Further, considering the fact that the Open Category (OC) courses are meant only for the students of other departments, it is discussed and recommended that the above courses may be changed / expanded (as per the need and demand from other departments).</i></p> <p>The detailed syllabi (along with their COs) is Annexed as Annexure-II</p>
ITEM CSEIT-4:	<p>To propose the list of "Additional Courses" which can be opted for getting an (i) Honours (ii) Minor Specialization <i>[These will be completed through SWAYAM/NPTEL/MOOC based Platforms during VI semester]</i></p> <p>The courses available on SWAYAM/NPTEL/MOOC based learning platforms for Honours and Minor Specialization were discussed and identified. The same has been listed, as mentioned below</p>

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	Additional Courses for "Honours" (Parent Department)
	<ul style="list-style-type: none"> • GUP Architectures and Programming • Multi-Core Computer Architecture-Storage and Interconnects • Artificial Intelligence: Knowledge Representation and Reasoning
	Additional Courses for "Minor Specialization" (Other Departments)
	<ul style="list-style-type: none"> • Introduction to Algorithms and Analysis • Programming, Data Structures and Algorithms using Python • Programming in Java

ITEM CSEIT-5: To explore and prepare the tentative list of Departmental Elective (DE) Courses (along with COs) for VII semester (including the DE course to be run through SWAYAM/NPTEL/MOOC based platform)

The tentative list of Departmental Elective (DE) Courses (along with COs) for B.Tech VII semester (CSE/IT) (under flexible curriculum) were discussed and same is detailed below

Departmental Elective (DE) to be offered in traditional mode (offline)	Departmental Elective (DE) to be offered through SWAYAM/ NPTEL / MOOC based learning platforms
<p><u>DE-3 (B.Tech CSE):</u></p> <ul style="list-style-type: none"> • Networking with TCP/IP • Data Mining & Warehousing • Image Processing <p><u>DE-3 (B.Tech IT):</u></p> <ul style="list-style-type: none"> • Networking with TCP/IP • Data Mining & Warehousing • Software Testing 	<p><u>DE-4 (B.Tech CSE / IT):</u></p> <ul style="list-style-type: none"> • Practical Machine Learning with Tensorflow • Introduction to Soft Computing • Introduction to Internet of Things

The COs have been formed (tentatively) and Annexed as Annexure-III

ITEM CSEIT-6: To prepare the syllabi of Mandatory Course (MC) titled "Intellectual Property Rights" (IPR) of VII semester under the flexible curriculum
[This will be prepared & recommended by Institution Level Committee/Academic Development Cell]

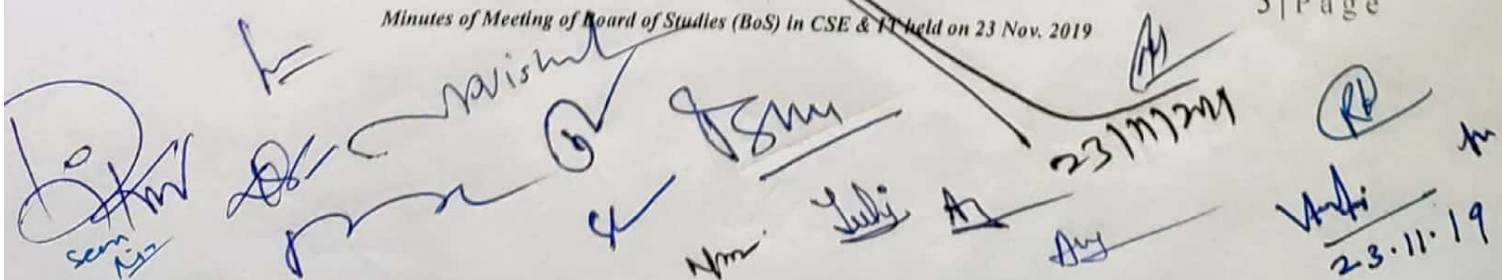
The course syllabi for Mandatory Course (MC) titled "Intellectual Property Rights" (IPR) of VII semester (under the flexible curriculum) will be framed at institution level. This has already been notified from the office of Dean (Academics) in the approved agenda of BoS (Item-6). The same will be

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	adopted by the department.
ITEM CSEIT-7:	<p>To prepare and recommend the Experiment list/ Lab manual for Laboratory Courses to be offered in VII semester</p> <p>The experiment list and lab manual for the Laboratory Course (Internet of Things) (DLC-6) were discussed and finalized. The same is Annexed as Annexure-IV</p>
ITEM CSEIT-8:	<p>To review the 'Question Paper Analysis' (of mid/end semester examination) conducted for Jan-June 2019 Session [On the basis of COs and other parameters separately]</p> <p>The summarized detail of 'Question Paper Analysis' was presented and discussed in the house. This was based on COs and other parameters. The summary of analysis is Annexed as Annexure-V</p>
ITEM CSEIT-9:	<p>To identify gaps in CO attainment levels for Jan-June 2019 semester and propose corrective measures for improvement.</p> <p>The attainment level of Course Outcomes (COs) for all the courses pertaining to Jan - June 2019 semester has been discussed. The same is enclosed as Annexure-VI.</p> <p>Further, it is discussed that the courses (if any) where the set target value has not been attained; there should be the critical analysis of difficulty level and other causes. The analysis must be followed by corrective measures, such as arrangement of extra / remedial classes, proper coverage & assignment of COs in Question Paper and interaction of course faculty members with the students for improvement.</p>
ITEM CSEIT-10:	<p>To propose and recommend the panel of examiners (UG & PG Level) for conducting practical examinations.</p> <p>The panel of examiner(s) for UG & PG programmes of CSE & IT / Computer Application discipline were discussed and finalized. The same is enclosed as Annexure - VII.</p>
ITEM CSEIT-11:	<p>To finalize the 'Collaborative Course' to be offered in VI semester (under DE Category) which is to be run jointly with industry person</p> <p><u>Industry Collaborative Course</u></p> <p>The Board has been informed about the recommendation made in the previous BoS meeting held on 9th April, 2019 and subsequent approval of the same in the meeting of Academic Council (AC) held on 1st June 2019, regarding industry collaborative courses under Departmental Elective (DE) category for B.Tech VI Semester (CSE & IT). The same is detailed below</p>

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S.No.	Course Name	Programme
1.	Network & Web Security	B.Tech (Computer Science & Engineering)
2.	Agile Methodology	B.Tech (Information Technology)

In these courses, content coverage of at least one credit is to be covered by industry person. It was also discussed that other courses from the pool of Departmental Elective (DE) courses may be inducted in the list of collaborative courses (if demanded by the students) and resource person from industry is available.

ITEM CSEIT-12:

Curricula feedback from various stakeholders, its analysis and impact

The summarized report of curricula feedback from students and faculty members (for the Jan.-June 2019 semester) was presented and discussed. This was based on various considered parameters. The house appreciated the same and realized that this will be useful for further improvement of curriculum. The same is enclosed as Annexure - VIII.

ITEM CSEIT-13:

Other matters:

To apprise and discuss about the implementation mechanism of Departmental Elective (DE) and Open Category (OC) Courses for B.Tech VI Semester (CSE / IT)

As per the flexible curriculum / scheme, there will be

- **Two** Departmental Elective (DE) courses offered by the Parent Department
- **One** Open Category (OC) course (from the pool offered by other Departments)

Guidelines for Departmental Elective (DE) Courses

During the VI Semester, two Departmental Elective (DE) courses will be offered

- DE-1 (Offline Mode)
 - DE-2 (Online Mode i.e. through SWAYAM/NPTEL approved by the BoS / department)
- Under DE-1, there will be multiple choices. Out of these, students have to opt any one and the allotment will be based on First Come First Serve (FCFS) basis
 - The registration process will be done in Online mode (Registration link will be provided on the website/departmental webpage)
 - Any DE course will only be run, if there is a registration of about 30% students of sanctioned intake of class (minimum requirement). The batch size

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is limited to 60% of the sanctioned class intake

The course choices under DE-2, will be displayed by the department
Guidelines for Open Category (OC) Courses

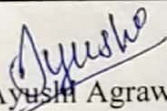
- Students of B.Tech VI Semester CSE & IT have to opt one Open Category (OC) course from the pool of courses offered by other departments
- The list of OC courses will be made public on the institute website for online registration
- Any of the Open Category (OC) course will only be run, when the minimum 5% students of sanctioned batch size (at institute level) will register and the maximum batch size is limited to 10% of the total batch size (at institute level)
- The allotment will be based on **First Come First Serve (FCFS) basis**

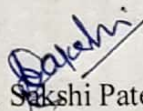
Suggestions by Members:

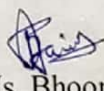
- There should be some upper and lower limit of students in Minor Specialization.
- It is desired to have one research publication by the final year students (in Internship/Project).
- Multi-Core Computer Architecture-Storage and Interconnects should be replaced by High Performance Computing in the list of Additional Courses for Honours offered in VI semester.
- List of Additional Courses for Honours must be first taken from the students as a choice from permitted MOOC based learning platforms and then be finalized by the department.
- Malware Analysis should be added in the Departmental Elective (DE) course offered in VII semester.
- In Question Paper Analysis, it was suggested to remove low order thinking parameter and add "design based problem/analytical" parameters.
- It was suggested that there should be the flexibility for consideration of $\pm 5\%$ students in the decided limit for Open Category (OC) course. This will be decided by the department.
- Deep Learning should be replaced by Image Processing in the Departmental Elective (DE) course offered in VI semester.

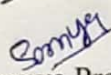
The meeting ended with vote of thanks to the Chair

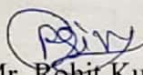
Student Representatives

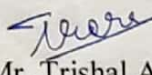

(Ms. Ayush Agrawal)

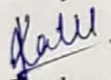

(Ms. Sakshi Patel)

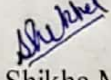

(Ms. Bhoomika Jain)


(Ms. Somya Prajapati)


(Mr. Rohit Kushwah)


(Mr. Trishal Arora)


(Ms. Rachna Patil)


(Ms. Shikha Mourya)

Computer Application discipline

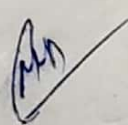
on leave
(Mrs. Parul Saxena)


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(Dr. Anshu Chaturvedi)

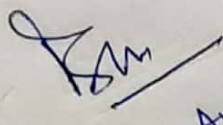
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CSE & IT discipline

(Ms. Richa Mishra) (Ms. Poonam Sharma) (Ms. Akanchha Tiwari) (Mr. Chayan Agrawal)

(Dr. Bodhi Chakraborty) (Ms. Soumya Bajpai) (Mr. Ram Parvesh Das) (Ms. Juhi Pruthi)

(Mr. Lav Upadhyay) (Ms. Shweta Patel) (Ms. Aishwarya) (Ms. Pooja Agarwal)

(Mr. Arun Kumar) (Mr. Santosh Shau) (Mr. Ratibhan) (Ms. Julie Kumari)

(Ms. Sneha Garg) (Mr. Mir Shahnawaz Ahmad) (Mr. Mohit Jain) (Mr. Sheo Kumar)

(Ms. Namrata Agarwal) (Mr. Dheeraj Gurjar)

(Ms. Hemlata Arya) (Ms. Kirti Gaur) (Mr. Vishwas Srivastava) (Mr. Abhishek Dixit)

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

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

(Ms. Jaimala Jha) (Mr. Abhilash Sonkar) (Mr. Vikas Sejwar)

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

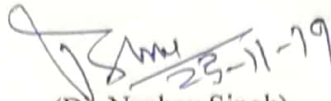
(Dr. Manish Dixit) (Dr. R. K. Gupta)

(Dr. Dinesh Kumar Vishwakarma)
Associate Professor, Department of IT
Delhi Technological University (DTU), Delhi
[External Member]

(Dr. Virendra Prasad Vishwakarma)
Professor, USICT,
GGSIPU, Delhi
[External Member]


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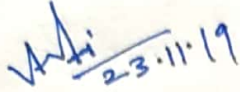
(Dr. Kapil Sharma)
Professor & Head,
Department of IT,
DTU, Delhi
[External Member]


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(Dr. Nanhay Singh)
Professor & Head,
Department of CSE
AIACTR, Delhi
[External Member]

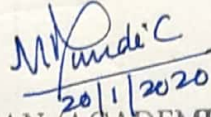

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(Dr. A. K. Solanki)
Professor (CSE),
B.I.E.T. Jhansi
[External Member]


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(Dr. Akhilesh Tiwari)
Professor & Head
[Chairman, BoS]

Suggestions have been noted.


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DEAN (ACADEMICS)
M.I.T.S
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