



Panchajanya Vidya Peetha Welfare Trust (Regd)

Dr. Ambedkar Institute of Technology

An Autonomous Institution, Affiliated to Visvesvaraya Technological University, Belagavi,
Aided by Govt. of Karnataka, Approved by All India Council for Technical Education (AICTE), New Delhi
Accredited by NBA and NAAC with 'A' Grade

BDA Outer Ring Road, Mallethalli, Bengaluru - 560 056

Ref. No.

Date :

M. Tech in Computer Science & Engineering 2020-2022 Scheme

The following list of subjects are newly introduced in the scheme 2020-2022 with the approval of BOS Chairman and the BOS committee members.

Sl. No.	Name of the Course	Course Code	Remark
1	Advanced Operating System	20SCS151	New Course Introduced
2	Advances in Computer Network	20SCS152	New Course Introduced
3	Deep Learning	20SCS153	New Course Introduced
4	Parallel Computing with GPU Architecture	20SCS154	New Course Introduced
5	Introduction to Blockchain Technology	20SCS161	New Course Introduced
6	Advanced Algorithms and Data structure	20SCS162	New Course Introduced
7	Cyber Security and Cyber Laws	20SCS163	New Course Introduced
8	Wireless Networks & Mobile Computing	20SCS164	New Course Introduced
9	Natural Language Processing	20SCS251	New Course Introduced
10	Industry Elective (HOD TCS)	20SCS252	New Course Introduced
11	Cryptography & Network Security	20SCS253	New Course Introduced
12	Computational Intelligence	20SCS254	New Course Introduced
13	Business Analytics	20SCS261	New Course Introduced
14	Agile Methodologies	20SCS262	New Course Introduced
15	Storage Area Network	20SCS263	New Course Introduced
16	Intelligent System	20SCS264	New Course Introduced


HOD, CSE


Principal
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Bengaluru-560 056
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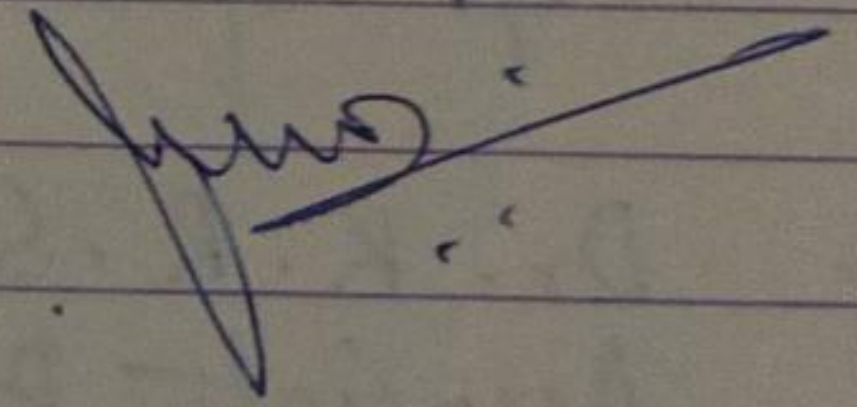
3rd BOS Meeting

23.06.2018

The meeting of Board of Studies (BOS) is arranged on 23-06-2018 at 11:00AM in view of discussion of syllabus framing for I, II, III and IV semester, M-Tech for the academic year 2018-2019

Agenda of the meeting:

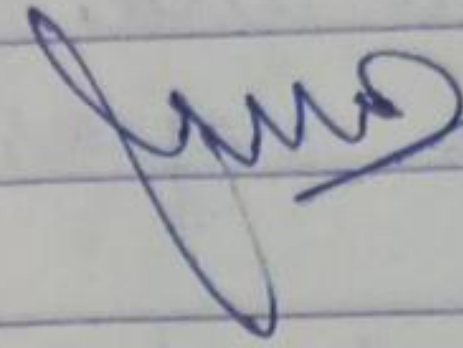
1. Discussion of I, II, III and IV semester syllabus & scheme of Ph. Programme (CSE)



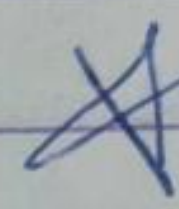
The following members were present during the BOS meeting:

Signature:

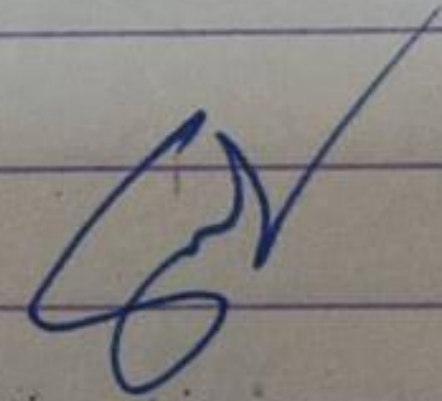
1. Dr. Siddaraju,
Chair Person, BOS,
Prof & Head, Dept. of CSE
Dr. AIT, B'lore.

 23.6.18

2. Dr. M.V. Vijaykumar
Associate Professor,
M-Tech CSE Coordinator
Dept. of CSE, Dr. AIT, B'lore

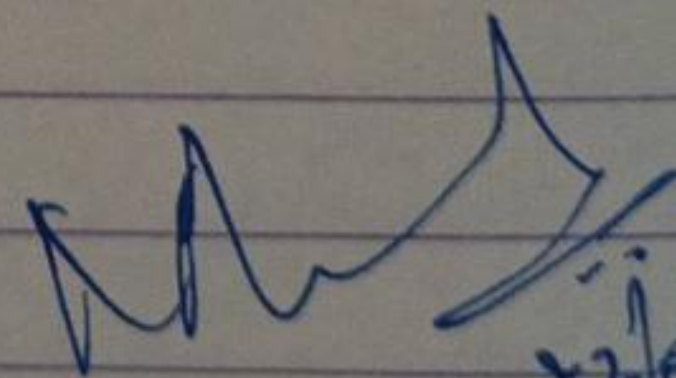
 in

3. Dr. K.R. Shylaja
Associate Professor,
Dept. of CSE,
Dr. AIT, B'lore.

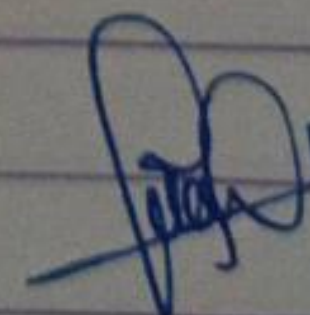


(Internal BOS Member)

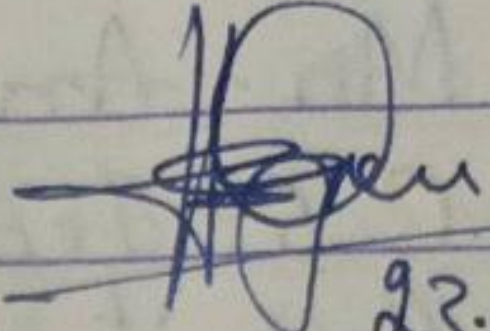
4. Dr. Manjiah
Professor,
Mangalore University
External Subject Expert

 23/06/2018

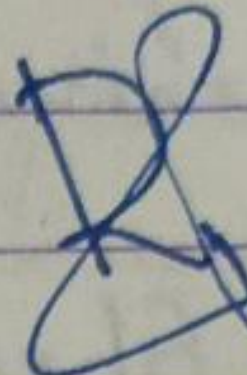
5. Dr. Thippeswamy
Professor,
VTU, Mysuru
External Subject Expert

 23/6/18

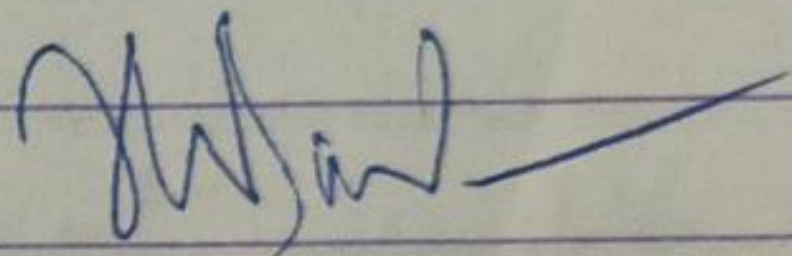
6. Dr. Gurusprasad
Prof., BMSCB, B'lore
External Subject Expert


23.06.2018

7. Dr. Ramakanth Kumar P
Prof. & Dean Academics
RVCE, B'lore
External Subject Expert


23/6/18

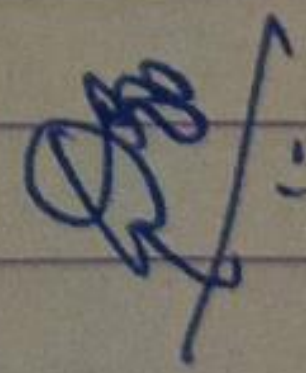
8. Dr. T. G. Basavaraju
Prof. & Head, Govt. SKSJIT
B'lore.
VTU Nominee



9. Mr. Manjunath
Winfoglobal Technologies
B'lore
Industry representative

- AB -

10. Mr. Dheendra
PThinks Limited,
B'lore
Industry representative



11. Ms. Kumara Murati
Senior Trainer
Sales Force, B'lore.
Industry representative



13. Mr. Anind CS
 Technology Specialist
 Cognitive Computing Lab
 Cognizant - GTO, B'lore
 Alumni's Representative

Anind CS
 23/08/2018

14. Prof. Shamshukar Pahl
 Associate Professor,
 Dept. 9 CSE, Dr. AIT,
 B'lore

~~Shamshukar Pahl~~

(Internal BOS Member)

Suggestions from BOS Member:

1. BOS members suggested to take the autonomy for the department itself rather than having autonomy at college level.
2. Genetic Algorithm can be replaced by reinforcement learning in Soft Computing. Introduce Q-learning.
3. Cloud computing subject learnt in UG programme and as well as in PG programme. What should be the objective of learning the same subject again by a student? So is it necessary to learn or introduce those (such) subjects in PG programmes which helps them in placements.
4. And the advanced word is being very much misutilised in introducing PG programmes.
5. M-Tech syllabus as to be framed w.r.t placement point of view. Initially all M-Tech students must get placed and then they must move to UG for placements. Keeping this objective in mind we must design PG curriculum / syllabus.
6. BOS member questioned why M-Tech in computer science in M-Tech. Since PG

programmes has to be designed wth specialisation streams rather than an overall overview of the ~~accepted~~ CS^E related subjects

7. Hands-on is important wth introducing cloud computing in PG programmes. Introduce AWS lab and SAP lab in ~~for~~ cloud computing syllabus of PG programme. Apart from having Salesforce.

8. The currently framed cloud computing lab exercise has to be reframed wth PG programme standards and therefore introduce more programs related to cloud platforms.

9. Which mathematical components has to be introduced to M-tech students?

Graph Theory

Linear Algebra.

Operations research / Optimisation Technique.

Instead of Probability Statistics & Queuing theory

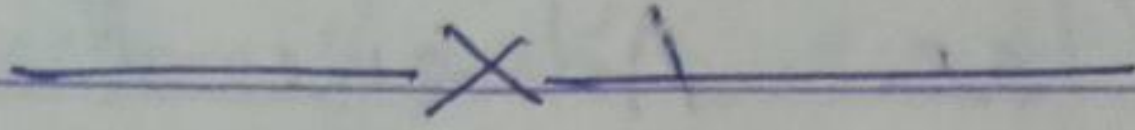
10. I semester Scheme

The SEE components has to be introduced mandatorily for any course in PG programme.

Technical Seminar, Mini project & so on.

11. To club Advanced Database System with Data Analytics and to frame a new syllabus has Advanced Data Analytics
12. I semester scheme and syllabus has to be reframed / Restructure.
13. 1) AI (Artificial Intelligence) I Sem
 2) SC (Soft Computing) II Sem
 3) ML (Machine Learning) III Sem
 To introduce the subjects in this hierarchy
14. Data Sciences with R programming can be introduced.
15. Advances in DBMS - I Sem
 Managing Big Data - II Sem.
 Data Analysis - III Sem.
- ACN - I Sem
16. Credits (Divide the 4 credits subjects into 3:0:1) \approx (L:T:P)
17. To introduce Deep learning & program oriented subjects to PG programmes.
18. All four semester subjects & scheme to be reframed and restructured again in coming few days (in 2 days) & discuss the same (the restructured scheme & syllabus) with External &

internal BOS members.



~~Amir~~



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M. Tech in Computer Science & Engineering 2018-2019 Scheme

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Sl. No.	Name of the Course	Course Code	Remark
1	Advances in Storage Area Networks	18SCS151	New Course Introduced
2	Software Quality Assurance, Testing and Metrics	18SCS152	New Course Introduced
3	Artificial Neural Networks	18SCS153	New Course Introduced
4	Multicore Architecture	18SCS154	New Course Introduced
5	Digital Image Processing	18SCS251	New Course Introduced
6	Data Science with R-Programming	18SCS252	New Course Introduced
7	Cyber Security	18SCS253	New Course Introduced
8	Sensor Networks Infrastructure	18SCS254	New Course Introduced
9	Internet of Things (IoT)	18SCS321	New Course Introduced.
10	Agile Methodologies	18SCS322	New Course Introduced
11	Network Programming in UNIX	18SCS323	New Course Introduced
12	Mobile Computing and Wireless Network	18SCS324	New Course Introduced
13	Natural Language Processing and Text mining	18SCS331	New Course Introduced
14	Data ware house and Data mining	18SCS332	New Course Introduced
15	Cryptography and Network Security	18SCS333	New Course Introduced
16	Computational Intelligence	18SCS334	New Course Introduced


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5th BOS Meeting
14/08/2020

31

The Meeting of Board of Studies (BOS) is arranged on 14/08/2020 at 11:00 AM through online using Zoom meeting app, meeting ID: 83750462433 in the view of discussion of syllabus framing for I and 4th semester, M.Tech. for the academic year 2020-2021.

Agenda of the meeting:

1. Prof. Patil sir suggested to remove IV & field work and only keep mini/minor project.
2. Prof. Patil sir suggested to move Deep learning course from 1st semester to second semester.
3. Prof. Rajendra suggested Technical seminar instead publish papers etc to except a technical paper from students proposing their own idea from 2 credits of technical seminar.
4. BOS members suggested to remove "AI and Prolog programming" from 2nd semester and also expressed that the subject need not be core subject as they are exploring data science & Machine Learning in detail.
5. Dr. Gowrishankar from BMSCE suggested to have a MOOC course for 2 credits in 4th semester in place of project evaluation phase-II
6. Dr. Bindu Madavi suggested to add cyber security along with IOT.

Dr. Siddaraju
(HOD. CSE)

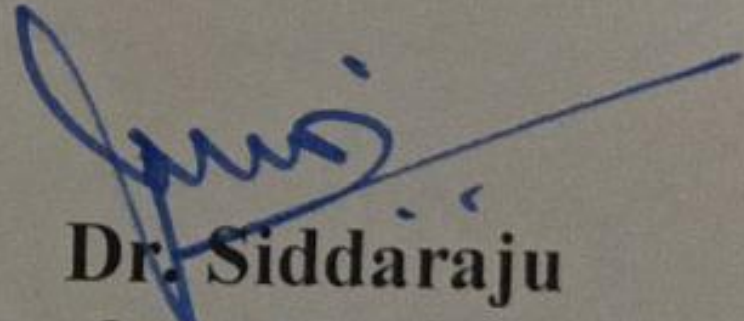
AGENDA

1. Finalization of UG Scheme & syllabus from 1st to 6th semester and scheme of 7th and 8th sem.
2. Finalization of PG Scheme & syllabus from 1st to 4th semester.
3. Finalization of BE Honor's scheme.
4. Finalization of PAC committee.
5. Finalization of department Mission, Vision statement.
6. Any other issues related to BOS.

HOD welcomed all the BOS members to the meeting (Online) and briefed about the agenda for the meeting.

Discussion on PG Syllabus is as follows:

1. Dr. Rajendra suggested to expect a technical paper from students proposing their own idea from 2 credits of technical seminar.
2. BOS member Suggested to have only mini project and take out industry visit and field work
3. Suggested to move Deep Learning to 2nd semester
4. BOS members suggested to remove AI and Prolog Programming from 2nd semester and also expressed that the subject need not be core subject as they are exploring data science and ML in detail.
5. Dr. Gowrishankar from BMSCE suggested to have a MOOC course for 2 credits in 4th semester in place of Project evaluation Phase II.
6. Dr. Bindu Madavi suggested to add cyber security along with IoT.


Dr. Siddaraju
Prof. & HOD, CSE

Professor & Head
Department of Computer Science & Engineering
Dr. Ambedkar Institute of Technology
Bangalore-560 056.



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M. Tech in Computer Science & Engineering

Scheme 2017-2018

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Sl. No.	Name of the Course	Course Code	Remark
1	Digital Image Processing	SCS152	New Course Introduced
1	Advances in Storage Area Network	SCS153	New Course Introduced
2	Machine Learning Techniques	SCS241	New Course Introduced
3	Computer Vision	SCS242	New Course Introduced
4	Cyber Security	SCS243	New Course Introduced
5	Information and Network Security	SCS251	New Course Introduced
6	Soft Computing	SCS252	New Course Introduced
7	Neural Networks	SCS253	New Course Introduced
8	Wireless networks and Mobile Computing	SCS421	New Course Introduced
9	Advanced Data Structures	SCS422	New Course Introduced
10	Agile Methodologies	SCS423	New Course Introduced


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10th 2nd BOS Meeting 2

25-03-2017

The meeting of Board of Studies (BOS) is arranged on 25-03-2017 at 10.00 AM in view of discussion of syllabus framing for III and IV Semester, M-Tech for the academic year 2017-2018.

Agenda of the meeting:

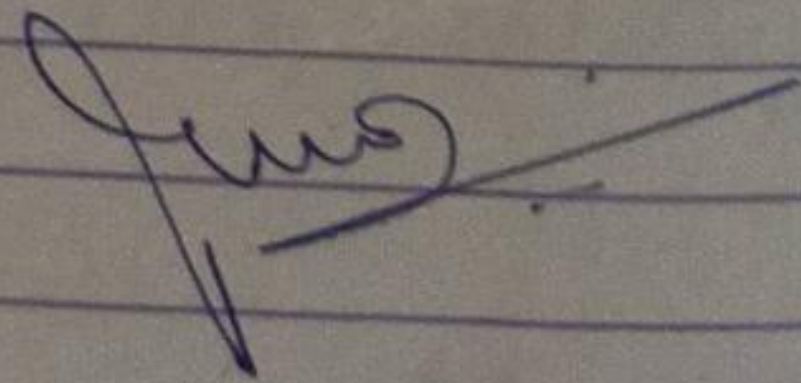
1. Approval of Vision & Mission Statement
2. Finalization of 1st to 8th Sem BE(CSE) Syllabus.
3. Finalization of 1st to 4th Sem M.Tech(CSE) syllabus.
4. Ratification of Managing Big Data (SCS21) Syllabus
5. Any other Subjects.

* 6 Regarding Swapping of Electives group-II to group-I

1. SCS151 - AI & Agent Technology moved to II Sem.
 2. SCS241 - Machine Learning Tech moved to I Sem.
- SCS151 \longleftrightarrow SCS241

The following members are present during the BOS Meeting:

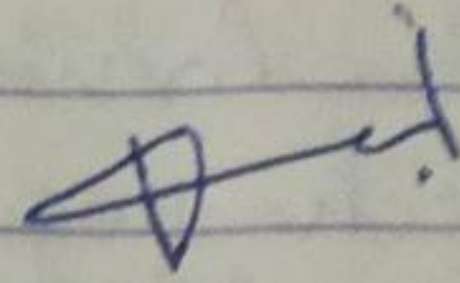
1. Dr. Siddaraju,
Chair Person, BOS,
Prof. & Head, Dept. of CSE,
Dr. AIT, B'lore.



2. Dr. L.M. Patraik,
Advisor,
Prof, HSC, B'lore.

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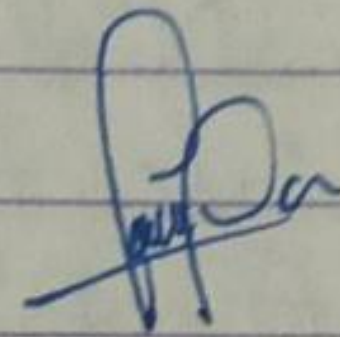
3. Dr. M. V. Vijay Kumar.
Prof. & PG, Coordinator
Dept of CSE, Dr. AIT, B'lore



4. Dr. Manjiah
Prof., Mangalore University,
External Subject Expert

— ABSENT —

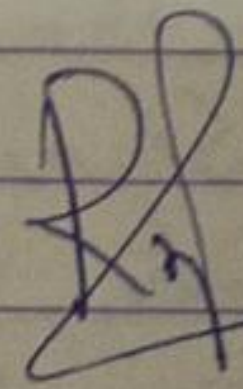
5. Dr. Thippeswamy,
Prof., VTU, Mysore
External Subject Expert



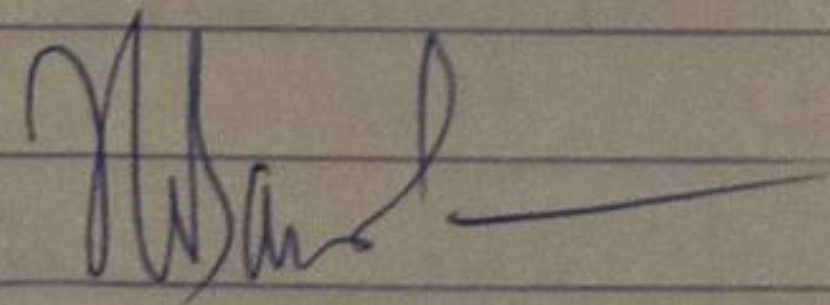
6. Dr. Gurus Prasad,
Prof., BMSCE, B'lore
External Subject Expert

— ABSENT —

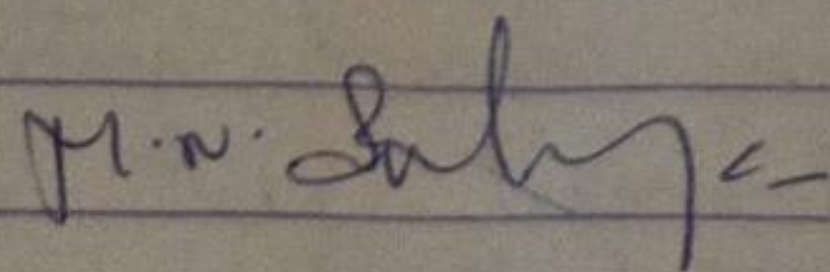
7. Dr. Rama Kanth Kumar P
Prof. & Head, Dept of CSE,
R.V.C.E., B'lore
External Subject Expert

 25/3/17

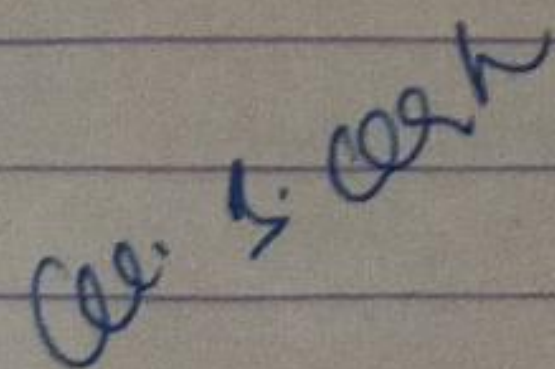
8. Dr. T. G. Basavaraju,
Prof. & Head, Govt. SKSJIT
B'lore
VTU Nominee



9. Mr. Subbaraya,
IBM, B'lore
Industry Expert



10. Mr. ~~Manjunath~~ Manjunath
Infoglobe, R. V. C. E., B'lore
Tech. B'lore
Industry Expert



11. Mr. Arvind CS
Technology Specialist,
Cognitive Computing Labs,
Cognizant GTO, B'lore
Alumni Representation

Arvind CS
25/03/2017

Internal BOS Members

1. Prof. Nithya E
Associate Professor, Dept. of CSE,
Dr. AIT, B'lore

Nithya E

2. Prof. K. R. Shylaja
Associate Professor, Dept. of CSE,
Dr. AIT, B'lore

K. R. Shylaja
25/03/17

3. Prof. Shamshukar Patil
Associate Professor, Dept. of CSE,
Dr. AIT, B'lore

Shamshukar Patil

Suggestions from BOS Members

1. The mission statement for the department has to be reframed by keeping in mind the graduate attributes concerned with respect to the ethics, lifelong learning, professional learning. (The second mission statement needs to be reframed w.r.t. above mentioned graduate attributes.)

2. Two mini projects are required or not? (Semester I & II)
3. Managing Big Data - Reframed (Slightly) syllabus is approved by the BOS Members for the current year (2016-2017)
4. Credits allotted for Elective subjects need to be referred from the VTU guidelines Rule book
5. Industry examples and its applications with case studies need to be included in MBD (I) module
6. IOT - CO's needs to be reframed.
7. CO's needs to be included for all PG subjects
8. ISBN needs to be included for all the PG Prescribed text books.
9. Credits for Project work needs to be reframed by referring to VTU Rule book.
10. Mini project in II Semester, to be changed into Project phase I
 In Semester III be Project phase II
 In Semester IV = Final Project Submissions
11. WSN - Check for Text books, CO's & PO's
12. Agile Methodologies / s/w Development using Agile Methodologies

The title of the subject to be reframed.

13. IOT is the advanced version of net's and mobile computing.
They are two different subjects.

14. Inclusion of Quad (GPU) Programming either as a course or a workshop (Certification workshop) for the students.

15. ICT innovative initiatives had to be gradually incorporated by the staffs for better teaching environment & interactions with students.

NOTE :-

16. Before BOS meeting and after the BOS meeting (prior 1 week ahead after the changes incorporated to the syllabus) the syllabus needs to be sent (mailed) to the BOS members.

