

BOS Meeting

1

17-09-2016

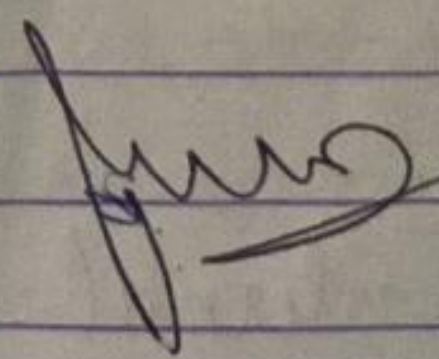
The meeting of Board of Studies (BOS) is arranged on 17-09-2016 at 10:30 AM in view of discussion of syllabus framing for I & II Semester M-Tech for the academic year 2016-2017 for First Autonomous Batch.

The Agenda of the Meeting are:

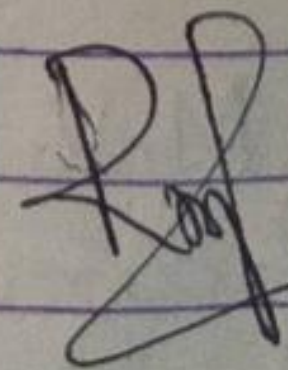
1. Approval of Vision and Mission Statements of the department.
2. Finalisation of I and II Semester Syllabus
3. Approval for preparation of III and IV Semester Syllabus.

The following members are present during the meeting:

1. Dr. Siddaraju, Chair Person
Prof. & Head, Department of CSE.

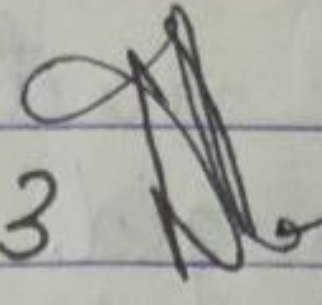
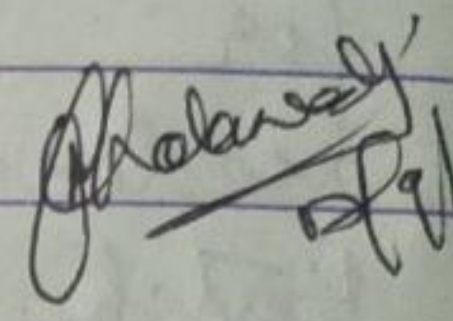
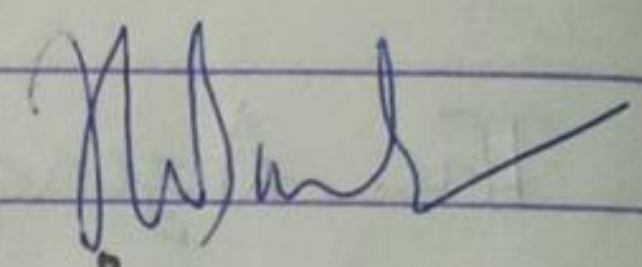
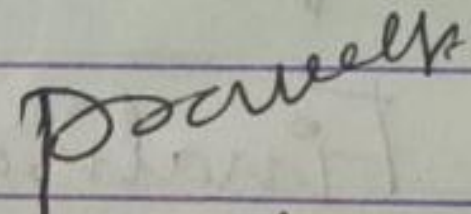
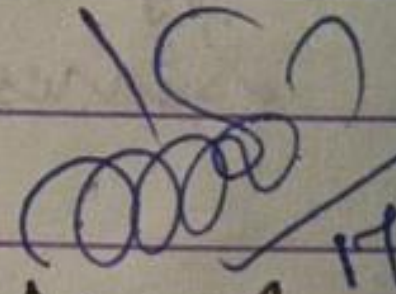
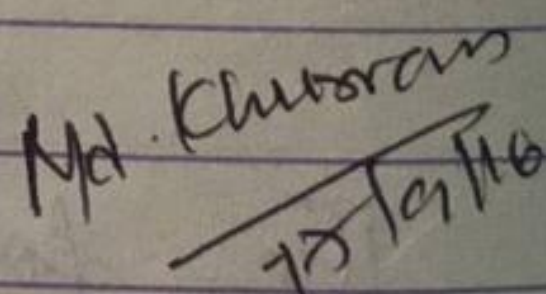

17/9/16

2. Dr. Ramakanth, Dean Academics
RVCE Member-1

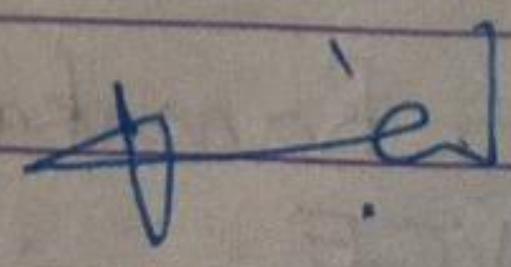

17/9/16

3. Dr. Natarajan,
Professor, PESIT Member-2

S. No. 2
17/9/16

4. Dr. Ramesh Babu,
Vice Principal, DSCE Member-3  17/9/16
5. Dr. Vishwanath Y,
Prof. & Head, NHGE Member-4  17/9/16
6. Dr. T.G. Basavaraju,
Prof. & Head, Govt. SKSJIT 
VTU Nominee
7. Mr. Praveen K.V.
Principle Engineer
Juniper Networks 
Industry Representative Industry Member
8. Dr. S.G. Koolgadi,
Assistant Professor, NITK, Surathkal  17/9/16
IIISC/NIT Member
MOHAMMED KHURRAM J
9. Alahamed Karam, Professor, GCE  17/9/16
Alumni Representative Alumni

Internal Members

1. Dr. M.V. Vijay Kumar
Professor, Dept. of CSE 
2. Prof. Nithya E,
Associate Professor, Dept. of CSE

3. Prof. K. R. Shylaja
Associate Professor, Dept. of CSE

[Signature]

4. Prof. Shan Shekar Palil
Associate Professor, Dept. of CSE

[Signature]
17/9/16

5. Dr. Gowri Shankar
Associate Professor, Dept. of CSE

[Signature]
12/06/2016

6. Dr. Mary Cherian
Associate Professor, Dept. of CSE

[Signature]

Suggestions from BOS Members

1. VTU Guidelines to be followed to frame the syllabus (Total No of Credits to be less than 100 credits)
2. To implement LTPS attributes in the scheme
3. The title of the subjects to be reframed according to the IEEE Washington and IEEE ACM & ISBN No to be included
4. Emphasis on programming to be implemented in the course rather than only theoretical knowledge.
5. To include subjects like Android

6. Course Outcomes should be reframed.
(Use Analyse rather than understanding)
according to Bloom's Taxonomy.

7. As per NBA, minimum CO's should be 6 CO's, and Programme Outcome should be 11 PO's for PG Programme.

8. Scheme of internal valuation to be shown in detail.

Scheme of evaluation of CIE & SEE
(10 Marks Assignment, 40 - Test Marks)

9.

9. Course Title } Replaced with Subject Code
Course Code } & Subject title.

10. Big Data and Cloud Computing, to include a Tutorial part.

Complete practical knowledge to be included within the syllabus.

Include few practical applications, hands on exposure

40% Theory + 60% practical (Hands on)

Split the classes in two parts

(1) Understand the concept &

(2) Then, Run and see how exactly the concepts practically works.

eg: To startup with, use AWS & so on.

11. Look into the recent edition & publication of text books prescribed.

Data Mining to be considered either

as core or as an elective subject in any semester. (preferably in 4th semester)

12. Add Spatial, Genome Databases applications in DBMS. And stress on document & column oriented concepts like Cassandra & so on. To have an hands on experience on usage of database

13. To present Mathematics as a practical knowledge implementation wst technical concepts "ISS"

"Mathematical foundation for Research" to frame a new syllabus inclusive from basic to advanced.

14. Artificial Intelligence syllabus to be reframed and newer books to be prescribed. Cover more topics in detail with the current scenario. Reframe Unit 4,5.

Can include Robotics (Prolog / SW Prolog) → "Simply Logical" is the title of the book. Author - "Peter Haeberli"

15. Title: DIP

Look into CO & Course Graph, to be reframed.

Advanced books to be prescribed

Introduce Matlab, practical sessions
3 hours Theory + 1 hour practical

16. FOT

20% Theory + 80% Practical

Syllabus of IOT to be reframed wst
having 80% practical exposure. Introduce
tools (Simulators)

17.

11/12 hours is 1 Credit

Therefore total hours comes to 48 hours.
And also to reduce the syllabus content.

18. SAN, to cover more on cloud storage
concepts (to introduce some clouds &
learn on it). Look into new storage
solutions. The syllabus to be reframed.

19. In Electric, keep 4 tracks. wst to
all 4 semesters.

The subjects to be connected / driver
to the continuity in these subjects, ^{concepts} from
semester 1 to 4.

20. Mini project evaluations should be
implemented on Rubrics.

* II Semester subjects (Syllabus)

21. ACM - syllabus to be reframed and
the objectives to be reconsidered.

DDL to be included, QAS, ACP's.
(8th Defined Layers)

Text Books :- To be reconsidered.
Latest Edition

22. Advanced Algorithms → Latest Edition

prescribed book to be considered.
CO's to be reframed, include designs

23. Cloud Computing can be replaced with
Computer Networks.
Cloud Computing in II Semester
Computer Networks in I Semester

24. Machine Learning techniques title to be
replaced with just "Machine Learning: Text Book
R.R. Replace it by ~~Mitchel~~. (Christopher Bishop)
Text books to be reconsidered. Latest Editions
to be included.
2, 3 as Reference Books.

25. Pattern Recognition / ^{replace it with} "Computer Vision"
2nd Book fresh It to reference. Syllabus to be
framed by Prof. Nithya G.

26. "Cyber Security & Digital Forensics." Title
to be reframed. (or)
"Digital Forensics & Cyber Security"

27. INS, This subject to be replaced with
some other upcoming subjects.

29. Neural Networks, fresh it as Semester I
as elective. Since Soft Computing is a
continuity of neural n/w's, which is
in Semester 2.

(OR)

We can have Data Mining / Data Science
(In this case you must remove ML
learning)

30. CN lab syllabus content to be reframed.
The content as to be advanced.
More Hands on.

31. Research Methodology to be considered as common subject.

* III Semester & IV Semester

32. Whether to stick on to Internship or not
Internship component to be retained, &
to be taken up soon after the II semester
examination.

Internship could be period of 8 weeks or
2 months, within given list of companies.

33. Let the semester 4 subjects pushed to
semester 3.

And Internship can be pushed to semester
4: + 2 subjects (Friday, Saturday (2 hours))
Change of scheme of 3rd & 4th semester

34. Mapping between no of credits & marks
to be shown in detail (with split up
of marks)

35. Uniform distribution of credits for
all 4 semesters.

CO's to be reframed.

LTPS to be emphasised

Text Books - Chapter number to be
specified.

Credit to be awarded exclusively for paper publications, can add a component like AAT

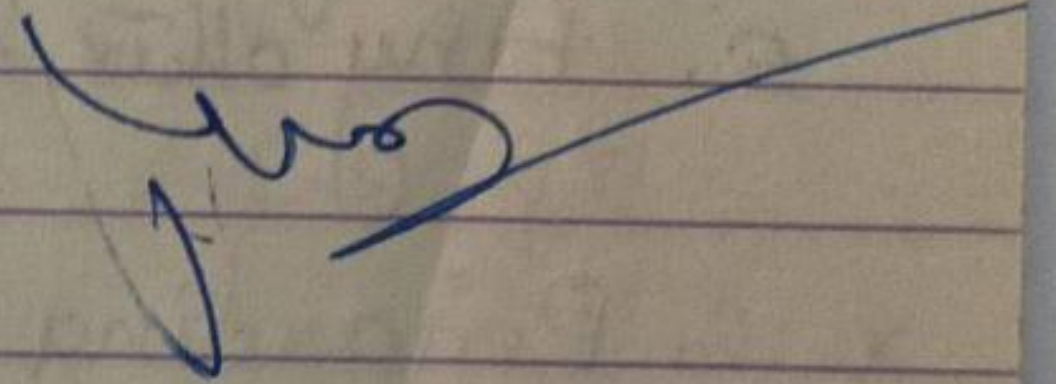
NOTE :-

The syllabus has been modified as per the suggestions given by the BOS members.

The modified syllabus has been implemented for the current academic year

Chairperson, BOS

HOD, CSE



Dr. Ambedkar Institute of Technology, Bangalore-560056
An Autonomous Institution, Affiliated to VTU
Department of CSE, M. Tech Programme

Autonomous Syllabus for M. Tech 2016-2017 Batch

M. Tech (CSE) First Semester

Total Credits: 26

		CREDIT BASED					
Sub Code	Subject Name	Lecture Hrs/week	Duration of exam in Hrs	Marks for		Total	Total credits
				CIE	SEE		
SCS11	Advances in Operating System	4	3	30	70	100	4
SCS12	Cloud Computing	4	3	30	70	100	4
SCS13	Advanced DBMS	4	3	30	70	100	4
SCS14	Probability Statistics and Queuing Theory	4	3	30	70	100	4
SCS15X	Elective I	4	3	30	70	100	4
SCS16L	OS and ADBMS lab	3	3	30	70	100	2
SCSS17	Seminar		-	50		50	2
SCSM18	Mini Project		-	50		50	2
Total		23	18	280	420	700	26

Elective Group - I

- Artificial Intelligence and Prolog Programming (SCSI51)
- Digital Image Processing(SCSI52)
- Advances in Storage Area Network (SCSI53)

M. Tech (CSE) Second Semester

Total Credits: 26

Sub Code	Subject Name	Lecture Hrs/week	Duration of exam in Hrs	CREDIT BASED			Total Credits
				Marks for		Total	
				CIE	SEE		
SCS21	Managing Big Data	4	3	30	70	100	4
SCS22	Advanced Computer Networks	4	3	30	70	100	4
SCS23	Advanced Algorithms	4	3	30	70	100	4
SCS24X	Elective II	4	3	30	70	100	4
SCS25X	Elective III	4	3	30	70	100	4
SCS26L	Network/ Algorithms Lab	3	3	30	70	100	2
SCS27	Research Methodologies	3	3	30	70	100	2
SCSM28	Mini project		-	50		50	2
Total		23	18	260	490	750	26

Elective Group II

- Machine Learning Techniques (SCS241)
- Computer Vision (SCS242)
- Cyber Security(SCS243)

Elective Group III

- Information and Network Security(SCS251)
- Soft Computing (SCS252)
- Neural Networks (SCS253)

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:

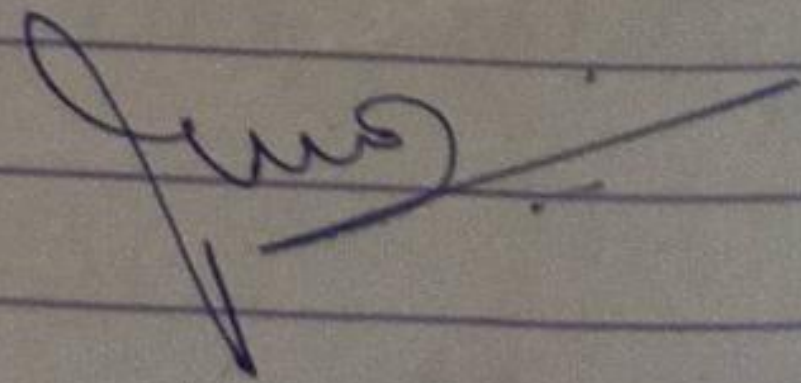
1. Approval of Vision & Mission Statement
2. Finalization of 1st to 8th Sem BE(CSE) Syllabus.
3. Finalization of 1st to 4th Sem M.Tech(CSE) syllabus.
4. Ratification of Managing Big Data (SCS21) Syllabus
5. Any other Subjects.

* 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

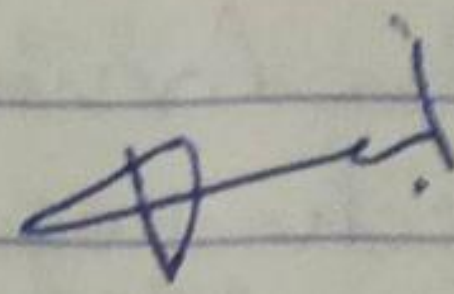
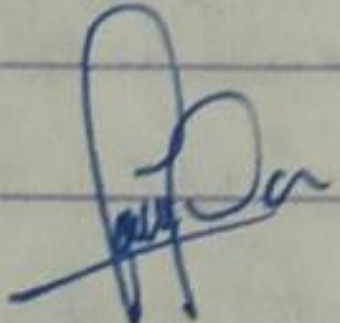
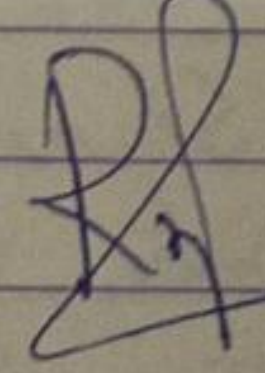
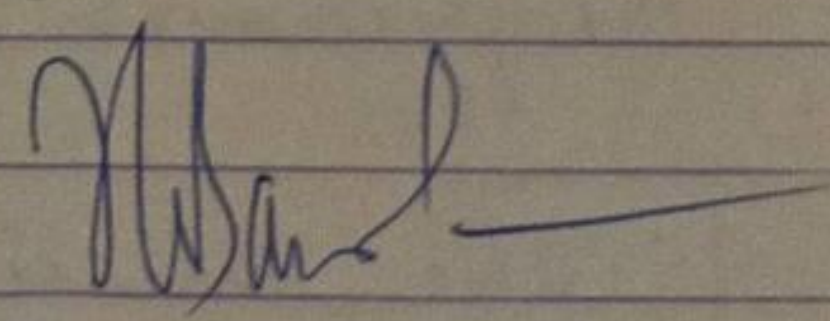
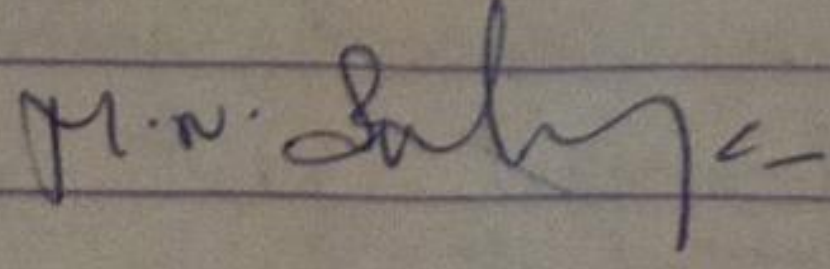
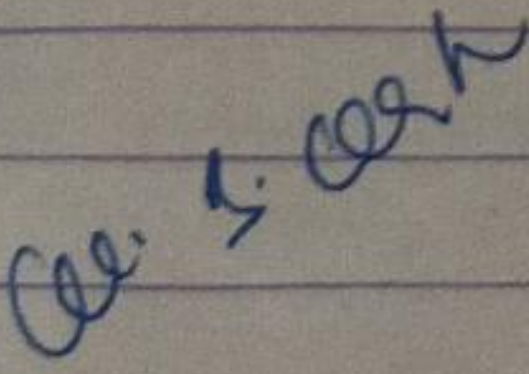
The following members are present during the BOS Meeting:

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.

In vitre

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'dore
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.

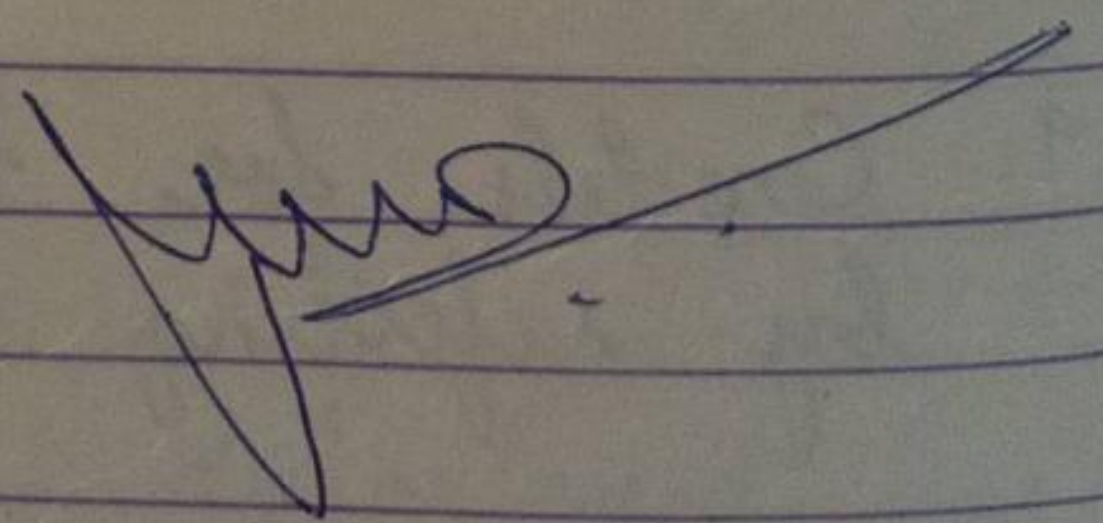
13. IOT is the advanced version of net's and mobile computing.
They are two different subjects.

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.



M. Tech (CSE). Third Semester

Total Credits: 24

		CREDIT BASED					
Sub Code	Subject Name	Lecture Hrs/week	Duration of exam in Hrs	Marks for			Total Credits
				CIE	SEE	Total	
SCS31	Internship	-	-	50	50	100	20
SCSP32	Project Phase -I	-	-	50	-	50	2
SCSS33	Seminar	-	-	50	-	50	2
Total				150	50	200	24

M. Tech (CSE). Fourth Semester

Total Credits: 24

Sub Code	Subject Name	CREDIT BASED					
		Lecture Hrs/week	Duration of exam in Hrs	Marks for			Total Credits
				CIE	SEE	Total	
SCS41	Internet of Things	4	3	30	70	100	4
SCS42X	Elective-IV	4	3	50	50	100	4
SCSP41	Project Phase II	-	-	50	100	150	16
Total				130	220	350	24

Elective Group - IV

- Wireless networks and Mobile Computing (SCS421)
- Advanced Data Structures (SCS422)
- Agile Methodologies (SCS423)

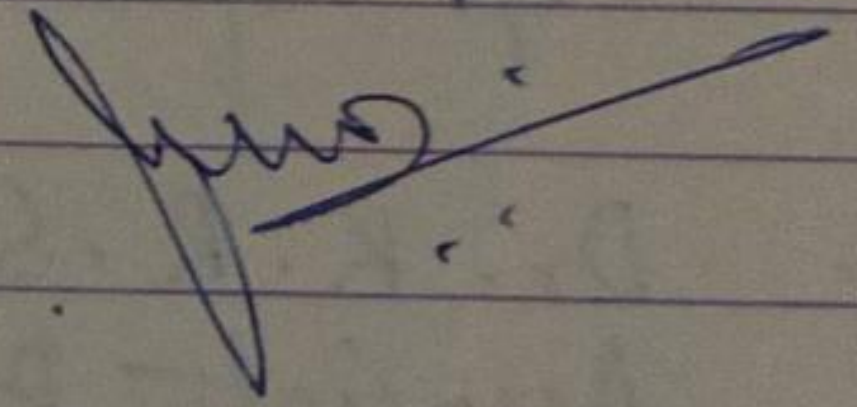
3rd BOS Meeting

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:

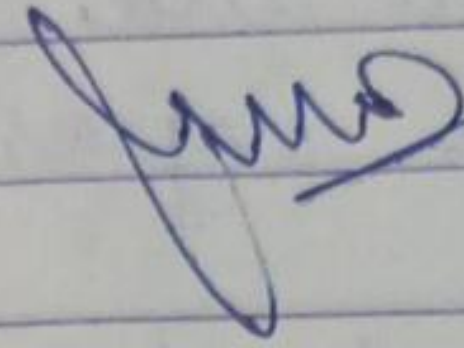
1. Discussion of I, II, III and IV semester syllabus & scheme of Ph. Programme (CSE)



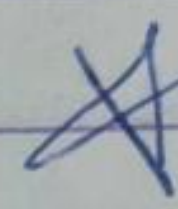
The following members were present during the BOS meeting:

Signature:

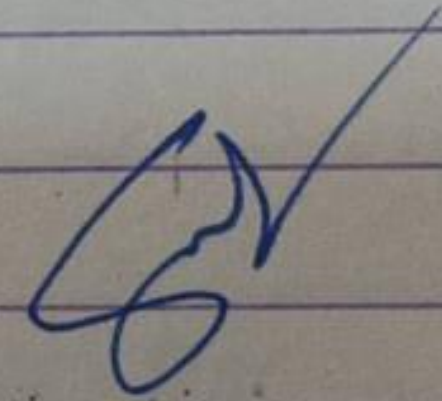
1. Dr. Siddaraju,
Chair Person, BOS,
Prof & Head, Dept. of CSE
Dr. AIT, B'lore.

 23.6.18

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

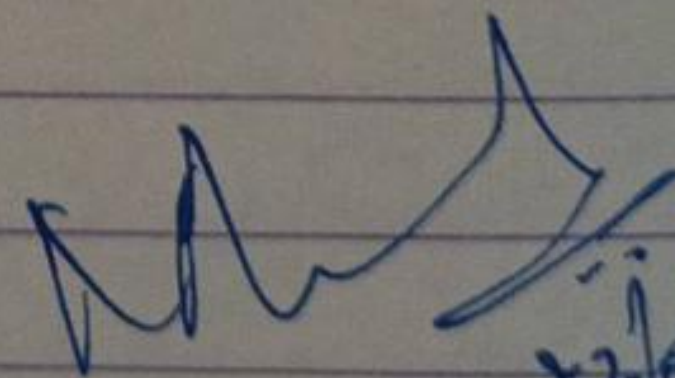
 in

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

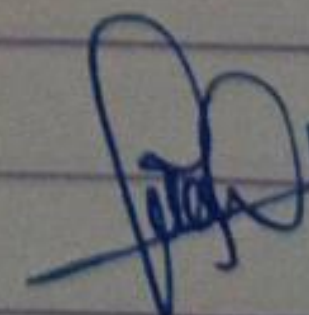


(Internal BOS Member)

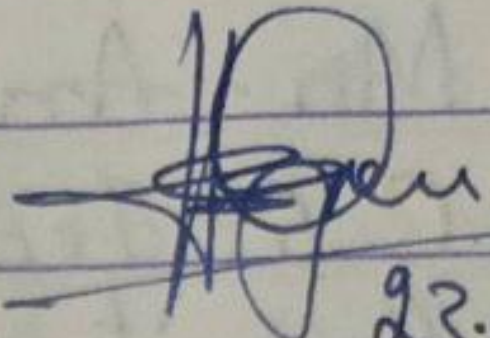
4. Dr. Manjiah
Professor,
Mangalore University
External Subject Expert

 23/06/2018

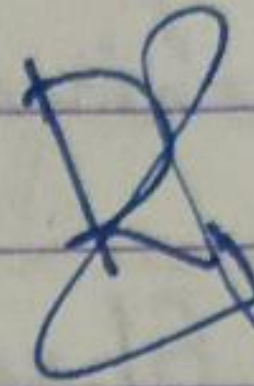
5. Dr. Thippeswamy
Professor,
VTU, Mysuru
External Subject Expert

 23/6/18

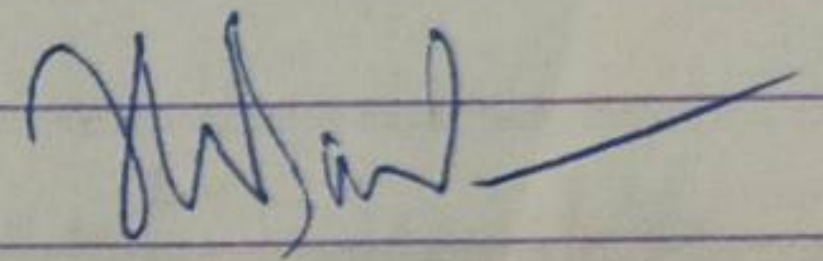
6. Dr. Guruprasad
Prof., BMSCB, B'lore
External Subject Expert


23.06.2018

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


23/6/18

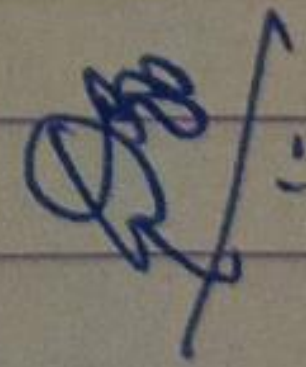
8. Dr. T. G. Basavaraju
Prof. & Head, Govt. SKSJIT
B'lore.
VTU Nominee



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

- AB -

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



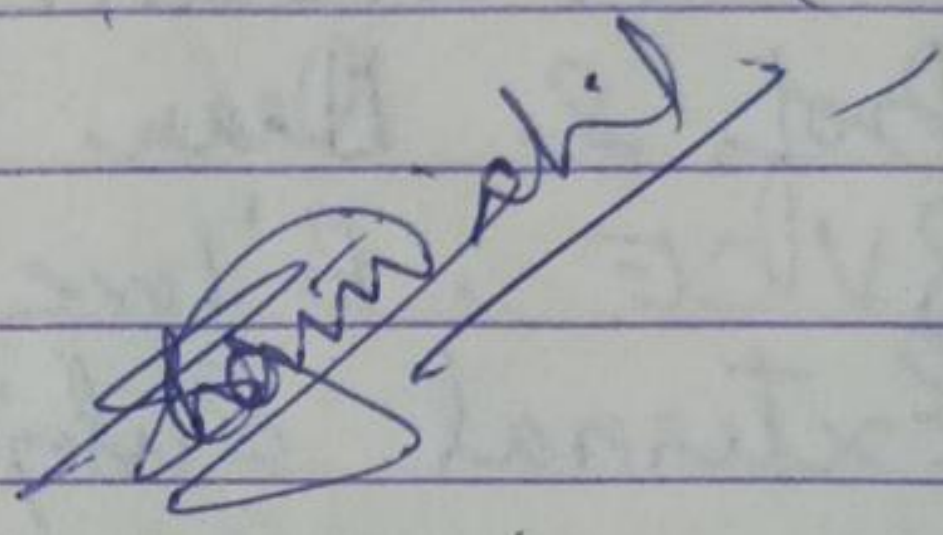
11. Ms. Kumara Murati
Senior Trainer
Sales Force, B'lore.
Industry representative



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

Anind CS
23/08/2018

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


(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 w^{rt} specialisation streams rather than an overall overview of the ~~accepted~~ CS^E related subjects

7. Hands-on is important w^{rt} 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 w^{rt} 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

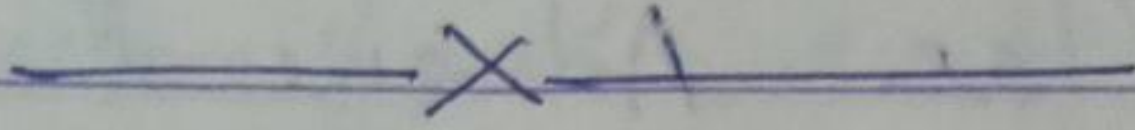
10. I semester Scheme

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 PLG 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~~

Dr. Ambedkar Institute of Technology, Bangalore-560056
An Autonomous Institution, Affiliated to VTU
Department of CSE, M. Tech Programme

Autonomous Syllabus for M. Tech 2017-2018 Batch

M. Tech (CSE) First Semester

Total Credits: 26

		CREDIT BASED					
Sub Code	Subject Name	Lecture Hrs/week	Duration of exam in Hrs	Marks for		Total	Total credits
				CIE	SEE		
SCS11	Advances in Operating System	4	3	30	70	100	4
SCS12	Cloud Computing	4	3	30	70	100	4
SCS13	Advanced DBMS	4	3	30	70	100	4
SCS14	Probability Statistics and Queuing Theory	4	3	30	70	100	4
SCS15X	Elective I	4	3	30	70	100	4
SCS16L	OS and ADBMS lab	3	3	30	70	100	2
SCSS17	Seminar		-	50		50	2
SCSM18	Mini Project		-	50		50	2
Total		23	18	280	420	700	26

Elective Group - I

- Artificial Intelligence and Prolog Programming (SCSI51)
- Digital Image Processing(SCSI52)
- Advances in Storage Area Network (SCSI53)

M. Tech (CSE) Second Semester

Total Credits: 26

Sub Code	Subject Name	Lecture Hrs/week	Duration of exam in Hrs	CREDIT BASED			Total Credits
				Marks for		Total	
				CIE	SEE		
SCS21	Managing Big Data	4	3	30	70	100	4
SCS22	Advanced Computer Networks	4	3	30	70	100	4
SCS23	Advanced Algorithms	4	3	30	70	100	4
SCS24X	Elective II	4	3	30	70	100	4
SCS25X	Elective III	4	3	30	70	100	4
SCS26L	Network/ Algorithms Lab	3	3	30	70	100	2
SCS27	Research Methodologies	3	3	30	70	100	2
SCSM28	Mini project		-	50		50	2
Total		23	18	260	490	750	26

Elective Group II

- Machine Learning Techniques (SCS241)
- Computer Vision (SCS242)
- Cyber Security(SCS243)

Elective Group III

- Information and Network Security(SCS251)
- Soft Computing (SCS252)
- Neural Networks (SCS253)

M. Tech (CSE). Third Semester**Total Credits: 24**

		CREDIT BASED					
Sub Code	Subject Name	Lecture Hrs/week	Duration of exam in Hrs	Marks for			Total Credits
				CIE	SEE	Total	
SCS31	Internship	-	-	50	50	100	20
SCSP32	Project Phase -I	-	-	50	-	50	2
SCSS33	Seminar	-	-	50	-	50	2
Total				150	50	200	24

M. Tech (CSE). Fourth Semester

Total Credits: 24

		CREDIT BASED					
Sub Code	Subject Name	Lecture Hrs/week	Duration of exam in Hrs	Marks for			Total Credits
				CIE	SEE	Total	
SCS41	Internet of Things	4	3	30	70	100	4
SCS42X	Elective-IV	4	3	50	50	100	4
SCSP41	Project Phase II	-	-	50	100	150	16
Total				130	220	350	24

Elective Group - IV

- Wireless networks and Mobile Computing (SCS421)
- Advanced Data Structures (SCS422)
- Agile Methodologies (SCS423)

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)

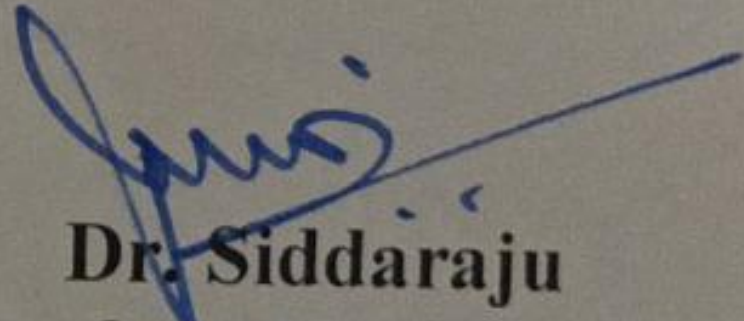
AGENDA

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.

Dr. Ambedkar Institute of Technology
(An Autonomous Institute affiliated to VTU, Accredited by NAAC with 'A' grade)
SCHEME OF TEACHING AND EXAMINATION I SEMESTER (Autonomous) 2020-21, 2021-22
M. Tech in Computer Science & Engineering

I semester

Sl. No.	Sub Code	Subject Title	Teaching Department	Teaching hours per week			Maximum Marks allotted			Examination Credits
				Lecture	Tutorial/Seminar/Assignment	Practical / Project	CIE	SEE	Total	
1	20SCS11	Probability Statistics and Queuing Theory (Maths)	MAT	4	-	-	50	50	100	3
2	20SCS12	Cloud Computing Theory and Practices	CSE	4	-	-	50	50	100	3
3	20SCS13	Data Science and Machine Learning Techniques	CSE	4	-	-	50	50	100	3
4	20SCS14	Soft Computing	CSE	4	-	-	50	50	100	3
5	20SCS15X	ELECTIVE - I	CSE	4	-	-	50	50	100	3
6	20SCS16X	ELECTIVE - II	CSE	4	-	-	50	50	100	3
7	20SCSL17	Data Science and Machine Learning Laboratory	CSE	-	-	3	50	50	100	2
8	20SCSS18	Technical Seminar	CSE	-	4	-	50	-	50	2
9	20SCSM19	Minor project/ Industry visit/ Field work	CSE	-	-	6	50	-	50	2
Total							450	350	800	24

Technical Seminar: Seminar on Advanced topics from refereed journals by each student

ELECTIVE - I			ELECTIVE - II	
Sl. No	Subject Code	Subject title	Subject Code	Subject title
1	20SCS151	Advanced Operating System	20SCS161	Introduction to Blockchain Technology
2	20SCS152	Advances in Computer Network	20SCS162	Advanced Algorithms and Data structure
3	20SCS153	Deep Learning	20SCS163	Cyber Security and Cyber Laws
4	20SCS154	Parallel Computing with GPU Architecture	20SCS164	Wireless Networks & Mobile Computing

Dr. Ambedkar Institute of Technology

(An Autonomous Institute affiliated to VTU, Accredited by NAAC with 'A' grade)
SCHEME OF TEACHING AND EXAMINATION II SEMESTER (Autonomous) 2020-21, 2021-22
M. Tech in Computer Science & Engineering

II semester

Sl. No.	Sub Code	Subject Title	Teaching Department	Teaching hours per week			Maximum Marks allotted			Examination Credits
				Lecture	Tutorial/Seminar/Assignment	Practical / Project	CIE	SEE	Total	
1	20SCS21	Big Data	CSE	4	-	-	50	50	100	3
2	20SCS22	Advanced Database Systems	CSE	4	-	-	50	50	100	3
3	20SCS23	Artificial Intelligence and Prolog Programming	CSE	4	-	-	50	50	100	3
4	20SCS24	Internet of Things	CSE	4	-	-	50	50	100	3
5	20SCS25X	ELECTIVE - III	CSE	4	-	-	50	50	100	3
6	20SCS26X	ELECTIVE - IV	CSE	4	-	-	50	50	100	3
7	20RM27	Research Methodology	CSE	2	-	-	50	50	100	2
8	20SCSL28	IoT Laboratory	CSE	-	-	3	50	50	100	2
9	20SCSP29	Project Phase - I	CSE	-	-	6	50	-	50	2
Total							450	400	850	24

ELECTIVE - III			ELECTIVE - IV	
Sl. No	Subject Code	Subject title	Subject Code	Subject title
1	20SCS251	Natural Language Processing	20SCS261	Business Analytics
2	20SCS252	Industry Elective (HOD TCS)	20SCS262	Agile Methodologies
3	20SCS253	Cryptography & Network Security	20SCS263	Storage Area Network
4	20SCS254	Computational Intelligence	20SCS264	Intelligent Systems

Dr. Ambedkar Institute of Technology
 (An Autonomous Institute affiliated to VTU, Accredited by NAAC with 'A' grade)
 Department of Computer Science & Engineering

SCHEME OF TEACHING AND EXAMINATION III SEMESTER (Autonomous) 2020-21, 2021-22
M. Tech in Computer Science & Engineering

III semester

Sl. No.	Sub Code	Subject Title	Teaching Department	Teaching hours per week			Maximum Marks allotted			Examination Credits
				Lecture	Tutorial/Seminar/Assignment	Practical / Field Work	CIE	SEE	Total	
1	20SCS31	Self Study - Massive Open Online Course (MOOC)	CSE	--	8	--	50	50	100	4
2	20SCS32	Internship	CSE	--	--	16	50	50	100	8
3	20SCSS33	Technical Seminar	CSE	-	4	-	50	-	50	2
4	20SCSP34	Evaluation of Project Work Phase I	CSE	-	-	12	50	50	100	6
Total							200	150	350	20

- List of MOOC course shall be decided in the Board of Studies meeting. Students shall register for NPTEL-MOOC during 2nd semester and shall be completed before the last working day of the 3rd semester. The certificate and assignment and examination scores should be submitted to the examination section.
- The student shall make a midterm presentation of the activities undertaken during the first 8 weeks of Internship to a panel comprising Internship Guide, a senior faculty from the department and Head of the Department. The College shall facilitate and monitor the student internship program. The Internship report of each student shall be submitted to the Institute.

Dr. Ambedkar Institute of Technology

(An Autonomous Institute affiliated to VTU, Accredited by NAAC with 'A' grade)
 Department of Computer Science & Engineering
 SCHEME OF TEACHING AND EXAMINATION IV SEMESTER (Autonomous) 2020-21, 2021-22
M. Tech in Computer Science & Engineering

IV semester

Sl. No.	Sub Code	Subject Title	Teaching Department	Teaching hours per week			Maximum Marks allotted			Examination Credits
				Lecture	Tutorial/Seminar/Assignment	Practical / Field Work	CIE	SEE	Total	
1	20SCSP41	Project Phase - II Midterm Internal Evaluation	CSE	-	-	8	100	-	100	2
2	20SCSP42	Project Work Evaluation and Viva Voce	CSE	-	4	24	100	100	200	18
Total							200	100	300	20
Grand Total (I to IV Semester) :							2300 Marks ; 88 Credits			

6th BOS Meeting.

35

Date:- 31/07/2022

The External Board of Studies (BOS) Meeting is arranged on 31/07/2022 at 10:00 AM, in seminar-hall C-326, for syllabus framing and other BOS related issues for the Academic year 2022-23.

Agenda of the Meeting:-

- 1) Discussion of scheme from 1st sem to 4th sem for the academic year 2022-23.
- 2) Discussion of detailed syllabus for the academic year 2022-23.
- 3) Ratification of syllabus for the academic year 2021-2022 course code - 20SCS24. and laboratory. course code - 20SCSL27.
- 4) Ratification of MOOC Courses for 2nd year M-Tech.

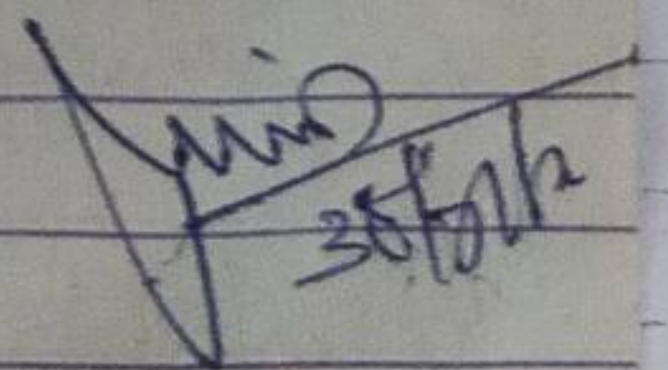
Internal

The following Members were present during the Meeting.

1) BOS chairman

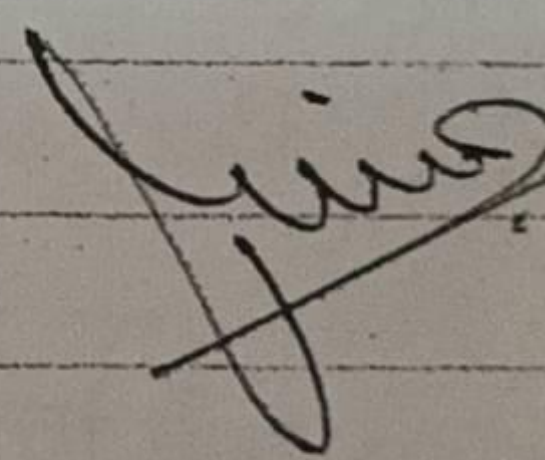
Dr Siddaraju
Chair person, BOS
Prof & Head, Dept of
CSE, DR AIT,
Bangalore.

Signature.

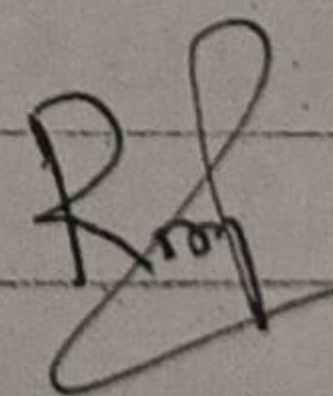

30/7/22

The following members were presented during the meeting

1. Dr. Siddaraju
Prof & Head, Dept. of CSE
Dr. AIT, Bangalore - 56
Chairperson, BOS


30.7.2022

2. Dr. Ramakanth Kumar. P.
Professor & Head, RVCE
Bangalore - 560056
VTU Nominee


30/7/2022

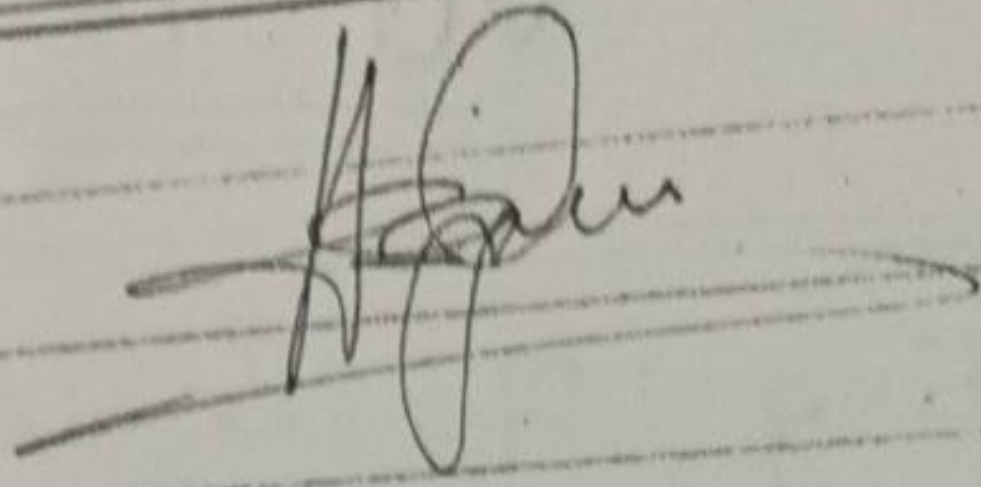
3. Dr. Rajendra Hegadi
IIT Dharwad
Expert member

ABSENT

4. Dr. Anitha Kanavalli
Prof & Head, MSRIT
Bangalore
Expert member

ONLINE

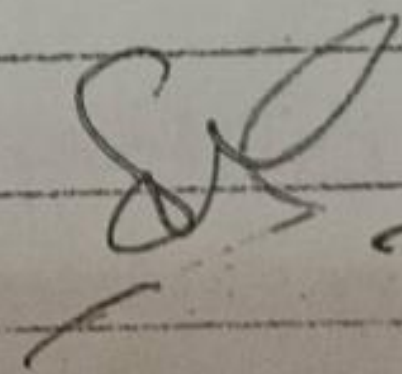
5. Dr. Guenprasad.
Professor & Head
BMSCE, Bengaluru
Expert member



6. Dr. Thippeswamy
Professor & Head
NMIT, Bengaluru
Expert member

— ABSENT —

7. Mr. Nagendraswamy
Program Director
Sharp Software Development
Bengaluru
Industry Representative.



30/7/2022

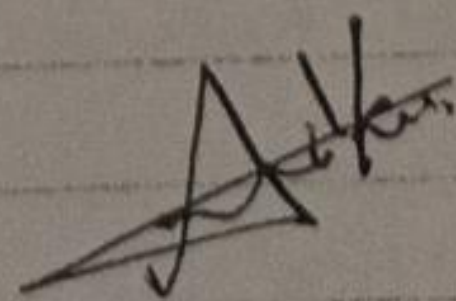
8. Dr. Biswajit Paul
Director, AI Consultant
Bengaluru
Industry Representative

ONLINE

9. Mr. Ashish Pandey
HOD, CSE
IET, Ayodhya.
Special invitee

ONLINE

10. Dr. Anil Kumar
Assistant professor
BMSIT, Bengaluru
Alumni with PG



INTERNAL BOS MEMBER.

1. Dr. Asha
Associate professor.
Dept. of CSE
Dr. AIT, Bengaluru

A
30/7/2022

2. Dr. Leenagiri. G
Associate professor
Dept. of CSE
Dr. AIT, Bengaluru

Leena Gini G.
30/7/22

3. Dr. Prabha. R
Professor, Dept. of CSE
Dr. AIT, Bengaluru
PG member

Prabha
30/7/2022

4. Dr. Gourishankar. S
Professor, Dept. of CSE
Dr. AIT, Bengaluru

S
30/7/2022

5. Dr. Nandini. N.
Associate professor
Dept. of CSE
Dr. AIT, Bengaluru

Nandini
30/7/22

6. Dr. Smitha Shekar B
Associate Professor
Dept. of CSE
Dr. AIT, Bengaluru

Smitha
30/7/2022.

7. Ms. AshaRani K. P
Assistant Professor

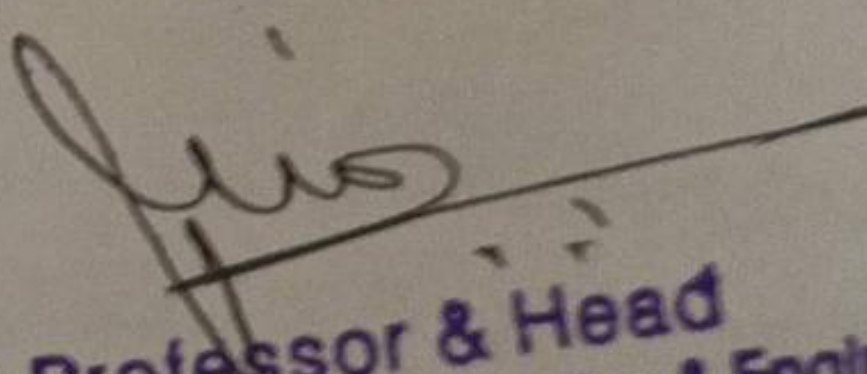
Asha
30/7/22

1. Dr. Harish. G
Associate Professor
Dept. of CSE
Dr. AIT, Bengaluru

ajj
30/07/22

2. Dr. K. R. Shylaja
Professor, Dept. of CSE
Dr. AIT, Bengaluru
PG Member.

30/07/22


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

Dr. Ambedkar Institute of Technology
 (An Autonomous Institute affiliated to VTU, Accredited by NAAC with 'A' grade)
 Department of Computer Science and Engineering
 SCHEME OF TEACHING AND EXAMINATION I SEMESTER (Autonomous) 2022-23, 2023-24
 M. Tech in Computer Science & Engineering
 I Semester

I SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Hours /Week			Examination			Credits
				Theory	Practical/ Field work/ Assigme	Duration in	CIE Marks	SEE Marks	Total Marks	
1	PCC	22SCS11	Probability Statistics and Queuing Theory (Maths)	04	--	03	30	70	100	4
2	PCC	22SCS 12	Cloud Computing Theory and Practices	04	--	03	30	70	100	4
3	PCC	22SCS 13	Internet of Things	04	--	03	30	70	100	4
4	PCC	22SCS 14	Advanced Algorithms	04	--	03	30	70	100	4
5	PEC	22SCS 15X	Professional Elective -1	04	--	03	30	70	100	4
6	PCC	22SCS L16	IoT Laboratory	-	04	03	50	50	100	2
7	PCC	22RM17	Research Methodology and IPR	02	--	03	30	70	100	2
TOTAL				22	04	21	230	470	700	24

Note: PCC: Professional core, PEC: Professional Elective.

Professional Elective 1

Course Code under 22SCS15X	Course title
22SCS151	Advanced Operating System
22SCS152	Advances in Computer Network
22SCS153	Artificial Intelligence and Prolog Programming
22SCS154	Data Mining & Data warehousing

Internship: All the students have to undergo mandatory internship of 6 weeks during the vacation of I and II semesters and /or I and III semesters. A University examination shall be conducted during III semester and the prescribed credit shall be counted for the same semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those who do not take-up/complete the internship shall be declared as failed and have to complete during the subsequent University examination after satisfying the internship requirements.

Dr. Ambedkar Institute of Technology
 (An Autonomous Institute affiliated to VTU, Accredited by NAAC with 'A' grade)
 Department of Computer Science and Engineering
 SCHEME OF TEACHING AND EXAMINATION I SEMESTER (Autonomous) 2022-23, 2023-24
 M. Tech in Computer Science & Engineering

II SEMESTER

II SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week			Examination			Credits
				Theory	Practical/ Field work/ Assignment	Duration in	CIE Marks	SEE Marks	Total Marks	
1	PCC	22SCS21	Big Data Analytics	04	--	03	30	70	100	4
2	PCC	22SCS22	Advanced Database System	04	--	03	30	70	100	4
3	PCC	22SCS23	Data Science & Machine Learning Techniques	04	--	03	30	70	100	4
4	PEC	22SCS24X	Professional elective 2	04	--	03	30	70	100	4
5	PEC	22SCS25X	Professional elective 3	04	--	03	30	70	100	4
6	PCC	22SCSM26	Mini Project	--	04	03	50	70	100	2
7	PCC	22SCSS27	SWAYAM/NPTEL/ MOOC Course	--	02	--	50	--	50	2
TOTAL				20	06	18	250	420	650	24

Note: PCC: Professional core, PEC: Professional Elective.

Professional Elective 2		Professional Elective 3	
Course Code under 22SCS 24X	Course title	Course Code under 22SCS 25X	Course title
22SCS241	Introduction to Block Chain Technology	22SCS251	Natural Language Processing and Text Mining
22SCS242	Soft Computing	22SCS252	Computer Vision
22SCS243	Software Defined Networks	22SCS253	Agile Technologies
22SCS244	Computational Intelligence	22SCS254	Wireless Networks & Mobile Computing

Note:

1. **Technical Seminar:** CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide, if any, and a senior faculty of the department. Participation in the seminar by all postgraduate students of the same and other semesters of the programme shall be mandatory.

The CIE marks awarded for Technical Seminar, shall be based on the evaluation of Seminar Report, Presentation skill and Question and Answer session in the ratio 50: 25: 25.

2. **Internship:** All the students shall have to undergo mandatory internship of 6 weeks during the vacation of I and II semesters and /or II and III semesters. A University examination shall be conducted during III semester and the prescribed credit shall be counted in the same semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take- up/complete the internship shall be declared as failed and have to complete during the subsequent University examination after satisfying the internship requirements.

Dr. Ambedkar Institute of Technology
 (An Autonomous Institute affiliated to VTU, Accredited by NAAC with 'A' grade)
 Department of Computer Science and Engineering
 SCHEME OF TEACHING AND EXAMINATION I SEMESTER (Autonomous) 2022-23, 2023-24
 M. Tech in Computer Science & Engineering
 III SEMESTER

III SEMESTER											
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week			Examination			Credits	
				Theory	Practical/ Field work/ Assigment	Duration in	CIE Marks	SEE Marks	Total Marks		
1	PCC	22SCS31	Deep Learning	04	--	03	30	70	100	4	
2	PEC	22SCS32X	Professional elective4	04	--	03	30	70	100	4	
3	PEC	22SCS33X	Professional elective 5	04	--	03	30	70	100	4	
4	Project	22SCS34	Evaluation of Project phase -1	--	02	--	100	--	100	2	
5	Internship	22SCS35	Internship	(Completed during the intervening vacation of I and II semesters and /or II and III Semesters.)			03	50	50	100	6
TOTAL				12	02	12	240	260	500	20	

Note: PCC: Professional core, PEC: Professional Elective.

Professional elective 4		Professional elective 5	
Course Code under 22SCS 32X	Course title	Course Code under 22SCS 33X	Course title
22SCS 321	Cloud Security	22SCS 331	Business Analytics
22SCS 322	Multimedia Communications	22SCS 332	Intelligent Systems
22SCS 323	Cryptography & Network Security	22SCS 333	Cyber Security and Cyber Laws
22SCS 324	Parallel Computing with GPU Architecture	22SCS 334	Advanced Storage Area Network

Note:

1. **Project Phase-I:** Students in consultation with the guide/co-guide if any, shall pursue literature survey and complete the preliminary requirements of selected Project work. Each student shall prepare relevant introductory project document, and present a seminar.

CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide if any, and a senior faculty of the department. The CIE marks awarded for project work phase -1, shall be based on the evaluation of Project Report, Project Presentation skill and Question and Answer session in the ratio 50: 25: 25.

SEE (University examination) shall be as per the University norms.

2. **Internship:** Those, who have not pursued /completed the internship shall be declared as failed and have to complete during subsequent University examinations after satisfying the internship requirements.

Internship SEE (University examination) shall be as per the University norms.

Dr. Ambedkar Institute of Technology
 (An Autonomous Institute affiliated to VTU, Accredited by NAAC with 'A' grade)
 Department of Computer Science and Engineering
SCHEME OF TEACHING AND EXAMINATION I SEMESTER (Autonomous) 2022-23, 2023-24
M. Tech in Computer Science & Engineering

IV SEMESTER

IV SEMESTER				Teaching Hours /Week		Examination				Credits
Sl. No	Course	Course Code	Course Title	Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks Viva voce	Total Marks	
1	Project	22SCSP41	Project Work phase -2	-	04	03	40	60	100	20
TOTAL				-	04	03	40	60	100	20

Note:

1. Project Phase-2:

CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide, if any, and a Senior faculty of the department. The CIE marks awarded for project work phase -2, shall be based on the evaluation of Project Report subjected to plagiarism check, Project Presentation skill and Question and Answer session in the ratio 50: 25: 25.
SEE shall be at the end of IV semester. Project work evaluation and Viva-Voce examination (SEE), after satisfying the plagiarism check, shall be as per the University norms.

