



Nitte Meenakshi Institute of Technology

(AN AUTONOMOUS INSTITUTION AFFILIATED TO VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELGAUM)

PB No. 6429, Yelahanka, Bengaluru 560-064, Karnataka
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Fax: 080 - 22167805



Department of Computer Science and Engineering

List of New Courses Introduced

Sl.No.	Course Title	Course Code
1	Software Testing	14CSE759
2	Multimedia Computing	14CSE822
3	Software Project Management	14CSO664
4	Introduction To Java Programming	14CSO666
5	Design of Analog and Digital Circuits	14CS32
6	Design Of Analog And Digital Circuits	14CS32
7	Mini-Project-I	14CS38
8	Design And Analysis Of Algorithms Laboratory	14CSL47
9	OS Laboratory	14CSL58
10	Big data Analytics	14CS71
11	Android Laboratory	14CSL77
12	Computer Graphics With OpenGL	14CSE561
13	Introduction To Web Technology	14CSE562
14	Introduction To Asp.Net	14CSE566
15	Python Programming	14CSE651
16	Android Programming	14CSE652
17	Internet Of Things	14CSE655
18	Data Analytics Using R Programming	14CSE656
19	Machine Learning	14CSE751
20	Introduction To C# Programming	14CSE752
21	Soft Computing	14CSE753
22	Analysis Of Computer Data Networks	14CSE761
23	Pattern Recognition	14CSE762
24	Agile Software Development	14CSE827
25	Service Oriented Architecture	14CSE828
26	Introduction To Python Programming	14CSO661
27	Introduction To Artificial Intelligence	14CSO662
28	Algorithms For Digital Image & Video Processing	14CSO665
29	Systems Simulation And Modeling	14CSO764
30	Artificial Intelligence And Neural Networks	14CSE653


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Sl.No.	Course Title	Course Code
31	Advanced Java Programming	17CSE566
32	Cyber Laws And Ethics	14CSE83
33	Artificial Intelligence	14CSE653
34	Cyber Physical Systems	14CSE754
35	System Simulation And Modeling	14CSE758
36	Big data Analytics Using R Language Laboratory	14CSL78
37	Introduction To Wireless And Mobile Systems	14CSE823
38	Virtual Reality	14CSE826
39	Data Mining And Machine Learning	17CS62
40	Project Management / Finance & Accounting	17CSH63
41	Client Server Systems	17CSE567
42	Information Storage And Management	17CSE658
43	Advanced Machine Learning	17CSE751
44	High Performance Computing	17CSE758
45	Network Application Development	17CSE821
46	Advanced Artificial Intelligence	17CSE822
47	Introduction To Mobile Computing	17CSO764
48	Introduction To Software Engineering	17CSO765
49	Advanced Algorithms	14CSE658
50	Web Technologies Laboratory	17CSL46
51	Computer Networks	17CS51
52	Python Programming Laboratory	17CSL58
53	Data Mining Laboratory	17CSL68
54	Parallel Programming Principles Laboratory	17CSL77
55	Green Computing	17CS81
56	Introduction To Visual Programming	17CSE561
57	Human Computer Interaction	17CSE568
58	Deep Learning	14CSE824
59	Introduction To Natural Language Processing	17CSE825

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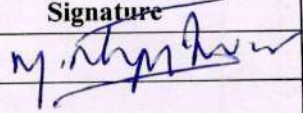
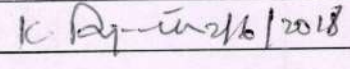
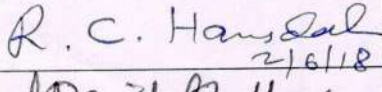
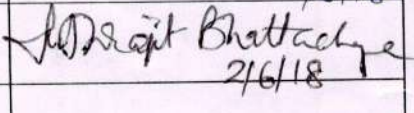
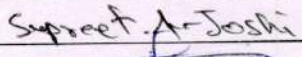

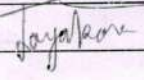
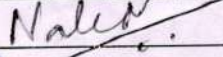
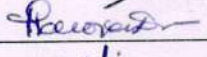

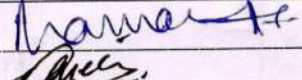

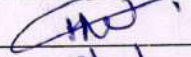
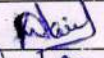
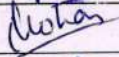
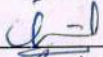
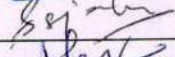


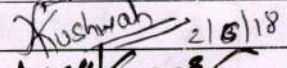
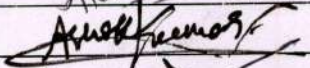

Academic Year

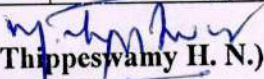
2018-19

Department of Computer Science and Engineering

The list of the BOS members

02/06/2018

Sl. No.	Name	Signature
1	Dr. M. N. Thippeswamy, Professor & HOD, CSE, NMIT	
2	Dr. K Chandrasekaran, VTU Nominee	
3	Dr. Rajanikanth, Former Principal, MSRIT	
4	Dr. T. G. Basavaraju, Principal, Govt. SKSJ Technological Institute, Bengaluru	
5	Prof. R. C. Hansadha, Professor, Department of Computer Science & Automation, IISc., Bangalore	
6	Dr. Subhrajit Bhattacharya, Program Manager, GE Global Research, Bangalore- IBM India	
7	Dr. Madhusudhan H. S., Software Development Manager, Oracle India Pvt. Ltd.	
8	Mr. Supreeth Joshi, System Architect, Subex Ltd., Bangalore	
9	Mr. Prashant Kumar Gupta, Consultant Engineer, Unisys	
10	Mr. Jayakara Kini, Principal Engineer, Unisys	
11	Dr. Jharna Majumdar, Dean R & D, NMIT	
12	Dr. Nalini N., Professor, CSE, NMIT	
13	Dr. SarojaDevi H., Professor, CSE, NMIT	
14	Dr. Venkatesh K. R., Professor, CSE, NMIT	
15	Dr. Ramachandra A. C., Professor, CSE, NMIT	
16	Dr. Vijaya Shetty S., Associate Professor, CSE, NMIT	
17	Dr. Nagaraj R., Assistant Professor, CSE, NMIT	
18	Ms. Archana Naik, Associate Professor, CSE, NMIT	
19	Mr. Mohan B. A., Associate Professor, CSE, NMIT	
20	Ms. Chaitra H. V., Associate Professor, CSE, NMIT	
21	Ms. Sujatha Joshi, Associate Professor, CSE, NMIT	
22	Mr. Afroz Pasha, Associate Professor, CSE, NMIT	
23	Ms. Asha H. V., Assistant Professor, CSE, NMIT	
24	Mr. Anil Kumar K., Software Engineer, Nutanix, Bangalore	
25	Mr. Ashok, Sr. Android Engineer, Wizely, Bangalore	
26	Ms. Deepthi J. Shetty, Assistant Professor, CSE, NMIT	


 (Dr. Thippeswamy H. N.)

Department of Computer Science and Engineering

Ref: NMIT/CSE/2017-18/ BOS/2

Date: 4/6/2018

MINUTES OF MEETING – BOS MEETING 2018

Time: 10.00 AM

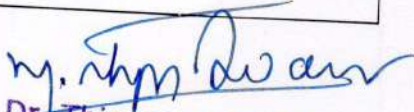
Venue: LAB 8, CSE DEPARTMENT, NMIT

Agenda for the meeting was as follows:

- Ratification of minor revisions in the syllabi of subjects (semesters 5th – 8th) of the 2014 batch.
- Ratification of the syllabi of 3rd and 4th semesters of the 2017 batch.
- Finalizing the syllabus of “*Concepts of C Programming*” to be taught in the 1st year for the 2018 batch.
- Approval of the BOE members.

Members present:

1	Dr. M. N. Thippeswamy, Professor & HOD, CSE, NMIT – Chairman BOS
2	Dr. K. Rajanikanth, Former Principal, MSRIT
3	Prof. R. C. Hansdah, Professor, Department of Computer Science & Automation, IISc, Bangalore
4	Dr. Subhrajit Bhattacharya, Program Manager, GE Global Research, IBM India, Bangalore
5	Mr. Prashant Kumar Gupta, Consultant Engineer, Unisys, Bangalore
6	Mr. JayakaraKini, Principal Engineer, Unisys, Bangalore
7	Mr. Supreeth Joshi, System Architect, Subex Ltd., Bangalore
8	Dr. Nalini N., Professor, CSE, NMIT
9	Dr. Venkatesh K., Professor, CSE, NMIT
10	Dr. Ramachandra A. C., Professor, CSE, NMIT
11	Dr. Vijaya Shetty S., Associate Professor, CSE, NMIT
12	Dr. Nagaraj R., Assistant Professor, CSE, NMIT
13	Ms. Archana Naik, Associate Professor, CSE, NMIT
14	Mr. Mohan B. A., Associate Professor, CSE, NMIT
15	Ms. Chaitra H. V., Associate Professor, CSE, NMIT


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16	Ms. Sujatha Joshi, Associate Professor, CSE, NMIT
17	Mr. Afroz Pasha, Associate Professor, CSE, NMIT
18	Ms. Asha H. V., Assistant Professor, CSE, NMIT
19	Mr. Ashok (CSE Alumni), Sr. Android Engineer, Wizely, Bangalore
20	Mr. Anil Kumar K (CSE Alumni), Software Engineer, Nutanix, Bangalore
21	Ms. Deepthi J. Shetty, Assistant Professor, CSE, NMIT

Invited Members:

- Dr. Sanjay H.A., Prof. and HoD, Dept. of ISE, NMIT
- Mr. Srinivas N., Assistant Professor, CSE, NMIT
- Mr. Satish E. G., Assistant Professor, CSE, NMIT
- Mr. Devesh, Alumni and Research Assistant, NMIT

Members Apologies:

1	Dr. Chandrasekharan, VTU nominee
2	Dr. T. G. Basavaraju, Principal, Govt. SKSJ Technological Institute, Bengaluru
3	Dr. Jharna Majumdar, Dean R & D, NMIT
4	Dr. SarojaDevi H., Professor, CSE, NMIT

Proceedings of the Meeting:

1. **Dr. Thippeswamy M. N.** welcomed the members. The purpose of the meeting was briefed by him. A quick insight into the department's achievements, milestones, student admissions and research activities was given through a short presentation.
2. **Agenda point #1:** The updated syllabi of the subjects were discussed.

Decision: The modified syllabi was ratified.

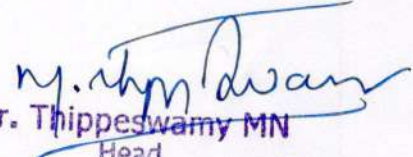
3. **Agenda point#2:**

Suggestions:

- i. **Dr. K. Rajnikanth**, mentioned that the number of credits for a semester should be maintained between 20 and 25. He also recommended that it would be better to have a lighter load in the 3rd and 4th semesters as it will aid the students in understanding the expectations better and be prepared for heavier loads in the subsequent semesters.

Action: The numbers of credits for each semester are distributed in the range 20-26. Refer to Scheme of 2017-18 batch.

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- ii. **Dr. Rajnikanth**, recommended reducing the credits of Engineering Mathematics II and IV to 4 from 5 and also reducing the credits for the Labs from 1.5 to 1.

Action: The credits for M-III and M-IV are reduced to 4 and Labs credits are also reduced to 1 from 1.5. Refer to Scheme of 2017-18 batch

- iii. **Dr. Rajnikanth** also suggested that the content of Engineering "Mathematics-IV" could be tuned to the requirements of CSE domain.
- iv. **Dr. Nagaraj** opined that "Object-Oriented Programming" could be introduced using JAVA instead of C++. However, **Mr. Prashanth Gupta** was of the view that a course on C++ is necessary for building a strong foundation, based on which other programming languages can be easily learnt. The decision of the committee was to maintain the subject as such.

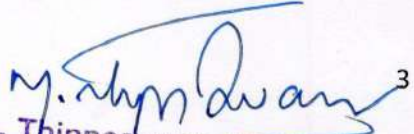
Action: OOP with C++ is included in the 3rd semester. Refer to Scheme of 2017-18.

- v. Committee opined that it is not necessary to have "Graph theory" as a separate subject as parts of it are covered in "DS" & "ADA" and the rest can be dealt in another subject. **Dr. Thippeswamy** opined that these sections of "Graph Theory" could be combined with "DMS". **Mr. Prashanth Gupta** reiterated that "DMS" and "GT" are both very essential and should be part of the syllabi.

Action: DMS and GT are combined and included in the 3rd semester for the 2017 and 2018 scheme.

- vi. **Prof. R. C. Hansdah**, recommended that the subjects "CO & MP" and the "Microprocessor Lab" could be moved to the 3rd semester from the 4th semester, and OS from 3rd to the 4th, while "OOP with C++" can be introduced in the 4th semester. He suggested that assembly language programming on 64bit processors be introduced in the "Micro-Processor" lab. He also recommended that students must study "Operating System" in the 4th semester rather than in the 3rd. He also suggested that "DS" & "C++" could be offered in the 1st year itself. However, after due consideration this suggestion was dropped as it could put the lateral entrants to a disadvantage.

Action: Operating System is moved to the 4th semester. MP lab is introduced in the 4th semester rather than 3rd. CO & MP are moved to the 3rd semester.


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- vii. Many members were of an opinion to separate “Theory of Computation” and “Compiler Design” since both were vast subjects and students need to study both in depth.

Action: Theory of Computation is familiarised to the students in the 5th semester and Compiler Design in the 7th semester.

- viii. **Mr. Anil Kumar**, Alumni Member expressed that as “Mobile Application Development” is more a hands-on course it can be better taught in the Laboratory.

Action: Mobile Application Development is included with practical sessions for better understanding of the course.

- ix. **Mr. Prakash** and few members gave suggestions regarding the elective subjects to be offered. They were of an opinion that the elective list must have subjects related to domains in which industries work. However, **Mr. Anil Kumar** observed that due to the broad spectrum of specializations required by the various industries it may not be feasible to cater for all of them.

- x. **Dr. Subhrajit** and **Dr. Rajanikanth** mentioned that it would be advisable to revisit the allocation of credits and offering of the subjects so that students can get an in-depth knowledge in certain fundamental subjects rather than making it very broad based.

Action: The contents of the subjects are planned in accordance to the credits allotted.

- xi. **Dr. Rajanikant** suggested to have a CSE faculty teach the “Discrete Mathematics Structures” subject.

Action: Dr. Thippeswamy M. N. affirmed that, faculty from the CSE Department will teach DMS for one of the sections.

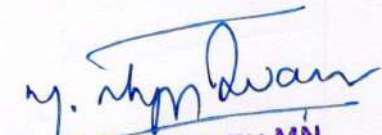
- xii. **Mr. Jayakar Kini** expressed that concepts of Networking and Virtualization could be included in the “Operating System” course. The Introduction of Networking concepts into the “Operating System” course would be considered.

Action: Virtualization is introduced in the course Cloud computing.

- xiii. **Prof. Hansdah** was keen on introducing Red-Black tree in “Data Structures”.

Action: The syllabus will be updated and the concept will be included.

- xiv. **Mr. Ashok**, suggested that the students should be exposed to NOSQL.


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Action: Dr. Thippeswamy M. N. has planned to organize a course or workshop on No SQL (mongo DB).

- xv. BOS members expressed that subjects in which new programming languages are being introduced should have a fair bit of lab component to reinforce the learning of the concepts. **Dr. Rajanikanth** was of the view that for these subjects the L-T-P distribution can be 2-0-1 rather than 3-0-0.
- xvi. **Mr. Ashok** expressed that C# knowledge is required for work in the area of "Virtual Reality" which is gaining traction in the industry.

4. **Agend#3:**

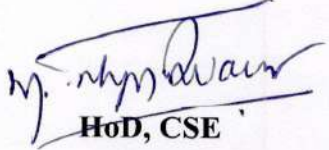
- i. **Dr. Rajanikanth** was of the opinion that the students should get introduced to debugging programs right in the first semester when they get introduced to the "Concepts of Computer Programming".

Action: The debugging concepts are included in the syllabus.

- ii. It was also noted that as per 2018 scheme since the just 135 credits are to be distributed across the last 6 semesters instead of 150 in the earlier curriculum, it should be ensured that the content of the courses should be appropriately reduced and not just the credits allotted to a particular course.

Approval of Equivalence Courses: Sheet is attached.

Dr Nalini N. proposed the Vote-of-thanks. She also requested the members for their continual support.

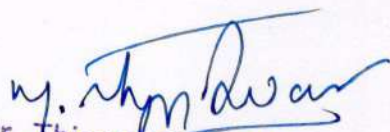

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**Comments & feedback on the BOS Meeting held on 2nd June 2018 – By
Mr. Anil Kumar (Alumni member)**

These comments are more on a perspective of an Alumni rather than a BOS Member, but they're mainly targeted to convey what/how can we relate the subjects that we're teaching in the colleges to the Real world. Please assume the comments about the subjects to be same for the other schemes as well (for e.g. comment for Data structure subject in 2014 scheme hold same for 2017 & 2018 scheme as well)

- **2014(Revised) o 14CS33(Data Structures)** – They play a great role in interviews. Interviewer always looks for how the interviewee decides the DS suited for the problem he puts up. Advanced Data structures like linked list, doubly linked list, trees is what'll help the person excel.
 - **14CS35(Unix & Shell)** – As Linux and it's other distribution are widely adopted in the World along with Windows as the counterpart, there's a need for students to learn these commands better. Most of the IT companies provision linux based machines for the developers to work on and it's a great advantage to a developer if they're well versed with linux and can improve their efficiency in work. Please try to make this integrate into lab as a theory for this subject is not of much use until student get to know those commands in practical.
 - **14CS32(Design of Analog and Digital Circuits)** – They sound like Electronics subject to a student, but this is the subject where they can improve their usages of proper conditions/logical gates and ultimately a better way to write those if/else statements. Plus if they're targeting IoT for their further stream, they should have a good background with the connections & devices. ○ **14CS44(Graph Theory)-** This plays a good amount of role in Machine Learning and networking.
 - **14CS43(ADA)** – A proper algorithm is what makes any application better, faster and optimized. This is also one of the key subject which has a major importance in interviews. Interviewers always put up a problem statement which'll have various solutions to it. So it lies on the interviewee's knowledge to find out or at least get closer to the best fit solution to it.


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○ **14CS53(DBMS)** – There are many companies which do need people with good experience with the Databases queries so that they can write them efficient queries.

○ **14CS64(Data Warehousing/mining)** – This is more of a Elective subject to those who deep dive into the Data and data base related fields, we should think on moving this as an elective.

○ **14CSE651(Python Programming)** –

Python has come up as one of the popular and cross compatible language, making it easier for people to adapt.

We should think of moving this as a core subject. Being unbiased from the work I do:

- It's very easy to do code in python. There are loads of modules which make life easier for anyone to code in python.
- IoT based devices are majorly either C++ or Python.
- Python provides modules that work well with Image Processing, Machine Learning algorithms, Big Data, OS based sys calls etc.

Industry Trends: Infosys do train their new hires on python as there are many projects of theirs which are built on python.

If you love watching videos on YouTube, then python is the language which was chosen to make that possible.

○ Think about swapping 14CS61 & 14CS55 as it'll be difficult for students to learn JAVA along with Android programming in 6th semester. They need a base of JAVA to do Android Programming. Would be better if we swap it with 14CS55 in 5th semester. It'll be difficult for students to understand 14CS55 as it's dependent on 14CS51.

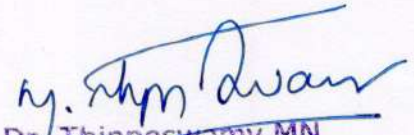
○ We'll get more time to cover topics in IoT if Python is made a compulsory subject. And with the vast knowledge of IoT across the world. We can reuse a Unit's time to more topics. ○ **14CS562(Web Technologies)** – Happy to see that we're covering HTML as a lab session, but the content what we teach should meet Infosys' requirement if we're targeting that. They would need engineers who can connect Programming languages to the Web stack.

○ **14CSE653(AI)** – Happy to see this as an elective for those interest in this domain. I couldn't see genetic algorithm course in the syllabus. Hope to have some bits and pieces in this subject.

• **2017 Scheme** ○ **17CS62(Mobile App development)** – Please try to give more weightage to the practical proof in this subject. Students would find it difficult until they see those applications created in NMIT.

○ **17CSE561(CG)** is a good subject to start the base with if students are interested in **17CSE656(AR).**

• **2018-2019 Scheme:**

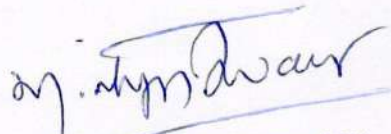

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- *It's good that we have two segments of Computer Concepts and Programming Subject.*
- **Additional Comments:**
 - *There are students who might have a computer at home, but never dared to open it up and look into the components of a computer. IT would be great to welcome the Third semester students with a demonstration with an open cabinet and explain them the peripherals of a computer. It'll help them understand computer architecture better. (This can also be done in First/Second semester, if we want to cover all of the engineering students with this basic knowledge, and then have a deep dive session for ones in third semester.).*
 - *A poll can be taken from the CSE students regarding this and then can be decided if a demo is required.*

I've seen a great improvement in the college in terms of the new Lab infrastructure set up when I came in for the meeting today.

Action: Most of the above suggestions from Mr. Anil Kumar will be considered and implemented in the curriculum.



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Govindapura, Yelahanka
Bengaluru-560 064

Dr. Thippeswamy MN
Head
Department of Computer Science & Engg.
Nitte Meenakshi Institute of Technology
Govindapura, Yelahanka
Bengaluru-560 064

Academic Year
2017-18



Nitte Meenakshi Institute of Technology

(AN AUTONOMOUS INSTITUTION, AFFILIATED TO VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM) , (A Unit of Nitte Education Trust, Mangalore)
PB No. 6429, Yelahanka, Bangalore 560-064, Karnataka
Telephone: 080- 22167860, Fax: 080 - 22167805



06-05-17

Department of Computer Science and Engineering

BOS Meeting on 6th May'17

Members Present:

SL.No	Name	Designation	Organization	Position	Signature
1.	Dr.THIPPESWAMY M N	Professor & Head,CSE	NMIT	Chairperson	
2.	Dr.K.RAJNIKANTH	Former Principal	MSRIT,Bangalore	Academician	
3.	Dr.K.CHANDRASHEKHARAN	Professor,CSE Department	NITK,Suratkal	VTU Nominee	
4.	Dr. TG BASAVARAJU	Principal	Govt SKSJ Technological Institute B'lore - 560 001	Academician	
5.	Dr.RAGHUNATH G	Co-founder & CTO	Senzwiz Technologies Pst Ltd	Member(Industry)	
6.	Dr. SRIDHAR T.R	Research Group Head Product Lead Manager of OSS, Prod	Nokia, Bangalore	Member(Industry)	
7.	PROF.RANGANATHA SETTY	Dean (Academics)	NMIT	Member	
8.	Dr.JHARNA MAJUMDAR	Dean (R&D),Prof and Head CSE(PG)	NMIT	Member	
9.	Dr. NALINI . N .	Professor ,CSE	NMIT	Member	
10.	Dr. SAROJA DEVI	Professor ,CSE	NMIT	Member	
11.	Dr.VENKATESH K	Professor ,CSE	NMIT	Member	
12.	Mrs. VIJAYA SHETTY S	Associate Professor,CSE	NMIT	Member	
13.	Mrs. ARCHANA NAIK	Associate Professor,CSE	NMIT	Member	
14.	Mrs. SUJATA JOSHI	Associate Professor,CSE	NMIT	Member	
15.	Mrs. ASHA HV	Assistant Professor,CSE	NMIT	Member Secretary	
16.	Mr. MOHAN BA	Associate Professor,CSE	NMIT	Member	
17.	Mr. LIKHITH PONNANNA P B	Co-founder & CEO,	WOOF cabs, Wootees Bangalore, Vedoot	Alumni	
18.	Mr. ASHOK KUMAR	Software Engineer	DUNST technologies Pvt ltd, Bangalore	Alumni	

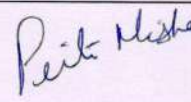
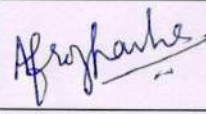
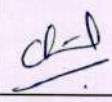
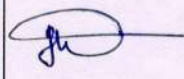

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Microsoft

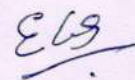
Alumni
Dr. Thippeswamy MN
Head

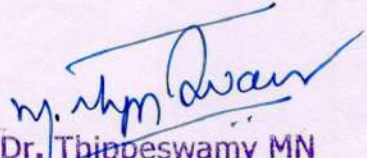
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Special Invitees

SL.No	Name	Organization	Signature
1	Dr. Kumar Rajamani	Manager (Technical), Robert Bosch Engineering and Business Solutions Ltd, Bangalore	
2	Dr. Sanjay HA,	Prof & HoD, ISE, NMIT	
3	Dr. Priti Misra,	Associate Professor, CSE, NMIT	
4	Mr. Afroz Pasha	Associate Professor, CSE, NMIT	
5	Mrs. Chaitra H V	Associate Professor, CSE, NMIT	
6	Mr. Nagaraj S R	Assistant Professor, CSE, NMIT	
7	Mrs. Nirmala J S	Assistant Professor, CSE, NMIT	

8- E.G. Satish Assistant professor, CSE
 a Meenakshi NMIT
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 Dr. Thippeswamy MN
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(An Autonomous Institution)
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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Board of Studies- 2017-18

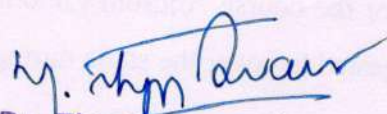
06-05-17

Members Present:

Sl No	Name
1	Dr.THIPPESWAMY M N
2	Dr.K.RAJNIKANTH
3	Dr.K.CHANDRASHEKHARAN
4	Dr. TG BASAVARAJU
5	Dr.RAGHUNATH G
6	Dr. SRIDHAR T.R
7	PROF.RANGANATHA SETTY
8	Dr.JHARNA MAJUMDAR
9	Dr.NALINI N
10	Dr. SAROJA DEVI
11	Dr.VENKATESH K
12	Mrs. VIJAYA SHETTY S
13	Mrs. ARCHANA NAIK
14	Mrs. SUJATA JOSHI
15	Mrs. ASHA H V
16	Mr. MOHAN BA
17	Mr. LIKHITH PONNANNA P B
18	Mr. ASHOK KUMAR
19	Mr CHARAN M S
20	Mr E G SATISH
21	Mrs MEENAKSHI
22	Mrs JAGADEVI N K
23	Mr SRINIVAS N

Members Apologized:

Sl.No	Name
1.	Dr.K.CHANDRASHEKHARAN
2.	Dr.RAGHUNATH G
3.	Mrs CHAITRA H V
4.	Dr KUMAR RAJAMANI


Dr. Thippeswamy MN
Head

Department of Computer Science & Engg.
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Agenda of the Meeting:

1. Approval of scheme and syllabus of 7th and 8th semester, for the academic year 2017-18.
2. Ratification of minor revision in scheme and syllabus of 3rd, 4th, 5th and 6th semester of 2016 and 2015 batch respectively.
3. Approval of addition of new subjects as electives for the 2014 batch scheme and syllabus.
4. Approval of BOE members for the academic year 2017-18
5. Suggesting changes to the Syllabi to attain the COs, POs & PEOs.
6. Any other matter if any.

Minutes of the Meeting:

1. Professor Ranganath Shetty, Dean Academic welcomed all the members for the meeting.
2. The minutes of the previous BOS meeting was read out by Dr Thippeswamy M N in which the scheme and syllabus of 3rd -6th semester was approved.
3. Dr Thippeswamy M N briefed about the proposed syllabus of 7th and 8th semester was discussed.
4. Experts felt that the course Compiler Design should be made as core subject instead of as an elective subject. The contents in the syllabus can be made modest by choosing the relevant topic and by considering teaching the same in detail. Also, they suggested to overcome the text based or historical methods of teaching by inculcating some practical oriented teaching with the help of any tool. (Ex: multicore compilation – Intel)
5. Dr. T G Basavaraju, suggested to rename the course Computer and Cyber Security as Cyber Security and Digital Forensics and to include lab/practical exercises as part of the syllabus.
6. For the course Android Laboratory, since the theory is not included in the syllabus, experts suggested to cover the same during lab sessions.

7. Experts suggested that, among the courses Multimedia Computing and Virtual Reality, Multimedia Computing can be removed and Virtual Reality can be retained. Mr Ashok suggested to include the concepts of Augmented Reality in the syllabus of Virtual Reality.

8. Dr. Rajanikanth suggested that we cannot include industry sponsored subjects in the syllabus and a separate note has to be made for such subjects.

9. Mr Sridhar T.R, suggested to include Cloud Networking concepts in the syllabus of the course Cloud Computing.

10. Dr. Rajanikanth and Mr Sridhar T.R went through the syllabus of EDM & IPR and suggested that IPR issues and concept of licensing are specific with respect to Computer Science and Electronics & Communication. If possible reframe the syllabus with respect to the department rather than keeping it common at college level.

11. Dr. Rajanikanth suggested reducing the lab hours to maximum of 2-21/2 hours.

12. Dr. T G Basavaraju and Mr Sridhar T.R felt that the syllabus for the course Pattern Recognition is very old and suggested to reframe the syllabus.

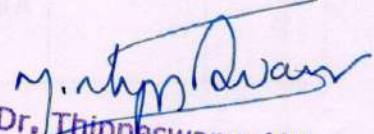
13. Dr. T G Basavaraju felt that the text book for the course Mobile Computing has to be replaced and the concepts of 3G and 4G have to be included in the syllabus.

14. Mr Sridhar T.R felt the course Analysis of Computer Networking is very heavy and suggested to modify/replace the unit 3 in the syllabus.

15. Dr. Rajanikanth suggested that the syllabus of the course Software Testing is very old. And also, he suggested that, it has to be tool based rather than only theory.

14. Mr Sridhar T.R gave the input to include the concepts Server Less Computing in the course Service Oriented Architecture.

15. Dr. Rajanikanth suggested having a relook at the courses Principles of Parallel Programming and Advanced Computer Architecture syllabus.


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16. Experts felt that few concepts in the courses Cyber Laws and EDM & I PR are overlapping and suggested to look at the issue.

17. Dr. Rajanikanth and Dr. T G Basavaraju felt that COs has to be defined correctly for all the subjects. PSOs not defined for all the subjects. Co-PO mapping has to be done correctly.

18. Dr. T G Basavaraju felt that prerequisites have to be removed for the course System Simulation and Modeling.

19. Dr. Rajanikanth suggested having a relook at the syllabus for the course Distributed Systems and Transaction Processing.

20. Dr Sanjay H.A., suggested to include Android Programming as core subject.

20. Suggestions were given to change CO-PO mapping for all subjects.

21. The committee approved the list of BOE members for the academic year 2017-18.

22. Finally, Professor Ranganath Shetty, Dean Academic, thanked all the members present for their valuable suggestions.

Concluding Remark: All the suggested corrections are incorporated for:

The points to be incorporated in the scheme and syllabus of 2014 batch are as follows:

2014 scheme

Sl. No	Semester	Theory	Labs	New
1.	8	Principals of Parallel Programming		Include tool based component.
2.	7	Cloud Computing		Cloud Networking concepts have to be included in the syllabus
3.	6	Software Engineering		Project/Practical Based
4.	6	Computer Networks –II		Concepts of IPv6 have to be incorporated in the syllabus.
5.	4	Design and Analysis of Algorithms		Refine the syllabus based on the suggestions given by the expert committee.

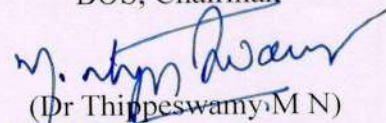
General Comments:

1. All CO's must be re-visited to match Bloom's Taxonomy.
2. Lab program list should not be case specific but must be generic. Can have case study where more practical problem can be introduced.

Ratification of changes in 2010 syllabus

1. JAVA – include Java8 concepts.
2. Software Engineering –Include CMM, CMMI model and make it practical oriented. Any tool can be used.
3. Computer Networks-II –Multimedia concepts can be omitted and IPV6 can be included in detailed. Reassign the text books.
4. Android Programming – Can be considered to make it as core.
5. Object Oriented Programming – Standard C++ Class. Not to include in examination. Look for features.
6. Design and Analysis of Algorithms - Back tracking and branching algorithms are important. Replace the text book.
7. Computer Organization and Architecture – Refer new edition of the text book.

BOS, Chairman



(Dr Thippeswamy MN)

Dr. Thippeswamy MN
Head

Department of Computer Science & Engg.
M. S. R. Meenakshi Institute of Technology
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Bengaluru-560 064

Academic Year
2016-17

Minutes of the BOS- Committee Meeting

Date: 11th June 2016

Venue: Meeting Hall, Placement Center, NMIT

External Members:

1. Dr.Rajnikanth. K External Member (Academic)
2. Mr.Avinash Patel External Member (Industry)
3. Dr.Raghunath.G External Member (Industry)

Alumni:

1. Mr.Janardhan
2. Mr. Srinivas B.P

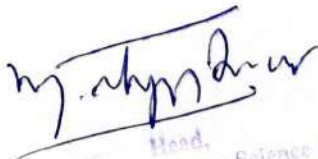
Internal Members:

1. Prof. Ranganatha Shetty; Dean (Academic)
2. Dr.JharnaMajumdar; Dean (R&D) &HoD (CSE-PG)
3. Prof. K. Venkatesh; HoD(CSE - UG)
4. Prof. M.N. Thippeswamy (CSE)
5. Prof. H. Sarojadevi
6. Dr.Prashanth (ECE)
7. Mr.Prashanth (ME)
8. Mr. Mohan (BOS coordinator)

Points discussed:

1. Prof. Ranganatha Shetty welcomed the committee members and requested them to review the syllabi of the CS & IS departments specifically pertaining to 5th& 6th Semester and give their valuable suggestions for improvement as required.
2. Prof. Rajnikanth made the following general observations:
 - a. POs have recently been defined by NBA. We will have to adopt the same, no deviations are permitted. Designation of POs should be numerical instead of alphabetical
 - b. PSOs have to be defined (at least 2 if not 4)
 - c. COs to be mapped to PSOs and POs appropriately.
3. Dr.JharnaMajumdar presented the syllabi of courses titled "Robotics Engineering-LegoMindstorm&Tetrix" and "Algorithms for Image and Video Processing (AIVP)".
4. Rename the course titled "Java" to "Application development with Java" or "Object Oriented development with Java"
5. In the "Introduction to Web-Technology" course introduce "Server stack"
6. Split "Automata theory & Compiler design" to two separate courses. Namely "Formal Languages and Automata Theory" and "Compiler Design". --- In FLAT introduce Turing Machine and the Halting problem. Remove protracted discussions on Pumping Lemma.

7. In DBMS :
 - a. RDBMS --- Restrict discussions on Normal forms to the 3rd NF only.
 - b. Introduce SQL, PLSQL, NoSQL
 - c. Also discuss about Data Base Administration
8. DBMS – Lab:
 - a. Introduce exercises to demonstrate the ACID properties
 - b. Introduce exercises on DBA
 - c. Introduce concepts of MongoDB and NOSQL
9. Computer Networks:
 - a. Remove discussions on ATM
 - b. Introduce Switch Architectures, MPLS etc. which are more recent.
10. OS Lab: Slightly modify to include some aspects of installation and configuration.
11. CORE-Java: Introduce concepts of Servlets, JDBC, Exception handling etc.
12. Modify the scheme of the Java course to reflect the Mini-project which is a part of this course.
13. Software Engineering: Introduce basic concepts of Maintenance
14. Offer "CG with Open GL" as an Elective instead of as core subject. In its place introduce
15. To introduce Agile Software Development as program elective for 8th semester for the
16. Make Microprocessor more practical oriented and try to cover whatever is done in the MP-Lab to be demonstrated as a part of the course itself. Possibly introduce a course project that can be implemented on MP development platform.


Head,
Department of Computer Science & Engg
Nitte Meenakshi Institute of Technology
Department of Gurmatapara, Yalahanka
Nitte Meenakshi, Bangalore - 560 064
Gowdangara, Yalahanka
Bangalore - 560 064

Dear Members,

We thank you for the continuous support you have extended during the Board of Studies meeting held on 11th June 2016 at NMIT, Bangalore. In continuation with this meeting the following are the new subjects / modifications introduced for the even semester 2016-17:

1. Artificial Intelligence, 6th Semester, Program Elective
2. Big Data & Analytics , 8th Semester, Program Elective
3. Essential of Information Technology, an non-credit course offered by Infosys for Infy recruiters.
4. Python Programming as an Open elective subject for 6th Semester students.

We hereby request you to approve the same for the smooth conduction of the courses offered.

Kindly acknowledge the mail.

Syllabus is sent with this mail for your reference.

Thanking you,

Academic Year
2015-16

NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

(AN AUTONOMOUS INSTITUTION)
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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Board of Studies Meeting-- Academic Year 2015-16


Date: 20-06-2015

Minutes of Meeting

The BoS meeting was held in new placement cell on 20/06/2015 at 10:00 A.M. The following members attended the meeting

Sl No	Committee Members	Position
1	Dr. Dinesh K Anvekar Prof & Head(UG,CS&E), NMIT	Chairperson
2	Dr. Jharna Majumdar Prof & Head(PG,CS&E), Dean(R&D), NMIT	Member
3	Dr. K. Rajnikanth Ex-Principal, MSRIT, Bangalore	Member
4	Dr. K. Chandrasekaran Professor , CSE, NITK, Suratkal	VTU Nominee
5	Dr. Prahlad Rao BB Joint Director, CDAC, Bangalore	Industry Expert Member
6	Dr. Amit Kale, Research Group Head, Imaging and Computer Vision, Siemens Corporate Research and Technology, Bangalore	Industry Expert Member
7	Mr. Sethunathan, Cell-Stream Technologies, Bangalore	Industry Expert Member
8	Mr. Arun Thakur Senior Vice President & Head InfoVision, Bangalore	Industry Expert Member
9	Dr. Thippeswamy M N Professor, Dept. CS&E, NMIT	Member
10	Dr. Sanju V Assoc. Prof., Dept. CS&E, NMIT	Member
11	Mrs. Vijaya Shetty S Assoc. Prof., Dept. CS&E, NMIT	Member
12	Mrs. Prathibha Ballal Assoc. Prof, Dept. CS&E, NMIT	Member
13	Mrs. Kavitha Sooda Assoc. Prof., Dept. CS&E, NMIT	Member
14	Mrs. Sujatha Joshi Asst. Prof., Dept. CS&E, NMIT	Member
15	Mr. Janardhan Karanth	Alumni Member

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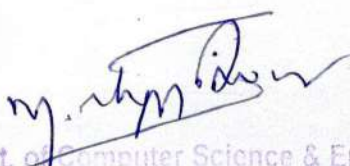
	Technical lead – Development, Calsoft Labs (India) Private Ltd, An Alten Group company, Bangalore	
16	Mr. Mohan BA Asst. Prof, Dept. CS&E, NMIT	Member Secretary

Agenda of the Meetings:

1. Finalizing scheme of 3rd to 8th semesters for 2014 Batch
2. Finalizing Syllabus of 3rd & 4th Semester for 2014 Batch
3. Ratification of minor revision in subjects of 2010 Batch Syllabus, if any
4. Approval of addition of new subjects as electives for the 2010 Scheme and Syllabus
5. Approval of BOE members for the academic year 2015-16.
6. Suggesting changes to the Syllabi to attain the COs, POs & PEOS

Minutes of the Meeting:

1. Principal, Dr. H.C. Nagaraj, welcomed all the members for the meeting.
2. Prof. Rajanikanth made it clear to all the members in the BOS, the university rules governing autonomous colleges for framing scheme and syllabus, with regards to credit, distribution of the credits among the various category of the subjects and also the rules for providing self study component as part of the subject etc.
3. Dr. Chandarskeran suggested to combine EC and LD to a single subject. Also he suggested to increase the credits for the lab across all semesters.
4. The BOS members were of the opinion that the numbers of theory subjects were more in all the semesters there by not having enough emphasis for application / implementation of the concepts learnt. Also they opined that 1.5 credits were less for a practical lab.
5. Dr. Rajnikanth suggested having 4 hours lab and making it equivalent to 2 credits.
6. Dr. Amit and Mr. Arun suggested that students can have their startup company and spend more time at industry for doing better projects.
7. Front end design project is a good start at 3rd semester. In the 5th Semester, project work emphasizing on design and analysis can be introduced was a suggestion by Prof. Rajanikanth.


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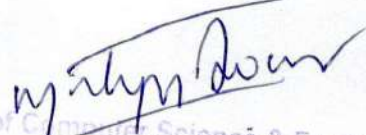
8. Mr. Jarandhan Karanth suggested to reduce the course content and have more hands-on. He was of the opinion that few subjects were obsolete when compared to the industry requirement. Also he stressed on the need for students to formulate problems from real world scenarios and come up with multiple solutions to a problem which will broaden their overall thinking
9. Prof. Seethunahan also suggested to have more hands-on work.
10. Dr. Amit Kale touched upon encouraging students to take up courses from *Coursera*(free online courses), as a self study component, for credits.
11. To an opinion of Dr. Amit Kale, that 80 marks was very high for written evaluation (30 marks MSE + 50 SEE), Dr. Rajanikanth indicated that the 50 mark CIE component can be variably adjusted to suit the needs of individual subjects.
12. Dr. Prahlad Rao suggested that graph theory must include applications of graph theory in computer science.
13. Dr. Chandrasekaren was of the opinion that credits can be given to patentable work, product design.
14. The committee approved the list of BOE members for the academic year 2015-16.
15. Mr Arun Thakur stressed on the importance of teaching people the concept of self learning. He also stressed on the need for talks from industry experts.
16. Dr. Rajanikanth suggested the importance of project work which enables project planning , recording milestones etc., to achieve some programme objectives(POs) ,which cannot be achieved through any other subject
17. The subject "Robotics Engineering – LEGO Mindstorms and TETRIS" was introduced as open component. It had 3 credits with 40% theory component and 60% Lab component.
18. Suggestions were given to change CO-PO mapping for all subjects.
19. The BOE member panel for the academic year 2015-16 was approved.
20. Finally, Dr. Sanjay H A, HOD, Department of ISE, thanked all the members present for their valuable suggestions.

Concluding Remark: All the suggested corrections are incorporated for:

The points to be incorporated in the scheme and syllabus of 2014 are as follows:

2014 scheme

Sl. No	Semester	Theory	Labs	New
1	3	<ul style="list-style-type: none"> Combining EC and LD as one subject with 4 credits with appropriate modification in the syllabus. Less weightage to be given to EC subject which would comprise of MOS & op-amp in a single unit. The rest of the 4 units can be dedicated to logic design. Linear algebra topics to be covered in-depth. Data Structures should have Keninghan & Richie instead of Balagurusamy as the first Text Book. 	2 credits per lab	Inclusion of a mini project with 3 credits
2	4	<ul style="list-style-type: none"> Credits for OOP theory to reduce it to 3. The mini project which was take of the theory can be moved to OOP Lab. Applications of Graph theory in CSE must be one unit. The syllabus has to be modified appropriately. Teaching faculty for DMS & GT should be from CSE. In microprocessor have at least 2 units of ARM or completely 8086 processor only. Syllabus has to be modified accordingly. 	2 credits per lab	
3	5	OS must have 3 credits	2 credits per lab	
4	6	Change title of Programming in Visual C# for .NET technology to	2 credits per lab	


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		.NET and Visual C# having 3 credits		
5	7	Web Technologies must be 3 credits	2 credits per lab	
6	8	The syllabus for Big Data & analytics proposed by Infosys which is an industry oriented subject needs modifications as the content is too heavy.	-	-

General Comments:

1. All CO's must be re-visited to match Bloom's Taxonomy.
2. Lab program list should not be case specific but must be generic and can have case studies where more practical problem can be introduced.

Ratification of changes in 2010 syllabus

3. CN-I (Core) and Analysis of Computer Networks (as a new program elective) were accepted without any changes.
4. CN-II syllabus – to remove ATM Networks completely and add troubleshooting, tool to be used instead.
5. Python programming was approved as a new program elective, with the said changes. To merge the 5

for m. anvekar
 (Dr.Dinesh K Anvekar)
 Chairperson, BOS

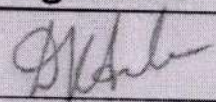
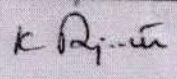
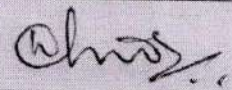
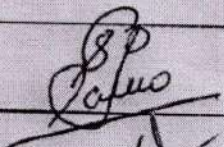


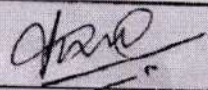
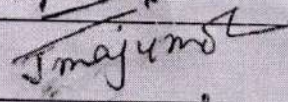
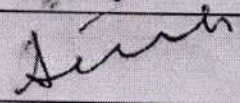
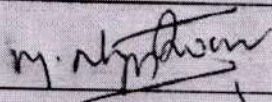
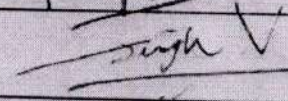
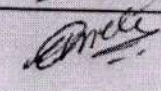
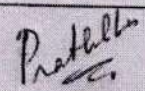
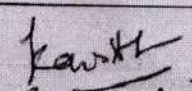
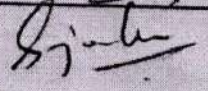
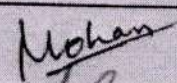
Nitte Meenakshi Institute of technology

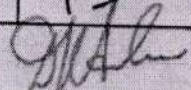
Department of Computer science & Engineering

BOARD OF STUDIES

Meeting Date:20/06/2015

Venue: New placement Cell

Sl. No.	Committee Members	position	Signature
1	Dr. Dinesh Anvekar Prof. & head, CSE, NMIT	Chairperson	
2	Dr. RajaniKanth Ex-Principal, MSRIT, Bangalore	Member (Academic)	
3	Dr. K. Chandrasekaran Professor, CSE, NITK, SurathKal	Member (VTU Nominee)	
4	Dr. M Kirshna Banga Prof and Chairman, DCSE Dayanand Sagar University	Member (Academic)	—
5	Dr. Prahlad Rao BB Joint Director, CDAC, Bangalore	Member (Industry)	
6	Dr. Amit Kale Research Group Head, imaging and Computer Vision, Siemens Corporate Research and technology, Bangalore	Member (Industry)	
7	Mr. Arun Thakur Senior Vice President & head InfoVision, Bangalore	Member (Industry)	
8	Mr. Jnanardhan Karanth Calsoft Lab, Bangalore	Member(Alumina)	
9	Dr. Jharna Majumdar Dean R & D, Prof. Dept of CSE	Member	
10	Dr. Sathunathan Prof. Dept. of CSE, NMIT	Member	
11	Dr. Thippeswamy MN Prof. Dept. of CSE, NMIT	Member	
12	Dr. Sanju V Prof. Dept. of CSE, NMIT	Member	
13	Mrs. Vijay Shetty Prof. Dept. of CSE, NMIT	Member	
14	Mrs. Prathiba Ballal Prof. Dept. of CSE, NMIT	Member	
15	Mrs. Kavitha Sooda Prof. Dept. of CSE, NMIT	Member	
16	Mrs. Sujatha Joshi Prof. Dept. of CSE, NMIT	Member	
17	Mr. Mohan BA Prof. Dept. of CSE, NMIT	Member	


Dr. Dinesh Anvekar,
Chairperson

Academic Year
2014-15

NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

(AN AUTONOMOUS INSTITUTION)
(AFFILIATED TO VISHVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM)

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Board of Studies - Academic Year 2014-15

Date: 5th July 2014

Members Present

Sl.No	Members
1.	Dr. Dinesh K Anvekar (Chairperson)
2.	Dr. Jharna Majumdar
3.	Dr. Nalini N
4.	Ms. Sanju V
5.	Ms. Kavitha Sooda
6.	Ms. Asha H V
7.	Ms. Kavya B S
8.	Dr. Rajanikanth
9.	Dr. M Banga (Industry Representative)
10.	Mr. Janardhan Karanth (Alumni)
11.	Sachin Kumar R S, IT Specialist, IBM Academic Initiative, IBM India Pvt Ltd
12.	Dr. K Chandrasekharan (VTU Nominee)

Members Apologize

Sl.No	Members
1.	Prof. Ranganatha Setty
2.	Ms. Sujatha Joshi
3.	Dr. Venugopal K R
4.	Ms. Prathibha Ballal
5.	Ms. Vijaya Shetty S
6.	Mr. Mohan B A (Member Secretary)

Nalini N
Dept. of Computer Science & Engg.
Nitte Meenakshi Institute of Technology
Yelahanka, Bangalore-560 064.

Agenda of the Meetings:

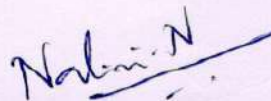
1. Approval of scheme and syllabus of Computer Concepts and C Programming (1st / 2nd Semester), for the academic year 2014-15.
2. Suggesting changes in Subjects OOMD, and EDM & IPR
3. Faculty Development Programs in few Research areas.
4. Approval of BOE members for the academic year 2014-15.
5. Approval of Equivalence of Subjects Deciding Committee for the academic year 2014-15.
6. Approval of Equivalence Subjects for students taking admission from autonomous to autonomous batch for the academic year 2014-15.
7. Suggesting changes to the Syllabi to attain the COs, POs & PEOS
8. Going through the statistics of Alumni survey & Program Exit survey provided by programme co-ordinator

Minutes of the Meeting:

1. C programming and MATLAB combining is not a good idea. As it is a sequel and vector concept is not good practice to combine.
2. Institute level course for matlab SEPARATE AND COMPULSORY FOR ALL DISCIPLINE
3. Content can be based on branch subjects only C as a course subject
5. Unit-1 (only for 2 hours)
6. Puzzled kind of program can be introduced.
7. C traps and pitfalls.
8. Course outcomes need to be modified – program on open ended. Don't mention any method for solving problem. Give the problem and let the student figure it out.
9. Openness into the problem.
10. EDM and IPR- add few case studies.
11. OOMD- instruct problem and practical issues.
12. cloud computing- big data and analytics, hands on issues, can have FDP
13. CAMP – cloud, mobile, application development, security (IBM expectation)

Concluding Remark: All the suggested corrections are incorporated for:

1. Scheme and syllabus of 1st / 2nd semester, Computer Concepts & C Programming, for the academic year 2014-15.
2. CO-PO mapping for the suggested subjects were made.


Dept. of Computer Science & Engg.
Nitte Meenakshi Institute of Technology
Yelahanka, Bangalore-560 064.

(Dr. Dinesh K Anvekar)
Chairperson, BOS

Approved BOE members for the academic year 2014-15

Sl. NO.	Name	External/ Internal
1.	Dr.Varaprasad G,Asst.Prof, Dept. of CSE,BMSCE,Bangalore	External
2.	Dr. Dinesh K Anvekar Prof & Head, Dept. of CSE,NMIT,Bangalore	BOE Chairman
3.	Dr. Nalini N. Professor, Dept. of CSE,NMIT,Bangalore	Internal
4.	Dr. Jharna Majumdar, Dean (R&D), Prof. & Head (PG-CSE), NMIT, Bangalore	Internal
5.	Prof.Vijaya Shetty S, Assoc.Professor, Dept. of CSE,NMIT,Bangalore	Internal
6.	Prof.Prathibha Ballal, Assoc.Professor, Dept. of CSE,NMIT,Bangalore	Internal
7.	Prof.Kavitha Sooda, Assoc.Professor, Dept. of CSE,NMIT,Bangalore	Internal
8.	Dr.Sanju.V, Assoc.Professor, Dept. of CSE,NMIT,Bangalore	Internal
9.	Prof.Sujatha Joshi, Asst.Professor, Dept. of CSE,NMIT,Bangalore	Internal

Nalini N

(Dr. Dinesh K Anvekar)
Chairperson, BOS

Dept. of Computer Science & Engg.
Nitte Meenakshi Institute of Technology
Yelahanka, Bangalore-560 064.

Academic Year
2013-14

NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY
(AN AUTONOMOUS INSTITUTION)
(AFFILIATED TO VISHVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM)
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Board of Studies -- Academic Year 2013-14

Date: 29-06-2013

Members Present

Sl.No	Members
1	Dr. Nalini N (Chairperson)
2	Dr. Jharna Majumdar
3	Ms. Prathibha Ballal
4	Ms. Vijaya Shetty S
5	Ms. Sanju V
6	Ms. Kavitha Sooda
7	Mr. Mohan B A (Member Secretary)
8	Dr. Rajanikanth
9	Dr. M Banga (Industry Representative)
10	Mr. Janardhan Karanth (Alumni)

Members Apologize

Sl.No	Members
1	Prof. Ranganatha Setty
2	Dr. Sarojadevi H
3	Ms. Sujatha Joshi
4	Dr. Venugopal K R
5	Dr. K Chandrasekharan (VTU Nominee)

Agenda of the Meetings:

1. Approval of scheme and syllabus of 7th and 8th semester, for the academic year 2013-14.
2. Approval for change in syllabus content for introduction to Unix and Shell Programming and Logic Design, 3rd semester, for the academic year 2013-14.
3. Approval of BOE members for the academic year 2013-14.
4. Approval of Equivalence of Subjects Deciding Committee for the academic year 2013-14.
5. Approval of Equivalence Subjects for students taking admission from autonomous to autonomous batch for the academic year 2013-14.
6. Suggesting changes to the Syllabi to attain the COs, POs & PEOS
7. Going through the statistics of Alumni survey & Program Exit survey provided by programme co-ordinator

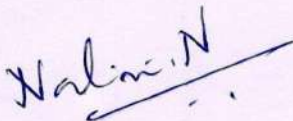
Minutes of the Meeting:

1. BOS chairman Dr. Nalini N, welcomed all the members for the meeting.
2. The minutes of the previous BOS meeting was read out in which the scheme and syllabus of 3rd - 6th semester was approved.
3. The proposed syllabus of 7th and 8th semester was discussed.
4. [REDACTED]
[REDACTED]
[REDACTED]
5. For Group-E elective list, apart from Building Enterprise Applications, Neural Networks & Fuzzy Logic Systems, Dr. Rajanikanth suggested to include courses like Project Management and Genetic Algorithm.
6. UML lab to be renamed as Object Oriented Modeling and Design Lab.
7. Dr. Rajanikanth Suggested to give Lab Exercises as Assignments in the 8th semester subject "Parallel Programming Principles" and to give the credits as 3-0-2 for L-T-P, instead of 4-0-0 for L-T-P.
8. Mr. Prahlad Rao, CISCO, read through the syllabus of Distributed and Cloud Computing and said that he will moderate the syllabus and send as the revised syllabus.
9. Experts felt that the content of core Java can be reduced and more of J2EE can be included in the syllabus for Java & J2EE course in 7th semester.
10. [REDACTED]
[REDACTED]
11. Dr.Banga suggested to revise the set of experiments in Java & J2EE lab. Also use the words like Design and Implementation instead of Write a Program.....
12. It was suggested by Dr. Rajanikanth to include "Service Oriented Computing" courses in [REDACTED]
13. BOS approved the removal of the Vi Editor ,Vi basics, operation modes navigation commands, editing commands in Unit-II of Introduction to Unix and Shell programming.(NOTE: It was proposed that Vi Editor was obsolete and hence to be removed).
14. For Logic Design, BOS suggested that Binary system of Unit-I to be given as self study component to the students and assessment method to be defined for self study. And rest of the proposed syllabus can be rearranged into 5 units (Note: It was felt that proposed Logic Design syllabus was too vast).
15. Approval of BOE members for the academic year 2013-14 was taken.

16. Approval of Equivalence of Subjects Deciding Committee for the academic year 2013-14 was taken.
17. Approval of Equivalence Subjects for students taking admission from autonomous to autonomous batch for the academic year 2013-14 was taken.
18. Finally, BOS Chairman, Dr.Nalini N thanked all the members present for their valuable suggestions.
19. Suggestions were given to change CO-PO mapping for few subjects. Example: In CN-1, orientation of syllabus from unit 1 and 2 were made and hence CO and PO mapping had to be changed.
20. Alumni survey and employer survey were reviewed.

Concluding Remark: All the suggested corrections are incorporated for:

1. Scheme and syllabus of 7th and 8th semester, for the academic year 2013-14.
2. Syllabus content for introduction to Unix and Shell Programming and Logic Design, 3rd semester, for the academic year 2013-14.
3. CO-PO mapping for the suggested subjects were made.



(Dr.Nalini.N)
Chairperson, BOS

Approved BOE members for the academic year 2013-14

Sl. NO.	Name	External/ Internal
1.	Dr.Varaprasad G,Asst.Prof, Dept. of CSE,BMSCE,Bangalore	External
2.	Dr. Nalini N. Prof & Head, Dept. of CSE,NMIT,Bangalore	BOE Chairman
3.	Dr. Jharna Majumdar, Dean (R&D), Prof. & Head (PG-CSE), NMIT, Bangalore	Internal
4.	Dr. Sarojadevi H, Professor, Dept. of CSE,NMIT,Bangalore	Internal
5.	Prof.Vijaya Shetty S, Asst.Professor, Dept. of CSE,NMIT,Bangalore	Internal
6.	Prof.Prathibha Ballal, Asst.Professor, Dept. of CSE,NMIT,Bangalore	Internal
7.	Prof.Kavitha Sooda, Asst.Professor, Dept. of CSE,NMIT,Bangalore	Internal
8.	Prof.Sanju.V, Asst.Professor, Dept. of CSE,NMIT,Bangalore	Internal
9.	Prof.Sujatha Joshi, Asst.Professor, Dept. of CSE,NMIT,Bangalore	Internal

Nalini N

(Dr.Nalini.N)
Chairperson, BOS

Nitte Meenakshi Institute of Technology, Bangalroe-64
Department of Computer Science and Engineering

Equivalence of Subjects Deciding Committee

The following Committee is formed to decide equivalent subjects for the students making transition from Autonomous Batch - to - Autonomous Batch for the academic year 2013-14.

1. Dr. Nalini. N, Prof. & Head.
2. Dr.Sarojadevi.H, Professor.
3. Ms.Vijaya Shetty, Asst. Professor.
4. Ms.Pratibha Ballal, Asst.Professor.
5. Ms.Kavitha Sooda, Asst.Professor.
6. Mr.Sanju.V, Asst.Professor.
7. Ms.Sujatha Joshi, Asst.Professor.
8. Mr.Mohan B A, Sr.Lecturer.
9. Ms.Nirmala J Saunshimath, Lecturer.

Nalini.N

(Dr.Nalini.N)
Chairperson, BOS

Following are the recommendations made by the committee for the Equivalence of the CREDITS (for 200 credits) for the academic year 2013-14.

- 2008-09 Batch Students study total of 150 Credits from 3rd to 8th semester
- 2010 and 2011 Batch Students study total of 152 Credits from 3rd to 8th semester

1. For the students joining during 3rd semester

Sl.No	Subjects Exempted	Credits	Subjects to be Studied	Credits
1.	NIL		NIL	

2. For the students joining during 4th semester

Sl.No	Subjects Exempted	Credits	Subjects to be Studied	Credits
1.	NIL		NIL	

3. For the students joining during 5th semester

Sl.No	Subjects Exempted	Credits	Subjects to be Studied	Credits
1.	NIL		NIL	

NOTE: For the Students joining during 3rd, 4th and 5th semester, since they have studied for 50 credits during 1st and 2nd semester, they need to study 150 credits only. Hence the 2 credits of Minor Project/Internship/Self study courses needs to be AUDITED instead of CREDITED.

4. For the students joining during 6th semester

Sl.No	Subjects Exempted	Credits	Subjects to be Studied	Credits
1.	SS Lab	1.5	CG with Open GL	3
2.	ETM	3	CG with Open GL Lab	1.5

NOTE: So far, students would have completed total of 127 credits of 2008-09 batch till 5th semester. They need to complete additional 73 credits to match 200 credits. Hence the 2 credits of Minor Project/Internship/Self study courses needs to be given 1 CREDIT instead of 2.

5. For the students joining during 7th semester

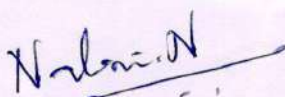
Sl.No	Subjects Exempted	Credits	Subjects to be Studied	Credits
1.	ETM	3	Operations Research	3
2.				

NOTE: So far, students would have completed total of 152 credits of 2008-09 batch till 6th semester. They need to complete additional 48 credits to match 200 credits. Since 7th and 8th semester of 2010 is having 48 credits...it satisfies the requirement of matching 200 credits.

6. For the students joining during 8th semester

Sl.No	Subjects Exempted	Credits	Subjects to be Studied	Credits
1.	NIL		PROJECT WORK	13+2
2.				

NOTE: So far, students would have completed total of 175 credits of 2008-09 batch till 7th semester. They need to complete additional 25 credits to match 200 credits. Since 8th semester of 2010 is having only 23 credits. An additional 2 credits can be given to the PROJECT WORK (So, Project work will have 15 credits instead of 13 credits)


(Dr.Nalini.N)
Chairperson, BOS

NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY
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YELAHANKA, BANGALORE – 560 064

DEPARTMENT OF M. TECH COMPUTER SCIENCE AND ENGINEERING

Proceedings of Board of Studies Meeting

Meeting Type: BOS Meeting

Date: September 10, 2016

Venue: Centre for Robotics Research Lab (Room No. 245), NMIT

Agenda: Reviewing and finalizing the Post-Graduate Syllabus of Computer Science & Engineering for 2016 Scheme as per the new Autonomous Batch.

Board of Studies Members Present:

1. Dr. Jharna Majumdar - Chairperson
2. Prof. K A Ranganatha Setty - Member
3. Dr. Sanjay H A – Member
4. Dr. Kumar Rajamani – Industry Expert
5. Mr. Bhasker B S – Industry Expert
6. Dr. Venkatesh Babu – Industry Expert
7. Mr. Sridhar T R – Industry Expert
8. Prof. K. Rajnikanth – Academic Expert
9. Dr. Venkatesh K – Member
10. Dr. Thippeswamy M N - Member
11. Mr. Venkatesh G M – Alumni Member
12. Mr. Anup D Rao – Alumni Member

Members Present:

13. Dr. Prashanth Gogoi, Professor, Dept. of ISE
14. Dr. N. G. Goudru, Professor, Dept. of ISE
15. Mr. D. B Srinivas, Assoc Professor, Dept. of ISE
16. Mrs. Ashwini J P, Assoc Professor, Dept. of ISE
17. Mr. Rohith H P, Asst. Professor, Dept. of ISE
18. Mrs. Vidyadevi Biradar, Assoc Professor, Dept. of ISE
19. Mrs. Bhuvaneshwari S Patil, Asst. Professor, Dept. of M. Tech CSE
20. Mr. Santhosh Kumar K L, Asst. Professor, Dept. of M. Tech CSE

21. Mrs. Shilpa Ankalaki, Asst. Professor, Dept. of M. Tech CSE
22. Ms. Mamatha Bai B G, Asst. Professor, Dept. of M. Tech CSE
23. Mrs. Sneha N, Asst. Professor, Dept. of M. Tech CSE

Discussion Points:

1. The following are the subjects newly introduced apart from the earlier VTU subjects as the College got Autonomy during the Academic Year 2016 – 2017.
 - a. Advanced Engineering Mathematics
 - b. Wireless Networks and Network Security
 - c. Python Application Programming
 - d. Android Application Programming
 - e. Image and Video Processing
 - f. Mini Project
2. Reduce the total number of Subjects from 6 to 5 for each semester.
3. Swap Big Data Analytics to Semester-1 and Machine Learning to Semester-2.
4. Introduce the flair of Robotics as PSO.
5. Mini Project:
 - a. Semester-1: R Programming
 - b. Semester-2: Robotics & Computer Vision
6. Introduce CAP Theorem, Base properties / Theorems in Big Data Syllabus to make it Industry familiar.
7. Change the course Distributed Operating Systems to Advanced Operating Systems. Introducing different spectrums of Operating Systems like Android, Real Time OS etc.
8. Introduce new Web Technologies like Apache, Angular JS, PHP etc.
9. Technical Seminar in all Semesters.
10. Introduce new topic in Cloud Computing – KUM Cluster, VM Allocation and Monitoring Unix based servers.
11. Introduce Deep Learning as Elective for Sem-2.

Jharna Majumdar
Dr. Jharna Majumdar
Dean R & D
Prof. & Head
Dept of M Tech CSE
NMIT.

NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

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YELAHANKA, BANGALORE – 560 064

DEPARTMENT OF M. TECH COMPUTER SCIENCE AND ENGINEERING

Proceedings of Board of Studies Meeting

Meeting Type: BOS Meeting

Date: May 06, 2017

Venue: New Placement Cell, NMIT

Agenda: Reviewing and finalizing the Post-Graduate Syllabus of Computer Science & Engineering for 2017 Scheme.

Members Present:

1. Dr. Jharna Majumdar - Chairperson
2. Prof. K A Ranganatha Setty - Member
3. Dr. Sanjay H A – Member
4. Dr. Kumar Rajamani – Industry Expert
5. Mr. Bhasker B S – Industry Expert
6. Dr. Venkatesh Babu – Industry Expert
7. Mr. Sridhar T R – Industry Expert
8. Prof. K. Rajnikanth – Academic Expert
9. Mr. Venkatesh G M – Alumni Member
10. Mr. Anup D Rao – Alumni Member

Discussion Points:

- **Research Methodology** Subject is newly introduced to give an Exposure of the Research Ethics and knowledge to the Students.
- To introduce **Wireless Networking Course**.

Maths:

- Introduce how to program the concepts
- Orientation of computer based methods and implementation
- How to generate random variates
- Measure Fitness
- Validation
- Fitting of distributions
- Numerical mathematics
- More of application oriented

- Probability distribution

Cloud Computing:

- Revise course outcomes
- Course objective not required
- Instead of Tutorial, make hands-on
- In Module-1, include IBM Bluemix
- Include Cloud networking and cloud storage

Machine Learning:

- CO's to be revised

Software Engineering:

- Make Advance S.E
- Tool driven, automatic Testing

Python:

- Its not worth a 5 credit course

Mobile Computing and Android:

- Not required

Big Data Analytics:

- No issues

Wireless Networking:

- Revise CO's

Advanced Operating Systems:

- Revise lab programs
- Relook the contents
- Update some topics
- Remove android Module
- Include concurrency, distribution

Note:

- Electives must be given to students if they have not studied it in UG.
- Revise PSO's and make it generalized.

Jharna Majumdar
Dr. Jharna Majumdar
Dean R & D
Prof. & Head
Dept of M Tech CSE
NMIT.



DEPARTMENT OF M. TECH COMPUTER SCIENCE AND ENGINEERING

Proceedings of Board of Studies Meeting

Meeting Type: BOS Meeting

Date: May 29, 2018

Venue: Vision Group on Science & Technology (VGST) Lab, NMIT

Agenda: Reviewing and finalizing the Post-Graduate Syllabus of Computer Science & Engineering for 2018 Scheme as per revised AICTE credits

Members Present:

1. Dr. Jharna Majumdar – Chairperson
2. Dr. K R Ramakrishnan – Academician
3. Dr. Punitha Swamy – Industry
4. Dr. S. G. Shivaprasad Yadav – Academician
5. Dr. Venkatesh K – Member
6. Dr. Vijaya Shetty – Member
7. Mr. Santhosh Kumar K L – Member
8. Mrs. Shilpa Ankalaki – Member
9. Ms. Mamatha Bai B G – Member

Suggestions / Comments:

1. The following subjects are newly introduced for 2018 Scheme based on the recent requirements and the same was discussed during the BoS Meeting.
 - a. Big Data Analytics Laboratory
 - b. Wireless Sensor Network
 - c. Web Analytics and Development
 - d. Internet of Things (IoT) and Internet of Robotics Things (IoRT)
 - e. Natural Language Processing
 - f. Soft Computing
 - g. Cyber Security Laboratory
 - h. Research Methodology & IPR

2. To formulate the Mathematics syllabus as per the topics of the other subjects and to provide an additional training for Mathematics subject if necessary. Change the Course Title as "Mathematical Foundations of Computer Science".
3. To introduce an Embedded Processor Course.
4. To introduce an Open Elective Course across different branches aligned with the main subjects.
5. To introduce Algorithms for Image & Video Processing Course.
6. Android Application Programming course was renamed as Android Programming.
7. To introduced Text Mining, NLP and Cognitive Computing related topics.
8. To modify the assignment of credits from 3 credits to 3+1 credits where additional one credit is for Laboratory work. This is for the following subjects:
 - a. Machine Learning
 - b. Cloud Computing
 - c. Parallel Programming
9. To have a look on the significance of NS3 in the Wireless Sensor Network subject.
10. To involve 2 to 3 Industry experts to handle a value-added course (preferably Elective subjects) of approximately 15 hours which has some credits.
11. To reduce the credits of Seminar from 2 credits to 1 credit.
12. To revise the syllabus of Parallel Programming by discussing with Dr. Venkatesh K.
13. To reduce the credits of Research Methodology & IPR subject from 3 credits to 2 credits.
14. Each subject must have atleast 4 to 6 Course Outcomes.

Jharna Majumdar
Dr. Jharna Majumdar

Dean R & D
Prof. & Head
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