Nitte Meenakshi Institute of Technology Bangalore

Department of Information Science and Engineering

BOS Minutes of Meeting on 02/07/2014

The BOS meeting was held in new placement cell on 02/07/2014 at 12:00 P.M. The following members attended to members attended the meeting

SI No	Committee Members	Position
1	Dr. Sanjay.H,A Prof & Head, ISE, NMIT	Chairperson
2	Dr. K. Rajnikanth Professor, Advisor(A&R) MSRIT, Bangalore	Member (Management Nominee)
3	Dr. K. Chandrasekaran Professor, CSE NITK, Suratkal	Member (VTU Nominee)
4	Mr. Sachin Kumar R.S, IT Specialist, IBM Academic Initiative, IBM India Pvt. Ltd	Member (Industry Experi Member)
5	Dr. Prasanta Gogoi, Professor,ISE,NMIT	Member
6	Mr. K. Aditya. Shastry Assoc. Prof., ISE, NMIT	Member
7	Mr. Chandrashekhar.B.N Asst. Prof, ISE, NMIT	Member Secretary
8	Mr. Rahul V Software Engineer, Convergys Bangalore	Member (Alumni)

Agenda:

1) Approval of revised I Year " Computer Concepts and C Programming" and CCP Lab for 2014 scheme

- 2) Approval of Minor changes in Higher Semester Courses if any
- 3) Verification of Outcome Based Activities

The following points were discussed in the Board of Studies (BOS) meeting held on 02-07-14:

1. It was suggested to make the Board of Studies (BOS) meeting held on 02-07-14: 1. It was suggested to remove MATLAB from 5th unit of CCP and add pointers concept

2. It was discussed to include CT

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- 2. It was discussed to include CTrap text book into the CCP syllabus

 3. It was suggested.
- Syllabus on Cyber Laws was suggested to be reduced to 3 hours and case studies were kept
- 6. Syllabus like C Aptitude which would help students to clear placement entrance tests were suggested
- Courses like Analysis of Computer networks, Adhoc network, Advanced java can be included
- 8. New courses C# & .Net Programming, python and information technology can be introduced.

Resolution:

The following decisions were taken in the meeting:

- The Matlab concept in 5th unit of Computer concepts and C programming of 1st year was removed. Instead of that pointers concept was introduced
- 2. C Traps and Pitfalls by Andrew Koenig is introduced as Text book for CCP subject in 1st year
- 3. The Course outcomes were approved
- 4. Adhoc network, Advanced java is introduced as elective.

5. BOE Panel has been approved

HOD, ISE

(Dr. Sanjay.H.A)

Nitte Meenakshi Institute of Technology Bangalore

Department of Information Science and Engineering

BOS Minutes of Meeting on 20/06/2015

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

SI No	Committee Members	Position
1	Dr. Sanjay.H.A Prof & Head, ISE, NMIT	Chairperson
2	Dr. K. Rajnikanth Ex-Principal, MSRIT, Bangalore	Member
3	Dr. K. Chandrasekaran Professor , CSE NITK, Suratkal	VTU Nominee
4	Dr. Prahlad Rao Joint Director, CDAC, Bangalore	Industry Expert Member
5	Dr. Amit Kale, Research Group Head, Imaging and Computer Vision, Siemens Corporate Research and Technology, Bangalore	A STATE OF THE PERSON NAMED OF THE PERSON NAME
6	Mr. Arun Thakur Senior Vice President & Head InfoVision, Bangalore	Industry Expert Member
7	Dr. Prasanta Gogoi Professor, ISE, NMIT	Member
3	Mr. Karunakara Rai Assoc. Prof., ISE,NMIT	Member
)	Mrs. Vidyadevi Biradar Assoc. Prof, ISE, NMIT	Member
0	Mr. K. Aditya. Shastry Assoc. Prof., ISE, NMIT	Member
1	Mr. Rahul V Edison Engineer, GE Global Research	Alumni Member Secretary
2	Mr. Rohith H.P Asst. Prof, ISE, NMIT	Member Secretary

Special Invitees

Dr. Jharna Majumdar, Dean R&D, NMIT

Sethunathan, Cell-Stream Technologies

Agenda:

- 1) Approval of scheme from III to VIII Semesters for 2014 Batch 2) Newly introduced subjects in comparison with 2010 scheme
- 3) Approval of detailed syllabus of III and IV Semesters for 2014 Batch 4) Approval of syllabus for Web technology Lab and Android Programming

Approval of scheme from III to VIII Semesters for 2014 Batch

Newly introduced subjects in comparison with 2010 scheme

			Demarks
			Introduced as a core elective
			Lead as a core
		Course Name	Introduced as
	Codo	Python for data science	for 5th semester
SI. No	Course Code	Pathon for data scient	for 3 state a core electric
-	14ISE563	Python	for 5 th semester Introduced as a core elective
1)	14132303	aphics With	for 5th semester changed as
1		Computer graphics	for 5 some heen changed as
2)	14ISE564	Computer graphics with	for 5 th semester Elective has been changed as
1 2)	1410200	OPENUL	a core subject
	1	Data mining	a core subjective
3)	14IS61	Data initia	a core subject Introduced as a core elective
1 3)	141001		for 6th semester open elective
		Cultings	for 6" semester an elective
4)		Internet of things	for 6 th semester Introduced as an open elective
1 4)	14ISE652	The second	Introduced to
			for 6th semester
5)		Internet of things	Introduced as an open elective
)	14ISO661		Introduced as all op-
1		Object oriented	c cemestel
6)	The same of the sa	object oriented programming with C++	Introduced as an open elective
(0)	14ISO662	programming with	Introduced as an open ciccive
1		and approximated \$1000000000000000000000000000000000000	othoter
7)		Unix fundamentals	for 6 th semester
1)	14ISO663	Ullik Tark	Introduced as an open elective
	Committee of the commit	Essentials of information	Introduced as an open
0)	200000000000000000000000000000000000000		for 6 th semester
8)	14ISO664	technology	101 0 341
	The state of the s	(CCIMOLO S)	

Approval of detailed syllabus of III and IV Semesters for 2014 Batch

Suggestions:

The following points were discussed in the Board of Studies (BOS) meeting held on 20-06-15:

- 1. It was suggested to reduce the total credits from 200 to 170 for each semester.
- 2. It was suggested by the panel to give more emphasis on learning methodology
- 3. The industry experts suggested to give longer duration to students with the industries rather than just 1 or 2 months during the internship

- 4. The alumni members suggested that more emphasis must be provided for programming
- exercises by subscribing to accounts like GitHub and CourseEra online courses. 5. The panel also pointed out to revise the Course Outcomes for III and IV Semester
- 6. The experts suggested introducing application oriented programs in Data Structure Lab. 7. The panel also suggested to wait before introducing GPU Programming as a subject.

Resolutions:

- The following decisions were taken in the meeting:
 - 1. In 3rd Semester scheme following changes were made: Electronic circuits (EC) and Logic design (LD) subjects were combined into one subject.
 - Credits for EC & LD Lab and Data Structures (DS) Lab were increased from 1.5 to 2 credits.
 - Mini-project Lab was introduced in 3rd Semester
 - 2. In 4th Semester scheme following changes were made:
 - Credits for Object Oriented and Programming (OOPS) with C++ were reduced from 4 credits to 3 credits.
 - Credits for OOPS Lab and DS Lab were increased from 1.5 to 2 credits
 - 3. In 5th Semester scheme following changes were made:
 - Analysis and Design of Algorithms (ADA) Lab was removed. In place of it, System Programming (SP) Lab was introduced.
 - Credits for System Programming theory was reduced from 4 to 3.
 - Credits for Database Management System (DBMS) Lab and SP Lab were increased from 1.5 to 2 credits
 - 4. In 6th Semester scheme following changes were made:
 - Compiler Construction subject was removed. In place of it, Parallel Programming (PP) subject was introduced.
 - Lex and Yacc syllabus present in Compiler Construction was moved to Finite Automata and Formal Languages subject in 5th Sem. Credits for core Java theory was reduced from 4 to 3, while credits for
 - Computer Networks Lab and Java Lab were increased from 1.5 to 2 credits.

- 5. In 7th Semester scheme following changes were made: Distributed Computing (DC) subject was introduced in place of PP subject.
 - Credits for Web Technology subject was reduced from 4 to 3.

 - WT Lab was introduced in place of Java Lab Credits for DC Lab and WT Lab were increased from 1.5 to 2 credits.
- 7. Following changes were made in connection with the detailed syllabus for 3rd
 - The combined subject of EC & LD was formed by removing 1st three units in Semester: EC. Gates topic in LD was moved from unit 1 to 2.
 - Programming in C by Dennis Ritchie was introduced as a reference book for

 Detection

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- 8. Following changes were made in connection with the detailed syllabus for 4th Semester:
 - OOPS syllabus was diluted for units 4 and 5
 - In Graph Theory (GT), one unit was dedicated to applications of GT
 - In Microprocessor, reference book on 8055 was removed.
- 9. The subject "Robotics Engineering LEGO Mindstorms and TETRIX" was introduced as open elective in 3rd or 4th Semester. It had 3 credits with 40% theory component and 60% Lab component. This was an initiative taken for the first time in India.
- 10. The subject Android Development was introduced as a core elective for 7th Sem. Its detailed syllabus was approved.
- 11. The detailed syllabus of Web Technology for 7th sem was modified and approved.
- 12. The detailed syllabus of System Programming for 5th Sem was modified and approved

HOD, ISE

(Dr. Sanjay.H.A)

NitteMeenakshi Institute of Technology Bangalore-64

(Affiliated to Visvesvaraya Technological University, Belgaum, Approved by AICTE & Govt.
Of Karnataka)

BOARD OF STUDIES IN INFORMATION SCIENCE AND ENGINEERING MINUTES OF MEETING

Meeting Date: 11/06/2016

Venue: New Placement

Cell

Agenda:

- 1. Approval of detailed syllabus of 5th and 6th semester 2014 scheme.
- 2. Newly introduced subjects in comparison with 2010 scheme
- 3. Approval of minimum changes in 7th and 8th semester syllabus of 2010 scheme.

Newly introduced subjects in comparison with 2010 scheme

Sl.No	Course Code	Course Name	Remarks
1.	14IS72	Software project management	Elective has been changed as a core subject with title modification
2.	14ISH73	Venture process management & IPR	Introduced as a core subject for 7 th semester
3	14ISL76	Web technology lab	Theory is removed and integrated lab is introduced for 7th semester
4.	14ISP79	Internship/self study/mini project	Introduced in 7 th semester
5. .	14ISE741	Big data	Introduced as a core elective for 7 th semester
6.	14ISE742	Machine learning	Introduced as a core elective for 7 th semester
7.	14ISE743	Android application development and version control repository	Introduced as a core elective for 7 th semester
8.	14ISO751	Fundamentals of java	Introduced as an oper elective for 7 th semester

		Design and development	Introduced as an open elective for 7th semester
9.	14ISO752	of web applicant	Introduced as an open
10.	14ISO753	Mobile app development	elective for / semester
11.	14ISO754	Python programming	elective for / Semester
12.	14ISH82	Foss and cyber laws	subject for 8th semester
13.	14ISE833	Advanced java	Introduced as a co

Approval of detailed syllabus of 5th and 6th semester 2014 scheme.

SL. No	Course	Suggestions
1)	COMPUTER NETWORKS I	 ATM topic can be removed Instead of ATM "Switch architecture" or MPLS can be added.
2)	System Programming	 Can remove the topics related to absolute loader etc. Concepts of DLL need to be added.
3)	OPERATING SYSTEM	 "Project management" part is not required. Syllabus is heavy. Need relooking. History part is not required.
4)	DBMS	 Contents are little more. Need relooking. History part is not required. Normal forms upto BCNF is fine. 4th and 5th normal forms are not required. DBMS theory needs to introduce the importance of non-ACID databases. Unit 5 is very heavy. Can cover just introduction to concurrency control and Recovery.
5)	FINITE AUTOMATA AND COMPILER DESIGN	 It was decided to give FLAT as independent course and Compiler design as Elective. In FLAT there is lot of dead topics such as proof of pumping lemma, CFG etc. They can be removed. Their introduction is enough. JFLAP-Open source tool can be used to simulate automata. Lex and Yacc can be added as part of FLAT after discussion of regular expressions.
6) 7)	PYTHON FOR DATA SCIENCE COMPUTER GRAPHICS WITH OPENGL&CUDA	 Suggested to introduce String concepts in unit-2 Changed the title, added few concepts of CUDA

8)	INTERNET OF THINGS	
10)	DATA MINING COMPUTER NETWORKS II SOFTWARE ENGINEERING CORE JAVA	 Syllabus has to be revised Need to include some of the practical issues like Data cleaning, time series. Add few more algorithms on classification and clustering Transport layer level security is missing. Syllabus seems heavy. Need to relook. Reduce the design part and enhance development and maintenance part. If there is a separate course for Project management then those topics need not be covered in Software Engineering. Title need relooking: some of the suggestions were "Object Oriented Programming with JAVA"
13)	On more On any	 of "Object Oriented Application Development with JAVA". Topic "Vectors" can be replaced with "Map" JDBC has to be introduced. Unit 4 can be JDBC and Unit 5 JAVA networking. GUI part has to be retained. Constructor overloading etc. need not be covered here as they are introduced in OOP with C++.
13)	OBJECT ORIENTED PROGRAMMING WITH C++	Reduce the content of the syllabus
14)	Unix Fundamentals	 Content looks heavy, need to be revised
15)	ESSENTIALS OF INFORMATION TECHNOLOGY	• Reduce the contents of unit-3
16)	WEB TECHNOLOGIES	Apache and LAMP stack to be introduced.
17)	Maths III	 Laplace and Fourier transform can be retained as UNIT I and II Linear program need to be given importance and remaining units III, IV and V can include topics from LP.
18)	MATHS IV	 Hypothesis testing need to be introduced. Game theory in itself is a separate course. So it can be removed as a part of math course and can be introduced as an elective.

3. General Suggestions

- a. POs should be changed as per new NBA guidelines.
- b. 2 to 4 PSOs should be added.
- c. Course mappings need to be changed as per new POs and PSOs.
- d. Hands on part should be explicitly mentioned in scheme. (Wherever course project, programming assignments are there.
- e. Domain based training in labs will be helpful rather than tool based learning.

- f. Course outcomes should be very generic and they should not contain any tool specific statements.
 - i. Ex: "Using NS3 students will learn" is wrong. What students will learn is important but tool need not be specific to NS3.
- g. OS Lab: This lab may use some changes to open source operating system Linux.

 May include:
- h. In order to include "Ethics" Po in final year project student's work can be checked for
- i. Dr. Rajanikanth suggested that "Project management and Finance" course can be added as a part of Project Preliminaries in 7th semester.

The following decisions were taken for the 2014 batch syllabus as per the BOS suggestions:

- Lab component was introduced in ADA subject
- In CN-I subject, instead of ATM, "Switch architecture" was added
- With regards to System Programming subject, DLL concepts were added by removing topics

 related to absolute to a
- In case of Operating system subject, History of OS and project management topics were
- With respect to DBMS, the topics related to history of DBMS was reduced and the introduction to concurrency control and recovery were kept
- Introduced Strings concepts in Python for data science
- CUDA concepts were introduced in Computer graphics with OPENGL & CUDA.
- Compiler construction was removed as a core subject from 6th semester and was introduced as a core subject.
- In FLAT subject following changes were made:
 - o Proof of pumping lemma, CFG were removed and their introduction was added as per the BOS suggestion
 - Open source tool JFLAP was used to simulate automata
 - Lex and Yacc was added in the 3rd unit of FLAT
- In Data Mining subject, recent topics related to data cleaning and time series data
- In CN-II subject, Transport layer level security was introduced
- As per the suggestions, changes were incorporated in IoT, Essentials of Information Technology, OOP with C++, and Unix Fundamentals. With regards to Web Technologies subject, Apache and LAMP stack were introduced

HOD signature

Nitte Meenakshi Institute of Technology Bangalore-64

(An Autonomous Institution)

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BOARD OF STUDIES IN INFORMATION SCIENCE AND ENGINEERING MINUTES OF MEETING

Meeting Date:09/06/2018

Venue: ISE Lab1

Agenda:

• Finalizing scheme and syllabus of 2017-18 batch.

Newly introduced courses are as follows:

SL. NO	Course Name	Course Code
1.	Mathematical Foundation for Computer Networks	18CN11
2.	Wireless Sensor & Mobile Networks	18CN13
3.	Internet of Things	18CN142
4.	Multimedia Communication	18CN143
5.	Software Defined Networks	18CN151
6.	Analytical Approach for Data Networks	18CN22
7.	Information Security Lab	18CNL26
8.	Research Methodology & IPR	18CNL27
9.	Real Time Operating System	18CN241
10.	Vehicular Networks	18CN242
11.	Machine Learning	18CN243
12.	Block Chain	18CN251
13.	Data Analytics	18CN252
14.	Disruptive Technologies	18CN253

Suggested changes for MTECH CNE courses are listed below:

Newly introduced courses for the

SL. NO	COURSE	SUGGESTIONS
1.	MATHEMATICAL FOUNDATIONS OF COMPUTER NETWORKS	Rajanikanth Sir: Syllabus need to be relooked. Basic concepts of mathematics that is thought in engineering should be removed from the syllabus. Dr. Prabhu: Mathematics for Engineers book can be referred. Modulo Arithmetic and Group theory concepts can be included in the syllabus.
2.	WIRELESS COMMUNICATION	Dr. Prabhu:

		 Prerequisites should be changed. Rajanikanth Sir: Latest protocols are missing in the subject. 1G, 2G technologies have to be added to the syllabus New edition text should be referred.
3.	NETWORK SECURITY	Rajanikanth Sir: Unit-2 seems to be heavy Course seems heavy for students coming from non- IT branches like EC Mr. Rahul & Dr. Prabhu:
4.	ADVANCES IN COMPUTER NETWORKS	 Mr. Rahul & Dr. Prablu. Publications included are not matching with the syllabus content Survey papers can be referred for research publications. Dr. Thippeswamy M N: .SMTP concepts can be added to the syllabus.
5.	INTERNET OF THINGS	Rajanikanth Sir: Unit – II syllabus needs to be rephrased using key phrases. Dr. Prabhu: Intel initiatives towards IoT can be referred for the course.
6.	DISTRIBUTED COMPUTING	Rajanikanth Sir: Relook the contents of the subject Only one text book was provided in the syllabus Outdated topics need to be removed Can go for Multicore architecture or Network functions instead of Distributed computing
7.	BIG DATA ANALYTICS	Rajanikanth Sir: No topics related to Analytics present in the syllabus
8.	HIGH SPEED NETWORKS	Rajanikanth Sir: ATM topic is dead and needs to be removed Old text book was kept Suggestion was made to drop this course
9.	MACHINE LEARNING	Rajanikanth Sir: Suggestion was made to drop this course

General Suggestions

2.

- a. PSOs need to be added related to system hardware and software so as to map core subjects to the PSOs and elective subjects should not be mapped.
- b. Survey papers may be added as research papers.
- c. Student who has taken same subject in UG course cannot take the same subject as elective in PG course.