NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA
SURATHKAL

MINUTES

OF

TWENTY FIFTH MEETING OF
BOARD OF STUDIES

Date   :   **17.02.2014(Monday)**
Time   :   **04.00 PM**
Venue   :   **Board Room,**
                    N.I.T.K., Surathkal,
                    Post Srinivasnagar,
                    PIN - 575 025.

Minutes of the Twenty Fifth Board of Studies Meeting held on 17th February, 2014 at 4.00 P.M. in the Board Room, NITK, Surathkal.

Members Present:

1.	Dr. Sumam David S	...	Chairman
2.	Dr. A. Kandasamy	...	Member
3.	Dr. Udaykumar R Y	...	Member
4.	Dr.K. Chandrashekaran	...	Member
5.	Prof. Subba Rao	...	Member
6.	Dr. Katta Venkataramana	...	Member
7.	Dr. Aruna M	...	Member
8.	Dr. Annappa	...	Member
9.	Dr. Neelavar S.V. Shet	...	Member
10.	Dr. John D'souza	...	Member
11.	Mr. Jora M. Gonda	...	Member
12.	Prof. Ananthanarayana V S	...	Member
13.	Dr. Vidya Shetty	...	Member
14.	Dr. Prasad Krishna	...	Member
15.	Dr. K. Narayana Prabhu	...	Member
16.	Dr. A.C. Hegde	...	Member
17.	Dr. Murulidhar N N	...	Member
18.	Dr. N. K. Udayashankar	...	Member
19.	Dr. K. B. Kiran	...	Member
20.	Mr. K. Vinay Kumar	...	Member
21.	Dr. Jagannath Nayak	...	Special Invitee
22.	Mr. K. Ravindranath	...	Secretary/Dy. Registrar (Acad)

CONTENTS

Minutes of Twenty Fifth BOS meeting held on 17.02.2014

The Chairman (BOS) and Dean (Academic) chaired the meeting and welcomed all the members to the **Twenty Fifth BOS meeting.**

ITEM No: 25-BOS - 1:

Restructuring & renaming of M.Tech (SACA) programme:-

The BOS resolved to approve the restructuring and renaming of the M.Tech (Systems Analysis and Computer Applications) programme being offered by the Department of MACS to M.Tech (Computational Mathematics). The course structure and the syllabus contents are appended as **ANNEXURE- I, Page No.** 4

ITEM No: 25-BOS - 2:

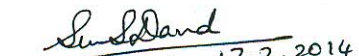**Special conditions for eligibility in M.Tech Programme :-**

The BOS resolved to approve the Special conditions for eligibility in M.Tech Programme as follows:
At least 60% marks (or 6.5 CGPA) in 10(Class X) and 10+2 (Class XII) level/Diploma or equivalent examination for OC/OBC candidates and at least 55% marks (or 6.0 CGPA) in 10 (Class 10) and 10+2 (Class XII) level / diploma or equivalent examination for SC/ST candidates.

The Secretary (BOS) proposed vote of thanks to the Chair and the Members.

(K. Ravindranath)
Secretary –BOS, NITK

17.2.2014
(Dr. Sumam David S)
Chairman-BOS, NITK

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M. Tech. in Computational Mathematics (CMA)

Suggested Plan of Study:

Sl. No.	Semester			
	I	II	III	IV
1	CMA701	CMA705	CMA891/ CMA897	CMA899
2	CMA702	CMA706	CMA890	
3	CMA703	CMA707	CMA898	
4	CMA704	Elective – 2		
5	Elective – 1	Elective – 3		
6	-----	Elective – 4		

Credit Requirements:

Category	Minimum Credits to be earned
Programme Core (PC)	24
Elective Courses (Ele)	12
Mandatory Learning Course (MLC)	04
Major Project (MP)	20
Total	60

Programme Core (Pc):

CMA701	Data Structures and Algorithms	(3-0-2)4
CMA702	Computational Combinatorics	(3-0-0)3
CMA703	Computational Linear Algebra	(3-0-0)3
CMA704	Computer Organization and Operating Systems	(3-0-2)4
CMA705	Theory of Computation	(3-0-0)3
CMA706	Stochastic Analysis and Applications	(3-0-0)3
CMA707	Numerical Algorithms and Analysis	(3-0-2)4

Elective (Ele) Courses:

CMA801	Computer Networks	(3-0-0)3
CMA802	Machine Learning	(3-0-0)3
CMA803	Software Engineering	(3-0-0)3
CMA804	Computer Graphics	(3-0-0)3
CMA805	Image Processing	(3-0-0)3
CMA806	Algorithmic Combinatorics	(3-0-0)3
CMA807	Cryptology	(3-0-0)3
CMA808	Selected Topics in Graph Theory	(3-0-0)3
CMA809	Distributed Computing Systems	(3-0-0)3
CMA810	Soft Computing	(3-0-0)3
CMA811	Combinatorial Optimization	(3-0-0)3
CMA812	System Modelling and Simulation	(3-0-0)3
CMA813	Database Systems	(3-0-0)3
CMA814	Linux and Network Programming	(3-0-0)3
CMA815	Internet Technology and Applications	(3-0-0)3
CMA816	General Systems Theory	(3-0-0)3
CMA817	Web Technology	(3-0-0)3
CMA818	Selected Topics in Computer Algorithms	(3-0-0)3
CMA819	Number Theory and Cryptography	(3-0-0)3
CMA820	Mobile Computing	(3-0-0)3
CMA821	Mathematical Modeling	(3-0-0)3
CMA822	Finite Element Methods	(3-0-0)3
CMA823	Nonlinear Programming	(3-0-0)3
CMA824	Selected Topics in Network Flow Modeling and Analysis	(3-0-0)3
CMA825	Collective Decision Making Process	(3-0-0)3
CMA826	Computational Fluid Dynamics	(3-0-0)3
CMA827	Design and Analysis of Experiments	(3-0-0)3
CMA828	Reliability Theory and Applications	(3-0-0)3
CMA829	Computational Number Theory	(3-0-0)3
CMA830	Pattern Recognition	(3-0-0)3
CMA831	Statistical Techniques in Data Mining	(3-0-0)3
CMA832	Mathematical Finance	(3-0-0)3
CMA833	Games Theory	(3-0-0)3
CMA834	Fuzzy Sets and Fuzzy Logic	(3-0-0)3
CMA835	Computational Graph Theory	(3-0-0)3

Mandatory Learning Courses (MLC)

CMA890	Seminar	2
CMA891/	Practical Training/	2
CMA897	Minor Project	

(to be completed during vacation between 2nd & 3rd Semester)

Major Project (MP)

CMA898	Major Project (3rd Sem)	6
CMA899	Major Project (4th Sem)	14

(Secretary DPGC)
03/2/14

16/02/2014

HEAD
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