NEHRU MEMORIAL COLLEGE (AUTONOMOUS)

Nationally Accredited with "A" Grade by NAAC
PUTHANAMPATTI – 621 007
TIRUCHIRAPPALLI - Dt

REVISION OF SYLLABUS (2019-2020)

MINUTES OF THE BOS MEETING

22 SEPTEMBER 2018

M.Sc., EMBEDDED SYSTEMS

(UGC INNOVATIVE PROGRAMME)

Post-Graduate Programmes – Course Structure under CBCS
(Candidates are admitted from the year 2019-2020 onwards)

DEPARTMENT OF EMBEDDED SYSTEMS

2018

M.Sc., EMBEDDED SYSTEMS

MEETING OF THE BOARD OF STUDIES

22-09- 2018

MINUTES OF THE BOS MEETING

The Members of The Board met at 11.00 a.m on 22 September, 2018 in the Department of Embedded Systems, Nehru Memorial College (Autonomous), Puthanampatti. DrA.Rajendran Chairperson of the Board of Studies presided over the meeting.

The following members attended the meeting

S.No	Name and Designation	
1	Dr.A.Rajendran, Co-ordinator of Embedded Systems and Associate Professor of Physics, Nehru Memorial College(Autonomous), Puthanampatti.	Chairperson
2	Dr. K.Tamilmaran Professor,CNLD, Bharathidasan University Tiruchirappalli.	University Representative (Parent University)
3	Dr.N.Sivakumaran Professor Department of Instrumentation and Control Engineering National Institute of Technology Tiruchirappalli-620 015.	Subject Expert (Other than Parent University)
4	Dr. P.Arulmozhivarman Professor and Dean, SELECT, VIT, Vellore – 632 014.	Subject Expert (Other than Parent University)
5	Dr.R.Raghunathan, M.Sc., M.Phil., Ph.D., Flat G-3, Grahalaya block B, Plot No: 4, Bharathiar Street, Irumbuliyur West, Tambaram, Chennai – 45.	Industrialist
6	Mr.Vivekloganathan 4/3 CheranSalai Vigneswar Nagar Porur,Chennai – 600 116.	Alumni
7	Er.R.Ramasamy 7/286, Theni main road NGO Colony, Nagamalai Post, Madurai – 625 019	Special Invitee

8	Prof .M.Muralidharan Head, Department of Computer Science Nehru Memorial College(Autonomous) Puthanampatti.	Member
9	Prof. K.Nagarajan Head, Department of Physics Nehru Memorial College(Autonomous) Puthanampatti.	Member
10	Dr.A.Venkatesan, Associate Professor of Physics Nehru Memorial College(Autonomous) Puthanampatti.	Member
11	Ms.B.Sevanthi, Assistant Professor of Embedded Systems Nehru Memorial College(Autonomous) Puthanampatti.	Member

The chairman introduced the members and Dr A.Venkatesan delivered the welcome address. Then chairman permitted to take up the agenda. The proposed syllabus of M.Sc., Embedded Systems for the students to be admitted from 2019-2020 was tabled before the board for discussion. The members after perusing the draft structure and syllabi, offered various suggestions to improve the curriculum in an efficient manner.

After detailed deliberations, the board approved of the proposed syllabus with necessary modifications as specified by the members and passed the following resolution unanimously. The board also appreciated the efforts for bringing 39% of revision carried out in 2019-20 syllabus. The BOS members also suggested that Internship programme may be a part of curriculum.

Resolution: 1/2018

It is resolved unanimously to approve the syllabus of M.Sc.,Embedded Systems for the students to be admitted from the academic year 2019-2020 onwards.

Resolution: 2 / 2018

It is resolved unanimously that the proposed syllabus based on CBCS system is hereby approved

Resolution: 3/2018

It is resolved to approve of the vision, mission and program outcomes, learning objectives course outcomes with minor modifications.

Resolution: 4/2018

It is resolved to approve of the following courses are skill oriented courses/employability/entrepreneurship courses (Annexure-I)

Resolution: 5/2018

It is resolved to approve of the syllabus of seven practicum courses among the 28 courses.

Resolution: 6/2018

It is resolved unanimously that the students might undertake one or two online courses (MOOC, SWAYAM, e-Pathashala, coursera, nptel etc.,) as part of curriculum.

Resolution: 7/2018

It is resolved unanimously to approve of the reframing the structure by including Core Courses, Open Elective Courses, Internship Programme. The redefined structure is enclosed as Annexure II.

Resolution: 8 / 2018

It is further resolved to approve of the modifications of the courses and elective courses by undertaking the suggestions given by the members.

Dr .A.Rajendran proposed vote of thanks and the meeting ended at 2.00 p.m.

REVISED SYLLABUS - 2018
CORE COURSES

Fundamental of Embedded Systems	Skill Course
Analog Interfacing Devices for Embedded Systems	Skill Course
Design of Embedded Systems with PIC Microcontroller	Employability
The PIC Microcontroller Programming Lab	Entrepreneur
Embedded C Programming Lab	Entrepreneur
Engineering Mathematics	Skill Course
Mixed Signal Processors for Embedded Systems	Employability
AVR Architecture and Programming	Employability
Mixed Signal Processors and AVR Programming Lab	Entrepreneur
Real Time Operating System with ARM Microcontroller	Employability
Programmable System on Chip	Employability
ARM&PSoC Microcontroller Programming Lab	Entrepreneur
Circuit Design And Simulation Lab	Entrepreneur
Internship	Employability
Project	Employability

ELECTIVE COURSES

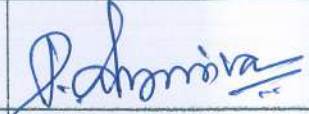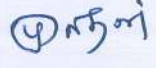|	
Robotics	Skill Course
Embedded Networking	Skill Course
Hardware Software Co- Design	Skill Course
Programming in JAVA	Skill Course
Embedded Linux	Skill Course
Soft Computing	Skill Course
Python with Raspberry Pi	Employability
Wireless Sensor Networks	Employability
Advanced Digital Image Processing	Skill Course
Internet of Things	Entrepreneur
Advanced ARM Microcontroller	Skill Course
Network on Chip	Skill Course
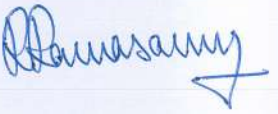
OPEN ELECTIVE COURSES

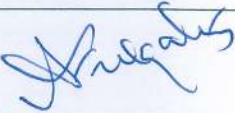|	
The 8051 Microcontroller Architecture And Programming	Employability
Advanced Microcontroller	Employability
Online courses(MOOC/NPTEL/SWAYAM/e-pathashala	Skill Course

Revised Syllabus -2018

Entrepreneur	20%
Skill Course	40%
Employability	40%
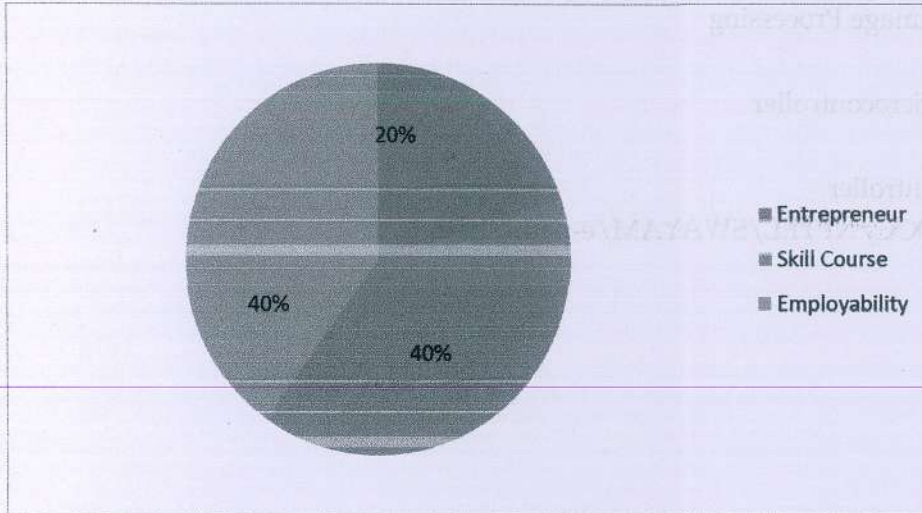
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6	R. Ramasamy 7/286, Theni main road, NGGO's Colony, Nagamalai Post, Madurai – 625019	Industrialist	
7	Mr.Vivek Loganathan (Hapag Lloyd Global Services) 4/3 CheranSalai Vigneswar Nagar Porur,Chennai – 600 116.	Alumni	
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