UNIVERSITY OF MUMBAI
Syllabus Revision 2020

EMBEDDED AND IOT DOMAIN

Minutes of Meeting

Date of Meeting: 2nd March 2020

Venue: Room No. 112 C, Ramarao Adik Institute of Technology, Nerul, Navi Mumbai.

Time: 11.30 a.m.

A meeting of domain experts from Instrumentation Engineering, for the revision of syllabus in Embedded and IoT Domain, was held on **2nd March 2020** at 11.30 a.m. in Room No. 112 C, at Ramarao Adik Institute of Technology, Nerul, Navi Mumbai and the following members were present.

Following members were present from various eminent institutions.
Prof. Dipali Joshi-Jain –**Domain Head**- RGIT, Andheri, Mumbai
Prof. Ankush Gund.- BVCOE, Kharghar, Navi Mumbai.
Prof. Ramakant Patil. – RAIT, Nerul, Navi Mumbai.
Prof. Kader Shaikh.- VESIT, Chembur, Mumbai.
Prof. Sangram Jadhav.- RAIT, Nerul, Navi Mumbai.
Prof. Vidya Pamale. – VCET, Vasai, Thane.

Agenda of Meeting:

1. Revision of syllabus for the following subjects under Embedded and IoT domain:
   i) Virtual Instrumentation (Sem. –IV)
   ii) Applications of Microcontroller (Sem. –V)
   iii) Advanced Microcontroller (Sem. –VII)
   iv) Expert System (Sem. –VIII)
   v) Internet of Things (Sem. –VIII)

2. Revision of Lab experiments and assessment work for the subjects mentioned above.
3. Revision of credits assigned to the subjects mentioned above.

The meeting is commenced with a warm welcome and felicitation of committee members. Before the start of the agenda of the meeting, Prof Dipali Joshi welcomed all the members for the syllabus revision meeting and mentioned the agenda of the meeting.

Discussion and Suggestions:

- Prof Sangram Jadhav, gave a short presentation on present contents of the syllabus for the following subjects:
  - Virtual Instrumentation (Sem. –IV)
  - Applications of Microcontroller (Sem. –V)
  - Advanced Microcontroller (Sem. –VII)
  - Expert System (Sem. –VIII)

    - Internet of Things (Sem. –VIII)
- The discussion was then open for the suggestion on modification in the present content to make it more impactful and applicable to meet, the current industry demands.
- **Prof. Ankush Gund**, suggested to revise the contents of the subject "**Applications of Microcontroller**" to give an introduction of presently used platforms like Arduino, Raspberry pi, etc. Everyone unanimously agreed to his suggestions and gave their views on the design of laboratory experiments. Prof. Ankush Gund has taken up the work, to frame the revised syllabus structure along with the addition of books and study material for theory subject and laboratory work.
- **Prof. Ramakant Patil**, gave his suggestion on revising the contents of the subject "**Advanced Microcontroller**" by adding some insights of platform such as Raspberry pi. Everyone shared his or her thoughts about the revision of the subject. Prof. Ramakant Patil agreed to revise contents of the subject to frame the revised syllabus structure along with the addition of books and study material for theory subject and laboratory work.
- **Prof. Sangram Jadhav**, shared his views on revising the contents of the subject "**Virtual Instrumentation**" by adding more real-life examples that can be implemented by the students. The preparation of revised syllabus has been assigned to Prof. Sangram Jadhav.
- **Prof. Vidya Pamale**, shared her view on marks assigned for term work. She suggested instead of 50 Marks term work, and there should be 25 Marks for term work and 25 Marks for oral and practical Examination. Everyone unanimously agreed to her suggestions and so will be communicated with the Board of studies for approval by Prof. Dipali Joshi.
- **Prof. Kader Shaikh**, gave his suggestion on revising the contents of the subject "**Expert System**" by adding more emphasis on the Hybrid system and some practical case studies. Everyone shared his or her thoughts about the revision of the subject. Prof. Kader Shaikh agreed to revise and prepare the contents of the subject to frame the revised syllabus structure along with the addition of books and study material.
- **Prof. Dipali Joshi-Jain**, gave her suggestion on revising the contents of the subject "**Internet of Things**" by adding some insights of communication protocols and cloud platforms used in IoT applications and also to assign a small project on IoT applications. Everyone shared his or her thoughts about the revision of the subject. Prof. Dipali Joshi-Jain has taken up the work, to frame the revised syllabus structure along with the addition of books and study material for theory subject and laboratory work.
- The assignment of the work to domain members then concludes the meeting. The guidelines for preparation of syllabus, number of hours for each module and format for preparation, as provided by the Board of studies are discussed, and email is sent to all domain members.
    - Prof. Dipali Joshi-Jain - Internet of Things
    - Prof. Ankush Gund.- Applications of Microcontroller
    - Prof. Ramakant Patil.- Advanced Microcontroller
    - Prof. Kader Shaikh. - Expert System
    - Prof. Sangram Jadhav.- Virtual Instrumentation
- **Prof. Dipali Joshi-Jain** proposed the vote of thanks by appreciating all the members for being present for the meeting and actively involved in the discussion for revising syllabus contents for the betterment of students and society. She also

thanks **Dr. Sharad Jadhav** for making all the necessary arrangements for the hosting the meeting at RAIT.

Domain Head

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