



**SATHYABAMA**  
**INSTITUTE OF SCIENCE AND TECHNOLOGY**  
**(DEEMED TO BE UNIVERSITY)**  
(Established under Section 3 of the UGC Act, 1956)  
**Accredited with 'A' Grade by NAAC**  
Rajiv Gandhi Road, Jeppiaar Nagar Chennai – 600 119, Tamil Nadu.



**Minutes of BOS**

**Department of Chemistry**

Minutes of the BOS Meeting-2019 (UG –B.E/B.Tech/B.Sc/PG) meeting held on 11<sup>th</sup> April, 2019 at 10.30 A.M. Department of Chemistry, Sathyabama Institute of Science and Technology, Chennai.

**Members Present:**

S.No.	Name of the Staff	Members	Signature
1.	Dr.Sundar Manoharan, (Vice-Chancellor)	Vice-Chancellor	
2.	Dr.J.Karthikeyan, (Associate Professor) Head - Chemistry	Convener	
3.	Dr.P.Bhyrappa, (Professor) Dept.of Chemistry, IITM.	BOS member	
4.	Dr.V.Subramanian, (Chief Scientist) Inorganic & Physical Chemistry, CLRI, Chennai.	BOS member	
5.	Dr.A.Sheik Mideen (Professor)	Member	
6.	Dr.V.Kavitha (Professor)	Member	
7.	Dr.T.Krithiga (Associate Professor)	Member	
8.	Dr.S.Supriya (Associate Professor)	Member	
9.	Dr.K.Chennakesavalu Reddy (Associate Professor)	Member	
10.	Dr.S.Sunitha (Assistant Professor)	Member	

**Absent - NIL**

**Prof. Dr. J. Karthikeyan** Convener of BOS, during his introductory comments has explained the existing syllabus of Ist year B.E/B.Tech, M.Sc., and also **explained in detail about the need for framing the outcome based syllabus as per AICTE/UGC in the current global scenario.** As a part of the action taken on the resolutions of 5<sup>th</sup> BOS meeting the members were informed about the inclusion of outcome based syllabus for the 2019 – 2020 batch.

After a brief remark, the agenda items listed below were considered for discussion and the following resolutions were passed.

1. SCYA 1101 – Engineering Chemistry (Common to all branches of I year BE /B.Tech)
2. SCYA 2101- Engineering Chemistry Lab (Common to all branches of I year BE/B.Tech)
3. B.Sc., M.Sc., Chemistry



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### **Points of Revision for UG/PG Courses**

#### **SCYA1101**

- Dr.P.Bhyrappa and Dr.V.Subraminian, recommended that Unit - 1 could not be completed within the stipulated time of 12 h and hence MO of  $H^{2+}$  ion molecule is removed.
- Suggested to include microwave spectroscopy in Unit -2.
- Suggested to change the title for Unit -2 and Unit-3 as Molecular Spectroscopy and Functional Materials.
- Suggested to include the 2D Nanomaterials and rearrange the entire Unit -4.
- Recommended to include Nanochemistry by replacing lubricants and composites in Unit-5.



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- As per the members suggestion, Engineering Chemistry syllabus completely revised (more than 80 %) with new topic such as Unit 1 – replacing Nano materials with Bonds to Bands., Unit 2 Water technology with Molecular Spectroscopy, Unit 3 Electrochemistry with Functional Materials, Unit 4 Insulating materials with Carbon materials for Health, Stealth and Energy and Unit 5 Engineering materials comprises of Nano materials, Phase rule and Fuels.
- The above suggestion were carried out and incorporated in appropriate places.
- New syllabus for Engineering Chemistry (outcome based) as per AICTE/UGC norms with blooms Taxonomy is framed with New Code of SCYA 1101.

### **B.Sc Syllabus**

The Members felt that the syllabus can be retained as such without any modification as the course have been studied in 2017-2020, and a single batch students haven't graduated from the course. The syllabus can be modified/upgraded in the next BOS meeting (if necessary).

### **M.Sc Syllabus**

- As per the members suggestion, M.Sc. Chemistry syllabus has been completely revised (More than 40%) by introducing interdisciplinary course such as Chem informatics, and Computational Chemistry Lab. We replaced Physical Organic Chemistry with new syllabus Applications of Spectroscopy. We have introduced new topics in Organic synthesis and Retro synthetic methods, Coordination Chemistry, Thermodynamics etc,
- Members also suggested revising the certain portions of M.Sc. Chemistry syllabus as per CSIR – NET syllabus for the benefit of students to clear NET/GATE exam. The topics like Environmental chemistry, Green chemistry, Supramolecular chemistry, Bio-inorganic/organic chemistry, need to be considered as elective papers or to be included as a unit in the core subject as it is gaining importance in NET/GATE.



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- The syllabus for M.Sc., Chemistry as per UGC norms is reframed by the guidance of BOS members.

### Conclusion:

As per recommendation by the members, the syllabus for all the courses has been reframed.

ITEM No: BOS/April 2019:

For Board of council  
approval

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For Board of council  
approval

*J. K. S. K. S.*  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF CHEMISTRY  
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