


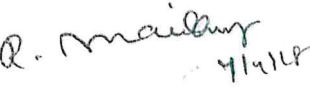
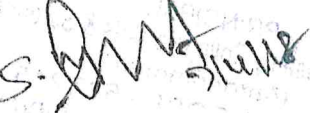



K.S.RANGASAMY COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)
TIRUCHENGODE - 637215
DEPARTMENT OF CHEMISTRY

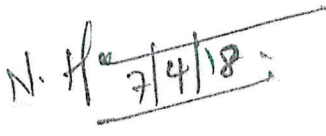


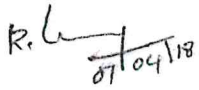
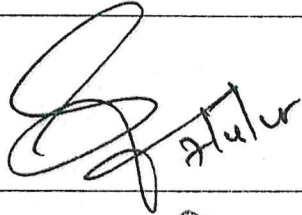
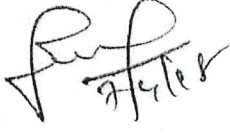


The board of studies for Chemistry (UG & PG) is held on 07-04-2018 at the Department of Chemistry, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode – 637215, to approve the syllabus with effect from the academic year 2018-2019.

The syllabus for 2018-2019 has been thoroughly discussed and resolved that the programme structure for B.Sc., Chemistry and M.Sc., Chemistry are approved with effect from the academic year 2018-2019.

The suggestions given by members are given in Annexure-I & Annexure-II.

S.No.	Name & Official Address	Signature
1	Dr. P. Viswanathamurthi Professor Department of Chemistry School of Physical Sciences Periyar University Salem – 636 011	 07/04/18
2	Dr. A. Muthusamy Assistant Professor Department of Chemistry Sri Ramakrishna Mission Vidyalaya College of Arts and Science (Autonomous) Coimbatore - 641 020	 07/04/18
3	Dr. K. Balasubramani Assistant Professor Department of Chemistry Government Arts College (Autonomous) Karur – 639005	ABSENT
5	Dr. A. Kathirvel Assistant Professor & Head Department of Chemistry K.S.Rangasamy College of Arts & Science Tiruchengode – 637 215	
6	Dr. R. Manikandan Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science Tiruchengode – 637 215	 7/4/18
7	Dr. S. Mathankumar Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode – 637215	 7/4/18


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8	Mr. N. Hari Prabhu Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode – 637215	 N. H. 27/4/18
9	Ms. E. Narmatha Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode – 637215	 E. N. 27/4/18
10	Mr. K. Moorthi Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode – 637215	 K. Moorthi 27/4/18
11	Ms. R. Lavanya Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode – 637215	 R. L. 27/04/18
12	Mrs. S. Padma Assistant Professor & Head Department of Computer Application K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode – 637215	 S. Padma 27/4/18
13	Mr. S. Jegadeesan Assistant Professor & Head (PG) Department of Mathematics K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode – 637215	 S. Jegadeesan 27/4/18
14	Dr. G. Suresh Kumar Assistant Professor and Head (PG) Department of Physics K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode – 637215	 G. Suresh Kumar 27/4/18
15	Dr. M. Venkatesh Assistant Professor and Head (UG) Department of Physics K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode – 637215	 M. Venkatesh 27/04/18


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27/04/18

K.S.RANGASAMY COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)
TIRUCHENGODE - 637215
DEPARTMENT OF CHEMISTRY

Name & Official Address	Position	Nominated by
Dr. A. Kathirvel Assistant Professor and Head Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous) Tiruchengode – 637215	Chairman	Principal
Department Faculty Members		
1. Dr. R. Manikandan Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous) Tiruchengode – 637215 2. Dr. S. Mathankumar Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous) Tiruchengode – 637215 3. Mr. N. Hari Prabhu Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous) Tiruchengode – 637215 4. Ms. E. Narmatha Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous) Tiruchengode – 637215 5. Mr. K. Moorthi Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous)	Members	Principal



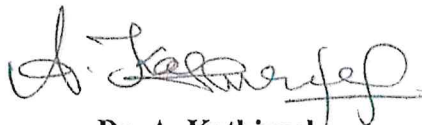
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Tiruchengode – 637215		
6. Ms. R. Lavanya Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous) Tiruchengode – 637215		
External Members		
Subject Experts		
1. Dr. P. Viswanathamurthi Professor Department of Chemistry School of Physical Sciences Periyar University Salem – 636 011	Member	Vice Chancellor
2. Dr. A. Muthusamy Assistant Professor Department of Chemistry Sri Ramakrishna Mission Vidyalaya College of Arts and Science (Autonomous) Coimbatore - 641 020	Member	Academic Council
3. Dr. K. Balasubramani Assistant Professor Department of Chemistry Government Arts College (Autonomous) Karur – 639005	Member	Academic Council
Representing Industry		
A.S. Pushpanathan Head (Water treatment plant) Mahindra Water Utilities Ltd Indra nagar Erode - 638381	Member	Principal
Meritorious Alumni		
S. Jayamurugan Deputy Quality Controller Chemplast Shanmar Plant II Mettur Salem – 636 403	Member	Principal
Supporting Department(s) - Faculty Members		
1. Mrs. S. Padma Assistant Professor & Head Department of Computer Application	Co-opted member	Principal


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K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode – 637215		
2. Mr. S. Jegadeesan Assistant Professor and Head (PG) Department of Mathematics K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode – 637215	Co-opted member	Principal
3. Dr. G. Suresh Kumar Assistant Professor and Head (PG) Department of Physics K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode – 637215	Co-opted member	Principal
4. Dr. M. Venkatesh Assistant Professor and Head (UG) Department of Physics K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode – 637215	Co-opted member	Principal


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Dr. A. Kathirvel

Chairman- BOS Chemistry

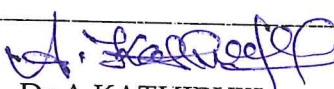
**K. S. Rangasamy College of Arts and Science (Autonomous),
Tiruchengode - 637 215
Department of Chemistry
BOS (2018-2019)**

Suggestions and Revisions:

The following were the revisions made in B.Sc Chemistry for the First Year
(2018-2019) Syllabus.

Semester	Subject Name	Modifications
I	Core I : General Chemistry-I	<ul style="list-style-type: none"> ✓ Periodic properties definition is removed from Unit I ✓ Hard and soft acids and bases topics are included in Unit II ✓ Bifunctional group and priority rule of functional group are included in Unit III ✓ Tetravalency of carbon, factors affecting covalent bond and displacement have been removed from Unit III ✓ Basic idea of diradical (carbene & nitrene) is included in Unit III ✓ 20% of the syllabus has been changed
I	Core II: Industrial Chemistry-I	<ul style="list-style-type: none"> ✓ Paints and varnishes included in Unit II ✓ The batteries topic are moved to unit Unit V due to large content ✓ Polymer topic changed to batteries and basic co cept of electro chemistry to Unit V ✓ 25% of the syllabus has been changed
II	Core III: General Chemistry II	<ul style="list-style-type: none"> ✓ Metallic bond definition is included in Unit I ✓ Path and state functions are included in Unit IV ✓ Gas constant, critical temperature and critical volume have been removed from Unit V ✓ 5% of the syllabus has been changed.
II	Core Practical II: Organic qualitative analysis	<ul style="list-style-type: none"> ✓ Experimental tittle has been changed as schematic analysis of organic substance ✓ 5% of the syllabus has been changed.
I	Value Added: Chemistry in everyday life	<ul style="list-style-type: none"> ✓ New certificate course has been introduced in order to meet the daily life requirements ✓ 100% of the syllabus has been changed


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Dr.A.KATHIRVEL
Chairman - BOS


**K. S. Rangasamy College of Arts and Science (Autonomous),
Tiruchengode – 637 215
Department of Chemistry
BOS (2018-2019)
Percentage of Syllabus Revision**

The following are the percentage of syllabus revision made in B.Sc Chemistry for the First Year (2018-2019) Syllabus.

Subject Name and Code	Modifications	% of Change
General Chemistry I 18UCHM101	<ul style="list-style-type: none"> ✓ Periodic properties definition is removed from Unit I. Hard and soft acids and bases topics are included in Unit II ✓ Bifunctional group and priority rule of functional group are included in Unit III ✓ Tetravalency of carbon, factors affecting covalent bond and displacement have been removed from Unit III ✓ Basic idea of diradical (carbene & nitrene) is included in Unit III ✓ 20% of the syllabus has been changed 	20%
Industrial Chemistry 18UCHM102	<ul style="list-style-type: none"> ✓ Paints and varnishes included in Unit II ✓ The batteries topic are moved to unit Unit V due to large content ✓ Polymer topic changed to batteries and basic concept of electro chemistry to Unit V ✓ 25% of the syllabus has been changed 	25%
General Chemistry II 18UCHM201	<ul style="list-style-type: none"> ✓ Metallic bond definition is included in Unit I ✓ Path and state functions are included in Unit IV ✓ Gas constant, critical temperature and critical volume have been removed from Unit V ✓ 5% of the syllabus has been changed. 	5%
Organic qualitative analysis 18UCHMP201	<ul style="list-style-type: none"> ✓ Experimental title has been changed as schematic analysis of organic substance ✓ 5% of the syllabus has been changed. 	5%
Chemistry in Everyday life 18UCHCC01	<ul style="list-style-type: none"> ✓ New certificate course has been introduced in order to meet the daily life requirements ✓ 100% of the syllabus has been changed 	100%

Total Percentage of syllabus revision carried out in First Year is **9.16**


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Dr.A.KATHIRVEL
Chairman – BOS

K. S. Rangasamy College of Arts and Science (Autonomous)
Tiruchengode - 637 215
Department of Chemistry

Highlights of Syllabus Revision- BOS (2018-2019)

The following are the highlights of syllabus revision in B.Sc Chemistry for the First Year (2018-2019) Syllabus.

- As per the suggestion from the BOS members, syllabus has focused to local, Regional and national needs.
- As per the feedback received from the subject experts new contents such as Paints and varnishes included to fulfill the industry requirements
- The course content has been framed considering the values and ethics of current trends of chemical science.
- Included contents in the course with respect to the development of employability, entrepreneurship and skill of the students.
- The course content has been framed considering the values and ethics, environmental sustainability.


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Dr.A.KATHIRVEL




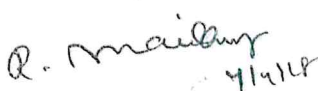

Chairman - BOS


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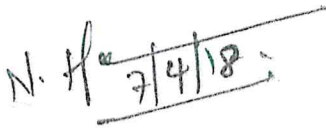


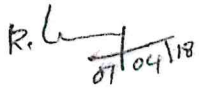
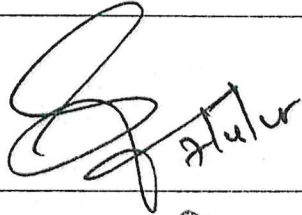
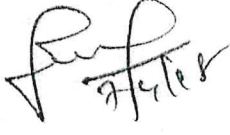


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The suggestions given by members are given in Annexure-I & Annexure-II.

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6	Dr. R. Manikandan Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science Tiruchengode – 637 215	 7/4/18
7	Dr. S. Mathankumar Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode – 637215	 7/4/18


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TIRUCHENGODE - 637215
DEPARTMENT OF CHEMISTRY

Name & Official Address	Position	Nominated by
Dr. A. Kathirvel Assistant Professor and Head Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous) Tiruchengode – 637215	Chairman	Principal
Department Faculty Members		
<ol style="list-style-type: none"> 1. Dr. R. Manikandan Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous) Tiruchengode – 637215 2. Dr. S. Mathankumar Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous) Tiruchengode – 637215 3. Mr. N. Hari Prabhu Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous) Tiruchengode – 637215 4. Ms. E. Narmatha Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous) Tiruchengode – 637215 5. Mr. K. Moorthi Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous) 	Members	Principal



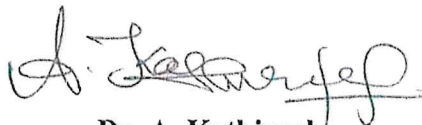
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Tiruchengode – 637215		
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Meritorious Alumni		
S. Jayamurugan Deputy Quality Controller Chemplast Shanmar Plant II Mettur Salem – 636 403	Member	Principal
Supporting Department(s) - Faculty Members		
1. Mrs. S. Padma Assistant Professor & Head Department of Computer Application	Co-opted member	Principal


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3. Dr. G. Suresh Kumar Assistant Professor and Head (PG) Department of Physics K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode – 637215	Co-opted member	Principal
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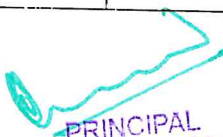
Chairman- BOS Chemistry

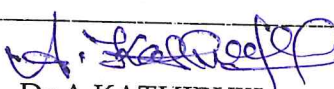
K. S. Rangasamy College of Arts and Science (Autonomous),
Tiruchengode - 637 215
Department of Chemistry
BOS (2018-2019)

Suggestions and Revisions:

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Semester	Subject Name	Modifications
I	Core I: General Chemistry-I	<ul style="list-style-type: none"> ✓ Periodic properties definition is removed from Unit I ✓ Hard and soft acids and bases topics are included in Unit II ✓ Bifunctional group and priority rule of functional group are included in Unit III ✓ Tetravalency of carbon, factors affecting covalent bond and displacement have been removed from Unit III ✓ Basic idea of diradical (carbene & nitrene) is included in Unit III ✓ 20% of the syllabus has been changed
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II	Core III: General Chemistry II	<ul style="list-style-type: none"> ✓ Metallic bond definition is included in Unit I ✓ Path and state functions are included in Unit IV ✓ Gas constant, critical temperature and critical volume have been removed from Unit V ✓ 5% of the syllabus has been changed.
II	Core Practical II: Organic qualitative analysis	<ul style="list-style-type: none"> ✓ Experimental tittle has been changed as schematic analysis of organic substance ✓ 5% of the syllabus has been changed.
I	Value Added: Chemistry in everyday life	<ul style="list-style-type: none"> ✓ New certificate course has been introduced in order to meet the daily life requirements ✓ 100% of the syllabus has been changed


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Dr.A.KATHIRVEL
Chairman - BOS


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Department of Chemistry
BOS (2018-2019)
Percentage of Syllabus Revision**

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Industrial Chemistry 18UCHM102	<ul style="list-style-type: none"> ✓ Paints and varnishes included in Unit II ✓ The batteries topic are moved to unit Unit V due to large content ✓ Polymer topic changed to batteries and basic concept of electro chemistry to Unit V ✓ 25% of the syllabus has been changed 	25%
General Chemistry II 18UCHM201	<ul style="list-style-type: none"> ✓ Metallic bond definition is included in Unit I ✓ Path and state functions are included in Unit IV ✓ Gas constant, critical temperature and critical volume have been removed from Unit V ✓ 5% of the syllabus has been changed. 	5%
Organic qualitative analysis 18UCHMP201	<ul style="list-style-type: none"> ✓ Experimental title has been changed as schematic analysis of organic substance ✓ 5% of the syllabus has been changed. 	5%
Chemistry in Everyday life 18UCHCC01	<ul style="list-style-type: none"> ✓ New certificate course has been introduced in order to meet the daily life requirements ✓ 100% of the syllabus has been changed 	100%

Total Percentage of syllabus revision carried out in First Year is **9.16**


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Department of Chemistry

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- As per the feedback received from the subject experts new contents such as Paints and varnishes included to fulfill the industry requirements
- The course content has been framed considering the values and ethics of current trends of chemical science.
- Included contents in the course with respect to the development of employability, entrepreneurship and skill of the students.
- The course content has been framed considering the values and ethics, environmental sustainability.


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Namakkal-Dt, Tamil Nadu, INDIA


Dr.A.KATHIRVEL

Chairman - BOS

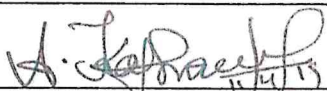


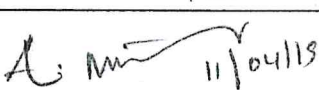
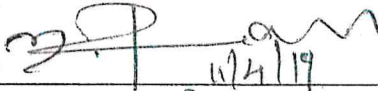

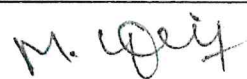
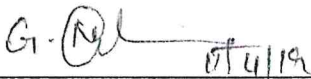
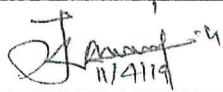


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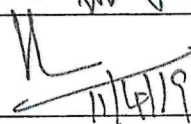
DEPARTMENT OF CHEMISTRY

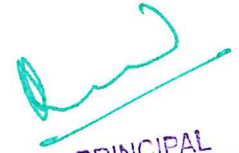
The Board of Studies for B.Sc., & M.Sc., Chemistry was held on 11.04.2019 at 10.00 AM in the Department of Chemistry, K.S.Rangasamay College of Arts and Science (Autonomous), Tiruchengode to approve the syllabus with effect from the academic year 2019 – 20.

MEMBERS PRESENT

S.No	Name and Designation	Signature
1.	Dr. A. Kathirvel Chairman – BoS	
2.	Dr. P. Viswanathamurthi Member – Nominated by Vice Chancellor	
3.	Dr. K. Balasubramani Member – Nominated by Academic Council	
4.	Dr. A. Muthusamy Member – Nominated by Academic Council	
5.	S. Jayamurugan Alumni Member – Nominated by Principal	Absent
6.	A.S. Pushpanathan Member Representing Industry–Nominated by Principal	Absent
7.	Mr. M. Ravikumar Member - Department of Chemistry	
8.	Ms. A. Subhashri Member - Department of Chemistry	
9.	Ms. M. Gayathri Member - Department of Chemistry	
10.	Ms. G. Nikitha Member - Department of Chemistry	
11.	Mr. G. Karthi Member - Department of Chemistry	
12.	Ms. S. Kalaipriya Member - Department of Chemistry	
13.	Mr.S. Padma Co-opted Member – Nominated by Principal	


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14.	Mr. S. Jagadeesan Co-opted Member – Nominated by Principal	 11/4/19
15.	Dr. G. Suresh Kumar Co-opted Member – Nominated by Principal	 11/4/19
16.	Dr. M. Venkatesh Co-opted Member – Nominated by Principal	 11/4/19


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2019-20
K.S. RANGASAMY COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS),
TIRUCHENGODE - 637 215.

DEPARTMENT OF CHEMISTRY

S.No	Name	Position	Nominated by
1.	Dr. A. Kathirvel Assistant Professor & Head Department of Chemistry K.S.Rangasamy College of Arts & Science (Autonomous) Tiruchengodu -637 215	Chairman	Principal
2.	Department Faculty: Mr. M. Ravikumar Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts & Science (Autonomous) Tiruchengodu -637 215 Ms. A. Subhashri Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts & Science (Autonomous) Tiruchengodu -637 215 Ms. M. Gayathri Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts & Science (Autonomous) Tiruchengodu -637 215 Ms. G. Nikitha Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts & Science (Autonomous) Tiruchengodu -637 215 Mr. G. Karthi Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts & Science (Autonomous) Tiruchengodu -637 215	Members	Principal


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	Ms. S. Kalaipriya Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts & Science (Autonomous) Tiruchengodu -637 215		
3	Dr. A. Muthusamy Assistant Professor of Chemistry Sri Ramakrishna Mission Vidyalaya College of Arts and Science (Autonomous) Coimbatore - 641 020	Members	Academic Council
	Dr. K. Balasubramani Assistant Professor Department of Chemistry Government Arts College (Autonomous) Karur- 639 005		
4.	Dr. P. Viswanathamurthi Professor of Chemistry School of Physical Sciences Periyar University Salem - 636 011	Member	Vice Chancellor
5.	A.S. Pushpanathan Head (Water treatment plant) Mahindra Water Utilities Ltd Indra Nagar Erode - 638 381	Member Representing Industry	Academic Council
6.	S. Jayamurugan Deputy Quality Controller Chemplast Shanmar Plant II Mettur Salem - 636403	Member Meritorious Alumnus	Principal
7.	Mr.S. Padma Assistant Professor & Head Department of Computer Applications K.S.Rangasamy College of Arts & Science (Autonomous) Tiruchengodu -637 215	Co-opted Members	Principal
	Mr. S. Jagadeesan Assistant Professor & Head Department of Mathematics K.S.Rangasamy College of Arts & Science (Autonomous) Tiruchengodu -637 215		

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Dr. G. Suresh Kumar Assistant Professor and Head (PG) Department of Physics K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode – 637215	Co-opted Members	Principal
Dr. M. Venkatesh Assistant Professor and Head (UG) Department of Physics K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode – 637215		


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Tiruchengode - 637 215


Department of Chemistry

BOS (2019-2020)

Suggestions and Revisions:

The following were the revisions made in B.Sc Chemistry for the Second Year (2019-2020) Syllabus.

Semester	Subject Name	Modifications
III	Core V : General Chemistry III	<ul style="list-style-type: none">✓ Comparative study of alkali metals with respect to oxides, hydroxides, halides and carbonates has been included to Unit I✓ Comparative studies of SN1 and SN2 reactions have been included in Unit II✓ Phenols topic is shifted to Unit II✓ Aldehydes and ketones are removed and included in semester IV✓ 30% of the syllabus has been changed
III	NMEC I : Applied Chemistry I	<ul style="list-style-type: none">✓ Leather chemistry and diary chemistry has been included instead of chemical hazards✓ Soil chemistry has been shifted to Unit IV✓ 40% of the syllabus has been changed
III	Add-on course: Water quality analysis and treatment	<ul style="list-style-type: none">✓ Diploma courses from semester III and semester IV were merged as add-on course✓ 20% of the syllabus has been changed
IV	Add-on course: Chemistry of Milk and Milk Products	<ul style="list-style-type: none">✓ New subject has been introduced in order to fulfill the industry requirements✓ 100% of the syllabus has been changed
IV	Advanced Learners Course - Chemistry in Daily life	<ul style="list-style-type: none">✓ New subject has been introduced in order to fulfill the industry requirements✓ 100% of the syllabus has been changed


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IV	Advanced Learners Course Chemistry In Context"	<ul style="list-style-type: none">✓ New subject has been introduced in order to fulfill the industry requirements✓ 100% of the syllabus has been changed
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Chairman - BOS

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Tiruchengode - 637 215


Department of Chemistry - BOS (2019-2020)


Percentage of syllabus revision

The following are the Percentage of syllabus revision in B.Sc Chemistry for the Second Year (2019-2020) Syllabus.

Subject Name and Code	Modifications	% of Change
General Chemistry III 18UCHM301	<ul style="list-style-type: none">✓ Comparative study of alkali metals with respect to oxides, hydroxides, halides and carbonates has been included to Unit I✓ Comparative studies of SN1 and SN2 reactions have been included in Unit II✓ Phenols topic is shifted to Unit II Aldehydes and ketones are removed and included in semester IV✓ 30% of the syllabus has been changed	30%
Applied Chemistry I 18UCHNM301	<ul style="list-style-type: none">✓ Leather chemistry and diary chemistry has been included instead of chemical hazards✓ Solid chemistry has been shifted to Unit IV✓ 40% of the syllabus has been changed	40%
Water quality analysis and Treatment - 18UCHAC301	<ul style="list-style-type: none">✓ Diploma courses from semester III and semester IV were merged as add-on course 20% of the syllabus has been changed	20%
Chemistry of Milk and Milk Products - 18UCHAC401	<ul style="list-style-type: none">✓ New subject has been introduced in order to fulfill the Entrepreneurship requirements✓ 100% of the syllabus has been changed	100%
Advanced Learners Course 21UCHAL401	<ul style="list-style-type: none">✓ New subject has been introduced in order to know the practical aspects of chemistry✓ 100% of the syllabus has been changed	100%
Advanced Learners Course 21UCHAL402	<ul style="list-style-type: none">✓ New subject has been introduced in order to develop analytical skills✓ 100% of the syllabus has been changed	100%

Total Percentage of syllabus revision carried out in Second Year is 39%.


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Department of Chemistry

Highlights of Syllabus Revision- BOS (2019-2020)

The following are the highlights of syllabus revision in B.Sc Chemistry for the Second Year (2019-2020) Syllabus.

- The objective of the programme is to prepare the students to meet out the domestic and global development needs and accordingly content of the courses are been formulated.
- Based on the suggestions given by the BOS members, Employability course like Water quality analysis and Treatment and Entrepreneurship course Chemistry of Milk and Milk Products, were included in syllabus.
- For improving credits of advanced learners the courses "Chemistry in Daily life" and "Chemistry In Context" have been offered in the fourth Semester.
- SBC courses have been offered in the third and fourth semester to develop the student's skills.
- Included contents in the course with respect to the development of employability, entrepreneurship and skill of the students.


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Chairman - BOS

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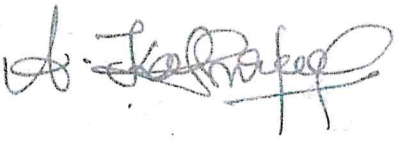
DEPARTMENT OF CHEMISTRY

(Online Mode)




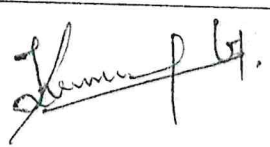
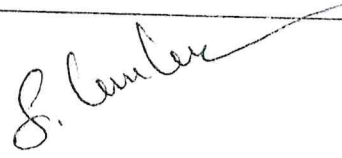
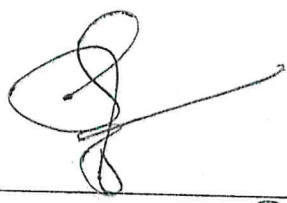
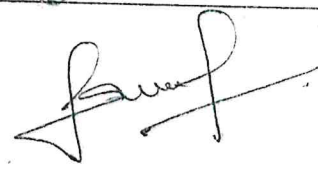

The board of studies for Chemistry (UG) is held on 23-05-2020 at the Department of Chemistry, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode – 637215, to approve the syllabus with effect from the academic year 2020-2021.

The syllabus for 2020-2021 has been thoroughly discussed and resolved that the programme structure for B.Sc., Chemistry is approved with effect from the academic year 2020-2021.

The suggestions given by members are given in Annexure-I.


S.No.	Name & Official Address	Signature
1	Dr. P. Viswanathamurthi Professor Department of Chemistry School of Physical Sciences Periyar University Salem – 636 011	Signature not required
2	Dr. A. Muthusamy Assistant Professor Department of Chemistry Sri Ramakrishna Mission Vidyalaya College of Arts and Science (Autonomous) Coimbatore - 641 020	Signature not required
3	Dr. K. Balasubramani Assistant Professor Department of Chemistry Government Arts College (Autonomous) Karur – 639005	Signature not required.
5	Dr. A. Kathirvel Assistant Professor & Head Department of Chemistry K.S.Rangasamy College of Arts & Science Tiruchengode – 637 215	


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6	Dr. M. Ravikumar Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science Tiruchengode - 637 215	
7	Dr. A. Subhashri Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode - 637215	
8	Mr. M. Gayathri Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode - 637215	
09	Mr. G. Karthi Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode - 637215	
10	Ms. S. KalaiPriya Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode - 637215	
11	Mrs. S. Padma Assistant Professor & Head Department of Computer Application K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode - 637215	
12	Mr. S. Jagadeesan Assistant Professor & Head (PG) Department of Mathematics K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode - 637215	
13	Dr. G. Suresh Kumar Assistant Professor and Head (PG) Department of Physics K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode - 637215	


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14	Dr. M. Venkatesh Assistant Professor and Head (UG) Department of Physics K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode - 637215	
15	A.S. Pushpanathan Head (Water treatment plant) Mahindra Water Utilities Ltd Indra Nagar Erode - 638 381	Signature not required
16	S. Jayamurugan Deputy Quality Controller Chemplast Shanmar Plant II Mettur Salem - 636403	Signature not required


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TIRUCHENGODE-637215

DEPARTMENT OF CHEMISTRY (UG & PG)

MEMBERS OF BOARD OF STUDIES (2020-2021)

Name and Address	Position	Nominated by
Dr.A.Kathirvel Assistant Professor and Head, Department of Chemistry, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode 637215	Chairman	Principal
Department Faculty Mr. M.Ravikumar Assistant Professor, Department of Chemistry, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode 637215 Ms. A.Subhashri Assistant Professor, Department of Chemistry, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode 637215 Ms. M.Gayathri Assistant Professor, Department of Chemistry, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode 637215 Ms. G.Karthi Assistant Professor, Department of Chemistry, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode 637215 Ms. S.Kalaipriya Assistant Professor, Department of Chemistry, K.S.Rangasamy College of Arts	Members	Principal


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and Science (Autonomous), Tiruchengode 637215		
Dr. A.Muthusamy Assistant Professor Department of Chemistry Sri Ramakrishna Mission Vidyalaya College of Arts and Science (Autonomous) Coimbatore - 641 020. Dr.K.Balasubramani Assistant Professor Department of Chemistry Govt. Arts & Science College (Autonomous) Karur - 639 005	Member	Academic Council
Dr. P.Viswanathamurthi Professor Department of Chemistry Periyar University Salem - 636 011	Member	Vice Chancellor
Mr. A.S.Pushpanathan Head (Water treatment Plant) Mahindra water Utilities Ltd Indhara Nagar Erode - 638 381	Member Representing Corporate/Industry	Academic Council
Mr. S. Jayamurugan Deputy Quality Controller Chemlast Shanmar Plant II Mettur Salem - 636 403	Member Meritorious Alumini	Principal
Ms. S.Padma Assistant Professor and Head, Department of Computer Applcations, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode 637215 Mr. S.Jagadeesan Assistant Professor and Head, Department of Mathematics, K.S.Rangasamy College of Arts	Co-opted Members	Principal


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and Science (Autonomous), Tiruchengode 637215		
Dr. G. Sureshkumar Assistant Professor and Head, Department of Physics (PG), K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode 637215		
Dr. M.Venkatesh Assistant Professor and Head, Department of Physics (UG), K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode 637215		


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Department of Chemistry

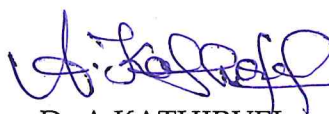
BOS (2020-2021)

Suggestions and Revisions:

The following revisions were made in B.Sc Chemistry for the third year
(2020-2021) Syllabus.

Semester	Subject Name	Modifications
V	Core X: Analytical Chemistry	✓ Unit I has been changed ✓ 20% of the syllabus has been changed
V	Elective II: Spectroscopy II	✓ New subject has been introduced in order to develop problem solving ability of the students ✓ 100% of the syllabus has been changed
VI	Organic Chemistry II	✓ Oxycope rearrangement and cope rearrangement. has been included in Unit I ✓ Wolf Kishner reduction, MPV reduction and Rosenmund reduction, Cope rearrangement, Claisen condensation, Benzoin condensation and Perkin reaction are removed from Unit IV ✓ 10% of the syllabus has been changed
VI	Project and Viva-Voce Examination	✓ New subject has been introduced in order to know the basics of research and develop the analytical skills of the students ✓ 100% of the syllabus has been changed.
VI	Elective II : Bio-Inorganic Chemistry	✓ New subject has been introduced in order to fulfill job opportunities ✓ 100% of the syllabus has been changed.


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Chairman - BOS

**K. S. Rangasamy College of Arts and Science (Autonomous),
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Department of Chemistry
BOS (2020-2021)**

Percentage of Syllabus Revision


The following are the Percentage of syllabus revision in B.Sc Chemistry for the Third Year (2020-2021) Syllabus.

Subject Name and Code	Modifications	% of Change
Analytical Chemistry 18UCHM504	<ul style="list-style-type: none"> ✓ Unit I has been changed ✓ 20% of the syllabus has been changed 	20%
Spectroscopy II 18UCHEL502	<ul style="list-style-type: none"> ✓ New subject has been introduced in order to develop problem solving ability of the students ✓ 100% of the syllabus has been changed 	100%
Organic Chemistry II 18UCHM602	<ul style="list-style-type: none"> ✓ Oxycope rearrangement and cope rearrangement has been included in Unit I ✓ Wolf Kishner reduction, MPV reduction and Rosenmund reduction, Cope rearrangement, Claisen condensation, Benzoin condensation and Perkin reaction are removed from Unit IV ✓ 5% of the syllabus has been changed 	5%
Project and Viva- Voce Examination - 18UCHPR601	<ul style="list-style-type: none"> ✓ New subject has been introduced in order to know the basics of research and develop the analytical skills of the students ✓ 100% of the syllabus has been changed. 	100%
Bio-Inorganic Chemistry 18UCHEL602	<ul style="list-style-type: none"> ✓ New subject has been introduced in order to fulfill job opportunities ✓ 100% of the syllabus has been changed. 	100%

Total Percentage of syllabus revision carried out in Third Year is 21.66%.

The overall percentage revision of syllabus made in B.Sc Chemistry(2018-2021) is 23.27 %.


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Chairman - BOS

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Tiruchengode - 637 215


Department of Chemistry

Highlights of Syllabus Revision- BOS (2020-2021)

The following are the highlights of syllabus revision in B.Sc Chemistry for the Third Year (2020-2021) Syllabus.

- As per the suggestion from the board syllabus have focused to Local, Regional and National needs and accordingly content of the courses are been formulated
- Based on the suggestions given by the BOS members, Employability courses like Spectroscopy II and Bio-Inorganic Chemistry were included in syllabus.
- Elective courses are offered in the fifth and sixth semester to make the students experts in their specialization.
- SBC courses have been offered in the fifth and sixth semester to develop the student's skills.
- Project has been offered in the sixth semester to develop the student's research skills.
- Included contents in the course with respect to the development of employability, entrepreneurship and skill of the students.


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Chairman - BOS