



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

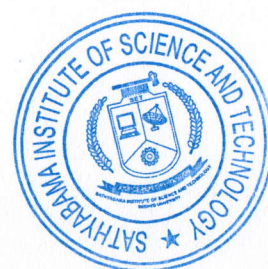
Accredited "A" Grade by NAAC | 12B Status by UGC | Approved by AICTE

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MINUTES OF THE MEETING OF THE SEVENTEETH ACADEMIC COUNCIL HELD THROUGH VIRTUAL MODE ON 21st, NOVEMBER, 2020.

The seventeenth Academic council meeting was held on 21st November, 2020 at 10.00 am with Dr T. Sasipraba, Vice Chancellor as the Chairperson. The following Members were present in the Virtual meeting.

1. Dr. T. Sasipraba
2. Dr. E. Logashanmugam
3. Dr. Wilson Aruni
4. Dr. G. Kulanthivel
5. Dr. R. Govindaraj
6. Er. A. Bose
7. Dr. K. Umamaheshwari
8. Dr. G. Arun Kumar
9. Dr. G.L. Samuel
10. Dr. P. Sagaya Raj
11. Dr. B. Sheela Rani
12. Dr. G. Sundari
13. Dr. Igni Sabasti Prabu
14. Dr. T. Sasikala Madhu
15. Dr. S. Prakash
16. Dr. G. Bhuvaneshwari
17. Dr. B. Thayumanavan
18. Dr. N.M. Nanditha
19. Dr. Dilshad Shaik
20. Dr. Shanmuga Pandiyan
21. Dr. Devayani Gandopadhyay
22. Dr. L. Lakshmi
23. Dr. Lakshmanan
24. Dr. Vigneshwari
25. Dr. R. Subhashini
26. Dr. T. Ravi
27. Dr. V. Sivachidambaranathan
28. Dr. V. Vijayabaskar
29. Dr. G. Arun Kumar
30. Dr. P. Booma Devi
31. Dr. V.K. Bupresh
32. Mrs. Nazini
33. Dr. J. Karthikeyan



34. Dr. Ravichandran
35. Dr. Nirmala
36. Dr. A. Palani
37. Mr. S Ebin Horrison
38. Dr. Bhagya Lakshmi
39. Dr. V. Ramesh Kumar
40. Dr. S. Bathish
41. Dr. T. Sudhakar
42. Dr. Kishore Sonti
43. Dr. Jabez
44. Dr. J Hemanandh

The Registrar welcomed the members of the Academic council. The Vice Chancellor greeted everyone present and submitted the following information to the members of the Academic Council.

- Sathyabama Institute of Science and Technology is ranked 39th in the Universities category by National Institutional Ranking Framework (NIRF) 2020.
1. The Chairman has opened the floor for discussion on agenda points.

AC:20-21 - 17:01	Confirmation of previous minutes of meeting.
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The minutes of the 16th Academic Council was circulated to all the members. As no comments were received, the minutes are placed for confirmation.

AC:20-21 -17:02	Submission of Action taken Report
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The Convener has submitted the details of Action Taken Report of the Resolutions that were resolved in 16th Academic Council meeting and all the members have accepted the same without any comments.

AC:20-21 -17:03	School of Computing
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Dr.T.Sasikala submitted the following resolutions that were approved by the Board of Studies and sought the approval of the same from Academic council for implementation.

- Approval to retain the same syllabus for the courses for 2015 and 2019 curriculum. In addition to that request to approve for conduction of virtual labs were given

Dr. P. Sagaya Raj asked the procedure for conduction of virtual labs and it has been explained by Dr.Laxmanan and Dr.Subhashini. After discussion the members agreed for the same.

The Dean – School of computing has presented the proposal of introducing new programs on CSE with Specialisation in the forth coming academic year 2021-22. The proposal is accepted by all the board



members and the decision was passed to start the following new programmes under the school of Pharmacy.

- CSE – Artificial Intelligence and Machine Learning
- CSE - Artificial Intelligence and Robotics
- CSE – Block Chain Technology
- CSE – Cyber Security

The board moved the approval for the above new programmes and discussed about the process of curriculum design and implementation for the same which would further be discussed in Board of Management meeting.

AC:20-21 – 17:04	School of Electrical and Electronics
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Dr. N.M.Nandhitha submitted the following resolutions which were approved by the Board of Studies and sought the approval of the same from Academic council for implementation.

- Introduction of 'Linux Kernel & Device Driver Programming" as elective for HCL CoE select students in VII semester (complete course delivery by HCL).
- Syllabus revision for Electrical Technology (Theory and practical courses), Principles of Embedded systems, Signals and Systems, Digital Signal Processing and Programming in HDL.
- Approval for Conduct of Circuit laboratories for B.E. Electronics and Communication Engineering, B.E. Electrical and Electronics Engineering, B.E. Electronics and Instrumentation Engineering using MODROBS.

A detailed explanation on MODROBS was given by Dr.V.Vijayabaskhar for the question raised by Dr.Arun Kumar and Dr.Kulanthaivel. The members appreciated the initiative taken by School of Electrical and Electronics Engineering.

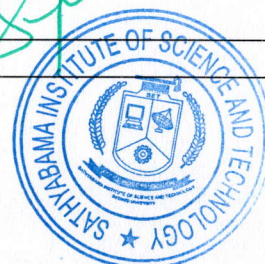
AC:20-21 – 17:05	School of Law
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Dr. Dilshad Shaik submitted the following resolutions which were approved by the Board of Studies and sought the approval of the same from Academic council for implementation.

- Approval for course content modification in 5 years Law Program and 3 Years LLB Program.

The Council approved the agenda points of Law department after explained by Dr. Dilshad Shaik.

AC:20-21 – 17:06	School of Building and Environment
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Dr. Devyani submitted the following resolutions which were approved by the Board of Studies and sought the approval of the same from Academic council for implementation.

- Approval for implementation of Public Health Engineering as CBCS subject for fourth, sixth and eight semester in all branches of B.E Programme in even semester 2020-2021.

Dr. Bose has informed the Board to explore the possibility of Public Health Engineering, especially for Civil Engineering students.

The Deans of the following schools have presented the BoS recommendation of the respective schools for the revision of courses in 2021-22.

School of Science and Humanities
School of Electrical and Electronics
School of Mechanical Engineering – Mechanical
School of Bio and Chemical
School of Pharmacy

The list of courses in which suggested revision has been carried out is presented and the approval of the members is sought. The Board members passed the approval for the same. The list of courses approved for revision is attached in the Annexure.

AC:20-21 – 17: 07	Any other items
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Dr.S.D.Fatima Banu informed the members about assessment schemes and the same has been approved.

With no other items to discuss the Chairperson closed the meeting and called upon the Registrar to deliver the vote of thanks.

The meeting came to a close with the Registrar thanking every member for taking their time in deliberating the various items in the online meeting despite the various constraints.

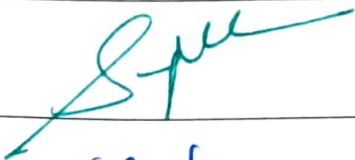
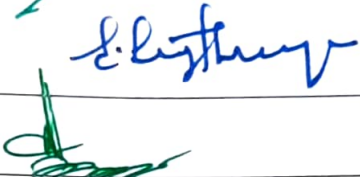
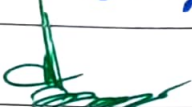
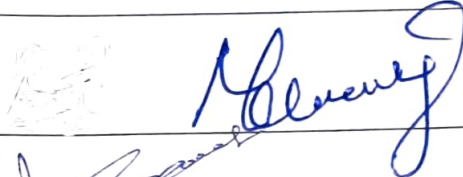
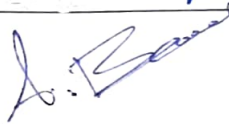
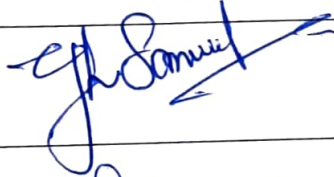


Annexure : List of Programmes in which Courses are approved for Revision

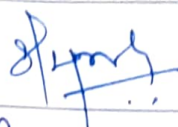
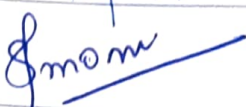
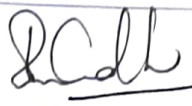
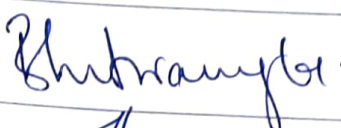
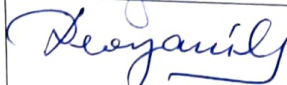
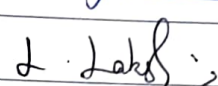
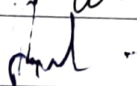
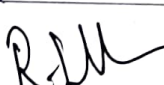
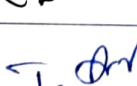
Programme Code	Programme name
13	B.E.- Electronics and Communication Engineering
108	M.E. - Embedded and IOT
14	B.E.- Electrical and Electronics Engineering
19	B.Tech - Chemical Engineering
900	BDS
SDMX0101	MDS in Orthodontics and Dentofacial Orthopedics
SDMX0201	MDS in Pedodontics and Preventive Dentistry
SDMX0301	MDS in Conservative Dentistry and Endodontics
106	D.Pharm
1	BA ENGLISH
97	MA ENGLISH
3	B.Sc Chemistry
15	BE-Mechanical Engineering
24	B.Tech- Biomedical Engineering
12	BTECH-INFORMATION TECHNOLOGY
26	B.E-Aeronautical Engineering
63	M.Sc-Maths
16	BE-Mechatronics Engineering
27	B Sc visual communication
58	Msc visual Communication



Member's Present:

S.NO.	NAME OF THE MEMBER	SIGNATURE
1.	Dr. T. SASIPRABA	
2.	Dr. E. LOGASHANMUGAM	
3.	Dr. ARUNI WILSON	
4.	Dr. G. KULANTHAIVEL	
5.	Dr. R. GOVINDARAJ	
6.	Er. A. BOSE	
7.	Dr. K. UMA MAHESWARI	
8.	Dr. G. ARUN KUMAR	
9.	Dr. G.L. SAMUEL	
10.	Dr. P. SAGAYA RAJ	
11.	Dr. B. SHEELA RANI	



12.	Dr. IGNI SABASTI PRABU	
13.	Dr. SUNDARI G	
14.	Dr. T. SASIKALA MADHU	
15.	Dr. S. PRAKASH	
16.	Dr. BHUVANESHWARI	
17.	Dr. B.THAYUMANAVAN	
18.	Dr. NANDITHA N M	
19.	Dr. DILSHAD SHAIK	
20.	Dr. SHANMUGA PANDIYAN	
21.	Dr. DEVYANI GANGOPADHYAY	
22.	Dr. L. LAKSHMI	
23.	Dr. LAKSHMANAN	
24.	Dr. VIGNESHWARI	
25.	Dr. R. SUBHASHINI	
26.	Dr. RAVI T	
27.	Dr. V. SIVACHIDAMBARANATHAN	

28.	Dr. V. VIJAYA BASKAR	
29.	Dr. G. ARUN KUMAR	
30.	Dr. P BOOMA DEVI	
31.	Dr. V. K. BUPESH RAJA	
32.	Mrs. NAZINI	
33.	Dr. J. KARTHIKEYAN	
34.	Dr. RAVICHANDRAN	
35.	Dr. NIRMALA	
36.	Dr. PALANI A	
37.	Mr. EBIN HARRISON S	
38.	Dr. BHAGYA LAKSHMI	
39.	Dr. V. RAMESH KUMAR	
40.	Dr. SATHISH S	
41.	Dr. T. SUDHAKAR	
42.	Dr. KISHORE SONTI	
43.	Dr. JABEZ	
44.	Dr. HEMANANDH J	
45.	Dr. S.S.RAO	

46. DR. J. AMUTHA MONICA

47. DR. S.D. FATHIMA BANU

Cy - - -
C. J. J.

Bodhi

Rupak

Dr. J.

J. K. K. K. K.

S. S. S.

Dr. N.

Dr. P.

Mr. E. H. S.

Dr. B.

Dr. V.

Dr. S.

Dr. T.

Dr. K.

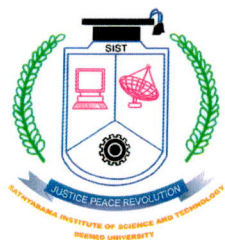
Dr. J.

Dr. H.

Dr. S.

Dr. S.

Dr. S.



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MINUTES OF THE MEETING OF THE FIFTEENTH ACADEMIC COUNCIL HELD ON 15th NOVEMBER, 2019.

The Fifteenth Academic council meeting was held on 15th November, 2019 at 10.00 am with Dr .S. Sundar Manoharan, Vice Chancellor as the Chairperson.

The Registrar welcomed the members of the Academic council to the first meeting of 2019-2020 academic year. The Vice Chancellor greeted everyone present and opened the floor for discussion on agenda points. Vice Chancellor also emphasized on the following points in his opening remarks.

1. The commencement of B.Sc. - Nursing Course with the due approvals from concerned Statutory authorities.
2. The total Number of Schools at present in the Deemed to be University is 11, i.e., School of Computer Science; School of Electrical and Electronics; School of Mechanical; School of Bio and Chemical; School of Building and Environment; School of Science and Humanities; School of Management Studies; School of Dental Science; School of Pharmacy; School of Law and School of Nursing.
3. The details of NBA Accreditation for two Programmes of the Deemed to be University..

AC:19-20 - 15:01	Confirmation of previous minutes of meeting.
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The minutes of the 14th Academic Council was circulated to all the members. As no comments were received, the minutes are placed for confirmation.

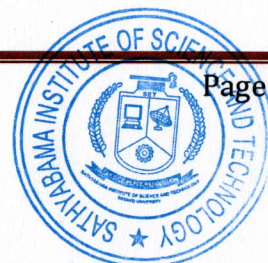
AC:19-20 -15:02	Submission of Action taken Report
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The Convener has submitted the details of Action Taken Report of the Resolutions that were resolved in 14th Academic Council meeting and all the members have accepted the same without any comments.

AC:19-20 -15:03	School of Electrical and Electronics
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Dr. Nanditha has presented the Resolutions that were passed in the Board of Studies and she has sought the approval of the Academic Council for implementation. The proposals submitted before the Committee are

Chairman's Initial



- System programme Course (framed by HCL Technologies) to be included as elective for pre final year students and HCL-Centre of Excellence selected final year students. She has also mentioned that the course delivery is done by the experts from HCL Technologies.
- Inclusion of industry relevant topics in Digital Control and Drive application (6th Semester EEE); Linux Programming in Embedded System (for 6th Semester ECE); Arduino Programming in Micro processor and Micro Controller Laboratory (6th Semester EIE).

The Academic Council approved the above mentioned resolutions submitted by Dr. Nanditha

AC:19-20 -15:04	School of Computing
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Dr. T. Sasikala Madhu has submitted the following Resolutions that were approved by the Board of Studies and sought the approval of the same from Academic Council for implementation.

- Replacement of Machine Learning in place of Data Analytics for Bachelor of Technology in Information Technology in 6th Semester in 2015 Curriculum.
- Replacement of Discrete Mathematics in place of Applied Numerical methods; Theory of Computation in place of Basic Analog and Digital Communication for Bachelor of Technology in Information Technology in 2019 Regulations.
- Modification of syllabus for Python and Problem solving Techniques Laboratory.
- Change of Syllabus for Fundamentals of Python Programming for School of Bio and Chemical Engineering students - 2019 Regulations.

The Academic Council approved the above and suggested key points to be considered while framing the syllabus for B.Sc. - Computer Science 2020 Regulations.

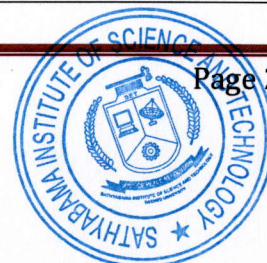
The Dean- school of computing presented the list of new programmes to be introduced in the forth coming academic year 2020-21 with all the necessary documents such as list of courses for each programme, syllabus for all the courses with reference details. The recommendations from the Board of Studies – school of computing for the above is presented in front of the board members.

- Computer Science and Engineering Specialization with Artificial Intelligence
- Computer Science and Engineering Specialization with IoT
- Computer Science and Engineering Specialization with Data Science

The board moved the approval for the above new programmes.

AC:19-20 -15:05	School of Bio and Chemical Engineering
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Chairman's Initial



Dr. Ramesh Kumar has submitted the following Resolutions that were approved by the Board of Studies and sought the approval of the same from Academic Council for implementation.

- Syllabus for B.Sc. - Biotechnology; Microbiology; Biochemistry; M.Sc. - Biotechnology; Microbiology, Biochemistry as per 2020 Regulations.
- Revised syllabus for B.Sc. - Bio-informatics and Data sciences and M.Sc. - Bio-informatics and Data sciences as per 2019 Regulations.
- Syllabus for B.Sc. - Clinical Nutrition and Dietetics as per 2020 Regulations
- Chemical Engineering Thermodynamics - I and II shifted from 2nd and 3rd Semester to 3rd and 4th Semester respective for Bachelor of Technology in Chemical Engineering, as per 2019 Regulations.

The Academic Council approved the above mentioned resolutions.

Dr.Premkumar / Dept.of Bio Medical has presented the BoS recommendations for introducing two new programmes on allied health Sciences in the year 2020-21, with all necessary documents and sought the approval of the board members.

- B.Sc. Clinical Nutrition & Dietetics
- B.Sc. Medical Laboratory Technology

The board moved the approval for the above new programmes.

AC:19-20 -15:06	School of Nursing
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Dr. Lakshmi, Dean, School of Nursing has informed the Board that the Government of Tamilnadu and Tamilnadu Nurses and Midwives Council have given the permission to commence B.Sc. - Nursing - 4 years Under Graduate Course. with an annual intake of 60 students. She has requested the Academic Council to ratify the syllabus as it is mandatory to follow the syllabus prescribed by Indian Nursing Council.

The Academic Council approved the above mentioned resolutions.

AC:19-20 -15:07	School of Building and Environment
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Dr. Devyani Gangopadhyay submitted the Resolutions that were passed by the Board of Studies and sought the approval of the Academic Council. The Resolutions put forward by the Dean are

- Approval of syllabus for Bachelor of Design (Interior Design) and Bachelor of Science in Fashion Design.

The Academic Council has approved the syllabus for Bachelor of Design (Interior Design) and Bachelor of Science in Fashion Design and given the suggestions and

Chairman's Initial

Spk



guidelines for the Syllabus revision for Bachelor of Architecture and Master of Architecture according to Council of Architecture 2017 Regulations.

AC:19-2-15:08	School of Science and Humanities
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Dr. M. sundareswari submitted the Resolutions that were passed by the Board of Studies and sought the approval of the Academic Council. The Resolutions put forward by the Dean are

- Ratification of M.Sc(Chemistry)
- 2020 Regulations syllabus of B.Sc- Mathematicss, Physics, Chemistry, Visual Communication; M.Sc- Physics, Mathematics and Visual Communication syllabus.

Dr.R.GovindaRaj suggested to include a paper/topic on "Chemometrics" in M.Sc (Chemistry) syllabus.

Dr.K.Uma Maheswari suggested to rename 'Media Ethics' Course of B.Sc(Viscom) as 'Media Law and Ethics'. Further, she has suggested to include topics on data storage/data preservation techniques.

By incorporating the above changes, the Academic Council has approved the Regulations of 2020 for B.Sc- Mathematics, Physics, Chemistry, Visual Communication; M.Sc- Physics, Mathematics and Visual Communication syllabus and ratified the syllabus of M.Sc. - Chemistry.

AC:19-20 -15:08	School of Management Studies
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Dr. Bhuvaneshwari, Dean, School of Management Studies has informed the Committee that All India Council for Technical Education (AICTE) has selected 16 private Institutions across the country to introduce MBA in Waste Management and Social Entrepreneurship. The approval for this course is given by All India Council for Technical Education and the syllabus is framed by Ministry of Human Resource Development. The Board of studies of School of Management Studies.

The Deans of the following schools have presented the BoS recommendation of the respective schools for the introduction of new courses / revision of existing courses in 2020-21.

School of Computing,
School of Electrical and Electronics,
School of Bio and Chemical Engineering,
School of Building and Environment
School of Mechanical Engineering
School of Science and Humanities
School of Pharmacy for D.Pharm

Chairman's Initial

Spu



The list of new courses recommended by BoS and the courses suggested for revision with the recommended revisions is presented for the approval of the members. The Board members passed the approval for the same. The list of approved new courses is attached in the Annexure.

The Academic Council approved the above mentioned resolutions.

Vice Chancellor thanked all the External experts who have completed their term as members of Academic Council and suggested the Deans and Heads of Various schools to utilize their expertise in their respective academic area.

As there was no other item for discussion, the meeting ended with vote of thanks by the Registrar.

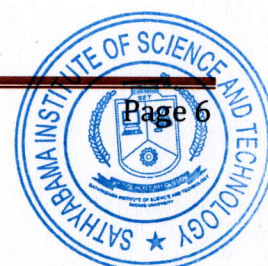
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Annexure : List of New Courses Introduced in 2020-21

Name of the Course	Course Code
PROBLEM SOLVING TECHNIQUES WITH C AND C++	SCSA1104
PROGRAMMING IN C & C++	SBSA1102
GREEN COMPUTING	SCSA5302
INTERNET OF THINGS LAB	SCSA6301
OBJECT ORIENTED ANALYSIS AND SYSTEM ENGINEERING	SCSA1401
CODE OPTIMIZATION AND DEBUGGING-I	SCSA2302
OBJECT ORIENTED ANALYSIS AND SYSTEM ENGINEERING LAB	SCSA2401
SOCIETY5.0	SAIC4002
CODE OPTIMIZATION AND DEBUGGING-II	SCSA2402
Problem Solving Techniques Lab	SCSA2105
Python Programming	SCSA1204
Code Optimisation and Debugging-I	SCSA2105
Society 5.0	SAIC4002
Virtualization Techniques	S IT1604
Green Computing	S IT1608
Cyber Forensics	SIT1612
Code Optimisation and Debugging-II	SCSA2402
Society 5.0	SAIC4002
Machine Learning	SIT1305
Power Electronics	SEE1305
Special Electrical Machines	SEE1307
Steel In Architecture Design	SAR1613
Industrial Safety Engineering	SPR1607
Rapid Prototyping	SPR1616
Banking Law	SAL1686
Entrepreneurship Essentials	SBAA1603
Industrial Safety and Hazard Analysis	SCHA3010/SCH1311

Chairman's Initial

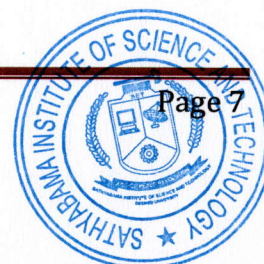
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Environmental Impact Assessment	SCHA4003/SCH1616
Disaster Management	SCIA4001
Power Electronics	SEE1305
Special Electrical Machines	SEE1307
Industrial Robotics And Expert System	SMEX3012
Advanced Data structure	SCS1201
BIG DATA	SIT1606
VIRTUALIZATION TECHNIQUES	SIT1604
ENTREPRENEURSHIP ESSENTIALS	SBAA1603
ENVIRONMENTAL IMPACT ASSESSMENT	SCHA4003/SCH1616
BANKING LAW	SAL1686
NETWORK SECURITY	SCS1309
Big Data Technologies	SECA7018
Gateway Design for IoT Devices	SECA7019
ADVANCED DIGITAL IMAGE PROCESSING	SECA7022
ADVANCED ROBOTICS AND AUTOMATION	SECA7032
Real Time Data Analytics	SECA7023
Security in IoT	SECA7021
EMBEDDED CONTROL SYSTEMS	SECA7029
SOFTWARE TOOLS FOR TECHNICAL COMPUTING	SECA7037
ADVANCED RF SYSTEM DESIGN	SECA7040
NANO ELECTRONICS AND SENSORS	SECA7016
Society 5.0	SAIC4002
Industrial Drives and automation	SEE1618
Computer Control of Electric Drives	SEE1619
Modern Power Converters	SEE1620
Distributed Generation and Microgridss	SEE1621
INDUSTRY 4.0	SAIC4001
Discrete Electronic Circuits	SEIA1301
Electrical Circuits and Networks Analysis	SEEA1304
Principles of Biomedical Engineering	SBMA1102

Chairman's Initial

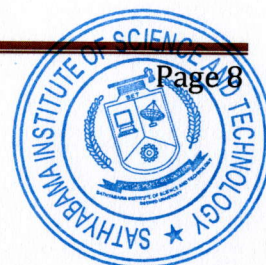
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Medical Equipment Maintenance And Troubleshooting	SBMA3001
TELEHEALTH TECHNOLOGY	SBMA3010
VIRTUAL AND AUGUMENTED RELIABILITY	SBMA4005
HUMAM FACTORS IN ENGINEERING AND DESIGN	SBMA4009
Fundamentals of Phyton Programming	SCSA1102
Fundamentals of Phyton Programming Lab	SCSA2102
Industry 4.0	SAIC4001
Heat Transfer	SCHA1301
Fluid Mechanics	SCHA1303
Chemical Reaction Engineering – I	SCHA1402
Computational Fluid Dynamics	SCHA1403
Mass Transfer - II	SCHA1501
Process Engineering Economics	SCHA1502
Chemical Reaction Engineering - II	SCHA1504
MAT Lab	SCHA2506
Industrial Safety and Hazard analysis	SCHA3010
Environmental Impact Assessment	SCHA4003
Energy Engineering	SCHA4002
Chemical Process Calculations	SCHA1304
Chemical Process Technology	SCHA1305
Instrumentation and Process Control	SCHA1503
Drugs and Pharmaceutical Technology	SCH1612
Food Technology	SCH1609
Process modelling and Simulation	SCH1401
Optimization of chemical processes	SCH1402
Process Simulation Lab	SCH4060
Process Engineering	SCH1306
Process Equipment Design	SCH1307
Petroleum and Petrochemical Technology	SCH1308
Industrial Safety and Hazard analysis	SCH1311
Environmental pollution control	SCH1310

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Public Health Engineering	SCIA4002
Architectural Graphics - I	SARA2101
Art Studio - I	SARA9101
Architectural Graphics - II	SARA2202
Art Studio - II	SARA9201
Creative Thinking Process and Methods	SDE1301
Communicating Design	SDE1302
Computer application I	SDE9402
Model Making Workshop	SDE9302
Project Management Workshop-I	SARA6101
Project Management Workshop-II	SARA6201
Building Performance Analysis Studio	SARA6131
Performance Analysis of Buildings	SARA5233
Fashion Illustration - II	SFDA 2303
Skill Enhancement Course – I Traditional Surface Ornamentation	SFDA 2305
Design I - Women's Wear	SFDA 2304
Fashion Illustration -III	SFDA 2403
Design II – Men's Wear	SFDA 2404
Skill Enhancement Course – II Digital Presentation Techniques	SFDA 2405
Design Studio – I (Soft Skill Development I)	SARA9102
Materials and Construction Studio - I	SARA2201
Design Studio - II (Soft Skill Development II)	SARA9202
Materials and Construction I	SDE2301
Interior Services I	SDE2302
Interior Design Studio III	SDE9301
Materials and construction II	SDE2401
Interior services II	SDE2402
Interior design studio IV	SDE9401
Construction Project Management	SARA5101
Building Services	SARA5103
Financial Management	SBAA5141

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Building Management Studio -I	SARA9121
Project Planning and Control	SARA5201
Contract Management	SARA5204
Building Management Studio II	SARA9221
Building Energy Codes and standards	SARA5132
Technology for Energy Efficient Buildings	SARA5232
Sustainable Water Management	SARA5234
Sustainable Design Studio I	SARA9131
Sustainable Design Studio II	SARA9231
Pattern Making and Draping - I	SFDA 2301
Garment Construction -I	SFDA 2302
Pattern Making and Draping - II	SFDA 2401
Garment Construction - II	SFDA 2402
Construction Technology	SARA5102
Resource Management	SARA5202
Real Estate and Marketing Management	SARA5203
Industry 4.0	SAIC4001
Industry 4.0 for Design and Manufacturing	SMEA4003
Quality Control and Reliability Engineering	SMEA3021
Universal Human Values	SAIC4003
Design of Heat Exchanger	SMEA3020
Heat Transfer Techniques	SAEA3020
Aircraft Design Project Lab	SAEA2601
Industry 4.0 for Design and Manufacturing	SMEA4003
Fundamentals of Automation & Control	SMRA1201
Automation and Programmable Logic Controller	SMRA1401
Signals and Control Systems	SMRA1402
Mechatronics and Simulation lab	SMRA2501
Sensors and Instrumentation	SMRA1601
Micro Electro Mechanical Systems	SMRA1602
Sensors and Instrumentation Lab	SMRA2601

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Robotics and Machine Vision System	SMRA1701
Robotics and CAM Lab	SMRA2701
Instrumentation in Industries	SMRA3001
Virtual Instrumentation	SMRA3002
Artificial Intelligence and Expert systems	SMRA3003
Medical Mechatronics	SMRA3004
Experimental stress analysis	SMRA3005
Flexible Manufacturing systems	SMRA4001
Industrial instrumentation	SPH1318
Industry 4.0	SCCA9501
Bio physics	SPHA7410
Introduction to Film Studies	SVCA1302
Introduction to social media	SVCA1303
Environmental Science	SBT1001
Film Appreciation	SVCA2501
MEDIA CULTURE AND ENTERTAINMENT	SVCA5201
Introduction to Sound Design	SVCA6302
Digital Photography	SVCA7303
Advanced Data Analytics	SMTA5204
R for Data Analytics - Lab	SMTA6201
Object Oriented Programming	SCSA5109
Object Oriented Programming lab	SCSA6103
Medicinal Chemistry-II	BP501T
Industrial Pharmacy-I	BP502T
Pharmacology-II	BP503T
Pharmacognosy and Phytochemistry-II	BP504T
Pharmaceutical Jurisprudence	BP505T
Industrial Pharmacy-I	BP506P
Pharmacology-II	BP507P
Pharmacognosy and Phytochemistry-II	BP508P
Medicinal Chemistry-III	BP601T

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Pharmacology-III	BP602T
Herbal Drug Technology	BP603T
Biopharmaceutics and Pharmacokinetics	BP604T
Pharmaceutical Biotechnology	BP605T
Pharmaceutical Quality Assurance	BP606T
Medicinal Chemistry-III	BP607P
Pharmacology-III	BP608P
Herbal Drug Technology	BP609P
Pharmaceutics	ER-20-11T
Pharmaceutical Chemistry	ER-20-12T
Pharmacognosy	ER-20-13T
Human Anatomy and Physiology	ER-20-14T
Social Pharmacy	ER-20-15T
Pharmaceutics	ER-20-11P
Pharmaceutical Chemistry	ER-20-12P
Pharmacognosy	ER-20-13P
Human Anatomy and Physiology	ER-20-14P
Social Pharmacy	ER-20-15P
Family Law - I	SAL1304
Family Law - II	SAL1402
Environmental Law, including protection of wildlife and other living creatures including animal welfare	SAL1403
Labour Law - I	SAL1501
Labour Law -II	SAL1601
Property Law	SAL1702
Principles of Taxation	SAL1903
Company Law	SAL1904
Arbitration, Mediation and Conciliation	SAL1002
Human Rights Law and Practice	SAL1581
Corporate Governance	SAL1681
Insurance Law	SAL1682
Banking Law	SAL1686

Chairman's Initial

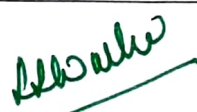
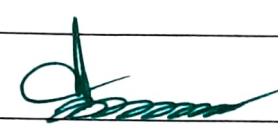
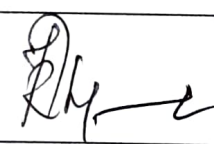
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Maritime Laws	SAL1882
International Banking and Finance	SAL1886
Forensic Science	SAL1888
Information Technology Laws	SAL1551
Intellectual Property Rights	SAL1753
Synthetic Biology	SBTA4002
Fundamentals of Automation & Control	SMRA1201
Automation and Programmable Logic Controller	SMRA1401
Signals and Control Systems	SMRA1402
Sensors and Instrumentation	SMR1302
Micro Electro Mechanical Systems	SMR1301
Sensors and Instrumentation Lab	SMR4051
PLC and automation	SMR1303
System Programming	SEC1626
STRESS MANAGEMENT	SPSY1604
EMBEDDED LINUX BSP AND PERFORMANCE TUNING	SEC1627
ENGINEERING ECONOMICS AND COST ANALYSIS	SMEA4004
Effective Leadership	SPSY 1405
Personality Development	SPYA 1304

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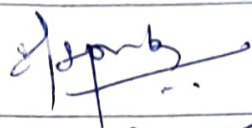
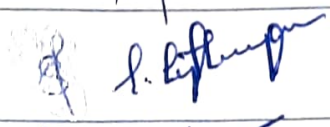
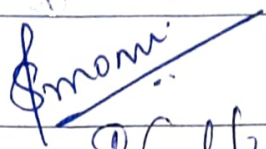
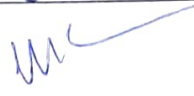
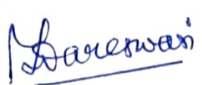
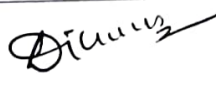
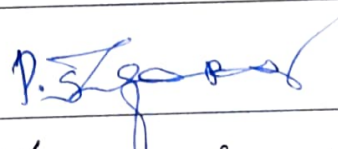
Member's Present:

S.NO.	NAME OF THE MEMBER	SIGNATURE
1.	Dr. S. SUNDAR MANOHARAN	
2.	Dr. T. SASIPRABA	-----ABSENT-----
3.	Dr. ARUNI WILSON	
4.	Dr. G. KULANTHAIVEL	
5.	Dr. R. GOVINDARAJ	
6.	Er. A. BOSE	-----ABSENT-----
7.	Dr. K. UMA MAHESWARI	
8.	Dr. G. ARUN KUMAR	-----ABSENT-----

Chairman's Initial





9.	Dr. G.L. SAMUEL	
10.	Dr. P. SAGAYA RAJ	<u>ABSENT</u>
11.	Dr. B. SHEELA RANI	-----ABSENT-----
12.	Dr. IGNI SABASTI PRABU	
13.	Dr. E. LOGASHANMUGAM	
14.	Dr. SUNDARI G	
15.	Dr. T. SASIKALA MADHU	
16.	Dr. S. PRAKASH	
17.	Dr. BHUVANESHWARI	
18.	Dr. B.THAYUMANAVAN	
19.	Dr. NANDITHA N M	
20.	Dr. M. SUNDARESWARI	
21.	Dr. DILSHAD SHAIK	
22.	Dr. SHANMUGA PANDIYAN	
23.	Dr. DEVYANI GANGOPADHYAY	

Chairman's Initial



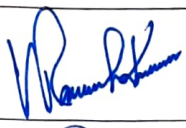
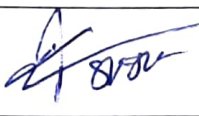
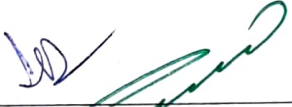

24.	Dr. L. LAKSHMI	L. Lakshmi
25.	Dr. LAKSHMANAN	Laksh
26.	Dr. VIGNESHWARI	Vigneshwari
27.	Dr. R. SUBHASHINI	R. Subhashini
28.	Dr. RAVI T	T. Ravi
29.	Dr. V. SIVACHIDAMBARANATHAN	Sivachidambaranathan
30.	Dr. V. VIJAYA BASKAR	V. Vijaya Baskar
31.	Dr. K. SUJATHA	K. Sujatha
32.	Dr. G. ARUN KUMAR	G. Arun Kumar
33.	Dr. P BOOMA DEVI	P. Booma Devi
34.	Dr. V. K. BUPESH RAJA	B. V. K. Bupesh Raja
35.	Mrs. NAZINI	Nazini
36.	Dr. J. KARTHIKEYAN	J. Karthikeyan
37.	Dr. RAVICHANDRAN	Ravichandran
38.	Dr. NIRMALA	Nirmala
39.	Dr. PALANI A	P. Palani A

Chairman's Initial

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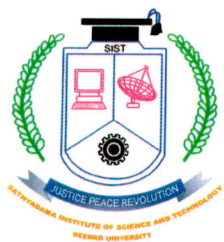


Page 6

40.	Mr. EBIN HARRISON S	
41.	Dr. BHAGYA LAKSHMI	
42.	Dr. V. RAMESH KUMAR	
43.	Dr. SATHISH S	
44.	Dr. KISHORE SONTI	
45.	Mr. JABEZ	
46.	Dr. HEMANANDH J	
47.	Dr. S.S.RAU	

Chairman's Initial





SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

Accredited with "A" Grade by NAAC
Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119.

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MINUTES OF THE MEETING OF THE THIRTEENTH ACADEMIC COUNCIL HELD ON 18th August, 2018.

The Thirteenth Academic council meeting was held on 18th August, 2018 at 12.00 noon with Dr .S. Sundar Manoharan, Vice Chancellor as the Chairperson.

The Registrar welcomed the members of the Academic council to the first meeting of this academic year. The induction of the new Vice Chancellor was informed by the Registrar and the Vice Chancellor was requested to Chair the meeting. The Vice Chancellor greeted everyone present and opened the floor for discussion on various agenda.

Vice Chancellor also emphasized on the following points in his opening remarks.

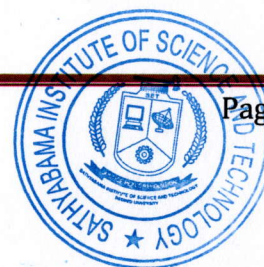
1. Vice Chancellor has informed to the council that the 27th Convocation of was held on 22nd July, 2018 and the Vice Chairman of AICTE was a Chief Guest.
2. The institution was awarded with 4 star overall rating by QS ranking
3. The institution was accredited with NAAC 'A' grade, during the NAAC visit in October 2017.
4. The institution was declared as the nodal agency to conduct 30 ELITE NPTEL courses.
5. 30 MoU's were signed with foreign universities.
6. Faculty Research Review was conducted to show case their Research work as posters by all the faculty members.
7. MEGA CLASSES was introduced into the teaching and learning practices of the institution for Core Courses

Vice Chancellor also insisted on outcome based education, the outcomes should be declared in the nomenclature / format of the course curriculum. Latest references should be included in the prescribed syllabus.

AC:18-19 - 13:01	Confirmation of previous minutes of meeting.
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The minutes of the previous meeting was circulated to all the members. As no comments were received, the minutes are placed for confirmation.


Chairman's Initial



The Vice Chancellor has presented the proposal of introducing Pharmacy programme in the forth coming academic year 2019-20. The proposal is accepted by all the board members and the decision was passed to start the following new programmes under the school of Pharmacy.

- B.Pharm and
- D.Pharm

The board moved the approval for the above new programmes and discussed about the process of curriculum design and implementation for the same which would further be discussed in Board of Management meeting.

AC:17-18 - 13:02	School of Management Studies
------------------	------------------------------

The following programmes were approved by the Board of Management to be launched in the year 2018-2019.

B.Com. Financial Accounting

B.Com. Cost & Management Accounting

Bachelor of Business Administration

Full semester project work was also approved.

The Revised Course objectives and outcomes as per the NBA guidelines were approved.

In addition to the above, no. of courses to be included in the programmes is the suggestion from the members of the council.

AC:18-19 - 13:03	School of Computing
------------------	---------------------

The following points were approved.

Approval of the syllabus designed by Virtusa on "Software Testing" for third year CSE students.

The Revised Course objectives and outcomes as per the NBA guidelines were approved.

Approved the inclusion of OOPS in the second semester instead of third semester.

The suggestion of programming in Java may be converted into 100 marks theory paper instead of 50/50 for theory and practical was approved by the council.

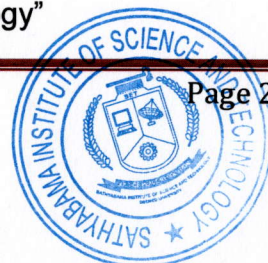
Cloud computing lab for 6th semester CSE students may be changed as Python programming with Machine learning was also approved.

AC:18-19 - 13:04	School of Bio & Chemical Engineering
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The Revised Course objectives and outcomes as per the NBA guidelines were approved.

Approved the change of contents in course paper "Plant Biotechnology"

Chairman's Initial



Approved the following Undergraduate programmes:

1. B.Sc. Biotechnology
2. B.Sc. Microbiology
3. B.Sc. Biochemistry

All the programmes approved were suggested to include no. of courses by the council.

AC:18-19 - 13:05	School of Law
------------------	---------------

The following programmes were approved by the Board of Management to be launched in the year 2018-2019.

1. B.B.A. LL.B (Honors)
2. B.A. LL.B (Honors)
3. B.Com. LL.B (Honors)

The electives included to be clearly explained.

AC:18-19 - 13:06	School of Building and Environment
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The Revised Course objectives and outcomes as per the NBA guidelines were approved.

Approved the introduction of written examination as part of Viva Voce examination.

Approved the shifting of building planning and drawing subject to second semester; material testing lab shall be shifted to third semester.

Approved revised syllabus for paper "material testing lab and construction technology"

Approved the revised syllabus for paper "Industrial structures".

AC:18-19 - 13:07	School of Science and Humanities
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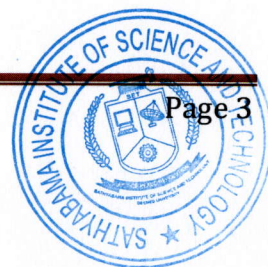
The Revised Course objectives and outcomes as per the NBA guidelines were approved.

Approved to choose any of the "SWAYAM NPTEL courses" as course work paper in Ph.D programmes with the approval of DC members.

Approved an "Industrial internship" for a period of 15 to 45 days for M.Sc. Physics students.

Approved the programme of B.Sc. Mathematics and B.Sc. Psychology, it was also suggested to include no. of courses.

Chairman's Initial



Approved to introduce more number of electives papers on Mathematics for B.E./B.Tech. Students.

AC:18-19 - 13:08	School of Mechanical Engineering
------------------	----------------------------------

The Revised Course objectives and outcomes as per the NBA guidelines were approved.

Approved the programme of B.E. in Mechatronics and also suggested to include no. of courses.

AC:18-19 - 13:09	Research Centres.
------------------	-------------------

Approved the Post Graduate Diploma course in skill development in fishery and food products technology.

Approved M.Tech – Bio Pharmaceutical Technology programme and suggested to include no. of courses.

Approved the commencement of Post Graduate programme in M.Sc. Medical Biotechnology and Clinical Research and suggested to include no. of courses.

AC:18-19 - 13:10	School of Electrical and Electronics Engineering
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The Revised Course objectives and outcomes as per the NBA guidelines were approved.

Approved the inclusion of Data Structure content in the Object Oriented Programming.

Approved the shifting of Digital Logic Circuits course from Second Semester to Third Semester.

Approved the inclusion of New Elective courses namely, Cognitive Radios and Cooperative Communication, Soft Computing Techniques, Fractal Imaging, Food Processing Instrumentation, Aircraft Instrumentation and Automobile Instrumentation.

The Deans of the following schools have presented the BoS recommendation of the respective schools for the revision of courses in 2019-20.

School of Bio and Chemical Engineering - Bio Medical, Medical Instrumentation

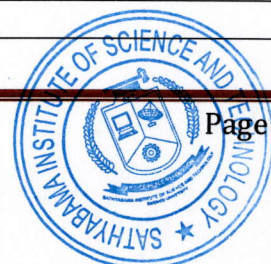
School of Building and Environment - Architecture

School of Mechanical Engineering – Mechanical , CAD

The list of courses in which suggested revision has been carried out is presented and the approval of the members is sought. The Board members passed the approval for the same. The list of courses approved for revision is attached in the Annexure.

AC:18-19 - 13:11	Miscellaneous Items.
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Chairman's Initial



Approved the R programming, which is the current elective course work for Information Technology students may be converted into Industrial oriented elective (in association with INFOSYS) for both CSE and IT students.

Ratification and Approval for the modified Continuous Assessment Examination Question paper pattern for all the B.E., B.Tech., B.Arch. B.Com., B.A., and B.Sc. Courses. The pattern will be implemented with immediate effect which is as per the mandatory requirement of NBA Accreditation Process.

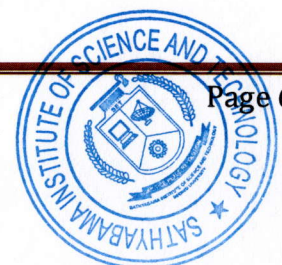
As there was no other item for discussion, the meeting ended with vote of thanks by the Registrar.



Annexure : List of Programmes in which Courses are approved for Revision

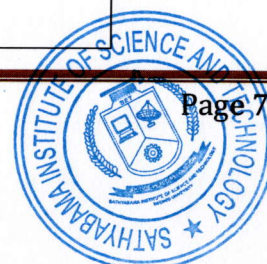
Name of Programme	Programme Code	Programme Specialization
B.TECH	24	Biomedical Engineering
M.TECH	48	Medical Instrumentation
BE	15	Mechanical engineering
ME	32	Computer aided design
B.Arch	21	Architecture
B.Sc	738	Bioinformatics
M.Sc	739	Bioinformatics
BE	20	Civil Engineering
ME	38	Structural Engineering
B.Sc	738	Bioinformatics
M.Sc	739	Bioinformatics
B.Tech	19	Chemical Engineering
BTech	23	Biotechnology
MTech	81	Biotechnology
BSc	77	Biotechnology
BSc	30	Microbiology
BSc	7	Biochemistry
BE	86	Automobile engineering
BE	16	Mechanical & Production

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BE	26	Aeronautical Engineering
B.E	11	Computer Science and Engineering
M.E	31	Computer Science and Engineering
B.SC	29	Computer Science
B.TECH	12	Information Technology
BE	20	Civil Engineering
ME	38	Structural Engineering
B.E	11	Computer Science and Engineering
M.E	31	Computer Science and Engineering
B.SC	29	Computer Science
B.TECH	12	Information Technology
BE	15	Mechanical engineering
ME	32	Computer aided design
BE	86	Automobile engineering
BE	16	Mechanical & Production
BE	26	Aeronautical Engineering
B.Sc	8	Environmental Psychology
B.Sc	8	Basic Psychology-1
B.Sc	904	Nursing
B.E	13	Electronics and Communication Engineering
M.E	108	Embedded and IOT
M.TECH	82	VLSI Design

Chairman's Initial



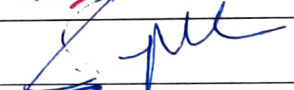
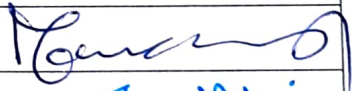
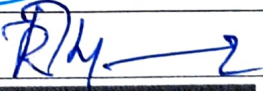
B.E	14	Electrical and Electronics Engineering
M.E.	34	Power Electronics and Industrial Drives
BE	18	Electronics and Instrumentation Engineering
BE	25	Electronics and Telecommunication
B.Sc.	904	Nursing
BE	18	Electronics and Instrumentation Engineering
B.E	13	Electronics and Communication Engineering
M.TECH	82	VLSI Design
M.E	88	Embedded Systems
B.E	14	Electrical and Electronics Engineering
BE	25	Electronics and Telecommunication

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Chairman's Initial



Member's Present:

S.No.	Name	Designation	Signature
	Dr. S. SUNDAR MANOHARAN	Vice Chancellor – Chairman	
	Dr. T. SASIPRABA	Pro- Vice Chancellor	
	Dr. G. KULANTHAIVEL	External Nominee	
	Dr. R. GOVINDARAJ	External Nominee	
	Er. A. BOSE	External Nominee	
	Dr. K. UMAMAHESWARI	External Nominee	

Chairman's Initial



Dr. B. SHEELA RANI	Director - Research	<i>B. Sheela Rani</i>
Dr. IGNI SEBASTI PRABU	COE	<i>8/10/17</i>
Dr. E. LOGASHANMUGAM	Director - Administration	<i>E. Logashanmugam</i>
Dr. G. SUNDARI	Dean (Student Affairs)	<i>G. Sundari</i>
DR. S. PRAKASH	DEAN	<i>S. Prakash</i>
DR. BHUVANESHWARI	DEAN	<i>Bhuvaneshwari</i>
DR. B. THAYUMANAVAN	DEAN	<i>B. Thayumanavan</i>
DR. NANDITHA N M	DEAN	<i>N. Nanditha</i>
DR. M. SUNDARESWARI	DEAN	<i>M. Sundareswari</i>
DR. DILSHAD SHAIK	DEAN	<i>Dilshad Shaik</i>
DR. LAKSHMANAN	HOD	<i>L. Lakshmanan</i>
DR. VIGNESHWARI	HOD	<i>V. Vigneshwari</i>
DR. RAVI T	HOD	<i>T. Ravi</i>
DR. R. SUBHASHINI	HOD	<i>R. Subhashini</i>
DR. V. SIVACHIDAMBARANATHAN	HOD	<i>V. Sivachidambaranathan</i>
DR. V. VIJAYA BASKAR	HOD	<i>V. Vijaya Baskar</i>
DR. K. SUJATHA	HOD	<i>K. Sujatha</i>
DR. ARUN KUMAR G	HOD	<i>G. Arun Kumar</i>
DR. V. K. BUPESH RAJA	HOD	<i>V. K. Bupesh Raja</i>
MRS. NAZINI	HOD	<i>N. Nazini</i>
DR. J. KARTHIKEYAN	HOD	<i>J. Karthikeyan</i>
DR. RAVICHANDRAN S	HOD	<i>S. Ravichandran</i>
DR. NIRMALA M	HOD	<i>M. Nirmala</i>
Dr. A. PALANI	HOD	<i>A. Palani</i>
Dr. R. PADMA PRIYA	FACULTY	<i>R. Padma Priya</i>
Dr. T. SUDHAKAR	FACULTY	<i>T. Sudhakar</i>
Dr. D. PRABHU	FACULTY	<i>D. Prabhu</i>

Chairman's Initial

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	Ms. R. ARUL MALAR	FACULTY	<i>R. Arulmalar</i>
	Mr. EBIN HARRISON S	FACULTY	<i>E. Harrison</i>
	DR. BHAGYA LAKSHMI	FACULTY	<i>B. Lakshmi</i>
	DR. V. RAMESH KUMAR	FACULTY	<i>V. Ramesh Kumar</i>
	<u>DR. HEMANANDH J</u>	FACULTY	<i>H. Hemanandh J</i>
	DR. S.S.RAU	REGISTRAR	<i>S. S. Rau</i>

Chairman

Chairman's Initial



SATHYABAMA UNIVERSITY
JEPPIAAR NAGAR, CHENNAI 600119

MINUTES OF THE MEETING OF THE TWELFTH ACADEMIC COUNCIL HELD ON 8th July 2017.

The Academic council meeting for the current academic year 2017-18 was held on 8th July at 10.00am with Dr. T. Sasi Praba, Pro - Vice Chancellor as the Chairperson.

The Registrar welcomed the members of the Academic council to the first meeting of this academic year. The absence of the Vice Chancellor was informed by the Registrar and the Pro-Vice Chancellor was requested to Chair the meeting. The Pro-Vice Chancellor greeted everyone present and opened the floor for discussion on various points on the Agenda.

AC:17-18 - 12:01	Confirmation of previous minutes of meeting.
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The minutes of the previous meeting was circulated to all the members. As no comments were received, the minutes are placed for confirmation.

AC:17-18 - 12:02	To accept the Action Taken Report on the previous minutes of meeting of the Academic council.
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The Action Taken Report on the previous minutes of the meeting of the Academic council was ratified and accepted.

AC:17-18 - 12:03	School of Management Studies
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It was unanimously accepted by the members that a minor shift in syllabus (Subject : International Business management) would be beneficial as explained by Dr. Sivasubramanian.

AC:17-18 - 12:04	School of Computing
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The Chair proposed the plan of introducing a course in conjunction with CDAC which would enhance the skill set of the students. Following this, Dr. Lakshmi elaborated the members on value addition for students in the form of IBM certification and Microsoft certification. The concept was appreciated by the members, who wanted the same to be implemented in other schools also. The chair also informed the members of the proposal to initiate a Adobe systems digital Centre of excellence which was collectively applauded by the members.

AC:17-18 - 12:05	School of Building and Environment
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The Chair called upon the Dean of School of Building and Environment to put forth the agenda to the members. Dr. Jothi Lakshmi laid down the agenda on behalf of the School of Building and Environment. The Director-Research, Dr. Sheela Rani added that in the present academic year, M.Tech. Remote Sensing and GIS would be initiated. The concern raised over passing in internals being made mandatory was raised by Dr.



Umamaheswari, which was aptly clarified by the Registrar and subsequently by Dr. Jothi Lakshmi. The need for more contact hours was questioned by Er. Bose, and was clarified by Dr. Jothi Lakshmi as it would be of much importance academically for the student. While appreciating the initiative as a good one, Er. Bose also called on the members for ranking based on credits which was ratified. The implementation of a second chance (supplement) for genuine students was questioned by Dr. Mathivannan and was answered to clarity by Dr. Jothi Lakshmi. Thus all items were ratified and accepted.

AC:17-18 - 12:06	School of Electrical & Electronics Engineering
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Dr. Nanditha tabled the agenda for the School of Electrical and Electronics engineering. Adding to this, Dr. Siva also proposed the initiative to start a Lab for Internet of Things, as a collaboration between EEE department and Texas instruments. The CDAC programme was questioned by Dr. Govindaraj, as to how the project would be implemented, for which clarification was provided by Dr. Murugan.

AC:17-18 - 12:07	School of Mechanical Engineering
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The academic agenda for the School of Mechanical Engineering was proposed by Dr. Prakash. The proposal of transferring credits for NPTEL courses was appreciated widely by all the external members of the board. The Chair and Er. Bose were very much interested in implementing the same in all the departments. The external members also appreciated the faculty who take up courses in NPTEL.

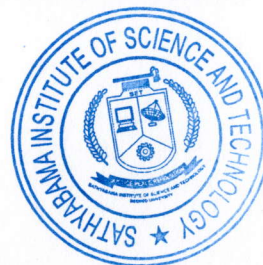
AC:17-18 - 12:08	School of Bio and Chemical Engineering
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The Director – Research, Dr. Sheela Rani introduced the new courses under the school. The Research centres would provide M.Tech. Industrial Biotechnology and M.Tech. Pharmaceutical Biotechnology both of which are the need of the hour. The Chair informed the members of the twinning programme for students along with foreign universities. Also the faculty exchange programme initiated in the university was noted and appreciated by the members. Dr. Umamaheswari suggested the need for tie-up with the department of Biomedical engineering and hospitals, on which Dr. Alex Anand replied that there were working on it.

AC:17-18 - 12:09	School of Science and Humanities
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On behalf of the School of Science and Humanities, Dr. Ganesh proposed that they would be initiating M.Phil. in Mathematics this academic year. While the members were

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for M.Phil. Mathematics, they were against M.Phil. in other subjects as it carried no value with Ph.D. gaining importance.

The School Deans have presented the BoS recommendation of the respective schools for the introduction of new courses and revision of courses in 2018-19.

The list of suggested new courses / revision of courses in each school is presented for the approval of the members. The Board members passed the approval for the same. The list of courses approved is attached in the Annexure.

AC:17-18 - 12:10	Academic Research
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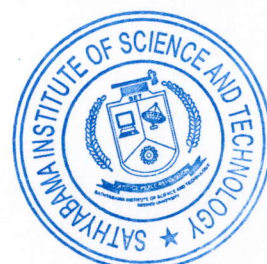
The Registrar on behalf of the Vice-Chancellor started a deliberation on the implementation of mock viva-voce before the final viva-voce for Ph.D. candidates. While Dr. Govindaraj appreciated the idea stating that it would strengthen the candidate, Dr. Umamaheswari insisted on a school level mock to be held. Participation by M.Tech. students and other scholars would suffice the mock viva was a suggestion put forward by Dr. Sahayaraj. The members were for an extensive mock viva with a minimum of 20 questions. It was suggested by Dr. Govindaraj, that before writing the thesis, a mock viva could be conducted in the presence of the DC members and one external expert. This he said should improve the confidence of the candidate and at no point should be discouraging the candidate. However Dr. Sahayaraj was skeptical on the confidential work being exposed in the DC meeting before viva voce.

Finally it was decided to leave the issue in the hands of the department and the guide. A mock viva with a minimum of 75 participants was suggested. The members also insisted on the mandatory presence of PG students in the viva voce as it would attract more students to get into the Ph.D. stream.

Regarding the publications by research scholars, as the UGC listed is ambiguous, it was ratified that the final call be taken by the guide as to where the article can be published. It was suggested by Dr. Sheela Rani, that the guides stick to Web of science and Scopus journals which would act as benchmarks. Also the research awards were appreciated by Dr. Umamaheswari, stating that the awards would push the researchers to the next level.

Ratifying the issue raised by the Registrar on whether candidates with adequate experience can be directly involved in Ph.D., Dr. Sahayaraj noted that it is done in foreign universities. The idea of integrated M.S., Ph.D. was put forth by Dr. Umamaheswari, while the other members were suggesting implementation of appropriate course work for such candidates.

4-9-20



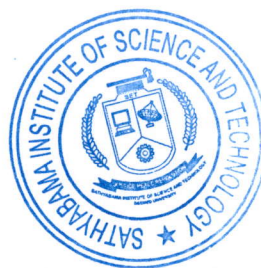
AC:17-18 - 12:11	Any other item
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The Registrar invited comments on starting Pharmacy courses for which the members backed the agenda completely. Dr. Sheela Rani recorded that MCI approval is enough and both B.Pharm and M.Pharm courses could be started simultaneously.

The Pro-Vice Chancellor acknowledged the views and thanked the members for their comments and participation.

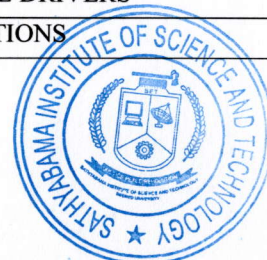
As there was no other item for discussion the meeting ended with vote of thanks from the Registrar who also formally invited the council members for the University Convocation to be held on 29th July 2017.

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Annexure : List of New Courses introduced for 2018-19 academic year - approved

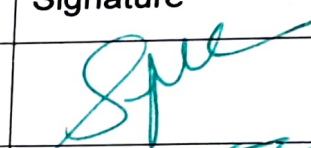
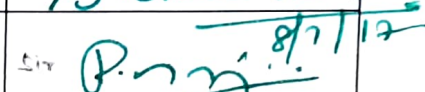
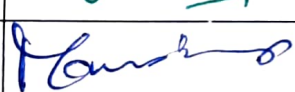
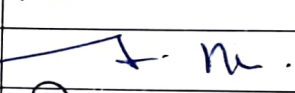
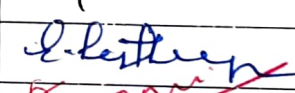
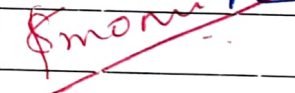
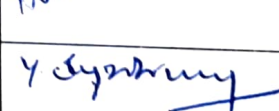
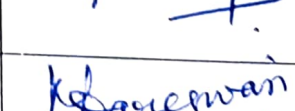
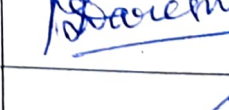
PROGRAMME/COURSE	PROGRAMME SPECIALIZATION
B.TECH	BIOMEDICAL ENGINEERING - DRUG DELIVERY SYSTEM
B.TECH	BIOMEDICAL ENGINEERING - MEDICAL WASTE MANAGEMENT
B.TECH	BIOMEDICAL ENGINEERING - HOSPITAL MANAGEMENT
B.TECH	BIOMEDICAL ENGINEERING - NEUROSCIENCE
B.TECH	BIOMEDICAL ENGINEERING - BIOMATERIALS
B.SC.	BIOTECHNOLOGY - BIOTECHNOLOGY (PROGRAMME)
B.SC.	BIOTECHNOLOGY - MICROBIOLOGY (PROGRAMME)
B.SC.	BIOTECHNOLOGY - BIOCHEMISTRY (PROGRAMME)
B.TECH	CHEMICAL ENGINEERING - SCH 1605 – NOVEL SEPARATION PROCESS
B.TECH	CHEMICAL ENGINEERING - SCH 1612- DRUG AND PHARMACEUTICAL TECHNOLOGY
B.TECH	CHEMICAL ENGINEERING - SCH 1616 ENVIRONMENTAL IMPACT ASSESSMENT
B.SC	MATHEMATICAL PHYSICS USING MATLAB
B.SC	TELEVISION PRODUCTION LAB (SVC4063)
B.SC	COMMERCIAL PHOTOGRAPHY (SVC4064)
B.SC	AUDIOGRAPHY (SVC4068)
B.SC	VIDEO EDITING (SVC4066)
B.SC	FILM MAKING (SVC4067)
B.SC	TELEVISION PRODUCTION III (SVCE6513)
M.SC	3D GRAPHICS AND ANIMATION(SVCE6514)
M.SC	RADIO PRODUCTION(SVCE6515)
B.COM	FINANCIAL ACCOUNTING (PROGRAMME)
BBA	BUSINESS ADMINISTRATION (PROGRAMME)
B.E	ELECTRONICS & INSTRUMENTATION- SIC1611 FUNDAMENTALS OF MECHATRONICS
B.E	ELECTRONICS & INSTRUMENTATION- SIC1601 INSTRUMENTATION IN AEROSPACE & NAVIGATION
B.E	ELECTRONICS & INSTRUMENTATION- SIC1614 SOFT COMPUTING TECHNIQUES
B.E	ELECTRONICS & INSTRUMENTATION- SIC1310 THEORY OF ROBOTICS
B.E.	ECE – CRYPTOGRAPHY AND NETWORK SECURITY
B.E.	ECE – FUNDAMENTALS OF FUZZY LOGIC AND ARTIFICIAL NEURAL NETWORKS
B.E.	ECE – DATA COMMUNICATION AND NETWORKING
M. TECH.	VLSI DESIGN – HIGH SPEED VLSI DESIGN
M. TECH.	VLSI DESIGN – ASIC DESIGN
ME	EMBEDDED AND IOT- AI AND SOFT COMPUTING
ME	EMBEDDED AND IOT- EMBEDDED OS AND DEVICE DRIVERS
ME	EMBEDDED AND IOT- SCADA SYSTEMS APPLICATIONS



BE	ELECTRICAL AND ELECTRONICS ENGINEERING - POWER SYSTEM OPERATION AND CONTROL.
BE	ELECTRICAL AND ELECTRONICS ENGINEERING - FUNDAMENTALS OF COMMUNICATION ENGINEERING
BE	ELECTRICAL AND ELECTRONICS ENGINEERING - FLEXIBLE AC TRANSMISSION SYSTEM
BE	ELECTRICAL AND ELECTRONICS ENGINEERING - THEORY OF ROBOTICS
ME	POWER ELECTRONICS AND INDUSTRIAL DRIVES - INTELLIGENT CONTROL
BE	ELECTRONICS AND TELECOMMUNICATION- SEC1321 TELECOMMUNICATION SYSTEMS AND SERVICES
BE	ELECTRONICS AND TELECOMMUNICATION- SEC1609 FUNDAMENTALS OF FUZZY LOGIC AND ARTIFICIAL NEURAL NETWORKS
BE	ELECTRONICS AND TELECOMMUNICATION- SEC1618 PROGRAMMING IN MATLAB
BE	ELECTRONICS AND TELECOMMUNICATION- SIC1310 THEORY OF ROBOTICS
BE	ELECTRONICS AND TELECOMMUNICATION- SEC1613 MOBILE ADHOC NETWORKS
BE	ELECTRONICS AND TELECOMMUNICATION- SEC1606 DIGITAL IMAGE PROCESSING
BE	AERONAUTICAL ENGINEERING- SAEA4001 - FUNDAMENTALS OF AEROSPACE TECHNOLOGY
BE	AERONAUTICAL ENGINEERING- SAEA3017 MANNED SPACE MISSION
BE	AERONAUTICAL ENGINEERING- SAEA3019 ORBITAL MECHANICS
B.E	INTELLECTUAL PROPERTY LAW(SALA4001)
B.E	PRODUCT DESIGN AND DEVELOPMENT (SMEA3009)
B.E	INDUSTRIAL MECHATRONICS (SMEA1702)
B.E	HUMAN FACTORS IN ENGINEERING AND DESIGN(SBMA4009)
B.E	NON DESTRUCTIVE TESTING AND TECHNIQUES(SMEA3005)
B.E	MECHANICAL ENGINEERING (15) -SMEA 1501 CAD/CAM
B.E	MECHANICAL ENGINEERING (15)-SMEA1503 FINITE ELEMENT ANALYSIS
B.E	MECHANICAL & PRODUCTION ENGINEERING- SPR1615 PRODUCTION AND OPERATIONS MANAGEMENT
B.E	MECHATRONICS ENGINEERING (PROGRAMME)
B.SC	PSYCHOLOGY

4.2



S.No.	Name	Designation	Signature
1.	Dr. T. Sasi Praba	Pro- Vice Chancellor – Chairman	
2.	Dr. S. S. Rau	Registrar – Convenor	
3.	Dr. B. Sheela Rani	Director - Research	
4.	Dr. P. Sagaya Raj	Faculty member, Layola College, Chennai	
5.	Dr. R. Govindaraj	Scientist E I, CEERI, CSIR, Chennai.	
6.	Er. A. Bose	Structural consultant, HAL.	
7.	Dr. Uma Maheswari	Associate Professor, University of Madras.	
8.	Dr. E. Logashanmugam	Dean (Staff Affairs)	
9.	Dr. G. Sundari	Dean (Student Affairs)	
10.	Dr. S. Prakash	Dean, School of Mechanical Engineering	
11.	Dr. M. Lakshmi	Dean, School of Computer science Engineering	
12.	Dr. Nanditha	Dean, School of Electrical and Electronics Engineering	
13.	Dr. Sivasubramaniam	Dean, School of Management studies	
14.	Dr. Sundareswari	Dean, School of Science and Humanities	
15.	Dr. S. Murugan	Head, Department of Computer Science Engineering	



16.	Dr.G. Mathivanan	Head, Department of Information Technology	<i>[Signature]</i> 12/07/17
17.	Dr. V. Vijaya Baskar	Head, Department of Electronics and Telecommunication Engineering	<i>[Signature]</i>
18.	Dr. V. Sivachidambaranathan	Head, Department of Electrical and Electronics Engineering	<i>[Signature]</i>
19.	Dr. K. Sujatha	Head, Department of Electronics and Instrumentation Engineering	<i>K. Sujatha</i>
20.	Dr. A. Nisha	Head, Department of Electronics and Control Engineering	<i>A. Nisha</i>
21.	Dr. A.Krishnamoorthy	Head, Department of Mechanical Engineering	<i>A. Krishnamoorthy</i>
22.	Dr. V. K. Bupesh Raja	Head, Department of Automobile Engineering	<i>[Signature]</i>
23.	Dr. A. Annam Renita	Head, Department of Chemical Engineering	<i>[Signature]</i>
24.	Dr. C. Valli Nachiyar	Head, Department of Biotechnology	<i>[Signature]</i>
25.	Dr. C. Jaynthy	Head, Department of Bioinformatics	<i>[Signature]</i>
26.	Dr. D. Alex Anand	Head, Department of Biomedical Engineering	<i>[Signature]</i>
27.	Dr. Jothi Lakshmi	Head, Department of Architecture	<i>[Signature]</i>
28.	Mrs. Nazini	Head, Department of Visual Communication	<i>[Signature]</i>
29.	Dr. Ravichandran	Head, Department of Physics	<i>[Signature]</i>
30.	Dr. Ganesh	Head, Department of Mathematics	<i>[Signature]</i>
31.	Dr. C.L. Shilaja	Head, Department of English	<i>[Signature]</i>



	Dr. Ravi T	Associate Professor	T. Jm
33.	Dr. Ramesh kumar V	Associate Professor	R. K. V.
34.	Dr. Jabez	Associate Professor	J. J.
35.	Dr. Hemananth	Associate Professor	H. J.
36.	Dr. Packialakshmi S	Associate Professor	P. S. Packialakshmi
37.	Dr. Padma Priya R	Associate Professor	P. P. R.
38.	Dr. Subhashini R	Professor	R. S.



SATHYABAMA UNIVERSITY
JEPPIAAR NAGAR, CHENNAI 600119

**MINUTES OF THE MEETING OF THE ELEVENTH ACADEMIC COUNCIL HELD ON
11th January, 2017**

The Academic council meeting for the current academic year 2016-17 was held on 11th January, 2017 at 10.00am with Dr.K.V. Narayanan, Vice Chancellor as the Chairperson.

The Vice Chancellor welcomed the members of the Academic council to the first meeting this academic year. Following this the council took up the agenda items for discussion.

The 11TH Academic council meeting started at 10.00am. The Registrar welcomed all the External and Internal members of the Academic council to the first meeting this calendar year. A minute of silence was observed as a mark of respect for the departed soul of our Founder Chancellor Col.Dr.Jep piaar. The Vice Chancellor greeted everyone present and opened the floor for discussion on various points on the Agenda.

AC:16-17 - 11:01	Confirmation of minutes of meeting held on 7 th September 2016.
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The minutes of the previous meeting was circulated to all the members. As no comments were received, the minutes are placed for confirmation.

AC:16-17 - 11:02	To accept the Action Taken Report on the minutes of meeting of the Academic council held on 7 th September 2016.
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The Action Taken Report on the minutes of the meeting of the Academic council held on 7th September 2016 was ratified and accepted.

AC:16-17 - 11:03	English language Lab
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It was unanimously accepted by the members that a English language lab be setup exclusively catering to the benefit all students, keeping in mind the placement prospects.

AC:16-17 - 11:04	MATLAB Laboratory
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The Vice Chancellor proposed that an application oriented unit (MATLAB basics) be incorporated in Engineering Mathematics for all UG courses, the material and Learning support which would be extended by the school of Electronics and this would ensure that it bridges the gap of students who find Mathematics difficult to learn. The rollout process was explained by Dr.Nanditha, Dean School of Electronics and the move was widely appreciated by Dr.Govindaraj as this would help the students to meet out the industrial needs of the students. However Dr.Umamaheswari felt that a separate syllabus be framed for Bio based courses. The Vice Chancellor clarified that our curriculum was designed separately and would remain unique for Biotechnology, Biomedical engineering and Bioinformatic courses.



AC:16-17 - 11:05	Introduction of more Case studies for MBA students
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The Vice Chancellor suggested that novel case studies of recent developments need to be introduced for management studies. The suggestion was carried forward by Dr.Sivasubramaniam who clarified that some of the current affairs like Budget analysis, GST prelude were already been given for students as extempore topics. To add to this Mr.Reji Thomas wanted more focus on startups and mainly on failed startups as they provide much insight into the reasons for failure. The item was ratified and accepted.

AC:16-17 - 11:06	Introduction of new UG and PG courses in Arts & Science
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The Vice Chancellor put forth the Market demand that new courses be introduced in the University, based on which the following courses were proposed;

B.Sc. (Biotechnology, Biochemistry, Microbiology, Electronics, Computer science, Visual communication, Mathematics, Physics, Chemistry, English, Social work) and BBA.

Internal members suggested courses like B.Sc. Data Science (Dr. Mathivannan), B.Sc. Life Sciences (Dr.Valli Nachiyar), B.Sc. Avionics (Mr.Alexander), B.Sc. Medical Electronics (Dr. Alex Anand), BA Journalism (Dr.Nazini) and BA Tamil literature (Dr.Sasiprabha).

External members suggested courses like B.Sc. Animation (Dr. Sahayaraj), B.Sc. Medical Lab Technician and Medical Instrumentation (Dr. Umamaheswari) and B.Sc. Applied Sciences (Dr.Govindaraj).

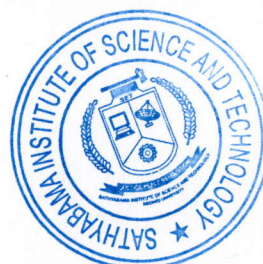
Accepting the suggestions made by both the internal and external members, the Vice Chancellor clarified that the courses can be offered, based on student demand and a policy would be framed for Integrated M.Sc. courses also.

The Dean- school of computing presented the list of new programmes to be introduced in the forth coming academic year 2017-18 with all the necessary documents such as list of courses for each programme, syllabus for all the courses with reference details.

The recommendations from the Board of Studies – school of computing for the above is presented in front of the board members. Also revision in a existing syllabus is presented

- B.Sc Computer Science
- M.E Embedded and IoT
- SCSX1061-Python Programming - Revision

The recommendations from the Board of Studies – school of computing for the above is presented in front of the board members. The board moved the approval for the above new programmes.



The Dean- school of Science and Humanities presented the introduction of new programme on M.Sc – Chemistry in the academic year 2017-18 with all the necessary documents such as list of courses for each programme, syllabus for all the courses with reference details.

The Deans of the School of Electrical and Electronics has presented the BoS recommendation for the revision of syllabus in the existing courses in the academic year 2017-18.

School of Electrical and Electronics –
B.E -EEE, B.E -ECE, B.E – EIE M.E - VLSI, M.E – New Programme
SEC1316 CMOS VLSI design - syllabus revision

The Board members passed the approval for the same. The list of approved new courses is attached in the Annexure.

AC:16-17 - 11:07	Methodology of converting CGPA into marks
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The Vice Chancellor pressed the need for regulating the conversion of CGPA to percentage norms for the benefit of the students. The existing conversion formula ($CGPA \times 10 - 7.5$) had to be amended as ($CGPA \times 10$) as it is being followed by majority of the Public and Private Universities in India. The external members Dr. Umamaheswari, Dr. Sahayaraj and Dr. Govindaraj were for the motion and they also suggested that both CGPA and percentage be given in the mark sheet. The Vice Chancellor clarified the item stating the need for conversion using the above formula. It was also informed that the percentage conversion would be ($CGPA \times 10$) and the same would be notified in the university website.

AC:16-17 - 11:08	Introduction of NCC, Social work courses as electives
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The Vice Chancellor requested that NCC and other social work courses be introduced as electives and due credits be given to them. The council took note of this and appreciated the initiative.

AC:16-17 - 11:09	Semester abroad and Foreign Exchange Programme
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The Vice Chancellor requested the Pro-Chancellor to elaborate on the various initiatives taken by the university. The Pro-Chancellor proposed to initiate the twinning MBA programme with University of Hull, UK. The programme was explained by Dr. Sivasubramaniam as the first year would be done in our university followed by the second year abroad. Finally the student would receive the degree from our university. To this Dr. Umamaheswari added that it would be better if the first and last semesters be done in the parent university while the second and third semesters be done abroad. Also Dr. Sahayaraj requested precautions be taken on universities abroad. The item was ratified that with further discussions with the host institution the terms would be set.



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The Pro-Chancellor also gave the road-map of staff exchange programmes which was widely appreciated by the council members.

It was ratified that the university would engage in tie-up with Industries for licensing the patents. Also every school would have a centre of Excellence to promote research. It was unanimously agreed that the number of students would be increased for the semester abroad programme in due course.

AC:16-17 - 11:10	Proposed National and International conferences in various schools
------------------	--

The Vice Chancellor emphasized the importance for scientific deliberations and to improvise on this aspect. It was decided unanimously , that every school conducts atleast one International conference and two National conferences in a year. It was noted by the council.

AC:16-17 - 11:11	Introduction of Sandwich courses
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To keep the university at par with other professional universities, the Vice Chancellor proposed the introduction of sandwich courses which was widely welcome by the council. The item was ratified.

AC:16-17 - 11:12	Suggestions given by NAAC Peer Team to various Faculties
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The Vice Chancellor apprised the council of the suggestions made by the NAAC Peer team. It was noted by the council and suggested to carry out their suggestions.

AC:16-17 - 11:13	Any other item
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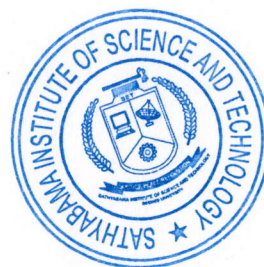
The initiatives taken by the university was highly appreciated by Dr.Sahayaraj, who added that the university is in the path of getting International recognition and gave full credit to the Management for all its efforts.

To add to the existing proposals of new courses, Dr. Govindaraj suggested that M.Sc. Engineering course could also be imparted by the university.

The Vice Chancellor acknowledged the views and added that integrated BA.,B.Ed and B.Sc.,B.Ed as approved by NCTE was also part of the universities future vision.

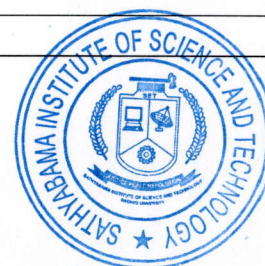
As there was no item for discussion the meeting ended with vote of thanks from the Registrar who also formally invited the council members for the Inauguration of the Founder Chancellor's Memorial on 17th January 2017.

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Annexure : List of Programs in which Courses revision is approved

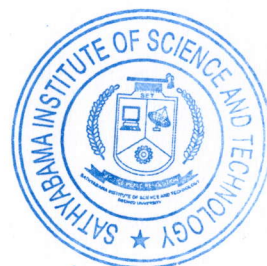
Name of Programme	Programme Code	Programme Specialization
B.E	18	Electronics and Instrumentation Engineering
B.E	13	Electronics and Communications Engineering
M. Tech	82	VLSI Design
M.E	88	Embedded Systems
B.E	14	Electronics and Electronics Engineering
B.E	25	Electronics and Telecommunication Engineering
B.E	35	Applied Electronics
B.E	15	Mechanical engineering
M.E	39	Thermal engineering
B.E	86	Automobile engineering
B.E	16	Mechanical & Production
M.E	32	Computer aided design
B.E	26	Aeronautical Engineering
B.Arch	21	Architecture
B.Tech	23	Biotechnology
M.Tech	81	Biotechnology
B.Sc	77	Biotechnology
B.Sc	30	Microbiology
B.Sc	07	Biochemistry
B.E	11	Computer Science and Engineering
M.E	31	Computer Science and Engineering
<u>B.Sc</u>	29	Computer Science and Engineering
B.Tech	12	Information Technology
B.E	15	Mechanical engineering
M.E	39	Thermal engineering
B.E	86	Automobile engineering
B.E	16	Mechanical & Production
M.E	32	Computer aided design
B.E	26	Aeronautical Engineering



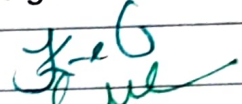
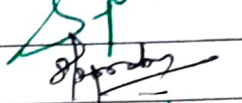
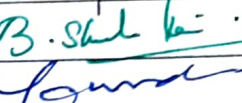
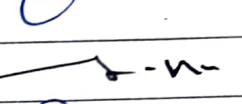
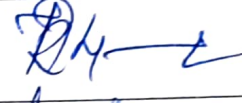
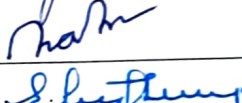
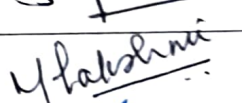
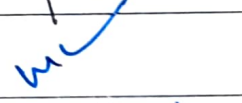
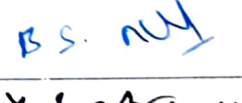
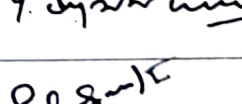
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B.E	20	Civil Engineering
M.E	38	Structural Engineering
B.Tech	19	Chemical Engineering
M.E. (Part Time)	43	Computer Science and Engineering
B.E.-(Part Time)	45	Mechanical Engineering
M.E. (Part Time)	46	Computer Aided Design
M.Tech.(Part Time)	47	VLSI Design
M.E. (Part Time)	50	Structural Engineering
M.E. (Part Time)	53	Applied Electronics
M.E. (Part Time)	54	Power Electronics and Industrial Drives
B.E.-(Part Time)	45	Electronics and Communication Engineering
B.E.-(Part Time)	45	Electrical and Electronics Engineering
B.E.-(Part Time)	45	Civil Engineering
B.E	20	Civil Engineering
M.E	38	Structural Engineering
B.E	11	Computer Science and Engineering
M.E	31	Electronics and Telecommunication Engineering
B.Sc	29	Computer Science and Engineering
B.Tech	12	Information Technology
B.Tech	23	Biotechnology
M.Tech	81	Biotechnology
B.Sc	77	Biotechnology
B.Sc	30	Microbiology
B.Sc	07	Biochemistry
B.E	13	Electronics and Communications Engineering
M.E	4	Embedded and IOT
M.E	88	Embedded Systems
M.Tech	108	VLSI Design
B.E	14	Electronics and Electronics Engineering
B.E	18	Electronics and Instrumentation Engineering
B.E	25	Electronics and Telecommunication Engineering
B.E	35	Applied Electronics

4.9.2.



Member's Present:

S.No.	Name	Designation	Signature
1.	Dr. K.V. Narayanan	Vice Chancellor – Chairman	
2.	Dr. T. Sasipraba	Pro Vice Chancellor	
3.	Prof. Igni Sebasthi Prabu	Controller of Examinations	
4.	Dr. B. Sheela Rani	Director - Research	
5.	Dr. R. Govindaraj	Scientist E I, CEERI, CSIR, Chennai.	
6.	Er. A. Bose	Structural consultant, HAL.	
7.	Dr. Uma Maheswari	Associate Professor, University of Madras.	
8.	Mr. Regi Thomas	Vice President, KARVY Stock Broking, Chennai.	
9.	Er. Sivasubramanian	Global Leader (SAP), TCS Chennai.	
10.	Dr. E. Logashanmugam	Dean (Staff Affairs)	
11.	Dr. G. Sundari	Dean (Student Affairs)	
12.	Dr. Manimegalai	Dean Sathyabama University Dental College	
13.	Dr. S. Prakash	Dean, School of Mechanical Engineering	
14.	Dr. M. Lakshmi	Dean, School of Computer science Engineering	
15.	Dr. Nanditha	Dean, School of Electrical and Electronics Engineering	
16.	Dr. B. S. Naveen Prasad	Dean, School of Bio and Chemical Engineering	
17.	Dr. Sivasubramaniam	Dean, School of Management studies	
18.	Dr. V. Sivachidambaranathan	Head, Department of Electrical and Electronics Engineering	

