AGENDA

OF

77th MEETING (SPECIAL)
OF THE

ACADEMIC COUNCIL

HELD ON
14th FEBRUARY 2017 AT 02.00 P.M.
AT U. N. BRAHMA MEMORIAL HALL

ASSAM UNIVERSITY
(A CENTRAL UNIVERSITY ESTABLISHED BY AN ACT OF PARLIAMENT)
SILCHAR

Assam University, Silchar

Agenda items relating to 77th Meeting (Special) of the Academic Council to be held on 14th February 2017 at 02.00 p.m. at Assam University, Silchar

(A) Agenda item for approval :

Item No. 1 : Convocation for the year 2015-16 :

The Controller of Examinations has proposed to hold the 15th Convocation of the University for the years 2015 and 2016 on 15th March 2017.

The degrees that will be conferred in the 15th Convocation are as follows:

1. MPhil and PhD degrees awarded after 16.11.2014 and on or before 24.01.2017

2. Post Graduate, Integrated, Diploma, B Ed, LLB and Three Year Degree Courses (BA, BSc, BCom, BBA, BCA) completed in any of the four exams:

      a. Odd Semester Examination 2014

      b. Even Semester Examination 2015

      c. Odd Semester Examination 2015

      d. Even Semester Examination 2016

      e. Annual Examination 2014 & 2015

3. MBBS Course completed (including Rotatory Internship Programme) in 2014 & 2015.

The proposal is accepted by the competent authority and the issue was placed before the Executive Council for ratification. However, the Executive Council further referred the same to Academic Council for consideration.

Applications received for 15th Convocation :

Bachelor of Arts	557
BBA	05
B. Com.	357
B. Sc.	282
BCA	02
B. Ed.	145
B. Pharma	26
Bachelor of Science {Computer Science (Integrated)}	38
Master of Science - Computer Science (Integrated)	43
Bachelor of Science – (Honours) – B. Ed.	03
Bachelor of Social Work (Integrated)	54
Master of Social Work (Integrated)	53
Bachelor of Technology	66
Master of Technology	16
Bachelor of Visual Arts (Integrated)	43
Master of Visual Arts (Integrated)	31
LL. B. (College)	33
Bachelor of Arts (Honours)- LLB	43
M. Phil	38
Master of Arts	533
Master of Business Administration	69
Master of Commerce	108
Master of Education	16
Master of Law	28
Master of Library & Info. Science	05
Master of Mass communication	32
Master of Science	310
MBBS	57
PGDBI (Dept. of Life Sc. & Bio-informatics)	01
PGDMM (Dept. of Commerce)	08
PGDTM (Dept. of Ecology & Env. Sc)	04
PH. D	397
MEPM (Dept. of Education)	01
Bachelor of Arts (Honours)-LLB	43
Total	**3404**

Item No. 2 : Adoption of University Grants Commission (minimum qualifications for appointment of teachers and other academic staff in universities and colleges and measures for the maintenance of standards in higher education) 4th amendment, Regulations, 2016.

The Committee constituted by the Vice Chancellor vide notification No 104/19//2012-ESTT/Part-IV/1111-15 dated 2.11.2016 for examining UGC's

Regulations 2016 relating to "Minimum Qualification for Appointment of Teachers and Other Academic Staff in Universities and Colleges and Measures for the Maintenance of Standards in Higher Education (4th Amendment)" held on 7th December, 2016 has recommend ded the following :

1. The University to follow the provisions of the 4th amendment as per which the claims for promotion under the scheme may be considered from the date of promulgation of the **4th amendment of UGC Regulations, 2016 i.e., 11th July, 2016.**

2. "Tables-I,II(A),II(B),III,IV,V(A),V(B),VI,VII,VIII(A), VIII(B) and IX of Appendix-III of the University Grants Commission (Minimum qualifications for appointment of Teachers and other academic staff in Universities and Colleges and other measures for the maintenance of standards in higher education) **(3rdAmendment)** Regulations, 2016 shall be substituted with Appendix-III : Tables-I,II(A),II(B),III,IV,V(A),V(B),VI,VII,VIII(A), VIII(B) and IX appended to the 4th Amendment Regulations 2016."

3. While considering the cases the University shall stick to the provision regarding publications in the journal notified by the UGC/identified by the university, subject wise through subject experts committee and approved by the UGC's standing committee on the matter.

The recommendations of the Committee has been accepted by the Vice Chancellor and referred to the Executive Council for ratification. However, the Executive Council discussed on the issue and advised the Chairman of the Council for placement before the Academic Council for consideration.

Item No. 3 : Revised format of application for employment & PBAS Proforma :

The Committee constituted by the Vice Chancellor, vide notification No 104/01/2016-Rect dated 29/12/2016 has submitted its recommendation for changes in the Format of Application for Employment & PBAS Proforma in the light of **4th amendment of UGC Regulations, 2016,** which has the approval of the competent authority. Further, the matter was placed before the 109th meeting of the Executive Council and the Council deferred the issue for time being and advised the University administration for placement before the Academic Council. A copy of the relevant papers is placed with the Chairman of the Academic Council for perusal.

Accordingly the matter is placed before the Academic Council for Consideration.

Item No. 4 :   Minutes of BOG of School of Technology :

The 109th meeting of the Executive Council constituted a Committee to submit a report relating to the contents of the 2nd, 3rd, 4th and 5th meeting of the BOG under TSSOT and the issues required to be discussed in the Academic Council as per the report are placed at **Annexure – I** for consideration. These are regarding :

Agenda - 1 : Academic Calendar and syllabus and examinations under new CBCS.
Agenda - 2 : Ph.D. related matters.
Agenda – 3 : Admission Criteria &
Agenda – 4 : Composition of Board of Research & Studies in TSSOT.

Item No. 5 :   Re-constitution of BPGS :

The Dean, D. C School of Legal Studies has submitted the panel of members for re-constitution of BPGS in Law.

1. Head, Dept. of Law   : Chairman

2. Dr. Rashmi Rn. Mishra, Associate Professor, Dept. of Law   : Member

3. Dr. Madhumita Dhar Sarkar, Associate Professor, of Law   : Member

4. Mr. Partha Pratim Paul, Assistant Professor, Dept. of Law   : Member

5. Mr. Priya Ranjan Kumar, Assistant Professor, Dept. of Law   : Member

6. Prof. Joyeeta Bhattacharjee, Professor, Dept. Pol. Sc.   : Member

7. Dr. R. Balakrishnan, Asso. Professor, Dept. of Education   : Member

8. Prof. (Dr.) Sachi Chakraborti   : Ext. Member
    Dept. of Law, Kolkata University, Kolkata – 19.

9. Dr. Jyoti J. Mozika   : Ext. Member
    Associate Professor, Dept. of Law, NEHU,
    Shillong, Meghalaya - 793022.

10. Prof. Ali Mehdi   : Ext. Member
    School of Law, Banaras Hindu University, Varanasi.

The matter is placed before the Council for approval.

Item No. 6 :   Re-constitution of BUGS :

The Head, Dept. of Pharmaceutical Sciences has submitted the panel of members for re-constitution of BUGS.

1. Head, Dept. of Pharmaceutical Science, AUS   : Chairman

2. Prof. Sanjib Das, Dept. of Pharmaceutical Science, AUS   : Member

3. Dr. Supratim Ray, Asso. Prof., Dept. of Pharmaceutical Science : Member

4. Dr. Nirupam Das, Asstt. Professor, Dept. of Pharmaceutical Science: Member

5. Dr. Jayanta Kr. Sarkar, Associate Professor   : Member
    Dept. of Anatomy, Silchar Medical College & Hospital

6. Dr. Amal Kumar Baruah   : Member
Institute of Pharmacy, Silchar Medical College & Hospital

7. Prof. S. K. Panda, Dept. of Life Science & Bio-informatics, AUS   : Member

8. Dr. Paritosh Mondal, Dept. of Chemistry, AUS   : Member

9. Dr. Pijush Pandey, Dept. of Microbiology, AUS   : Member

10. Dr. Bhaskar Mazumder, Professor, Dept. of Pharmaceutical Sc.   : Ext. Member
Dibrugarh University, Dibrugarh, Assam

11. Prof. Subhash Chandra Mandal,   : Ext. Member
Dept. of Pharmaceutical Technology,
Jadavpur University, Kolkata – 700 032.

The matter is placed before the Council for approval.

Item No. 7 : Re-constitution of School Board :

The Dean, Sushrutu School of Medical & Paramedical Sciences has submitted the panel of members for re-constitution of School Board.

1. Dean, Sushrutu School of Medical & Paramedical Sciences, AUS   : Chairman

2. Head, Dept. of Pharmaceutical Sciences, AUS   : Member

3. Prof. Sanjib Das, Professor of Pharmaceutical Sciences, AUS   : Member

4. Dr. Supratim Ray, Associate Prof. of Pharmaceutical Sciences   : Member

5. Mr. Abhishek Bhattachajree, Asstt. Prof. of Pharmaceutical Sc.   : Member

6. Prof. Jayashree Rout, Dept. of Ecology & Env. Sciences, AUS   : Member

7. Prof. Supriya Chakraborty, Dept. of Biotechnology, AUS   : Member

8. Prof. C. R. Bhattacharjee, Dept. of Chemistry, AUS   : Member

9. Prof. Sudipta Roy, Dept. of Comp. Sc. & Engg, AUS   : Member

10. Prof. Dipendu Das, Dept. of English, AUS   : Member

11. Dr. Pinaki Chakraborty, Assoc. Prof., Dept. of Pharmacology   : Member
Silchar Medical College & Hospital, Silchar

12. Dr. Dwarika Prasad, Institute of Pharmacy   : Member
Silchar Medical College & Hospital, Silchar

13. Prof. Dipak Chetia   : External Member
Professor, Dept. of Pharmaceutical Sciences
Dibrugarh University, Dibrugarh – 786004.

14. Prof. L. K. Ghosh   : External Member
    Dept. of Pharmaceutical Technology,
    Jadavpur University, Kolkata – 700 032.

15. Prof. B. N. Sinha   : External Member
    Dept. of Pharmaceutical Sciences, BIT Mesra, Ranchi.

16. Prof. S. K. Singh   : External Member
    Dept. of Pharmaceutics, IIT, BHU, Varanasi – 221 005.

17. Prof. Sanjay Singh   : External Member
    Dept. of Pharmaceutics, IIT, BHU, Varanasi – 221 005.

The matter is placed before the Council for approval.

Item No. 37 : **Item from the Chair :**

Item No. 38 : **Any other item with permission from the Chair :**

Registrar

Agenda 1: Academic Calendar and Syllabus & Examination under New CBCS

1.1 : ACADEMIC CALENDAR for TSSOT

1.1.1: The academic calendar for TSSOT for the academic year 2015-16 is attached.
1.1.2: The academic calendar for TSSOT for the academic year 2016-17 is attached.

1.2: PROPOSED CHOICE BASED CREDIT SYSTEM (CBCS).

The Course structure and the detailed syllabus of the courses under B.Tech and M.Tech programmes offered by TSSOT are framed following the new CBCS guidelines of UGC and AICTE. The proposed structure will be implemented from 2015-16 academic year.

1.3: Examination Pattern under new CBCS for TSSOT

- To follow the continuous evaluation process, the full mark of each paper will be distributed in three categories:
    - i) Internal assessment 20 marks (will be spread over the entire semester)
    - ii) Mid-semester examination 30 marks
    - iii) End-semester examination 50 marks
- To be promoted to 3rd year a student has to clear all the courses of 1st year and to be promoted to 4th year a student has to clear all the courses of 2nd year.
- The checking/evaluation of the answer scripts have to be completed before vacation and the evaluated answer scripts will be shown to the students during a fixed period of time. The result will be published within 6 weeks from the completion of examination.
- The summer internship will be of 8-10 weeks. The classes and the examinations have to be scheduled accordingly.
- TSSOT will remain open from 9:00 am to 5:30 pm with 30 minutes lunch break and 5 working days will be there in a week. Proper transportation facility should be there for the students and the faculties and staff for the new office hours.
- Tech fest will be organised every year starting from 5:00 pm in any Friday and will be completed by Sunday night. Monday will be the working day as usual.

AGENDA NO. 2: PhD related matters

2.1 Panel of Examiners for Ph.D. Thesis

Sl. No.	Name of the Scholar	Topic	Name of the Supervisor	Name of the Co-Supervisor	Name of the Dept
01	Debasis Dhal	Pin Assignment Droplet Routing in Digital Microfludic Biochip.	Dr. Sudipta Roy	Dr. Rajat Kumar Pal	CSE
01	Bishnulatapam Pushpa Devi	Study of Dual Image Watermarking Scheme based on Singular Value Decomposition and Visual Cryptography in Discrete Wavelet Transform	Dr. Sudipta Roy	Dr. Khumanthem Manglem Singh	CSE
02	Dalton Meitei Thounaojam	Video Retrieval System using Content-Based Video Objects	Dr. Sudipta Roy	Dr. Khumanthem Manglem Singh	CSE

2.2: Extension of Time for Submission for Ph.D. Thesis

Sl. No.	Name of the Scholar	Topic	Name of the Supervisor	Name of the Co-Supervisor	Name of the Dept	PhD Regn No. and date	Extension sought w.e.f	Extension allowed upto
01	Debasis Dhal	Pin Assignment Droplet Routing in Digital Microfludic Biochip	Prof. Sudipta Roy	Dr. Rajat Kumar Pal	CSE	Ph.D/1754/11 dt 20/09/2011	19 Sep, 2016	19 Sep, 2016
02	Banani Das	Efficient Gateway-Level Load-balancing Techniques for Wireless Mesh Network	Prof. Sudipta Roy	____	CSE	Ph.D./1751/11 dt 20/09/2011	19 Sep, 2016	19 Sep, 2016
03	PijushKantiBhattacharjee	Study on Mutual Authentication Techniques in Fourth Generation (4G) Mobile Communication.	Prof. Sudipta Roy	Dr. Rajat Kumar Pal	CSE	Ph.D/1756/11 dt 20/09/2011	19 Sep, 2016	19 Sep, 2016
04	TapodhirAcharjee	Efficient Seamless Node Mobility Technique for Large Wireless Mesh Network.	Prof. Sudipta Roy	____	CSE	Ph.D/1760/11 dt 20/09/2011	19 Sep, 2016	19 Sep, 2016
05	Biswajit Saha	Design of an Active Machine Learning Framework for the Improvement of Web Information Retrieval.	Dr. Sudipta Roy	Dr. Rajat Kumar Pal	CSE	20/09/2011	19 Sep, 2016	19 Sep, 2016
06	Sourish Dhar	An Optimized Meta-Search Engine Framework For Web	Dr. Sudipta Roy	____	CSE	PhD/1761/2011; 20/09/20	19 Sep, 2016	19 Sep, 2016

		Information Retrieval.				**11**		
07	Anirban Chakraborty	A Framework for Text Mining in Document Classification	Dr. Sudipta Roy	_____	CSE	PhD/2189/2012; 21 Sep 2012	21 Sep 2016	20 Sep 2017
08	Rupanjali Deb Baruah	Developing a Decision Support System Framework Integrating Surface, Satellite and Climate Data with Simulation Models for a Climate Resilient Tea Production System in Assam	Dr. Sudipta Roy	1. Dr. L. N. Sethi 2. Dr. R. M. Bhagat	CSE	Ph.D/2183/12; 21 Sep 2012	21 Sep 2016	20 Sep 2017
09	Sapam Jitu Singh	Path Planning of a Mobile Robot in Dynamic Environment	Dr. Sudipta Roy	Dr. Kh. Manglem Singh	CSE	Ph.D/2187/2012; 21 Sep 2012	21 Sep 2016	20 Sep 2017
10	Rajeev Rajkumar	A Robust and Forensic Method of Copy Move Digital Image Forgery Detection based on Block Matching Technique	Dr. Sudipta Roy	Dr. Khumant hemManglem Singh	CSE	Ph.D/2181/2012; 21 Sep 2012	21 Sep 2016	20 Sep 2017
11	Thiyam Ibungomacha Singh	Application of Soft Computing Tools in Brain Magnetic Resonance Imaging (MRI) Images for Medical Diagnosis	Dr. Sudipta Roy	Dr. Khumant hemManglem Singh	CSE	PhD/2186/12; 21 Sep 2012	21 Sep 2016	20 Sep 2017
12	Usham Robin Chandra Singh	Efficient Key Management Schemes through Link Layer Encryption in a Wireless Sensor Networks	Dr. Sudipta Roy	_____	CSE	PhD/2185/2012; 21 Sep 2012	21 Sep 2016	20 Sep 2017
13	Arnab Paul	Web Service Discovery & Secured Selection based on Trust & Reputation	Prof. Sudipta Roy	_____	CSE	PhD/2188/12; 21/09/2012	21/09/16	20/09/17
14	Daizy Deb	Intelligent Computing Techniques on Medical Image Segmentation and Analysis	Prof. Sudipta Roy	_____	CSE	PhD/2191/12; 21/09/2012	21/09/16	20/09/17
15	Ranjit Biswas	Content Based Image Retrieval (CBIR) for Bio-Medical Images	Prof. Sudipta Roy	_____	CSE	PhD/2190/12; 21/09/2012	21/09/16	20/09/17

2.3: Ph.D. Re-Registration Cases: The Board perused and considered the applications submitted by the following Ph.D. candidates for Re-registration with the modified title.

SL No	Name of the Candidate	PhD Reg. No. & Date	Date of Expiry of Ph.D Registration	Title of the Thesis	Proposed modified Title	Name of Supervisor
1.	Tapodhir Acharjee	PhD/1760/11; 20/09/2011	20/09/2016	Efficient Seamless Node Mobility Technique for Large Wireless Mesh Network	Efficient Hierarchical Routing Technique for Large Wireless Mesh Network	Prof. Sudipta Roy
2.	Sourish Dhar	PhD/1761/11; 20/09/2011	20/09/2016	An Optimized Meta Search Engine Framework for Web IR	An Optimized Search Engine Framework for Mathematical Information Retrieval for Textual Queries	Prof. Sudipta Roy

2.4: Ph.D. Provisional Registration:

Sl. No.	Name of the Scholar	Topic	Name of the Supervisor	Co-supervisor	Date of Prov. Regn	Department
01	Bhaskar Das	Synthesis and Testing of Reversible Logic Circuits	Dr. Ajoy Kumar Khan	-	04/09/2015	CSE
02	Chingakham Neeta Devi	An Optical Character Recognition System for Manipuri MeeteiMayek Script	Prof. Debaprasad Das	-	04/09/2015	CSE
03	Sanjoy Mitra	Design and Analysis of Diagnostic Test Generation Algorithm using ATPG Model.	Prof. Debaprasad Das	-	04/09/2015	CSE
04	T. Sonamani Singh	Development of Energy Efficient Routing Protocols in Wireless Sensors Networks for Disaster Management	Dr. Ajoy Kumar Khan	-	04/09/2015	CSE
05	W. Mona Chanu	Modelling and Analysis of Carbon Nanotubes and GrapheneNanoribbon Interconnects.	Prof. Debaprasad Das	-	04/09/2015	CSE

06	Ashim Kumar Mahato	Design & Implementation of OFDM Architecture for the use in Wireless Communications.	Prof. Debaprasad Das	-	04/09/2015	CSE
07	Soram Ranbir Singh	Study and Development of Key Management Protocols Based on Elliptic Curves for Wireless Sensor Networks.	Dr. Ajoy Kumar Khan	-	13/04/2016	CSE
08	Hridoy Jyoti Mahanta	Design and Implementation of a Secured Cryptosystem against Power Analysis Attacks.	Dr. Ajoy Kumar Khan	-	13/04/2016	CSE
09	Anamika Yadav	Design and Development of a Venture Aeration System for Aquaculture.	Dr. SudiptoSarkar	Dr. Avinash Kumar	13/04/2016	AE
10	Gajendra Prasad	Design and Development of Solar Biomass Hybrid Drying System for Fruits and Vegetables.	Dr. SudiptoSarkar	Dr. L. N. Sethi	13/04/2016	AE
11	Thoudam Gitchandra Singh	Design and Development of Recirculating Aquaculture System.	Dr. Avinash Kumar	-	13/04/2016	AE
12	Kamakshi Prasad Padhy	Integrating Water Harvesting and Hydraulic ram fed Irrigation System for crop planning in hilly terrain.	Dr. L. N. Sethi	-	04/09/2015	AE
13	Smriti Rekha Chetia Handique	Techno-economic Feasibility of integrated rainwater harvesting with solar photovoltaic pump fed micro-irrigation system in a hilly terrain.	Dr. L. N. Sethi	-	04/09/2015	AE
14	Hillolmoy Chakraborty	Techno-economic feasibility of protected cultivation structures with automated micro irrigation system in a hilly terrain	Dr. L.N. Sethi	Dr. Sudipto Sarkar	06/09/2016	AE
15	Netramoni Baruah	Design and development of a novel solid desiccant dehumidification system for the commercial farm applications	Prof. Prasanna Kumar G.V.	-	06/09/2016	AE

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Change of Title for Ph.D. Provisional Registration Cases: The members present perused the application submitted by the following Ph.D. candidate seeking change of title on the proposed research proposal.

SL. NO.	Name of the Candidate	AU Reg. No.	Date of Ph.D Provisional Registration	Old thesis Title	New Thesis Title	Name of Supervisor
1.	Hridoy JyotiMahanta	32-1200462 70 of 2012-13	13-04-2016	Design and Implementation of a Secured Cryptosystem against Power Analysis Attacks	Design and Implementation of Secured Cryptosystems against Power Analysis Attacks	Dr. Ajoy Kumar Khan

2.3: Ph.D. Final Registration Cases:

2.3.1: Inclusion of Co-Supervisor: Dean, TSSOT placed an application received from the following Ph.D. scholar of the Department of Computer Science & Engineering for **inclusion of Co-supervisor** for the research work carried out. He also informed that Mrinal Kanti Debbarma, Ph.D. Scholar has carried out his research work under the Co-supervision of **Dr. Santanu K. Sen**, but unfortunately during the entire course of research work of the scholar, the name of Dr. Santanu K. Sen was reflected as Co-supervisor with a remark "not empanneled". Initially, in this regard letters have been sent to the Academic Section on 4th September, 2012, 5th September, 2013, and 19th May, 2015 alongwith the agenda item of the School Board Meeting of TSSOT for placing the same in the BRS on 12th September, 2013. Considering all these aspects, it has been resolved that the proposal will be dealt with as per the existing norms of the University, so that a notification for award of Ph.D. Degree in respect of the scholar mentioned below can be issued afresh after incorporation of the name of Dr. Santanu K. Sen as Co-supervisor to recognise the hard work put forward by Dr. Sen.

Name of the Scholar	Title of the Research Proposal	Name of Supervisor/ Co-Supervisor	Ph.D. Registration No	Date of Award of Ph.D. Degree
Mrinal Kanti Debbarma	Design and Development of a DVR-Based Hybrid Routing Protocol for Mobile Ad-Hoc Networks	Dr. Sudipta Roy (Supervisor) Dr. Santanu K. Sen (Co-supervisor)	Ph.D/2180/12 Dated 21.09.12	18/07/2016

AGENDA NO. 3 : Admission Criteria

Revision of Criteria for Admission into M.Tech. in Agricultural Engineering:

A proposal of revision of criteria for admission in the department of Agricultural Engineering is placed for consideration. Head, Department of Agricultural Engineering briefed the members regarding the necessity of addition of M.Sc. courses in the admission to M.Tech. programme in Food Process Engineering which was discussed and approved in the DPPC Meeting of the Department held on 03/09/2015 and BORS on 4th Sep, 2015. As per resolution, it has been proposed that in addition to the existing eligibility criteria for the admission to M.Tech. in Food Process Engineering the courses will be considered namely, M.Sc. in Food Processing Technology/Food Technology/Post Harvest Technology/Food Engineering and Technology from a recognised Institute or University with minimum of 60% marks (55% for SC/ST). The Board approved the proposal of revision of criteria for admission in the M.Tech programme of the department of Agricultural Engineering.

AGENDA NO. 4: Composition of Board of Research and Studies in TSSOT

The proposal regarding composition of Board of Research & Studies in TSSOT is attached. On the basis of the approval of the Vice Chancellor, AUS regarding composition of Board of Governors in TSSOT, the Board ratified the aforesaid constitution and authorized Dean, TSSOT to take necessary steps regarding notification of the aforesaid formation of BORS in TSSOT.

Academic Calendar for TSSOT

For all Students admitted before Academic Session 2015-16 and B.Tech (Lateral) for the session 2015-16	
ODD SEMESTER : July – December, 2015	
Registration of all continuing students for the session 2015-16	**01-14 July, 2015**
Paper Registration of students with backlogs	**15 July, 2015**
Last date of Registration with admissible late fees	**31 July, 2015**
First Day of Instruction	**08 July, 2015**
First Day of Instruction for B.Tech(Lateral)	**15 July, 2015**
1st Internal	**Last week of August, 2015**
2nd Internal	**First Week of October, 2015**
3rd Internal	**First Week of November, 2015**
Submission of Internal Marks	**15 November, 2015**
Last Day of Instruction	**20 November, 2015**
Last date for End Semester Lab Examination	**20 November, 2015**
Preparatory leave	**21-24 November, 2015**
End Semester Examination	**25 November – 10 December, 2015**
Last date of showing the evaluated answer scripts to the students	**18 December, 2015**
Last date for submission of marks	**19 December, 2015**
Declaration of Results	**25 December, 2015**
Winter Break for students	**19 – 31 December, 2015**
EVEN SEMESTER: January – June, 2016	
Paper Registration of all continuing students for the semester	**01-05 January, 2016**
First Day of Instruction	**4 January, 2016**
Paper Registration of students with backlogs	**5 January, 2016**
Last date of Paper Registration with late fees	**10 January, 2016**
1st Internal	**Second week of February, 2016**
2nd Internal	**First Week of March, 2016**
3rd Internal	**First Week of April, 2016**
Submission of Internal Marks	**10 April, 2015**
Last Day of Instruction	**15 April, 2016**
Last date for End Semester Lab Examination	**15 April, 2016**
Preparatory leave	**16-19 April, 2016**
End Semester Examination	**20 April – 05 May, 2016**
Last date of showing the evaluated answer scripts to the students	**13 May, 2016**
Last date for submission of marks	**13 May, 2016**
Declaration of Results	**20 May, 2016**
Summer Break for students for Internship/Industrial Training	**13 May – 30 June 2016**

For the Students admitted in Academic Session 2015-16

ODD SEMESTER : July – December, 2015

First Day of Instruction for M.Tech	**15 July, 2015**
First Day of Instruction for B.Tech (In case Counseling procedure is delayed by unforeseen reason, academic calendar for the First year students only will be suitably adjusted keeping the examination time schedule intact)	**20 July, 2015**
Mid Term Examination	**14-18 September, 2015**
Last date of showing the evaluated mid-term answer scripts to the students	**28 September, 2015**
Last date for submission of mid-term marks	**29 September, 2015**
Submission of Internal Marks	**15 November, 2015**
Last Day of Instruction	**20 November, 2015**
Last date for End Semester Lab Examination	**20 November, 2015**
Preparatory leave	**21-24 November, 2015**
End Semester Examination	**25 November – 10 December, 2015**
Last date of showing the evaluated end semester answer scripts to the students	**18 December, 2015**
Last date for submission of end semester marks	**19 December, 2015**
Declaration of Results	**25 December, 2015**
Winter Break for students	**19 – 31 December, 2015**

EVEN SEMESTER: January – June, 2016

Paper Registration of all continuing students for the semester	**01-05 January, 2016**
First Day of Instruction	**4 January, 2016**
Mid Term Examination	**8-12 February, 2016**
Last date of showing the evaluated mid-term answer scripts to the students	**22 February, 2016**
Last date for submission of mid-term marks	**23 February, 2016**
Submission of Internal Marks	**10 April, 2016**
Last Day of Instruction	**15 April, 2016**
Last date for End Semester Lab Examination	**15 April, 2016**
Preparatory leave	**16-19 April, 2016**
End Semester Examination	**20 April – 05 May, 2016**
Last date of showing the evaluated end semester answer scripts to the students	**13 May, 2016**
Last date for submission of end semester marks	**13 May, 2016**
Declaration of Results	**20 May, 2016**
Summer Break for students	**13 May – 30 June 2016**

TSSOT will follow the Holiday List as per Assam University notification.

Approved

Dean
Triguna Sen School of Technology
Assam University, Silchar

Chairman
Board of Governors
Assam University, Silchar

ASSAM UNIVERSITY: SILCHAR
TRIGUNA SEN SCHOOL OF TECHNOLOGY
Academic calendar 2016-17

ODD SEMESTER : July – December, 2016	
Registration of all continuing students for the session 2016-17	**01-14 July, 2016**
Paper Registration of students with backlogs	**15 July, 2016 (Fri)**
Last date of Registration with admissible late fees	**29 July, 2016 (Fri)**
First Day of Instruction for all continuing students and B.Tech(Lateral) newly admitted students	**15 July, 2016 (Fri)**
First Day of Instruction for B.Tech & M.Tech First year students (In case Counseling procedure is delayed by unforeseen reason, academic calendar for the B.Tech First year students only will be suitably adjusted keeping the examination time schedule intact)	**18 July, 2016 (Mon)**
Supplementary Examination 2016	**2 Aug, 2016 onwards**
1st Internal for all continuing and B.Tech (Lateral) newly admitted students	**2nd week of August, 2016**
1st Internal for B.Tech & M.Tech First year students	**Last week of August, 2016**
2nd Internal	**2nd Week of September, 2016**
Mid Term Examination	**26 Sep-6 Oct, 2016 (Mon-Thu)**
Last date of showing the evaluated mid-term answer scripts to the students	**14 November, 2016 (Mon)**
Last date for submission of mid-term marks	**16 November, 2016 (Wed)**
3rd Internal	**First Week of November, 2016**
Submission of Internal Marks	**15 November, 2016 (Tue)**
Last Day of Instruction	**18 November, 2016 (Fri)**
Last date for End Semester Lab Examination	**18 November, 2016 (Fri)**
Preparatory leave	**19-24 November, 2016**
End Semester Examination	**25 November – 10 December, 2016 (Fri-Sat)**
Last date of showing the evaluated answer scripts to the students	**19 December, 2016 (Mon)**
Last date for submission of marks	**21 December, 2016 (Wed)**
Declaration of Results	**31 December, 2016 (Sat)**
EVEN SEMESTER: January – June, 2017	
Paper Registration of all continuing students for the semester	**02-06 January, 2017 (Mon-Fri)**
First Day of Instruction	**4 January, 2017 (Wed)**
Paper Registration of students with backlogs	**5 January, 2017 (Thu)**
Last date of Paper Registration with late fees	**10 January, 2017 (Tue)**
TechFest	**27-29 January, 2017 (Fri-Sun)**
1st Internal	**First week of February, 2017**
Mid Term Examination	**13-24 February, 2017 (Mon-Fri)**
Last date of showing the evaluated mid-term answer scripts to the students	**6 March, 2017 (Mon)**
Last date for submission of mid-term marks	**8 March, 2017 (Wed)**
2nd Internal	**Second Week of March, 2017**
3rd Internal	**First Week of April, 2017**
Submission of Internal Marks	**10 April, 2017 (Mon)**
Last Day of Instruction	**14 April, 2017 (Fri)**
Last date for End Semester Lab Examination	**14 April, 2017 (Fri)**
Preparatory leave	**15-19 April, 2017 (Sat-Wed)**
End Semester Examination	**20 April – 05 May, 2017 (Thu-Fri)**
Last date of showing the evaluated answer scripts to the students	**15 May, 2017 (Mon)**
Last date for submission of marks	**17 May, 2017 (Wed)**
Declaration of Results	**31 May, 2017 (Wed)**

(Prof. Sudipta Roy)
Member Secretary cum Dean
Board of Governors, TSSOT
Assam University, Silchar

(Prof. Ranju Rani Dhamala)
Vice Chancellor
Assam University, Silchar

ASSAM UNIVERSITY:SILCHAR
TRIGUNA SEN SCHOOL OF TECHNOLOGY

Table 1: Minimum credits to earn

Sl No	Degree	No of years	Min Credits
1	Bachelor of Technology	4	240
2	Bachelor of Technology (Lateral)	3	180
3	Master of Technology	2	120

Table 2: Types of courses

Sl. No	Category	Code	Remarks
1	Compulsory Foundation	CF	Leads to knowledge enhancement Mandatory for all discipline
2	Elective Foundation	EF	Value-based and are aimed at man-making education
3	Core	CC	Compulsory for all students
4	Discipline Centric Electives	DE	Supportive to the discipline of study
5	Open Electives	OE	Enabling an exposure to some other discipline/domain
6	Project, Seminar, Group Discussion, Grand Viva, summer training, industrial training etc.	PT	Enabling students to get the industry exposure and engineering applications in real life problems

Table 3: Class-hour

Sl. No	Type of Classes (Lesson)	Credit	Class-hour
1	Theory lecture	1	1
2	Practical/ Lab session/tutorial/assignment/ home work	2	3

Table 4(a): Evaluation Types and narks distribution

Sl. No	Type of examination	Marks (100%)	Min pass mark (30%)	Total Pass mark (50%)
1	Internal assessment	20	06	
2	Mid-term evaluation	30	09	50
3	End Semester evaluation	50	15	

Table 4(b): Guidelines at different situations

Sl. No.	Internal 20 (6)	Mid sem 30 (9)	End Sem 50 (15)	Statements
1	0-5 or Ab	0-8 or Ab	NE	• Not eligible to sit for END SEM exam; Paper code will not appear in Admit Card • Have to appear in all exams next time.
2	0-5 or Ab	≥ 9	NE	• Not eligible to sit for END SEM exam; Paper code will not appear in Admit Card • Have to appear in Internal, MID sem and END sem exams next time
4	≥ 6	0-8	NE	• Not eligible to sit for END SEM exam; • Will appear only in MID and END sem Exams next time • No scope to sit for INTERNAL exam next time.
5	≥ 6	≥ 9	0-14	• Have to appear in END SEM next time. • May appear in MID sem next time. • Better score in between past & present exam will be considered as final. • No scope for INTERNAL next time.
6	≥ 6	≥ 9	≥ 15	If total is < 50 then • May appear in MID SEM & END SEM next time. • Better score in between past & present exam will be considered as final. • No scope for INTERNAL next time.
7	≥ 6	≥ 9	≥ 15	If total is ≥ 50 then Grade will appear and PASSED.

Table 5: Grades and Grade-points

Letter Grade	Grade Point	Marks domain
O (Outstanding)	10	90-100
A (Excellent)	9	80-89
B (Good)	8	70-79
C (Average)	7	60-69
D (Pass)	6	50-59
F (Fail)	0	<50
Ab (Absent)	0	-

Table 6: SGPA and CGPA calculation

SGPA (Semester Grade Point Average)	CGPA (Cumulative Grade Point Average)
$$SGPA = \frac{\Sigma C_i * G_i}{\Sigma C_i}$$ where C_i= no of credits of the ith course G_i = grade point earned by the student in the ith course	$$CGPA = \frac{\Sigma C_j * S_j}{\Sigma C_j}$$ where C_j= total no of credits of the jth semester S_j = SGPA of the jth semester

Sl. No	Category	Minimum Credit	Max credit	Total min
1	Compulsory Foundation	40	60	60
2	Elective Foundation	10	20	
3	Core	105	105	105
4	Discipline Centric/Open Electives	35	40	35
5	Minor Project, Seminar, Industrial training	15	15	40
6	Major Project, Seminar, Grand Viva	25	25	
	Total (minimum)			240

Table 8: Course category vs Credit distribution for B.Tech (Lateral) degree under TSSOT

Sl. No	Category	Minimum Credit	Max credit	Total min
1	Core	105	105	105
2	Discipline Centric/Open Electives	35	40	35
3	Minor Project, Seminar, Industrial training	15	15	40
4	Major Project, Seminar, Grand Viva	25	25	
	Total (minimum)			180

Table 9: Course category vs Credit distribution for M.Tech degree under TSSOT

Sl. No	Category	Minimum Credit	Max credit	Total min
1	Core	30	30	30
2	Foundation	10	20	40
3	Discipline Centric Electives	20	30	
4	Open Electives	5	15	
5	Project, Grand viva, Seminar	50 (in two semesters)	50	50
	Total (minimum)			120

Table 10: Semester wise types of CoursesB.Tech degree under TSSOT

Year	Semester	Min. Credits in a semester	Type of courses
Year I	Sem I	26	CF + EF
	Sem II	34	CF + EF
Year II	Sem III	35	CC + CF + EF
	Sem IV	35	CC + CF + EF
Year III	Sem V	35	CC + EL(DE + OE) + PT
	Sem VI	30	CC + EL(DE + OE) + PT
Year IV	Sem VII	25	CC + EL(DE + OE) + PT
	Sem VIII	20	CC + EL(DE + OE) + PT

Table 11: Semester wise types of Courses M.Tech degree under TSSOT

Year	Semester	Min. Credits in a semester	Type of courses	Remarks
Year I	Sem I	35	CF + CC + EL(DE + OE)	
	Sem II	35	CF + CC + EL(DE + OE)	
Year II	Sem III	25	PT	
	Sem IV	25	PT	

Table 12: Promotion Rules for differentdegrees under TSSOT

Sl No.	Promotion Rules
1	A student cannot be promoted to next semester without appearing the preceding semester examination.
2	To be promoted to 3rd year a student has to clear all the courses of 1st year.
3	To be promoted to 4th year a student has to clearall the courses of 2nd year.

Table 13: Compulsory Foundation Courses for B.Tech (4 years) under TSSOT

S. No.	Course Code	Course Title	Hrs/week L:T:P	Credits	Preferred semester
1	SOTCF 01	Engineering Mathematics	4:0:0	4	I
2	SOTCF 02	Engineering Physics	4:0:0	4	I
3	SOTCF 03	Environmental Science	3:0:0	3	I/II/III
4	SOTCF 04	Communication Skill in English	3:0:0	3	I/II
5	SOTCF 05	Engineering Chemistry	4:0:0	4	I/II
6	SOTCF 06	Advanced Engineering Mathematics	4:2:0	5	II
7	SOTCF 07	Engineering Mechanics	4:0:0	4	II
8	SOTCF 08	Computer Systems and Programming	4:2:0	5	II
9	SOTCF 09	Electrical Technology	4:0:0	4	I/II
10	SOTCF 10	Basic Electronics	4:0:0	4	II
11	SOTCF 11	Probability and Statistics	4:0:0	4	III/IV
12	SOTCF 12	Engineering Physics Lab	0:0:4	2	With SOT CF 02
13	SOTCF 13	Engineering Chemistry Lab	0:0:4	2	With SOT CF 05
14	SOTCF 14	Engineering Drawing	0:0:4	2	I/II
15	SOTCF 15	Computer Systems and Programming Lab	0:0:4	2.	With SOT CF 08
16	SOTCF 16	Electrical & Electronics Lab	0:0:4	2	With SOT CF 09/10
17	SOTCF 17	Workshop Technology	0:0:4	2	I/II
18	SOTCF 18	Operation Research and Industrial Management	4:0:0	4	III/IV

Table 14: Elective Foundation Courses for B.Tech (4 years) under TSSOT

S. No.	Course Code	Course Title	Hrs/week L:T:P	Credits	Preferred semester
1	SOTEF 01	Economics and Human Development	3:0:0	3	I/II
2	SOTEF 02	Values and Ethics	3:0:0	3	I/II
3	SOTEF 03	Communication skill in French	3:0:0	3	I/II
4	SOTEF 04	International politics and relations	3:0:0	3	I/II
5	SOTEF 05	Human rights and duties	3:0:0	3	I/II
6	SOTEF 06	NCC	0:0:4	2	I/II
7	SOTEF 07	NSS	0:0:4	2	I/II
8	SOTEF 08	Materials Science	4:0:0	4	III/IV
9	SOTEF 09	Law for Engineers	3:0:0	3	I/II

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Course Structure of B. Tech Programme under TSSOT
FIRST YEAR

Year	Semester	Min. Credits					
		Semester	Offered for CF	Earned from CF	Offered for EF	Earned from EF	To be earned to complete first year programme
I	Sem I	26	24	40	8	10	60
	Sem II	34	28		11		

First Semester

Sl. No.	Course Code	Course Title	Contact hours/week			Credits
			L	T	P	
1	SOT CF 01	Engineering Mathematics	4			4
2	SOT CF 02	Engineering Physics	4			4
3	SOTCF 03	Environmental Science	3			3
4	SOTCF 04	Communication Skill in English	3			3
5	SOTCF 05	Engineering Chemistry	4			4
6	SOTCF 12	Engineering Physics Lab			4	2
7	SOTCF 13	Engineering Chemistry Lab			4	2
8	SOTCF 14	Engineering Drawing			4	2
		Total Credits (Compulsory Foundation)				**24**
9	SOT EF 01	Economics and Human Development	3			3
10	SOT EF 03	Communication skill in French	3			3
11	SOTEF 06	NCC			4	2
		Total Credits (Elective Foundation)				**8**

Second Semester

Sl. No.	Course Code	Course Title	Contact hours/week			Credits
			L	T	P	
1	SOTCF 06	Advanced Engineering Mathematics	4	2		5
2	SOTCF 07	Engineering Mechanics	4			4
3	SOTCF 08	Computer Systems and Programming	4	2		5
4	SOTCF 09	Electrical Technology	4			4
5	SOTCF 10	Basic Electronics	4			4
6	SOTCF 15	Computer Systems and Programming Lab			4	2
7	SOTCF 16	Electrical & Electronics Lab			4	2
8	SOTCF 17	Workshop Technology			4	2
		Total Credits (Compulsory Foundation)				**28**
9	SOT EF 02	Values and Ethics	3			3
10	SOTEF 05	Human rights and duties	3			3
11	SOTEF 07	NSS			4	2
12	SOTEF 09	Law for Engineers	3			3
		Total (Elective Foundation)				**11**

Course Structure of B. Tech in Computer Science & Engineering Programme

SECOND YEAR

YEAR	SEMESTER	CORE	COMPULSORY FOUNDATION	ELECTIVE	PROJECT,TRAINING, VIVA,SEMINAR	TOTAL
II	III	24	4	0	0	28
	IV	26	4	0	0	30

Third Semester

Sl. No.	Course Code	Course Title	L	T	P	Credits
1	CSECC 01	Data Structure	4	2		5
2	CSECC 02	Discrete Mathematics & Graph Theory	4			4
3	CSECC 03	Digital Electronics	4	2		5
4	CSECC 04	Numerical Methods	4			4
5	CSECC 05	Data Structure Lab			4	2
6	CSECC 06	Digital Electronics Lab			4	2
7	CSECC 07	Numerical Methods Lab			4	2
	Total Credits (CORE)					24
8	SOT CF18	Operations Research & Industrial Management	4			4
	Total Credits (Compulsory Foundation)					4

Fourth Semester

Sl. No.	Course Code	Course Title	L	T	P	Credits
1	CSECC 08	Database Management Systems	4	2		5
2	CSECC 09	Computer Organization And Architecture	4	2		5
3	CSECC 10	Object Oriented Programming With C++	4	2		5
4	CSECC 11	Computer Networks – I	4	2		5
5	CSECC 12	DBMS Lab			4	2
6	CSECC 13	OOPS Lab			4	2
7	CSECC 14	Computer Networks – I Lab			4	2
	Total Credits (CORE)					26
8	SOT CF 11	Probability And Statistics	4			4
	Total Credits (Compulsory Foundation)					4

Course Structure of B. Tech in Computer Science & Engineering Programme

THIRD YEAR

YEAR	SEMESTER	CORE	ELECTIVE	PROJECT,TRAINING, VIVA,SEMINAR	TOTAL
II	V	23	5	2	30
	VI	22	5	2	29

Fifth Semester

Sl. No.	Course Code	Course Title	Contact hours/week			Credits
			L	T	P	
1	CSECC 15	Operating Systems	4	2		5
2	CSECC 16	Microprocessor & Microcontroller	4			4
3	CSECC 17	Formal Languages And Automata Theory	4			4
4	CSECC 18	Computer Graphics & Multimedia	4			4
5	CSECC 19	OS Lab			4	2
6	CSECC 20	Microprocessor & Microcontroller Lab			4	2
7	CSECC 21	Computer Graphics & Multimedia Lab			4	2
	Total Credits (CORE)					23
8	CSEELXX*	Elective – I	5			5
	Total Credits (Elective)					5
9	CSE PT 01	Summer Training				2
	Total Credits (Project, Training, Viva…)					2

Sixth Semester

Sl. No.	Course Code	Course Title	Contact hours/week			Credits
			L	T	P	
1	CSECC 22	Design And Analysis Of Algorithms	4	2		5
2	CSECC 23	Computer Networks – II	4	2		5
3	CSECC 24	Web Technology	4			4
4	CSECC 25	Software Engineering	4			4
5	CSECC 26	Computer Networks - II Lab			4	2
6	CSECC 27	Web Technology Lab			4	2
	Total Credits (CORE)					22
7	CSEELXX*	Elective – II	5			5
	Total (Elective)					5
8	CSE PT 02	Group Discussion & Seminar			4	2
	Total Credits (Project, Training, Viva…)					2

* XX REPRESENTS PAPER CODE OF THE APPROPRIATE ELECTIVE GIVEN IN THE LIST OF ELECTIVE COURSES

FOURTH YEAR

YEAR	SEMESTER	CORE	ELECTIVE	PROJECT,TRAINING, VIVA,SEMINAR	TOTAL
II	VII	10	15	12	37
	VIII	0	10	18	28

Seventh Semester

Sl. No.	Course Code	Course Title	Contact hours/week			Credits
			L	T	P	
1	CSECC28	Compiler Design	5			5
2	CSECC29	Cryptography & Network Security	5			5
	Total Credits (CORE)					**10**
3	CSEELXX*	Elective – III	5			5
4	CSEELXX*	Elective – IV	5			5
5	CSEELXX*	Elective – V	5			5
	Total (Elective)					**15**
6	CSE PT 03	Project – I			14	7
7	CSE PT 04	Industrial Training			5	5
	Total Credits (Project, Training, Viva…)					**12**

Eighth Semester

Sl. No.	Course Code	Course Title	Contact hours/week			Credits
			L	T	P	
1	CSEELXX*	Elective – VI	5			5
2	CSEELXX*	Elective – VII	5			5
	Total Credits (Elective)					**10**
3	**CSE PT 05**	Project - II			30	15
4	**CSE PT 06**	Grand Viva				3
	Total (Project, Training, Viva)					**18**

* XX REPRESENTS PAPER CODE OF THE APPROPRIATE ELECTIVE GIVEN IN THE LIST OF ELECTIVE COURSES

List of Elective (Discipline) courses:

01. Cryptography & Information Security
02. Distributed Database
03. Graph Theory
04. Artificial Intelligence
05. Computer Graphics & Multimedia
06. Data Mining
07. Advanced Computer Architecture
08. Mobile Computing
09. Pattern Recognition
10. Information Retrieval
11. VLSI Design & Algorithms
12. Soft Computing
13. Computer Vision
14. Cloud Computing
15. Web Service and Service Oriented Architecture
16. Script Programming
17. Software Engineering
18. Image processing
19. Advanced Operating Systems
20. Quantum Computing
21. Data warehousing
22. Advanced Algorithm Design
23. Natural Language processing
24. Theory of Computation
25. Advanced Java programming
26. Enterprise Resource Planning
27. Fuzzy Systems
28. Neural Networks
29. Network On Chip
30. Formal System Verification
31. System Software
32. Java Programming
33. Engineering Statistics
34. Game Theory with Engineering Applications
35. Digital Signal Processing

Department of Agricultural Engineering

SECOND YEAR

Year	Semester	Core	Foundation	Elective (discipline)	Elective (Open)	Project, Trg, Sem, viva	Total
II	Sem I	26	4	0	0	0	30
	Sem II	26	4	0	0	0	30

First Semester

Sl. No.	Course Code	Course Title	Contact hours/week			Credits
			L	T	P	
1	AE-CC-01	Fluid Mechanics	3	0	0	3
2	AE-CC-02	Strength of Material	3	0	0	4
3	AE-CC-03	Thermodynamics and Heat Engines	3	0	0	3
4	AE-CC-04	Surveying and Leveling	4	0	0	3
5	AE-CC-05	Farm Machinery	3	0	0	3
6	SOT-CF- 18	Operation Research & Industrial Management	4	0	0	4
7	AE-CC-06	Fluid Mechanics Lab	0	0	4	2
8	AE-CC-07	Surveying and Leveling Lab	0	0	4	2
9	AE-CC-08	Farm Machinery Lab	0	0	4	2
10	AE-CC-09	Crop Production Technology Lab	0	0	4	2
11	AE-CC- 10	Advanced Workshop Technology	0	0	4	2
	Total (Core)		16	0	20	**26**
	Total (Foundation)		4	-	-	**4**

Second Semester

Sl. No.	Course Code	Course Title	Contact hours/week			Credits
			L	T	P	
1	AE-CC 11	Soil Science	3	0	0	3
2	AE-CC-12	Kinetics and Dynamics of Machines	3	0	0	3
3	AE-CC-13	Farm Power	3	0	0	4
4	AE-CC-14	Watershed Hydrology	4	0	0	3
5	AE-CC-15	Post Harvest Operations	3	0	0	3
6	SOT-CF-19	Probability and Statistics	4	0	0	4
7	AE-CC-16	Soil Science Lab	0	0	4	2
8	AE-CC-17	Farm Power Lab	0	0	4	2
9	AE-CC-18	Watershed Hydrology Lab	0	0	4	2
10	AE-CC-19	Post Harvest Operations Lab	0	0	4	2
11	AE-CC-20	Food Chemistry and Microbiology Lab	0	0	4	2
	Total (Core)		16	0	20	**26**
	Total (Foundation)		4	-	-	**4**

THIRD YEAR

Year	Semester	Core	Elective (discipline)	Elective (Open)	Project, Trg, Sem, viva	Total
III	Sem I	21	6 (6 min)	5 (4 min)	5	37
	Sem II	18	7 (6 min)	5 (4 min)	2	32

First Semester

Sl. No.	Course Code	Course Title	L	T	P	Credits
			Contact hours/week			
1	AE-CC-21	Machine Design	4	0	0	4
2	AE-CC-22	Soil & Water Conservation Engg.	3	0	0	3
3	AE-CC-23	Mechanical Operation in Food Processing	3	0	0	3
4	AE-CC-24	Thermal Operation in Food Processing	3	0	0	3
5	AE-CC-25	Machine Design and Drawing	0	0	4	2
6	AE-CC-26	Soil & Water Conservation Engineering Lab	0	0	4	2
7	AE-CC-27	Mechanical Food Operations Lab	0	0	4	2
8	AE-CC-28	Thermal Food Operations Lab	0	0	4	2
	Total (Core)		13	0	16	**21**
9	AE-DE -01	Elective (discipline) – I: Instrumentation & Control				
	AE-DE-02	Elective (discipline) – II				
	Total (Elective Discipline)		6	0	0	**6**
10	AE-OE-01	Elective (Open) - I				
	AE-OE-02	Elective (Open) - II				
	Total (Elective Open)		5	0	0	**5**
11	AE-PT-01	Summer Training – I				5
	Total (Project, Trg, Sem, viva)					**5**

Second Semester

Sl. No.	Course Code	Course Title	L	T	P	Credits
			Contact hours/week			
1	AE-CC-29	Soil Mechanics	3	0	0	3
2	AE-CC-30	Irrigation & Drainage Engineering	3	0	0	3
3	AE-CC-31	Refrigeration & Air Conditioning	3	0	0	3
4	AE-CC-32	Testing & Evaluation of Tractors & Machines	3	0	0	3
5	AE-CC-33	Soil Mechanics Lab	0	0	4	2
6	AE-CC-34	Irrigation & Drainage Engineering Lab	0	0	4	2
7	AE-CC-35	Testing & Evaluation of Tractors & Machines	0	0	4	2
	Total (Core)		12	0	12	**18**
9	AE-DE-03	Elective (discipline) – III				
	AE-DE-04	Elective (discipline) - IV				
	Total (Elective Discipline)		7	0	0	**7**
10	AE-OE-03	Elective (Open) - III				
	AE-OE-04	Elective (Open) - IV				
	Total (Elective Open)		5	0	0	**5**
11	AE-PT-02	Seminar & Technical Report Writing	0	0	4	2
	Total (Project, Trg, Sem, viva)		0	0	4	**2**

FOURTH YEAR

Year	Semester	Core	Elective (discipline)	Elective (Open)	Project, Trg, Sem, viva	Total
IV	Sem I	7	7 (6 min)	4 (2 min)	15	33
	Sem II	6	4 (2 min)	0	18	28

First Semester

Sl. No.	Course Code	Course Title	L	T	P	Credits
			Contact hours/week			
1	AE-CC-36	Building Materials & Structural Design	3	0	0	3
2	AE-CC-37	Renewable Energy Sources	3	0	0	3
3	AE-CC-38	Renewable Energy Sources Lab	0	0	2	1
	Total (Core)		6	0	2	7
4	AE-DE-05	Elective (discipline) - V: Tea Technology	3	0	0	3
5	AE-DE-06	Elective (discipline) – VI: Tea Technology Lab	0	0	2	1
6	AE-DE-07	Elective (discipline) - VII	3	0	0	3
	Total (Elective Discipline)		6	0	2	7
7	AE-OE-05	Elective (Open) - V				
	AE-OE-06	Elective (Open) - VI				
	Total (Elective Open)		4	0	0	**4**
8	AE-PT-03	Project – I	0	0	20	10
9	AE-PT-04	Summer Training – II				5
	Total (Project, Trg, Sem, viva)		0	0	20	**15**

Second Semester

Sl. No.	Course Code	Course Title	L	T	P	Credits
			Contact hours/week			
1	AE-CC-39	Fruits and Vegetable Processing	3	0	0	3
2	AE-CC-40	Land and Water Resource Management	3	0	0	3
	Total (Core)		6	0	0	**6**
3	AE-DE-08	Elective (discipline) – VIII: Agricultural Business Management				
	AE-DE-09	Elective (discipline) – IX				
	Total (Elective Discipline)		4	0	0	4
4	AE-OE-07	Elective (Open) - VII				
	AE-OE-08	Elective (Open) - VIII				
	Total (Elective Open)		0	0	0	**0**
5	AE-PT-05	Project – II	0	0	30	15
6	AE-PT-06	Comprehensive viva				3
	Total (Project, Trg, Sem, viva)		0	0	30	**18**

FIRST YEAR COURSE STRUCTURE FOR M. TECH. IN AQUACULTURALENGINEERING

FIRST YEAR

Year	Semester	Core	Foundation	Elective (discipline)	Elective (Open)	Project, Trg, Sem, viva	Total
I	Sem I	15	10	5	5	0	35
	Sem II	15	0	20	0	0	35

FIRST SEMESTER

Sl. No	Paper Code	Name of Paper	L	T	P	Total	Credits
1	MAE4-CC-01	Fishery Biology and Fish Culture Techniques-I	4	0	-	4	4
2	MAE4-CC-02	Design of Aquaculture Facilities and Equipment-I	3	0	-	3	3
3	MAE4-CC-03	Fishery Biology and Fish Culture Lab.	-	-	6	6	3
4	MAE4-CC-04	Seminar – I	-	-	4	4	2
5	MAE4-CC-05	Term paper-I	-	-	-	-	3
	Total (Core)		7	0	10	17	15
6	MAE4-CF-01	Open Channel Hydraulics & Coastal Engineering	7	0	-	7	7
7	MAE4-CF-02	Water Quality and Hydraulics Lab	-	-	6	6	3
	Total (Foundation)		7	0	6	13	10
8	MAE-EL-01	Computational Methods	5	0	-	5	5
	Total Elective (Discipline)		5	0	-	5	5
9	MCSE-EL-31	Web Technology	5	0	-	5	5
	Total Elective (Open)		5	0	-	5	5
Total						40	35

SECOND SEMESTER

Sl. No	Paper Code	Name of Paper	L	T	P	Total	Credits
1	MAE4-CC-06	Design of Aquaculture Facilities and Equipment-II	4	0	-	4	4
2	MAE4-CC-07	Fishery Biology and Fish Culture Techniques-II	3	0	-	3	3
3	MAE4-CC-08	Aquaculture Facilities and Equipment Lab	-	-	6	6	3
4	MAE4-CC-09	Seminar - II	-	-	4	4	2
5	MAE4-CC-10	Term paper-II	-	-	-	-	3
	Total (Core)		7	0	10	17	15
6	MAE4-DE-0	Planning and Design of Aquaculture Project	5	0	-	5	5
7	MAE4-DE-0	Elective (Discipline) – III:	5	0	-	5	5
8	MAE4-DE-0	Elective (Discipline) – IV	5	0	-	5	5
	Total Elective (Discipline)		15	0	-	15	15
9	MAE4-DE-0	MATLAB Programming	5	0	-	5	5
	Total Elective (Open)		5	0	-	5	5
Total						40	35

SECOND YEAR COURSE STRUCTURE FOR M. TECH. IN AQUACULTURAL ENGINEERINGSECOND YEAR

THIRD SEMESTER

Practical								
1	MAE4-PT-01	Thesis Part-I	-	-	-	-		15
2	MAE4-PT-02	Comprehensive Viva Voce	-	-	-	-		10
	Total Project and viva						-	25
	Total of Semester:						-	25

FOURTH SEMESTER

Practical								
1	MAE4-PT-01	Thesis Part-II	-	-	-	-		25
	Total Project and viva						-	25
	Total of Semester:						-	25

List of Elective Papers

Sl. No	Paper Code	Name of Paper	Contact Periods/Week				Credits
			L	T	P	Total	
1	MAE-EL-01	Computational Methods	5	0	-	5	5
2	MAE-EL-02	Land Husbandry and Watershed Management	7	0	-	7	7
3	MAE-EL-03	Water Quality Management	-	-	6	6	3
4	MAE-EL-04	Operations Research and Industrial Management	5	0	-	5	5
5	MAE-EL-05	Non-thermal Food Processing Technologies	5	0	-	5	5
6	MAE-EL-06	Food Chemistry and Microbiology	5	0	-	5	5
7	MAE-EL-07	Renewable Sources of Energy and Utilization	5	0	-	5	5
8	MAE-EL-08	Computer Graphics and Simulation	5	0	-	5	5
9	MAE-EL-09	Cereal, Pulses and Oil seed Processing	5	0	-	5	5

List of Elective Papers (Elective I)

Water Quality Management Practices
Advanced Water and Wastewater Treatment
Transfer Processes in Food Engineering
Water Resources System Analysis
GIS and GPS – principles and application in Agriculture
Programming and Data Structure
Statistical Methods
Computer Programming and Data Structures

Computer Programming in C++ and MATLAB

Elective IV and V

Advanced Aquaculture Technology
Computational Methods
Recirculatory Aquaculture Systems
Modelling of Aquaculture & Fisheries Systems
Fish Handling, Packaging and Storage
Water Resources Planning, Economics & Management
Principles of Fishing Technology

FIRST YEAR COURSE STRUCTURE FOR M. TECH. IN FARM MACHINERY AND POWER ENGINEERING

FIRST YEAR

Year	Semester	Core	Foundation	Elective (discipline)	Elective (Open)	Project, Trg, Sem, viva	Total
I	Sem I	15	10	5	5	0	35
	Sem II	15	0	20	0	0	35

FIRST SEMESTER

Sl. No	Paper Code	Name of Paper	L	T	P	Total	Credits
1	MAE3-CC-01	Design andTesting of Farm Power Systems-I	4	0	-	4	4
2	MAE3-CC-02	Design and Testing of Farm Machinery Systems - I	3	0	-	3	3
3	MAE3-CC-03	Farm Power Design and Testing Lab	-	-	6	6	3
4	MAE3-CC-04	Seminar – I	-	-	4	4	2
5	MAE3-CC-05	Term paper-I	-	-	-	-	3
	Total (Core)		**7**	**0**	**10**	**17**	**15**
6	MAE3-CF-01	Soil Dynamics in Tillage and Traction	7	0	-	7	7
7	MAE3-CF-02	Soil Dynamics Lab.	-	-	6	6	3
	Total (Foundation)		**7**	**0**	**6**	**13**	**10**
8	MAE-EL-08	Computer Graphics and Simulation	5	0	-	5	5
	Total Elective (Discipline)		**5**	**0**	**-**	**5**	**5**
9	MCSE-EL-05	MATLAB Programming	5	0	-	5	5
	Total Elective (Open)		**5**	**0**	**-**	**5**	**5**
Total						**40**	**35**

SECOND SEMESTER

Sl. No	Paper Code	Name of Paper	L	T	P	Total	Credits
1	MAE3-CC-06	Design and Testing of Farm Machinery Systems-II	4	0	-	4	4
2	MAE3-CC-07	Design and Testing of Farm Power Systems-II	3	0	-	3	3
3	MAE3-CC-08	Farm Machinery Design and Testing Lab.	-	-	6	6	3
4	MAE3-CC-09	Seminar - II	-	-	4	4	2
5	MAE3-CC-10	Term paper-II	-	-	-	-	3
	Total (Core)		**7**	**0**	**10**	**17**	**15**
6	MAE-EL-07	Renewable Sources of Energy and Utilization	5	0	-	5	5
7	MAE-EL-08	Computer Graphics and Simulation	5	0	-	5	5
8	MAE-EL-04	Operations Research and Industrial Management	5	0	-	5	5
	Total Elective (Discipline)		**15**	**0**	**-**	**15**	**15**
9	MCSE-EL-01	MATLAB Programming	5	0	-	5	5
	Total Elective (Open)		**5**	**0**	**-**	**5**	**5**
Total						**37**	**35**

SECOND YEAR COURSE STRUCTURE FOR M. TECH. IN FARM MACHINERY AND POWER ENGINEERING
SECOND YEAR

THIRD SEMESTER

Practical								
1	FMP-PT-01	Thesis Part-I	-	-	-	-		15
2	FMP-PT-02	Comprehensive Viva Voce	-	-	-	-		10
	Total Project and viva						-	25
	Total of Semester:						-	25

FOURTH SEMESTER

Practical								
1	FMP-PT-01	Thesis Part-II	-	-	-	-		25
	Total Project and viva						-	25
	Total of Semester:						-	25

List of Elective Papers

Sl. No	Paper Code	Name of Paper	Contact Periods/Week				Credits
			L	T	P	Total	
1	MAE-EL-01	Computational Methods	5	0	-	5	5
2	MAE-EL-02	Land Husbandry and Watershed Management	7	0	-	7	7
3	MAE-EL-03	Water Quality Management	-	-	6	6	3
4	MAE-EL-04	Operations Research and Industrial Management	5	0	-	5	5
5	MAE-EL-05	Non-thermal Food Processing Technologies	5	0	-	5	5
6	MAE-EL-06	Food Chemistry and Microbiology	5	0	-	5	5
7	MAE-EL-07	Renewable Sources of Energy and Utilization	5	0	-	5	5
8	MAE-EL-08	Computer Graphics and Simulation	5	0	-	5	5
9	MAE-EL-09	Cereal, Pulses and Oil seed Processing	5	0	-	5	5

List of Elective Papers (Elective I)

Instrumentation and Control
Remote Sensing for agricultural application
Sensor Technology
Farm Planning, Economics & Management
Statistical Methods
Computer Programming and DataStructures
Computer Programming in C++ and MATLAB
Finite Element Methods

Computational Methods

Elective IV and V
Agricultural Automation and Precision Agriculture
Simulation and Modeling
Soft Computing Applications
Ergonomics and Safety
Land Reclamation Machinery
Computer Aided Design and Graphics
Micriprocessor Based Systems

SECOND YEAR COURSE STRUCTURE FOR M. TECH. IN FOOD PROCESS ENGINEERINGSECOND YEAR

THIRD SEMESTER

Practical								
1	FPE-PT-01	Thesis Part-I	-	-	-	-		15
2	FPE-PT-02	Comprehensive Viva Voce	-	-	-	-		10
	Total Project and viva						-	25
	Total of Semester:						-	25

FOURTH SEMESTER

Practical								
1	FPE-PT-01	Thesis Part-II	-	-	-	-		25
	Total Project and viva						-	25
	Total of Semester:						-	25

List of Elective Papers

Sl. No	Paper Code	Name of Paper	Contact Periods/Week				Credits
			L	T	P	Total	
1	MAE-EL-01	Computational Methods	5	0	-	5	5
2	MAE-EL-02	Land Husbandry and Watershed Management	7	0	-	7	7
3	MAE-EL-03	Water Quality Management	-	-	6	6	3
4	MAE-EL-04	Operations Research and Industrial Management	5	0	-	5	5
5	MAE-EL-05	Non-thermal Food Processing Technologies	5	0	-	5	5
6	MAE-EL-06	Food Chemistry and Microbiology	5	0	-	5	5
7	MAE-EL-07	Renewable Sources of Energy and Utilization	5	0	-	5	5
8	MAE-EL-08	Computer Graphics and Simulation	5	0	-	5	5
9	MAE-EL-09	Cereal, Pulses and Oil seed Processing	5	0	-	5	5

List of Elective Papers (Elective I)

Food Plant and Equipment Design

Novel Drying Technologies

Research Methodology

Computer Programming in C++ and MATLAB

Computer Programming and Data Structures

Computational Methods

Statistical Methods

Separation Technology

Food Handling and Packaging

Non-destructive Food Quality Analysis

List of Electives (VI &V)

Food Processing Operations Analysis

Food Safety and Quality Management

Tea Processing Technology

Food Extrusion Technology

Food Process Instrumentation

Fruit Juice Powder Technology

Simulation and modeling

Soft Computing Applications

FIRST YEAR COURSE STRUCTURE FOR M. TECH. IN WATER RESOURCES DEVELOPMENT AND MANAGEMENT

FIRST YEAR

Year	Semester	Core	Foundation	Elective (discipline)	Elective (Open)	Project, Trg, Sem, viva	Total
I	Sem I	15	10	5	5	0	35
	Sem II	15	0	20	0	0	35

FIRST SEMESTER

Sl. No	Paper Code	Name of Paper	L	T	P	Total	Credits
1	MAE1-CC-01	Hydrology & Water Resources Engineering-I	4	0	-	4	4
2	MAE1-CC-02	Water Well and Pump Engineering- I	3	0	-	3	3
3	MAE1-CC-03	Hydrology and Water Resources Engineering Lab	-	-	6	6	3
4	MAE1-CC-04	Seminar – I	-	-	4	4	2
5	MAE1-CC-05	Term paper-I	-	-	-	-	3
	Total (Core)		**7**	**0**	**10**	**17**	**15**
6	MAE1-CF-01	On-Farm Irrigation and Drainage Engineering	7	0	-	7	7
7	MAE1-CF-02	On-Farm Irrigation and Drainage Engineering Lab	-	-	6	6	3
	Total (Foundation)		**7**	**0**	**6**	**13**	**10**
8	MAE-EL-01	Computational Methods	5	0	-	5	5
	Total Elective (Discipline)		**5**	**0**	**-**	**5**	**5**
9	MCSE-EL-05	MATLAB Programming	5	0	-	5	5
	Total Elective (Open)		**5**	**0**	**-**	**5**	**5**
Total						**40**	**35**

SECOND SEMESTER

Sl. No	Paper Code	Name of Paper	L	T	P	Total	Credits
1	MAE1-CC-06	Water Well and Pump Engineering - II	4	0	-	4	4
2	MAE1-CC-07	Hydrology & Water Resources Engineering -II	3	0	-	3	3
3	MAE1-CC-08	Water Well and Pump Engineering Lab	-	-	6	6	3
4	MAE1-CC-09	Seminar - II	-	-	4	4	2
5	MAE1-CC-10	Term paper-II	-	-	-	-	3
	Total (Core)		**7**	**0**	**10**	**17**	**15**
6	MAE-EL-02	Land Husbandry and Watershed Management	5	0	-	5	5
7	MAE-EL-03	Water Quality Management	5	0	-	5	5
8	MAE-EL-04	Operations Research and Industrial Management	5	0	-	5	5
	Total Elective (Discipline)		**15**	**0**	**-**	**15**	**15**
9	MCSE-EL-01	MATLAB Programming	5	0	-	5	5
	Total Elective (Open)		**5**	**0**	**-**	**5**	**5**
Total						**37**	**35**

SECOND YEAR COURSE STRUCTURE FOR M. TECH. IN WATER RESOURCES DEVELOPMENT AND MANAGEMENT
SECOND YEAR

THIRD SEMESTER

Practical							
1	WRM -PT-01	Thesis Part-I	-	-	-	-	15
2	WRM -PT-02	Comprehensive Viva Voce	-	-	-	-	10
	Total Project and viva					-	25
	Total of Semester:					-	25

FOURTH SEMESTER

Practical							
1	WRM -PT-01	Thesis Part-II	-	-	-	-	25
	Total Project and viva					-	25
	Total of Semester:					-	25

List of Elective Papers

Sl. No	Paper Code	Name of Paper	Contact Periods/Week				Credits
			L	T	P	Total	
1	MAE-EL-01	Computational Methods	5	0	-	5	5
2	MAE-EL-02	Land Husbandry and Watershed Management	7	0	-	7	7
3	MAE-EL-03	Water Quality Management	-	-	6	6	3
4	MAE-EL-04	Operations Research and Industrial Management	5	0	-	5	5
5	MAE-EL-05	Non-thermal Food Processing Technologies	5	0	-	5	5
6	MAE-EL-06	Food Chemistry and Microbiology	5	0	-	5	5
7	MAE-EL-07	Renewable Sources of Energy and Utilization	5	0	-	5	5
8	MAE-EL-08	Computer Graphics and Simulation	5	0	-	5	5
9	MAE-EL-09	Cereal, Pulses and Oil seed Processing	5	0	-	5	5

List of Elective Papers (Elective I):

Remote Sensing for Land and Water Resources

GIS and GPS–principles and application in Agriculture

Modelling and Simulation for Agricultural Water Management

Mathematical Models in Hydrology

Statistical Methods

Computer Programming and Data Structures

Computer Programming in C++ and MATLAB

Elective – IV and V

Advanced Groundwater Hydrology

Water Resources System Analysis

Soil Conservation Structure Design

Water Resources Planning, Economics & Management

Advanced Techniques for Ground Water Exploration and Development

Minor Irrigation and Command Area Development

Aqua cultural Engineering

Computational Methods

Second Year

Year	Semester	CC	CF	EF	DE	OE	PT	Total
II	III	7	22	-	-	4	-	29
	IV	23	8	-	-	4	-	31

CC – Compulsory Core, CF – Compulsory Foundation, EF – Elective Foundation,
DE – Discipline Elective, OE – Open Elective, PT – Project/Training/Seminar/GD/Grand-Viva

Third Semester

Sl. No.	Course Code	Course Title	Contact Hrs/Week			Credit
			L	T	P	
1	EC-CF-01	Signals & Systems	4	-	-	4
2	EC-CF-02	Solid State Devices	3	2	-	4
3	EC-CF-03	Solid State Device Lab	-	-	6	3
4	EC-CF-04	Electromagnetic Theory	4	-	-	4
5	EC-CF-05	Circuit Theory and Network Analysis	3	2	-	4
6	EC-CF-06	Networks Analysis Lab	-	-	6	3
7	EC-CC-01/ EC-OE-01	Digital Electronic Circuits	4	-	-	4
8	EC-CC-02	Digital Electronics Lab	-	-	6	3
Total			18	4	18	29

Fourth Semester

Sl. No.	Course Code	Course Title	Contact Hrs/Week			Credit
			L	T	P	
1	EC-CC-03	Analog Communication	3	-	-	3
2	EC-CC-04	Analog Communication Lab	-	-	6	3
3	EC-CC-05	Analog Electronic Circuits	4	-	-	4
4	EC-CC-06	Analog Electronics Lab	-	-	6	3
5	EC-CC-07/ EC-OE-02	Instrumentation & Measurements	4	-	-	4
6	EC-CC-08	Instrumentation & Measurements Lab	-	-	6	3
7	EC-CC-09	Antenna & Radar Engineering	3	-	-	3
8	EC-CF-07	Computer Architecture and Organization	4	-	-	4
9	EC-CF-08	Random Processes, Probability Theory & Statistics	4	-	-	4
Total			22	-	18	31

Third Year

Year	Semester	CC	CF	EF	DE	OE	PT	Total
III	V	27	-	-	4	4	-	31
	VI	19	-	-	6	4	-	29

Fifth Semester

Sl. No.	Course Code	Course Title	Contact Hrs/Week			Credit
			L	T	P	
1	EC-CC-10	Digital Communication	3	-	-	3
2	EC-CC-11	Digital Communication Lab	-	-	4	2
3	EC-CC-12/ EC-OE-03	Microprocessor	4	-	-	4
4	EC-CC-13	Microprocessor Lab	-	-	4	2
5	EC-CC-14	Digital VLSI Design	4	-	-	4
6	EC-CC-15	Digital VLSI Design Lab	-	-	4	2
7	EC-CC-16	Microwave Engineering	4	-	-	4
8	EC-CC-17	Microwave Engineering Lab	-	-	6	3
9	EC-CC-18	Microelectronics Technology	3	-	-	3
10	EC-DE-01	Discipline Elective I	4	-	-	4
Total			22	-	18	31

List of Electives
  A. Control Systems (Credit: 4)
  B. Telecommunication Systems (Credit: 4)
  C. Electronic Sensors and MEMS (Credit: 4)

Sixth Semester

Sl. No.	Course Code	Course Title	Contact Hrs/Week			Credit
			L	T	P	
1	EC-CC-19	Computer Communication & Networking	3	-	-	3
2	EC-CC-20	Computer Networking Lab	-	-	4	2
3	EC-CC-21/ EC-OE-04	Digital Signal Processing	4	-	-	4
4	EC-CC-22	Digital Signal Processing Lab	-	-	6	3
5	EC-CC-23	Microcontroller	4	-	-	4
6	EC-CC-24	Microcontroller Lab	-	-	6	3
7	EC-DE-02	Discipline Elective II	4	-	-	4
8	EC-DE-03	Discipline Elective II Lab	-	-	4	2
9	-	Open Elective I	4	-	-	4
Total			19	-	20	29

List of Electives
  A. Advanced Digital System Design (Theory & Lab) (Credit: 4+2)
  B. Power Electronics (Theory & Lab) (Credit: 4+2)
  C. Image Processing (Theory & Lab) (Credit: 4+2)

Fourth Year

Year	Semester	CC	CF	EF	DE	OE	PT	Total
IV	VII	6	-	-	6	4	13	29
	VIII	-	3	-	3	4	21	31

Seventh Semester

Sl. No.	Course Code	Course Title	Contact Hrs/Week			Credit
			L	T	P	
1	EC-CC-25	Analog VLSI Design	4	-	-	4
2	EC-CC-26	Analog VLSI Design Lab	-	-	4	2
3	EC-DE-04	Discipline Elective III	3	-	-	3
4	EC-DE-05	Discipline Elective IV	3	-	-	3
5	-	Open Elective II	4	-	-	4
6	EC-PT-01	Seminar	-	-	2	1
7	EC-PT-02	Project I	-	-	20	10
8	EC-PT-03	Industrial Training	-	-	-	2
Total			14	-	26	29

List of Electives

    A. Optical Electronics & Optical Communication (Credit: 3)
    B. Advanced Communication (Credit: 3)
    C. Embedded Systems (Credit: 3)

    A. Microwave Integrated Circuits (Credit: 3)
    B. Principles of Electromagnetic and Electrostatic Compatibility (Credit: 3)
    C. Operating System (Credit: 3)

Eighth Semester

Sl. No.	Course Code	Course Title	Contact Hrs/Week			Credit
			L	T	P	
1	EC-CF-09	Industrial Management	3	-	-	3
2	EC-DE-06	Discipline Elective V	3	-	-	3
3	-	Open Elective III	4	-	-	4
4	EC-PT-04	Grand VIVA	-	-	-	6
5	EC-PT-05	Project II	-	-	30	15
Total			10	-	30	31

List of Electives
    A. Nanotechnology & Nanoelectronics (Credit: 3)
    B. Biomedical Instrumentation (Credit: 3)
    C. EDA for VLSI Design (Credit: 3)

Annexure I

1.	Dean, TSSOT	: Chairman
2.	Head, Department of Computer Science & Engg, TSSOT	: Member
3.	Head, Department of Agricultural Engineering, TSSOT	: Member
4.	Head, Department of Electronics & Communication Engg, TSSOT	: Member
5.	All Professors of the Department of CSE, TSSOT	: Member
6.	All Professor of the Department of Agricultural Engg, TSSOT	: Member
7.	All Professor of the Department of ECE, TSSOT	: Member
8.	One Associate Prof. , Department of CSE, TSSOT	: Member
9.	One Associate Prof., Department of AE, TSSOT	: Member
10.	One Associate Prof., Department of ECE, TSSOT	: Member
11.	One Assistant Prof. , Department of CSE, TSSOT	: Member
12.	One Assistant Prof., Department of AE, TSSOT	: Member
13.	One Assistant Prof., Department of ECE, TSSOT	: Member
14.	Representative of School Board of other Schools of AUS having Interdisciplinary work (V.C.'s Nominee - 1)	: Member
15.	Representative of School Board of other Schools of AUS having Interdisciplinary work (V.C.'s Nominee - 2)	: Member
16.	One Expert to be proposed by the Department of Computer Science & Engineering outside from Assam University	: External Member
17.	One Expert to be proposed by the Department of Electronics and Communication Engineering outside from Assam University	: External Member
18.	One Expert to be proposed by the Department of Agricultural Engineering outside from Assam University	: External Member

Dean
Triguna Sen School of Technology
Assam University, Silchar

Approved

Chairman
Board of Governors,
Assam University, Silchar