



UNIVERSITY OF SCIENCE & TECHNOLOGY  
MEGHALAYA

Minutes of the 10<sup>th</sup> Meeting of the Academic Council held on April 6, 2018

Time : 11.00 am

Venue : Conference Hall, Administrative Block

The 10<sup>th</sup> meeting of the Academic Council of University of Science & Technology, Meghalaya (USTM) was held on 6<sup>th</sup> April, 2018 under the Chairmanship of Dr. R. K. Sharma, Honourable Vice Chancellor of USTM. The attendees are:

| Sl. No | Name of Members          | Designation  | Status          |
|--------|--------------------------|--|-----------------|
| 01     | Dr. R. K. Sharma         | Vice Chancellor, USTM  | Chairman        |
| 02     | Dr. Suhail Sabir         | Professor, Dept. of Chemistry, Aligarh Muslim University             | Member          |
| 03     | Dr. Saurabh Basu         | Professor, Dept. of Physics & Dean, Outreach Programme, IIT Guwahati | Member          |
| 04     | Dr. S. A. M. Pasha       | Professor, Dept. of Political Science, Jamia Milia Islamia           | Member          |
| 05     | Dr. S. K. Borthakur      | Professor, Dept. of Botany, Gauhati University                       | Member          |
| 06     | Dr. Enamul Karim         | Dean, School of Applied Sciences, USTM                               | Member          |
| 07     | Dr. Tarun Chandra Sharma | Dean, School of Biological Sciences, USTM                            | Member          |
| 08     | Dr. Jonali Chetia        | Dean, PQH School of Education, USTM                                  | Member          |
| 09     | Dr. Amit Choudhury       | Dean, School of Business Sciences, USTM                              | Member          |
| 10     | Dr. Anil Kumar Sinha     | Dean, University School of Law & Research                            | Member          |
| 11     | Dr. P. C. Mahanta        | Dean, School of Engineering & Technology, USTM                       | Member          |
| 12     | Dr. A. C. Talukdar       | Professor, Dept. of Political Science, USTM                          | Member          |
| 13     | Dr. P. K. Baruah         | Head, Dept. of Botany, USTM  | Member          |
| 14     | Dr. D. K. Sharma         | Professor, Dept. of Zoology, USTM                                    | Member          |
| 15     | Dr. Sanchita Roy         | Assistant Professor, Dept. of Physics, USTM                          | Member          |
| 16     | Dr. Narayan Chetry       | Professor & Head, Dept. of Earth Science, USTM                       | Member          |
| 17     | Mr. N. Laskar            | Finance Officer, USTM  | Member          |
| 18     | Dr. Abdur Rashid         | Head, Dept. of Economics & Commerce, USTM                            | Special Invitee |
| 19     | Dr. R. K. Sharma         | Pro Vice Chancellor, USTM  | Special Invitee |
| 20     | Dr. T. R. Gogoi          | Professor, Dept. of Sociology, USTM                                  | Special Invitee |
| 21     | Dr. Anup Kumar Bordoloi  | Asst. Professor, Deptt. of Computer Science & Electronics, USTM      | Special Invitee |





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|----|---------------------|--|-----------------|
| 22 | Dr. Pooja Chaudhuri | Assistant Professor & Head, Dept. of Physiotherapy, USTM | Special Invitee |
| 23 | Dr. Parbin Sultana  | Controller of Examination & Admissions, USTM             | Special Invitee |
| 24 | Dr. A. H. Barbhuiya | Academic Registrar, USTM                                 | Special Invitee |
| 25 | Mrs. Anju Hazarika  | Registrar, USTM  | Secretary       |

The following members could not attend for various reasons and they have sent their information of absence –

1. Prof. Manabendra Dutta Choudhury
2. Prof. S. K. Ray
3. Dr. Alaka Sarma &
4. Dr. Rezina Ahmed.

After extending formal welcome to all the members, the Chairman asked the Registrar to take up the agenda of the meeting for discussion.

## **AGENDA NO. : 10.1: CONFIRMATION OF THE MINUTES OF THE 9<sup>TH</sup> MEETING OF ACADEMIC COUNCIL HELD ON 5<sup>TH</sup> SEPTEMBER, 2017.**

The proceedings of the 9<sup>th</sup> meeting of the Academic Council held on 5<sup>th</sup> September, 2017 duly approved by the Chairman were circulated. A copy of the same was placed on the table.

**RESOLUTION : ACA: 10.18.01:** The Academic Council has unanimously confirmed the proceedings.

## **AGENDA NO. : 10.2: ACTION TAKEN REPORT**

Action taken report of the 9<sup>th</sup> Academic Council meeting was placed before the council.

**RESOLUTION:ACA:10.18.02:** The members expressed their satisfaction on the action taken and approved the same.

## **AGENDA NO. : 10.3: APPROVAL OF INTRODUCTION OF NEW COURSES /REVISION OF SYLLABI FOR VARIOUS COURSES**

The Deans of the concerned Schools placed the syllabi before the house for introduction of new courses and revision of the existing courses which were duly approved by the respective Board of Studies (BoS) and presented as per the following order:

| School                        | Department      | Name of the Programme | Programme Code |
|-------------------------------|-----------------|-----------------------|----------------|
| Applied Sciences              | Chemistry       | M. Sc. Chemistry      | MSC            |
|                               | Physics         | B. Sc. Physics        | BSP            |
|                               |                 | M. Sc. Physics        | MSP            |
|                               | Earth Science   | MA/M. Sc. Geography   | MGE            |
| M. Sc. Environmental Sciences |                 | MEV                   |                |
| Biological                    | Applied Biology | B. Sc. Microbiology   | BMB            |



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| Science                        |                                | B. Sc. Food Science & Technology    | BFST |
|--------------------------------|--------------------------------|-------------------------------------|------|
| Engineering and Technology     | Computer Science & Electronics | Bachelor in Computer Application    | BCA  |
|                                |                                | M. Sc. Electronics                  | MSE  |
|                                |                                | Masters in Computer Application     | MCA  |
| Business Sciences              | Business Administration        | Bachelor in Business Administration | BBA  |
|                                |                                | Master in Business Administration   | MBA  |
|                                |                                | Diploma in Skill Development        | DSD  |
|                                | Economics                      | MA. Economics                       | MEC  |
| Social Sciences and Humanities | Sociology                      | BA Sociology                        | BSO  |
|                                | Social Work                    | Masters in Social Work              | MSW  |
|                                | Rural Development              | Masters in Rural Development        | MRD  |
|                                |                                | MA Political Science                | MPS  |
| PQHSE                          | Education                      | Bachelor in Education               | BEd. |
|                                |                                | Doctor of Philosophy                | PhD  |

**RESOLUTION : ACA:10.18.03:** The Academic Council approved the revised syllabus of the courses under the said departments.

The revision of the syllabi of different programmes under various schools are detailed below:

**1. SCHOOL OF APPLIED SCIENCES**

|  |  |
|--|--|
| 1. BSC 101: Inorganic Chemistry I            | 23. BSC 501: Organic Chemistry IV                            |
| 2. BSC 102: Physical Chemistry I             | 24. BSC 502: Physical Chemistry V                            |
| 3. BSC 103: Inorganic Chemistry I Lab        | 25. BSC 503: Organic Chemistry IV Lab                        |
| 4. BSC 104: Physical Chemistry I Lab         | 26. BSC 504: Physical Chemistry III Lab                      |
| 5. BSC 201: Organic Chemistry I              | 27. BSC 505A: Green Chemistry                                |
| 6. BSC 202: Physical Chemistry II            | 28. BSC 505B: Novel Inorganic Solids                         |
| 7. BSC 203: Organic Chemistry I Lab          | 29. BSC 506: Green Chemistry Lab                             |
| 8. BSC 204: Physical Chemistry II Lab        | 30. BSC 507A: Analytical Methods in Chemistry                |
| 9. BSC 301: Inorganic Chemistry II           | 31. BSC 507 B: Industrial Chemicals and Environment          |
| 10. BSC 302: Organic Chemistry II            | 32. BSC 508A: Analytical Methods in Chemistry lab            |
| 11. BSC 303: Physical Chemistry III          | 33. BSC 508B: Industrial Chemicals and Environment lab)      |
| 12. BSC 304: Inorganic Chemistry II Lab      | 34. BSC 601: Inorganic Chemistry-IV                          |
| 13. BSC 305: Organic Chemistry II Lab        | 35. BSC 602: Organic Chemistry-V                             |
| 14. BSC 306A: Pharmaceutical Chemistry       | 36. BSC 603: Inorganic Chemistry-IV Lab                      |
| 15. BSC 306B: Chemical Technology of Society | 37. BSC 604: Physical Chemistry-IV Lab                       |
| 16. BSC 401: Inorganic Chemistry III         | 38. BSC 605A: Research Methodology for Chemistry             |
| 17. BSC 402: Organic Chemistry III           | 39. BSC 605B: Instrumental Methods of Analysis               |
| 18. BSC 403: Physical Chemistry IV           | 40. BSC 606 A: Polymer Chemistry                             |
| 19. BSC 404: Inorganic Chemistry III Lab     | 41. BSC 606 B: Inorganic materials of Industrial Importance. |
| 20. BSC 405: Organic Chemistry III Lab       | 42. BSC 607 A: IT Fundamentals                               |
| 21. BSC 406A: Petroleum & Petrochemicals     | 43. BSC 607 B: IT Skills for Chemists                        |
| 22. BSC 406B: Pesticide Chemistry            | 44. BSC 608: Dissertation                                    |





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**Department: Earth Science** **Name of Programme: MA/MSc Geography**

**A. New Courses Introduced**

|   |  |  |
|---|--|--|
| 1. MGE 105: Cartographic Techniques-I (Practical)                     | 5. MGE 304 C: Geoinformatics: Principles and Techniques of Remote Sensing  | 8. MGE 402 C: Geoinformatics: Principles and Techniques of GIS and GPS         |
| 2. MGE 205: Cartographic Techniques-II (Practical)                    | 6. MGE 402 A: Regional Planning: Practices in India and Selected Countries | 9. MGE 403 A: Regional Planning: Rural and Urban Development Planning in India |
| 3. MGE 304 A: A: Regional Planning: Principles, Concepts and Theories | 7. MGE 402 B: Hazards and Disaster Management: Preparedness and Mitigation | 10. MGE 403 B: Hazards and Disaster Management: Issues and Policies            |
| 4. MGE 304 B: Hazards and Disaster Management: Basic Concepts         |  | 11. MGE 403 C: Geoinformatics: Applications in Major Areas                     |
|   |  | 12. HVP 740: Human Values and Professional Ethics.                             |

**B REVISED COURSES**

1. MGE 301: Research Methodology
2. MGE 302: Quantitative Techniques
3. MGE 303: Fundamentals of Geoinformatics
4. MGE 305: Geoinformatics (General) Practical
5. MGE 404 C: Geoinformatics (Practical)

**Department: Earth Science**  
**Name of Programme: MSc Environmental Science**

**A. New Courses Introduced**

|   |   |  |
|---|---|--|
| 1. MEV 104: Statistical Techniques and Computer Applications              | 9. MEV 305: Laboratory III: Practical on Fundamentals of Geoinformatics (General) | 16. MEV 403 B: Hazards and Disaster Management: Issues and Policies                                    |
| 2. MEV 202: Soil and Freshwater Ecology                                   | 10. MEV 401: Environmental Geosciences and Meteorology                            | 17. MEV 403 C: Geoinformatics: Applications in Major Areas   |
| 3. MEV 204: Environment and Society                                       | 11. MEV 402 A: Wildlife Ecology: Conservation and Management                      | 18. MEV 403 E: Environmental Monitoring and Management: Analytical Methods                             |
| 4. MEV 302: Climate Change and Environmental Management                   | 12. MEV 402 B: Hazards and Disaster Management: Preparedness and Mitigation       | 19. MEV 404 A: Laboratory IV: Practical on Wildlife Ecology  |
| 5. MEV 304 A: Wildlife Ecology: Wildlife Habitat and Population           | 13. MEV 402 C: Geoinformatics: Principles and Techniques of GIS and GPS           | 20. MEV 404 B: Laboratory IV: Practical on Hazards and Disaster Management                             |
| 6. MEV 304 B: Hazards and Disaster Management: Basic Concepts             | 14. MEV 402 E: Environmental Monitoring and Management: Principles                | 21. MEV 404 C: Laboratory IV: Practical on Geoinformatics  |
| 7. MEV 304 C: Geoinformatics: Principles and Techniques of Remote Sensing | 15. MEV 403 A: Wildlife Ecology: Wildlife Health and Wealth                       | 22. MEV 404 E: Laboratory IV: Practical on Environmental Monitoring and Management: Analytical Methods |
| 8. MEV 304 E: Environmental Monitoring and Management: Basic Concepts     |   | 23. HVP 740: Human Values and Professional Ethics  |





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|--|---------------------------------------|
| <b>Department: Physics</b>   | <b>Name of Programme: MSc Physics</b> |
| <b>A. New Courses Introduced</b>   |                                       |
| 1. MSP-206 (Computational Physics Practical)<br>2. HVP-740 (Human Values and Professional Ethics)  |                                       |
| <b>B. Revised Courses</b>  |                                       |
| 1. MSP-102 (Classical Mechanics)<br>2. MSP-203 (Condensed Matter Physics)<br>3. MSP-304(A) (Condensed Matter Physics-I)<br>4. MSP-401(Statistical Physics)<br>5. MSP-402 (General Theory of Relativity & Astrophysics) |                                       |
| <b>C. Elective courses introduced</b>  |                                       |
| 1. MSP-304(C) (High Energy Physics)<br>2. MSP-304 (D) (Laser and Nonlinear Optics-I)<br>3. MSP-403(C) (Advanced High Energy Physics)<br>4. MSP-403 (D) (Laser and Nonlinear Optics-II)                                 |                                       |

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| <b>Department: Physics</b>  |
| <b>Name of Programme: BSc Physics</b>   |
| <b>A. New Courses Introduced</b>  |
| 1. HVP-760 (Fundamental of Human Values and Professional Ethics)  |
| <b>B. Revised Courses</b>   |
| 1. BSP-306 (Basic Instrumentation Skills)<br>2. BSP-404 (Nuclear Physics and Electronics Practical)<br>3. BSP-712 (Practical-I Practical) |

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|---|
| <b>Department: Mathematics</b>  |
| <b>Name of Programme: MSc Mathematics</b>   |
| <b>A. New Courses Introduced</b>  |
| 1. Cryptography and Coding theory (MSM 403(C))<br>2. Magneto- Hydrodynamics(MSM-403(A))<br>3. Human values and professional ethics (HVP-740)                          |
| <b>B. Revised Courses</b>   |
| 1. Advanced Partial Differential Equation (MSM-402)   |
| <b>C. Elective courses introduced</b>   |
| 1. General Theory of Relativity (MSM404)<br>2. Dynamical System (MSM-404A)<br>4. Cryptography and Coding theory (MSM 403(C))<br>5. Magneto- Hydrodynamics(MSM-403(A)) |

The Council approved all the revision/introduction of new courses as stated above. The revised syllabi will be effective from the Academic Session 2018-19.