



10 Institutional Area, Vasant Kunj
New Delhi – 110 070

**MINUTES OF THE TWENTY NINTH MEETING OF THE ACADEMIC COUNCIL HELD ON 16
JULY 2012 AT 09:30 A.M**

PRESENT

The following members of the Academic Council attended the meeting:

Members

Dr Leena Srivastava

Dr Rajiv Seth

Prof B P Murty

Prof Mihir Deb

Dr V K Jain

Prof T.C. Kandpal

Dr Vishal Narain

Dr Ravi Shankar

Prof Prateek Sharma

Prof VVN Kishore

Prof P K Joshi

Dr Shaleen Singhal

Prof S Sundar

Prof Vinod Tiwari

Prof Manipadma Datta

Dr Suneel Pandey

Mr Amit Kumar

Dr Anandita Singh

Prof Badal Mukhopadhyay

Dr Suresh Jain

Dr Arun Kansal

Dr Mala N Reddy

Dr Najmur Rehman

Dr S Ramakrishnan

Invitees

Dr Alok Adholeya

Dr Poornima Varma

Dr Kavita Sardana

Mr MV Shiju

Dr Sapna A Narula

Dr Subir Sen

Mr Soumendu Sarkar

Dr Smriti Das

Dr Kamala Sankaran, Prof M N Murty, Dr Paramjit Khurana, Prof Santosh Panda, Dr Arabinda Mishra, Mr Prabir Sengupta, Dr Sanjay Saxena and Dr Kaushik R Bandyopadhyay did not attend the meeting.

Item No. 1 To confirm the minutes of the twenty eighth meeting of the Academic Council held on 15 December 2012.

The minutes of the twenty eighth meeting of the Academic Council held on 15 December 2011, as circulated to the members, were confirmed by the Council.

Item No. 2 Extension of maximum period of submission of thesis.

A doctoral candidate is expected to submit his/her thesis within five years from the date of registration. This period may be extended by the Academic Council as a special case up-to a maximum of seven years.

It was recommended that requirements for full time and part time PhD students (which are the same at present) may be reviewed.

On the recommendations of the supervisors, the Academic Council allowed an extension of the maximum period of submission of the thesis, in respect of the following candidates:

Candidate Name	Supervisor	Period of extension
Ms Sudha Shrotria	Prof S Sundar	One year
Ms Aditi Banerjee	Dr Malini Balakrishnan	One year
Ms Savita Rakhra	Dr Nandini Kumar	One year
Ms Rajalakshmi M	Dr Alok Adholeya	Until 31 July 2012
Mr Sanjeev Kumar	Dr Alok Adholeya	One year
Ms Anshul Puri	Dr Alok Adholeya	One year

Dr. Alok Adholeya presented the case of Ph.D student, Ms. Rajalakshmi Muralidharan. As a special case, the period of submission of the thesis in respect of Ms. Muralidharan was extended until 31 July 2012. No further request for extension would be entertained after this.

Item No. 3 To consider and approve courses of the M.Sc (Environmental Studies and Resource Management) programmes.

Dr. Prateek Sharma presented structure and course contents of the M.Sc (ES&RM) programme. He informed the Council that this was a consolidation of three programmes (Environmental Studies, Natural Resources Management and Water Resources Management). The new programme was being presented to the AC members after a series of meetings within the department, followed by an external

review of each course and of the entire programme (external experts were from IIT Kanpur and IIT Mumbai).

Prof. Kandpal raised the point of inconsistency in the number of hours of credits. He suggested that it should not exceed 42hrs for a three credit course or 56hrs for a four credit course. He also brought out the fact that there was an inconsistency in the number of hours of Lecture/Tutorial/Practical which make up one credit. This needs to be corrected.

It was also pointed out that there should be a standard template for course outlines for all programmes at the TERI University.

Prof. Mihir Deb asked for the difference between elective courses - Water Conservation Hydrology and Ground Water Hydrology. This was explained by Dr. Arun Kansal.

The following courses presented to the Academic Council were discussed and approved by the Council:-

Semester I

1. Applied Mathematics
2. Ecology
3. Environmental Geosciences (to be renamed Introduction to the Environment)
4. Environmental Chemistry and Microbiology
5. Environmental Law and Policy
6. Environmental Monitoring Laboratory
7. Environmental Statistics
8. Introduction to Sustainable Development
9. Research Methodology and Thesis Writing

Semester II

1. Basic Course in Environmental and Resource Economics
2. Principles of Geoinformatics
3. Technical Writing (Communication Skills and Technical Writing)
4. Air Quality Management
5. Biodiversity Assessment and Conservation
6. Environmental Health and Risk Assessment
7. Environmental Pollution and Control
8. Hydrology
9. Multivariate data analysis
10. Solid and Hazardous Waste Management
11. Water Conservation
12. Water Quality Management

Semester III

1. Cultural Ecology and Development
2. Energy and Environment
3. Environmental Biotechnology and Societal Concerns
4. Environmental Economics
5. Environmental Management System
6. Environmental Modeling
7. Forest Management
8. Geoinformatics for Resource Management
9. Governance and Management of Natural Resources
10. Groundwater Hydrology and Management
11. Industrial Ecology
12. Integrated Impact Assessment
13. Integrated Watershed Management
14. Landscape Ecology
15. Resource Economics
16. Urban Ecosystems for Sustainable Cities
17. Vegetation Science and Site Classification
18. Water and wastewater Treatment Process and Design
19. Water Resources Optimization and Water Quality Modeling
20. Wildlife Conservation and Management

Other Electives

1. Aerosol Science
2. Climate Modeling
3. Economics of Climate Change
4. Ecosystem Dynamics and Climate Change
5. Glacier Hydrology
6. Governance and Climate Change
7. Spatiotemporal Data Analysis
8. Sustainable Urban Habitat and Climate Change

Semester IV

Major Project

Minor changes, as suggested by members, will be incorporated into the outlines.

Item No. 4 To consider and approve course structure of M.Sc (Climate Science and Policy) programme.

The revised programme structure, as presented to the Council, was approved.

The following course presented to the Academic Council was discussed and approved by the Council:-

1. Environmental Laboratory for Climate Scientists

Item No. 5 To consider and approve course structure of M.Sc (Geoinformatics) programme.

The Academic Council discussed and approved the revised programme structure of the M.Sc (Geoinformatics) programme, as presented.

Item No. 6 To consider and approve courses of the M. Tech (Renewable Energy Engineering and Management) programme.

The following course outlines of the M. Tech (Renewable Energy Engineering and Management) programmes were discussed and approved by the Academic Council

1. Heat transfer laboratory
Comment: It was suggested that for a two credit course 60hrs of lab practical is too high. It was suggested that this be reviewed and brought to 56hrs. It was also suggested that the evaluation procedure be reviewed.
2. Power system laboratory
3. Smart grids
Comment: It was pointed out that initially, students with an electrical engineering background should be encouraged to do this course. Subsequently, we could review it for other students also.

Item No. 7 To consider and approve the revised course structure of Advanced PG Diploma in Renewable Energy.

The Academic Council approved the revised programme structure of the Advanced PG Diploma in Renewable Energy with the following comments:

1. It was suggested that the rules and regulations for distance education programmes should also be presented to the Academic Council for approval.
2. It was suggested that the existing modules be sub divided into smaller modules, so that no module exceeds 4 credits. This could be done for the programme commencing 2013.

Item No. 8 To consider and approve courses of the MBA programmes.

The following course outlines of the MBA programmes were discussed and approved by the Academic Council

1. Research methods in management - I
2. Sustainability reporting
Comment: Prof. Kandpal suggested that socially responsible financial tools can be deleted from the course outline on sustainability reporting
3. Cities and climate change
4. International trade theory and policy
Comment: To be increased to a 3 credit course, from the present 2.5
5. Introductory econometrics for business and management
6. Marketing Analytics

Item No. 9 To consider and approve courses of the M.A (Public Policy and Sustainable Development) programmes.

The following course outlines of the M.A (Public Policy and Sustainable Development) programme were discussed and approved by the Academic Council

1. Challenges to sustainable development and policy making
Comment: The date of submission of abstract should not appear in the course outline.
2. State and norms: Theories and practices
3. Society and environmental law

Item No. 10 To consider and approve courses of the M.A (Sustainable Development Practice) programmes.

The revised programme structure, as presented to the Council, was approved.

The following course outlines of the M.A (Sustainable Development Practice) programme were discussed and approved by the Academic Council

1. Perspectives on Sustainable Development
Comment: Evaluation procedure to include quizzes, and not just one final exam
2. Project Design and Management
3. Public health and development: Issues and methods
4. Basics of Climate Change: Science and Policy
5. Social Research Methods

Item No.11 To consider and approve courses of the M.Sc. (Economics) programmes.

The revised programme structure, as presented to the Council, was approved.

The following course outlines of the M.Sc (Economics) programme were discussed and approved by the Academic Council

1. Advanced Econometrics
Comment: To make it a 3 credit course, the practical hours should be 28 and not 14
2. Game Theory – II

Item No.12 Any other item with the permission of the Chair.

There being no other points, the meeting ended with a vote of thanks to the Chair.