

7: - FINANCIAL MATTERS:

7:5: - Annual Account/Annual Report:

(i) Annual Report for the for the year 2005-2006.

The draft Annual Report was discussed with special emphasis on the observations of the Executive Council in its emergent meeting held on 23.10.06. As resolved by the Executive Council the draft Annual Report were circulated to the Deans for necessary corrections. The corrected Reports were sent back and placed in the meeting for editing. The Committee then resolved to place the corrected Annual Report in the Academic Council meeting.

The corrected Annual Report is placed at Annexure 'A'

The matter is placed before the Council for consideration.

(vii) Syllabus for course BP-306: Plant Physiology for M.Sc Botany

The School Board of Life Sciences approved the minor revision in the syllabus for course BP-306: Plant Physiology for M.Sc Botany. The syllabus is placed at Annexure-'A'.

The matter is, therefore, placed before the Council for ratification.

## Minor revision to the syllabus for course BP-306: Plant Physiology for the M.Sc (Botany) Syllabus. Inclusion of three practicals in the paper BP-306

It is proposed to include three more practicals (practical nos. 9, 10, 11) to the paper BP-306: Plant Physiology of the syllabus currently in operation. The revision does not involve deletion of any portion of the syllabus.

Proposed Revised Syllabus for the paper BP-306: Plant Physiology of the M.Sc (Botany) Syllabus.

1. Study of the effect of organic compounds on membrane permeability.
2. Determination of water potential in plant tissues.
3. Estimation of chlorophyll a, b and total chlorophyll content of plant tissues.
4. Isolation of plant pigments and determination of their absorption spectra.
5. Measurement of Hill reaction activity by Winkler's method; Effect of light wavelength and light intensity.
6. Assay of auxin activity by *Avena* hypocotyls elongation.
7. Assay of amylase induction by GA in plant tissues.
8. Assay of effect of cytokinin on chlorophyll degradation by leaf disc method.
9. Determination of stomatal opening and closure in leaves.
10. Isolation of mitochondria from plants and determination of NADH dehydrogenase activity in isolated mitochondria
11. Measurement of respiration in germinating seeds by continuous flow method

Suggested reading:

As in BT-305

These shall include:

### Suggested reading:

- Aducci P. (1997). Signal Transduction in Plants. Birkhauser Verlag.
- Annual Reviews of Plant Physiology and Molecular Biology. Academic Press (Annual Series)
- Bernie J. D. and Black M. (1992). Seed Physiology and Biochemistry. Springer-Verlag.
- Buchanan B.B., Wilhelm G. and Russel J. (2003). Biochemistry and Molecular Biology of Plants. ASPB, US.
- Dennis D. T. (1997). Plant Metabolism. John Wiley.
- Dey P. M. and Harborne, J. B. (2000) Plant Biochemistry. Academic Press.
- Encyclopedia of Plant Physiology. Springer-Verlag. (Annual Series).
- Gresshoff P. M. (2000). Plant Biochemistry. John Wiley.
- Goodwin T. W. and Mercer E. I. (1983). Introduction to Plant Biochemistry. Pergamon Press.
- Hopkins W.G. and Hunter N.P. (2003). Introduction to Plant Physiology. John Wiley & Sons.
- Krauss G. (1999) Biochemistry of Signal Transduction & Regulation. John Wiley.
- Lender D. W. (2001). Photosynthesis. Marcel Dekker.
- Lincoln T. and Zeiger E. (2002). Plant Physiology. Palgrave Macmillian.
- Lehninger A. I. (1993). Principle of Biochemistry. CBS.
- Leopold A. C. and Kreidman P. E. (1980). Plant growth and development. Tata MacGraw Hill.
- Mattoo A. K. and Shuttle, J. C. (1995). The Plant hormone Ethylene. CRC Press.
- Mukherji S. and Ghosh A. K. (1996). Plant Physiology. Tata- McGraw Hill.
- Noggle G. R. and Fritz C. J. (1989). Introductory Plant Physiology. Prentice Hall
- Seigler D. S. (1994). Plant secondary metabolism. Narosa
- Srivastava H. S. (1994). Plant Physiology. Rastogi and Co.
- Thomas B. and Vince-Prue D. (1997). Photoperiodism in plants. Academic Press.

(ii)

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Fresh panel of experts for the Selection Committees of different departments of the University as received from the Heads of the Departments are being tabled by the chair for kind consideration and approval of the Council.

1. Department of Management
2. Department of Mathematics
3. RSIC
4. Centre for Science Education
5. Department of Sociology
6. Department of Philosophy
7. Department of History
8. Department of Education
9. Department of Commerce
10. Department of Hindi
11. Department of Economics
12. Department of Linguistics
13. Department of English
14. Department of Physics
15. Department of Anthropology
16. Centre for Adult and Continuing Education
17. Department of Khasi
18. Department of Biotechnology and Bioinformatics
19. Department of Political Science
20. Department of Botany
21. Department of Education, Tura
22. Department of Library and Information Science
23. Department of English, Tura
24. Department of Zoology
25. Department of Garo
26. Centre for Environmental Studies
27. Department of Rural Development and Agricultural Production
28. Centre for Cultural and Creative Studies
29. Department of Geography

30. Dept. of Law  
31. Dept. of Chemistry

8: - Item from the Choice

Ac: 74: 2005: 3: (i) Draft agenda note to be placed to the Academic Council

**Sub: Creation faculty positions under the School of Technology.**

The Council is apprised that the meeting of the Engineering Committee vide its Minutes at Annexure 'A' among others recommended that the following faculty positions under the School of Technology may be advertised.

**I. Department of Electronic & Communication Engineering.**

- a) Prof / Reader - 1.
- b) Reader / Lecturer - 5

**II. Department of Information & Technology.**

- a) Prof /Reader in Computer Science -1
- b) Reader / Lecturer - (No of post not specified).

**III. Department of Basic Science & Social Science**

- a) English - 1
- b) Mathematics - 2
- c) Statistics - 3
- d) Physics - 1
- e) Chemistry - 1
- f) Biotechnology - 1
- g) Economics /Commerce - 1

The proposal at (III) contains only the subjects and no faculty position is specified against each subject.

In this connection, the matter is placed before the Council to create the aforesaid positions and also to constitute a Committee to decide on the qualifications to be prescribed for each category of post(s) and the same may be incorporated in the Ordinances for future guidance.

The matter is placed before the Council for decision and approval.