

COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

**Minutes of the 221st meeting of the Syndicate
held on 4.10 1986:**

Place of meeting : **Administrative Buildings
Cochin - 22**

Time: **11.00 a. m.**

Members present:

- 1. Dr. K. Gopalan
Vice-Chancellor (in the Chair)**
- 2. Prof. C. A. Abdussalam
Pro-Vice-Chancellor**
- 3. Dr. K. Algarswami**
- 4. Dr. N. Balakrishnan Nair**
- 5. Shri. Ishaque Kurikkal**
- 6. Shri. G. K. Pillai**
- 7. Dr. R. Pratap**
- 8. Dr. N. Raman Nair**
- 9. Dr. N. Ravindranatha Menon**
- 10. Dr. C. S. Sridhar**

11. Shri. P. P. Thankachan

12. Shri. Thiruvanchoor Radhakrishnan

Sarvasree M. S. K. Ramaswami, T. S. Ramanatha Iyer, S. Varadachari and Joseph Skariah had intimated their inability to attend, Shri. Joseph puthusseri was absent.

Item No. 221.01 : Confirmation of the minutes of the 220th meeting of the Syndicate held on 6 9 1986.

Resolved that the minutes of the 220th meeting of the Syndicate held on 6 9 1986 be confirmed.

Item No. 221.02 : Report of the Vice-Chancellor on important developments in the University since the last meeting

1. The Inter-Collegiate Youth Festival 'TALENTIME' organised by the Management Students' Forum of this University was formally inaugurated by Shri. K. R. Narayanan, Minister of State for External Affairs, Government of India on October 3, 1986. About 600 participants from over 75 institutions from all over South India are participating in this youth festival.

Shri. K. R. Narayanan also declared open the new Men's hostel.

2. The Government of India in the Ministry of Science & Technology has constituted a management Advisory Committee to manage the High Resolution Dye Laser Spectroscopy Facility which has been established in the

University with the support of the Government of India. The Management Advisory Committee consists of:

- 1) The Vice-Chancellor (Chairman)
- 2) Dr. V. B. Kartha, Bhabha Atomic Research Centre, Bombay.
- 3) The In-charge, Laser Spectroscopy Facility, Kanpur Group, to be nominated by the Director, IIT, Kanpur.
- 4) A representative of the Department of Science and Technology, Government of India.
- 5) Dr. K. Sathianandan, Member Secretary.

The term of the Committee is for the period upto 31st March 1990.

3. A UGC Committee consisting of Shri L. R. Mal, (Joint Secretary, UGC), Prof. M. Kukhopadhyaya (Head of the Department of Naval Architecture, IIT, Kharagpur), Dr. L. Joga Rao, (Head of the Department of Marine Engineering, Andhra University, Waltair,), and Commodore M. K. Mukerjee (Director, Naval Architecture, Naval Headquarters, New Delhi) visited the University to discuss future collaboration programme between our Department of Ship Technology and the William Pieck University, Rostock, GDR, in the area of Ship Technology.

4. The Annual meeting of the Laser and Spectroscopy Society of India (LASSI) will be held in this University on December 28, 1986 on the eve of the National Symposium on Quantum Electronics.

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12. Shri. Thiruvanchoor Radhakrishnan

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4. The Annual meeting of the Laser and Spectroscopy Society of India (LASSI) will be held in this University on December 28, 1986 on the eve of the National Symposium on Quantum Electronics.

5. The Secretary to the Government of India in the Ministry of Human Resource Development Shri Anand Sarup visited the University on September 29, 1986.

6. The Vice-Chancellor has been nominated to the Standing Committee of the UGC to consider establishment of new Universities and new University Post-graduate Centres.

The Vice-Chancellor has also been nominated as a member of the Science & Technology Consultative Committee of the All India Radio, Trivandrum Station.

7. Dr. Jacob Chacko and Dr. N. Chandramohan Kumar of our School of Marine Sciences have returned after participating in Cruise No 172 of R. V. Gaveshini. The cruise was from September 11 to September 30, 1986.

Shri T. S Anirudhan, Research Scholar in the School of Marine Sciences has gone to participate in cruise No. 173.

Item No. 221.03 : Registration for research for the Ph.D. degree under the Faculty of Social Sciences - applications - consideration of.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the several applications for registration for research for Ph.D. under the Faculty of Social Sciences of the University.

Resolved:

(i) The candidates as in Appendix I be granted registration for research for the degree of Doctor of Philosophy under the Faculty of Social Sciences.

(ii) Research guides be required to ensure that their part-time students (M. Phil degree holders exempted) fulfil the residential requirement as per the Regulations and furnish to the University annual reports about such compliance.

(iii) The applications in respect of Shri K S. Mony and Shri C. B. Baby may be kept pending as their proposed research guide Dr. K.C. Sankaranarayanan has more students now to guide than is admissible under the Regulations.

(Ac.B)

Item No 221.04 : Registration for research for the Ph.D. degree under the Faculty of Marine Sciences - applications - consideration of.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the several applications for registration for Ph.D. under the Faculty of Marine Sciences of the University.

Resolved :

(i) The candidates as in Appendix II be granted registration for research leading to the degree

of Doctor of Philosophy under the Faculty of Marine Sciences.

- (ii) The application of Shri P. Karthikeyan be taken up after the vacancy of a research student under Dr. P. G. Kurup arises.
- (iii). The application of Smt. P. Laxmilatha be considered only after her proposed research guide is accorded recognition by the University.

(Ac.B)

Item No. 221.05 : Registration for Research for the Ph. D. degree under the Faculty of Technology - applications - consideration of.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the several applications for research leading to the Ph. D. degree under the Faculty of Technology of the University

Resolved that the candidates as in Appendix III be granted registration for research leading to the degree of Doctor of Philosophy under the Faculty of Technology.

(Ac B)

Item No. 221.06 : Registration for research for the Ph. D. degree under the Faculty of Science - applications- consideration of.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters,

the several applications for research leading to the Ph.D. degree under the Faculty of Science of the University.

Resolved :

- (i) The 21 candidates as in Appendix IV be granted registration for research leading to the degree of Doctor of Philosophy under the Faculty of Science.
- (ii) Smt. Asha Kiriyanthan Devassy's applications may be considered after a decision is taken on the recognition of her qualifying degree.

(Ac.B)

Item No. 221.07 : Registration for research for the Ph D in the Department of applied Chemistry - applications- consideration of.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters/ the several applications for research for Ph.D. in the Department of Applied Chemistry (Faculty of Science) of the University.

Resolved that the candidates as in Appendix V be granted registration for research leading to the degree of Doctor of Philosophy under the Faculty of Science.

(Ac.B)

Item No. 221.08 : Registration for research for the Ph. D. degree under the Faculty of Environmental Studies - applications - consideration of.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the several applications for research for the Ph. D. degree under the Faculty of Environmental Studies of the University.

Resolved :

- (i) The candidates as in Appendix IV be granted registration for research leading to the degree of Doctor of Philosophy under the faculty of Environmental Studies.
- (ii) The applications of Shri. V. Shravanakumar and Shri B. Sukumar be considered later together with the remarks of the Dean of the Faculty about their suitability for registration, as their qualifying degrees are in Geography.

(Ac. B)

Item No. 221.09 : Registration for research for the Ph. D. degree under the Faculty of Law-applications - consideration of.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the several applications for registration for research

for the Ph. D. degree under the Faculty of Law of the University.

Resolved that the candidates as in Appendix VII be granted registration for research leading to the degree of Doctor of Philosophy under the Faculty of Law.

(Ac.B)

Item No 221.10 : Ph. D. thesis submitted by Sudha Balakrishnan - evaluation - reg.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the proposal for appointing external examiners for the evaluation of the Ph.D. thesis submitted by Smt. Sudha Balakrishnan, full-time research student of the Department of Hindi of the University.

Resolved that the panel of experts be approved and that the Vice-Chancellor be authorised to appoint the external examiners for the evaluation of the thesis submitted by Smt. Sudha Balakrishnan.

(Ex. A)

Item No. 221.11 : Ph D thesis submitted by S. Kanakavalli Susarla - evaluation-reg.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the proposal for appointing external examiners for the evaluation of the Ph D. thesis submitted by Smt. S. Kanakavalli Susarla, full-time research student in the School of Environmental Studies of the University.

Resolved that the panel of experts be approved and that the Vice-Chancellor be authorised to appoint external examiners for the evaluation of the thesis submitted by Smt. S. Kanakavalli Susarla.

(Ex.A)

Item No 221.12 : Ph. D. thesis submitted by Manohar Shivaram Chandge - evaluation - reg.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the proposal for appointing external examiners for the evaluation of the Ph.D. thesis submitted by Shri. Manohar Shivaram Chandge, full-time research student working in the Central Marine Fisheries Research Institute, Cochin.

Resolved that the panel of experts be approved and that the Vice-Chancellor be authorised to appoint external examiners for the evaluation of the thesis submitted by Shri. Manohar Shivaram Chandge.

(Ex.A)

Item No 221.13 : Ph. D. thesis submitted by K.G. Anilkumar - evaluation reports - consideration of.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the individual reports of the examiners together with the consolidated report of the Chairman, Board of Examiners, and the minutes of the viva voce examination in respect of the

thesis : **STUDIES ON THE METEOROLOGICAL ASPECTS OF AIR POLLUTION OVER COCHIN**, submitted by Shri K. G. Anilkumar, full-time research student who worked in the School of Marine Sciences, under the supervision of Dr. D. V. Viswanatham.

Resolved that Shri K. G. Anilkumar be declared eligible for the award of the degree of Doctor of Philosophy under the Faculty of Marine Sciences for the thesis submitted by him.

(Ex. A)

Item No. 221.14 : Ph.D. thesis submitted by T. V. Subramanian - evaluation reports - consideration of.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the individual reports of the examiners, together with the consolidated report of the Chairman, Board of Examiners, and the minutes of the viva voce examination in respect of the Ph.D. thesis : **"PREMCHANDOTTAR HINDI KAHANI SAHITYA MEM YAUVANABHAVANA (1935-60)"**, submitted by Shri T. V. Subramanian, part-time research student who worked in the University Department of Hindi under the guidance of Dr. N. Raman Nair

Resolved that Shri T. V. Subramanian be declared eligible for the award of the degree of doctor of Philosophy under the Faculty of Humanities for the thesis submitted by him.

(Ex.A)

Item No. 221.15 : Ph. D. thesis submitted by Latha Thampuran, - evaluation - reg.

The Syndicate considered, along with the recommendation of the standing Committee on Academic Matters, the proposal for appointing external examiners for the evaluation of the Ph. D. thesis submitted by Smt. Latha Thampuran, part-time research student of the School of Marine Sciences.

Resolved that the panel of experts be approved and that the Vice-Chancellor be authorised to appoint external examiners for the evaluation of the thesis:

(Ex.A)

Item No. 221.16 : Norms for the selection and award of University post-doctoral research fellowship - the views of the Academic Council - consideration of.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the views of the Academic Council on the proposal for insisting on the execution of a bond by post-doctoral students permitted to work in University departments.

Resolved that the proposal requiring post-doctoral researchers to execute a bond to the effect that "if any fellow were to discontinue research during the tenure of the award, except for taking up a teaching or research oriented job, he should refund to the University the value of the fellowship enjoyed," be referred to the IUCC for its views.

(Ac.B)

Item No. 221.17 : Department of Electronics - missing library books - writing off - reg.

The Syndicate considered, along with the recommendation of the Standing Committee on Finance & Purchase, the proposal for writing off books lost from the Library of the Department of Electronics over a period of ten years.

Resolved that the books of the value of approximately \$ 284.00, as in Appendix VIII lost from the library of the Department of Electronics be written off.

(Ac.A)

Item No. 221.18 : Exemption from refund of JRF request of P. C. Thankam - consideration of.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters the representation of Smt. P. C. Thankam, former research student of the Department of Applied Economics, that she may be exempted from refund of the fellowship enjoyed by her, as she is unemployed and financially incapable of refunding the amount.

Resolved:

(i) Smt. P. C. Thankam may be exempted from refund of the fellowship enjoyed by her as a special case.

(ii) The general question of refund of fellowship by research students who discontinue research

except for taking up a teaching or research assignment be referred to the IUCC for its views.

(Ac.)

Item No. 221.19 : Change of topic of research request of T. S. Shahul Hameed - consideration of.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters the request of Shri T. S. Shahul Hameed, research student working in the Regional Centre at Cochin of the Centre for Earth Science Studies, Trivandrum under the guidance of Dr. M. Baba, for change of topic of Research.

Resolved that Shri T. S. Shahul Hameed be granted change of the topic of his research from "A Study of the response patterns of Alleppey Coast to near shore process" to "Spectral and Statistical Characteristics of Shoaling Waves of Alleppey."

(Ac.B)

Item No. 221.20 : Recognition of Dr. A. Laxminarayana, Scientist, CMFRI, Ernakulam as supervising guide - consideration of.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters the request of Dr. A. Laxminarayana, Scientist S2, CMFRI,

Cochin for recognition as a supervising teacher of the University.

Resolved that Dr. A. Laxminarayana be recognized as a supervising guide under the Faculty of Marine Sciences of the University.

(Ac.B)

Item No 221.21 : Change of title of research topic - request of K. R. Sreekala -consideration of.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the request of Smt. K. R. Sreekala, full-time research student of the School of Marine Sciences for change of title of her research problem from "Hydrometeorological Studies of the Periyar River Basin," to "Hydrometeorological Studies of Peninsular India."

Resolved that the title of Smt. K. R. Sreekala's research problem be : "Hydrometeorological Studies of Peninsular India."

(Ac.B)

Item No. 221.22 : Dr. K. Devadasan - recognition as research guide - consideration of.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the request of Dr. K. Devadasan, Scientist of the Central Institute

of Fisheries Technology, Cochin 29, as a research guide under the Faculty of Marine Sciences of the University.

Resolved that Dr. K. Devadasan be granted recognition as a research guide under the Faculty of Marine Sciences of the University.

(Ac.B)

Item No 221.23 : Recognition as research guide - application of Dr P. T. Lakshmanan - consideration of.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the request of Dr. P. T. Lakshmanan, scientist S2 of the Central Institute of Fisheries Technology, Cochin - 29, as a research guide under the Faculty of Marine Sciences of the University.

Resolved that Dr. P. T. Lakshmanan be granted recognition as a research guide under the Faculty of Marine Sciences.

(Ac.B)

Item No. 221.24 : Re-designation of the posts of Lab Associates - Department of Electronics - reg.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the proposal for change of designation of the temporary posts of Laboratory Associates of the Department of Electronics

to Project Associates as they have been appointed in connection with research projects in operation.

Resolved that the temporary posts of Laboratory Associates created for the Department of Electronics be re-designated Project Associates, without any additional financial commitments to the University

(Ad. A)

Item No 221.25 : Dr. V. D. Sebastian, Professor, Dept. of Law-request for fixation of pay- req.

Deferred for consideration at the next meeting

(Fin)

Item No 221.26 : Special allowance to employees attending evening duty in addition to normal work-reg.

The Syndicate considered, along with the recommendations of the Standing Committees on Staff & Establishment, and Finance & Purchase, the proposal for revisioning the rates of special allowance for evening duty in the light of the revision of pay scales of employees.

Resolved that the rates of special allowance for evening duty performed on a regular basis for not less than 2 hours a day for 3 days a week over and above their normal hours of work be revised and fixed at 10% of their basic pay, subject to the amounts now

drawn by certain categories being protected against any consequential drop.

(Ad.B)

Item No.221.27 : Creation of technical posts for the Department of Electronics Reg

The Syndicate considered, along with the recommendations of the Standing Committees on Staff & Establishment and Finance & Purchase, the proposal for the creation of two posts of Technicians for the introduction of a specialization at the M. Tech level in Radar and Microwave Electronics, utilizing in part the funds sanctioned by the UGC for the purpose.

Resolved that one post of Technician C be created for the Department of Electronics, subject to the concurrence of the Finance Committee.

(Ad.A)

Item No 221.28 : Centre for Sponsored Research and Consultancy-amendment to rules-consideration of.

The Syndicate considered, along with the recommendations of the Standing Committees on Staff & Establishment and Finance & Purchase, the proposals of the Centre for Sponsored Research and Consultancy Council to amend the rules of the organization with a view to making its operations cost-effective.

Resolved that the changes proposed by the Centre for Sponsored Research and consultancy Council at

meeting held on 4-8-1986 as in Appendix IX be approved for implementation with effect from 4.8.1986.

Resolved that the existing forms prescribed for consultancy purposes be suitably revised.

(PL)

Item No. 221.29 : Exercise of revised option in the scale of pay of Reader-Shri K. J. Vincent, Reader, School of Management-Studies-request-reg.

The Syndicate considered, along with the recommendation of the Standing Committee on Finance & Purchase, the request of Shri K. J. Vincent, Reader School of Management Studies, for permission to exercise revised option in the scale of pay of Reader.

Resolved that Shri K. J. Vincent be permitted to exercise revised option in the scale of pay of Reader.

(Fin.)

Item No. 221.30 : Purchase and installation of INDO-GKS Software Package in the Department of Computer Science- reg.

The Syndicate considered, along with the recommendation of the Standing Committee on Finance & Purchase, the proposal for purchasing and installing an INDO- GKS

Software Package developed by CMC Ltd.. at a cost of Rs. 1.60 lakhs in the Department of Computer Science.

Resolved that an Indo GKS Software Package developed by CMC Ltd., at a cost of Rs. 1.60 lakhs be purchased and installed in the Department of Computer Science and that a sum of Rs. 48,000 be advanced to the Head of the Department of Electronics for the purpose.

(PI A)

Item No. 221.31 : Purchase of various items of equipment for the School of Marine Sciences - reg.

The Syndicate considered, along with the recommendation of the Standing Committee on Finance & Purchase, the proposal for purchasing for the School of Marine Sciences, various items of Oceanographic and Meteorological equipment at an approximate cost of Rs. 1,40,000/-.

Resolved that the following items of equipment be purchased for the School of Marine Sciences out of the funds specially provided for the School by the UGC.

Sl. No.	Equipment	Qty	Cost	Name of the firm from which the equip is selected
1	2 Pan Chemical Balance 1000 Mg. with wt. box.	2 Nos.	Rs. 650/-	Eastern Industrial Corporation
2	2 pen Physical Balance 500 g. with wt box	2 Nos	Rs 550/-	..
3	Thermo hydrograph	6 Nos.	Rs 4950/-	Lawrence & Mayo
4	Distant Indicating Wind equipment (Display)	1 No.	Rs. 12500/-	Environmental System Engineers Kadavanthara
5	Ocean current meter with Speed & Direction	1 No.	Rs. 18600/-	Environmental System Engineers
6	Automatic Sedimentation analyser	1 No.	Rs. 23500/-	M/s Environmental System Engineers
7	Underwater measurement system	1 No.	Rs. 18500/-	M/s. Environmental System Engineers

(PI.)

- Item No. 221.32 : Extension of the term of appointment of T. Mary Joseph. Lecturer - School of Management Studies - action of the Vice-Chancellor - reporting of.**

The Syndicate noted the action of the Vice-Chancellor in having reappointed, after a break, Smt. T. Mary Joseph adhoc appointee as lecturer in the School of Management Studies for a period of six months w.e.f. (23.9.1986 or till a regular recruit joins duty, whichever is earlier.

(Ad A)

- Item No. 221.33 : Extension of term of appointment of S. David Peter, Lecturer, Department of Computer Science - action of the Vice-Chancellor - reporting of.**

The Syndicate noted the action of the Vice-Chancellor in having granted extension of the term of appointment of Shri. S. David Peter as lecturer in the Department of Computer Science on an ad hoc basis for a further period of six months w. e. f. 18.8.1986 or till a regular recruit joins the post whichever is earlier.

(Ad.A)

- Item No. 221.34 : Cancellation of registration for research - action - reporting of.**

The Syndicate noted the action of the Vice-Chancellor in having cancelled the full-time registration for Ph.D. of Shri P. N. Ananth of the School of Marine

Sciences, on a report from the Head of the Division on Physical Oceanography and Meteorology that the candidate had left the School for IIT, Madras where he has joined a regular course.

(Ac. B)

- Item No. 221.35 : P. Anathapadmanabhan, V J Jayadev, V. Sanjeev Bhat and K N. Pushpakumari, research scholars, Department of Applied Chemistry - Relieved from UJRF - reporting of.**

The Syndicate noted the action of the Vice-Chancellor in having relieved Shri P. Anathapadmanabhan Shri. V. Jayadevu, V. Sanjeev Bhat and Smt. P. N. Pushpakumari, from University Jr. Research Fellowships in order to enable them to accept UGC research fellowships.

(Ac B)

- Item No. 221.36 : Engaging Guest Lecturers for M. Tech. Degree Course in Polymer Science and Rubber Technology - Sanctioned - reporting of.**

The Syndicate noted the action of the Vice-Chancellor in having appointed Shri R. V S. Mony, Works Manager, FACT Ltd, Udyogamandal, for giving 40 hours of lecture for M. Tech. degree students of the Department of Polymer

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(Ac. B)

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(Ac B)

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The Syndicate noted the action of the Vice-Chancellor in having appointed Shri R. V S. Mony, Works Manager, FACT Ltd, Udyogamandal, for giving 40 hours of lecture for M. Tech. degree students of the Department of Polymer

Science and Rubber Technology to meet its teaching requirements.

(Ac A)

Item No. 221.37 : Project - Optical Study of surfaces and interfaces in metals and metal semi-conductor films - implementation of...

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the proposal for implementing in the University the 3 year research project: "Optical Study of Surfaces and Interfaces in Metals and Metal-Semi-conductor Films," approved by the Department of Atomic Energy, Government of India, on a grant of Rs. 2,10,800/- under the guidance of Prof. C. Purushothaman of the Department of Physics of the University.

Resolved that the DAE project under the guidance of Prof. C. Purushothaman be implemented in the University.

(Pl.)

Item No. 221 38 : Extension of period of deputation of Smt. Rajeswary Thampuran, 1st Grade Professor of Mathematics in the Department of Mathematics and Statistics - reg.

The Syndicate considered, along with the recommendations of the Standing Committees on Academic Matters and

Staff and Establishment, the proposal of the Head of the Department of Mathematics and the Statistics to retain the services of Smt. Rajeswary Thampuran (First Grade Professor of Mathematics, Engineering College, Trivandrum) deputation for a further period of two years.

Resolved that a temporary teaching post be created in the Department of Mathematics & Statistics, subject to the concurrence of the Finance Committee for retaining the services of Smt. Rajeswary Thampuran on deputation from the Engineering College, Trivandrum.

(Ad.A)

Item No. 221.39 : Deputation of Smt. S. Valsalakumari L. D. Typist/Steno, School of Management Studies to the Cultural Publications Department, Government of Kerala.

The Syndicate considered, along with the recommendation of the Standing Committee on staff and Establishment, the proposal for allowing Smt. S. Valsalakumari, L. D. Typist of the School of Management Studies, to accept appointment as confidential Assistant in the Department of Cultural Publications, Trivandrum, Government of Kerala, on deputation for a period of one year from the date of her relief from the University.

Resolved that the services of Smt. S. Valsalakumari, L. D. Typist of the School of Management Studies, be lent to the Department of Cultural Publications of the Government of Kerala, Trivandrum, on deputation basis for one year from the date of her relief from the School.

(Ad. A)

Item No. 221.40 : Disciplinary action against Dr. G. S. Sharma - further action - consideration of.

The Syndicate heard the report of the Vice-Chancellor that Dr. G. S. Sharma, Professor in the Physical Oceanography and Meteorology Division of the School of Marine Sciences continued to act in an indisciplined manner. The Head of the Division on Physical Oceanography and Meteorology had informed the University that Dr. Sharma was not engaging classes for the IV semester M. Sc. Oceanography students even though their examinations are scheduled for November 18.

The Syndicate took a serious view of the continued misconduct of Dr. G. S. Sharma and resolved that he be placed under suspension pending the completion of the disciplinary proceedings already initiated against him.

(Ad A)

Item No. 221.41 : Recruitment to teaching posts - Constitution of Selection Committees - reg

The Syndicate noted that recruitment to teaching posts notified has soon to be made.

Resolved that the Chancellor be requested to constitute Selection Committees for recruitment of teaching staff

as per section 26 (2) (a) and (b) of the Cochin University of Science and Technology Ordinance 1986.

(Ad.A)

Item No 221.42 : Submission of a panel of two names to the Government of Kerala for appointment of Registrar of the University - consideration of.

The Syndicate considered, along with the recommendation of the Selection Committee constituted by the Chancellor, regarding the panel of two names to be forwarded to the Government, as required under section 13 (1) of the Cochin University of Science and Technology Ordinance 1986 (Ordinance 48 of 1986).

Resolved that the panel consisting of the following two names, listed in the order of merit, be forwarded to the Government for consideration under section 13 (1) of the Cochin University of Science and Technology Ordinance 1986 (Ordinance 48 of 1986):

1. Shri. V. J. Pappoo
Director, Planning and Development
Cochin University of Science and Technology
Cochin-22.
2. Shri K. K. George
Principal
St. Peter's College
Kolencherry
Ernakulam Dist. 682 311.

Sarvasree C. A. Abdussalam and Ishaque Kurikkal
dissented.

(Ad. A)

The meeting terminated at 1:15 p. m.

University Buildings

Cochin-22

Dated: 7-10-1986

Sd/-
REGISTRAR

APPENDIX I TO ITEM NO. 221.03

Statement of candidates granted registration for research leading to Ph.D. degree

Sl. No.	Name of the Applicant, Centre of Research. Whether full-time/ Part-time	Name of the Guide	Topic of Research	Title, if selected
1.	Aliyar A. B. School of Management Studies Full-time	Dr. P. R. Wilson Schpol of Management Studies.	An Inquiry into the nature and causes of Socio-Economic Back- wardness of Muslims in Kerala.	Same as the topic.
2.	Antony D. Parackal School of Management Studies Part-time	-do-	Management controls in Industries - A study Reference to medium and large scale industr- ies in Kerala.	-do-

1	2	3	4	5
3.	Sunny Thomas School of Management Studies Part-time	Prof. P. Ramachandria Poduval School of Management Studies	A study of the stimulus - response interactions in advertisement effective- ness with special ref. to selected consumer products.	Consumer behaviour/ advertising
4.	Ommen Philip School of Management studies. Part-time	Dr. C. M. George School of Management	Management training in the Departments of Health Services and Treasuries in Kerala.	-do-
5.	Chinnaraj Joseph Jaikumar T. S. M. S., Full-time	Dr. C. M. George Professor School of Management	Pattern of Management interventions in Fisher- ies Development.	-do-

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1	2	3	4	5
6.	Jacob Mary School of Management Studies Part-time	Dr. Jose T. Payyappilly School of Management	Labour participation in Industry and its impact on productivity : A study with special reference to Q/E/N Group of companies in Kerala.	Same as the topic
7.	Gladis Mary John C. School of Management Studies Part-time	Dr. N. Chandrasekharan Pillai Reader, S.M.S.	Committment of Women Industrial Workers.	Not selected
8.	Aruna K. M. School of Management Studies Part-time	Dr. K. George Varghese Reader S.M.S.	A Study of Corporate Financial Reporting Practices.	Same as the topic

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1	2	3	4	5
9. Baby Joseph School of Management Studies Part-time	Dr. P. N. Rajendra Prasad Reader S. M. S.	A study of the Performance of the 'Geevan Sathi' and 'Jeevan Mithra' policies offered by LIC.	Same as the topic	
10. Mathew K. A. School of Management Studies Part-time	Dr. P. R. Wilson S. M. S.	A study of capital structure in major industrial concerns in Kerala	Financial Management- Capital Structure	32
11. Supriya P. Dept. of Applied Economics Full-time	Dr. Jose T. Payyappillay Professor S.M.S.	The problems of women labour in the Fish Processing industry in Kerala.	Not selected	

1	2	3	4	5
12. C. V. Malini Dept. of Applied Economics Full-time	-do-	The economics of the fish processing industry in Kerala.	Same as the topic	
13. Sanichen Thomas K. Dept. of Applied Economics Part-time	Dr. M. K. Sukumaran Nair Reader Dept. of Applied Economics	Industrial estates in Kerala and the Punjab-a comparative study.	Same as the topic	33
14. Santhosh S. Dept. of Applied Economics Part-time.	Dr. M. K. Sukumaran Nair Reader Dept. of Applied Economics	A Study on the Aging of population in Kerala and its impact on the Socio-economic development of the State.	Not selected.	

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|--|--|--|---|
| 15. Padmaja S.
Dept. of Applied
Economics
Part-time | Dr. M. K. Sukumaran
Nair
Reader
Dept. of Applied
Economics | Tertiary Sector in
Kerala. | -do- |
| 16. José K. Joseph
Dept. of Applied
Economics
Part-time | Dr. P. Sudarsanan Pillai
Lecturer
S. M. S. | Economics of Justice
in Kerala. | Same as the topic |
| 17. Varghese V. P.
Dept. of Applied
Economics
Part-time | -do- | Impact of Social forestry
programmes on Kerala
Economy. | Impact of social forestry
programmes on rural
income and employment
potential in Kerala. |
| 18. Babu Joseph
Dept. of Applied
Economics
Part-time | Dr. Jose T. Payyappilly
professor, S. M. S. | The securities market in
Kerala - problems,
potential and prospects. | Same as the topic |

APPENDIX II TO ITEM NO. 221.04

- | Sl. No. | Name of the Applicant,
Centre of Research.
Whether full-time/
Part-time | Name of the Guide | Topic of Research | Title, if selected |
|---------|---|--|---|--------------------|
| 1. | Krishnan M.
Dept. of Industrial
Fisheries
Full-time | Dr. Kuruvila Mathew
Reader
Dept. of Industrial
Fisheries | Studies on the Ecology
and Biology of Vellorita
Spp. | Same as the topic |
| 2. | Muraleedharan
Nair M. N.
Centre for Earth
Science Studies
Trivandrum
Part-time | Dr. P. N. K. Nambisan,
Prof. & Head, Chemical
Oceanography Division
School of Marine
Sciences. | Studies on the Physico-
Chemical Characteristics
of Beypore Estuary | -do- |

1	2	3	4	5
3.	Roy George School of Marine Sciences Full-time	Dr. K. T. Damodaran Reader in Marine Geology School of Marine Sciences.	Mineralogical Variations and diagenetic changes in sediments of the Ashtamudi lake and the near shore region off Neendakara coast.	-do-
4.	Reethamma O. V. School of Marine Sciences Full-time	Dr. C. K. Radhakrishnan	Effects of heavy metals on Decapode Crusta- ceans of Cochin backwaters.	-do-
5.	Supriya R. School of Marine Sciences Full-time	Dr. R. Damodharan	Studies on the survival of sunetta scripta in different salinities.	Same as the topic

36

1	2	3	4	5
6.	Shiny Sreedhar K. School of Marine Sciences Full-time	Dr. C. K. Radhakrishnan	Studies on the Biology of Modiolus (SPP) species of Cochin waters.	Not selected
7.	Geetha T. S. School of Marine Sciences Full-time	Dr. Jacob Chacko	Chemical studies on sentinal organisms.	-do-
8.	Syriac Sebastian School of Marine Sciences	Dr. K. T. Damodaran	Minerology, Geochemi- stry and Provenance of the sediments from. certain Estuarines along North Kerala Coast.	same as the topic

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1	2	3	4	5
9. Abdurahiman Kutty V. School of Marine sciences Full-time	Dr. P. Seralathan	Geochemical And Sedi- mentological studies of the continen- tal shelf sediments off Cochin Ponnani Coast, Kerala.	Not selected	
10. Prabhakaran N. NIO, Cochin Full-time	Dr. M. Krishnankutty	Studies on Fungal Flora with special reference to yeasts in the Cochin backwaters.	Same as the topic	
11. Revichandran C. NIO, Cochin-18. Full-time	Dr. P. G. Kurup	Studies on Dynamics of Sedimentation in the Azhikode Estuary.	Not selected	

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1	2	3	4	
12. Doyil T. Vengayil NIO, Cochin-18 Full-time	Dr. M. Krishnan Kutty	Ecology, life History and Population Dynam- ics of Apseudes Chilk- ansis - a live feed Organism,	Ecology and life history studies of Apseudes Chilkensis Chilton.	
13. Joseph Gilbert P. G. (SRF) CMFRI, Cochin Full-time	Dr. P. S. B. R. James CMFRI	Ecological characterist- ics of Prawns culture fields in the Cochin area.	-do-	39
14. Selvaraju S. (SRF) CMFRI Full-time	Dr. V.S K. Chennubhotla CMFRI	Ecological and Physiol- ogical studies on seagrass beds of Minocoy Atoll (Laksha- dweep) in the Arabian sea.	-do-	

1	2	3	4	5
15.	Kuldeep Kumar Lal (SRF) CMFRI, Cochin Full-time	Dr. P. S. B. R. James CMFRI	Studies on the reproductive Physiology of Lates Calcarifer Bloch)	-do-
16.	Gulshad Mohammed (SRF) CMFRI Full-time	Dr. V.S.K. Chennubhotla CMFRI	Studies on the effects of Pollution on the distribution and Physiology of selected sea-weeds.	-do-
17.	Suresh Kumar K. (SRF) CMFRI Full-time	Dr. V. Chandrika CMFRI (recognition under consideration)	Studies on Micro-biological decomposition and recycling of Organic matter in brackish water culture ponds of Cochin.	-do-

	2	3	4	5
18.	Vijayakumar S. (SRF) CMFRI Full-time	Dr. M. K. George (under consideration)	Electro phoretic studies on the grey mullet, mugil cephalus (L)	-do-
19.	Joslet Mathew (SRF) CMFRI Full-time	Dr. S. Kulasekhara Pandian	Population biology and ecology of Artemia from salt marshes of South east Coast of India.	Same as the topic
20.	Annie Mathew (SRF) CMFRI Full-time	Dr. A. Geethanand Ponnai	Studies on selected izozymes of the edible oyster Crassostrea Madrasensis	-do-
21.	Mary Mathews (SRF) CMFRI, Cochin, Full-time	Dr. K. J. Mathew CMFRI,	Studies on Penaeid Prawn seed in some selected centres in Cochin backwaters.	-do-

1	2	3	4	5
22.	Sally Anne Thomas (SRF) CMFRI, Cochin Full-time	Dr. L. Krishnan CMFRI	Studies on the reproductive Physiology of the Mullet <i>Liza parsia</i> (Hamilton Buchanan) in relation to hormonal applications.	-do-
23.	Gopakumar G. MPEDA, Cochin Part-time	Dr. V. J. Kuttyamma	Studies on the Effect of Hydrogen sulphide on the Penaeid prawns of Kayamkulam lake, South West Coast of India.	-do-
24.	Radhakrishnan K. G. NPOL, Cochin Part-time	Dr. G. S. Sharma	Thermocline Structure in the Arabian sea in relation to Physical Processes.	-do-

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1	2	3	4	5
25.	V. V. James NPOL Part-time	Dr. P. G. Kurup	A study on the sound velocity structure in the Eastern Arabian sea using a Direct Reading sound velocity meter developed by self.	Not selected
26.	V. Prasadachandran Pillai, Dept. of Industrial Fisheries Part-time	Dr. C. Hridayanathan Reader, Dept. of Industrial Fisheries.	Studies on the Frozen Seafood Industry of Kerala with respect to its technological and economic development, its present status and future prospects.	Studies on the Frozen seafood export industry of Kerala with respect to its technological and economic developments, problems, present status and future prospects.

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APPENDIX III TO ITEM NO. 221.05

Statement of candidates granted registration for research leading to Ph. D. Degree.

Sl. No.	Name of the Applicant, Centre of Research. Whether full-time/ Part-time	Name of the Guide	Topic of Research	Title if selected
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1.	Jacob C J. NPOL, Cochin Part-time	Dr V. K. Aatre Director, NPOL	Piezo Electric Hydrophones	—
2.	Remadevi R. Dept. of Electronics Full-time	Dr. Mrs. P. V. Deo Reader Dept. of Electronics	Averaging Filters	—
3.	James Kurian Dept of Electronics Full-time	Dr. (Mrs.) Deo Prabha Vasant Reader Dept. of Electronics	Fault Detection in Digital Systems.	Fault Detection in Digital System.

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1	2	3	4	5
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4.	Seetha K. Dept. of Electronics Full-time	Dr. (Mrs.) Deo Prabha Vasant Reader, Dept. of Electronics.	Digital System design using MSI & LSI circuits	—
5.	Jose Kuruvilla Dept. of Electronics Part-time	Dr. (Mrs.) Deo Prabha Vasant	Fault Detection in Digital Systems	Comparative study of Digital Fault Detection Techniques & their application.
6.	M. Srinivas Rao Dept. of Electronics Part-time	Prof. K. G. Nair, Head Dept. of Electronics	Micro-wave Propagat- ion studies	-do-
7.	John Abraham Dept. of Electronics Part-time	Mrs. Deo Prabha Vasant Reader Dept. of Electronics	Digital Electronics	—

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1	2	3	4	5
8.	Rani K. A. Dept. of Polymer Science & Rubber Technology Part-time	Dr. A. P. Kuriakose Reader Dept. of PS & RT	Studies in Rubber Vulcanization	—
9.	Antony T. P. Dept of Polymer Science and Rubber Technology Part-time	Prof. (Dr) Joseph Francis Head, Dept. of PS & RT	Studies on Asphalt Formation from vacuum residue.	—
10.	Daniel Abraham Dept. of Polymer Science & Rubber Technology Full-time	-do-	Degradation studies on Thermoplastic elastomers	Not selected

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APPENDIX IV TO ITEM NO. 221.06

Statement of candidates granted registration for research leading to Ph. D. degree

Sl. No.	Name of the Applicant, Centre of Research. Whether full-time/ Part-time	Name of the Guide	Topic of Research	Title if selected
1.	Augustine M. K. Dept. of Maths & Statistics Part-time	R. S. Chakravarthi Reader Dept. of Maths & Statistics	Studies in Algebra.	—
2.	Abraham P. Kersh Dept. of Maths & Stats Full-time	Dr. M. Ramachandra Kaimal Lecturer Dept. of Maths & Stats	Differential equations and its applications to Biological/chemical/ systems.	—

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1	2	3	4	5
3.	Hitha N. Dept. of Maths & Statistics Full-time	Dr. A. Krishnamoorthy Reader Maths & Statistics	Stochastic Process and their applications	---
4.	Johnson T. P. Dept. of Maths & Stats Full-time	Dr. T. Thrivikraman Head, Dept. of Matha and Stats.	Some problems in Topology Category theory and their applications	Not selected
5.	Mathew Koshy Dept. of Maths & Stats Part-time	R. S. Chakravarthi Reader Dept. of Maths & Stats	Non-commutative algebra.	-do-
6.	Philip Varghese Dept. of Maths & Stats Full-time	Dr. A. Krishnamoorthy Reader Maths & Statistics	Stochastic Processes and their applications.	---

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1	2	3	4	5
7.	M. B. Rajeswari Devi Dept. of Maths & Stats. Part-time	Dr. T. Thrivikraman Head, Dept. of Mathematics & Stats	Some problems in Topology and Geometry.	Not selected
8.	Radha P. Dept. of Maths & Stats. Full-time	R. S. Chakravarthi Dept. of Maths & Stats	Studies in Algebra.	—
9.	V. N. Ramachandran Pillai Dept. of Maths & Stats Part-time	Dr. N. Ramachandra Kaimal Lecturer Dept. of Maths & Stats	Mathematical Analysis of Biological /Chemical Systems	—
10.	Rajan Varghese Dept. of Maths & Stats. Part-time	Dr. A. Krishnamoorthy Dept. of Maths & Stats	Sampling inference and stochastic models.	Not selected

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1	2	3	4	5
11. Sunny Kuriakose A. Dept. of Maths & Stats Part-time	Dr. T. Thrivikraman Head, Maths & Stats.	Some problems in Fuzzy set theory and related topics.	Not selected	
12. Godfrey L. Dept. of Physics Part-time	Dr. Jacob Philip Reader Dept. of Physics	Phase transition Studies in solids.	Not selected	
13. Gopakumar P. Dept. of Physics Full-time	Dr. Elizebeth Mathai Lecturer Department of Physics	Growth, characterisat- ion and properties of some Ferrites.	—	
14. Mammen Samuel Dept. of Physics Part-time	Dr. C. Purushothaman Professor of Physics	Holographic study of surfaces of thin films and solids.	Application of Holography for surface studies and pattern recognition.	

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2	3	4	5
15. Valyomana A. G. Dept. of Physics Full-time	Dr. C. Purushothaman Professor Physics Department	Preparation of certain semi-conducting films by screen printing Technique and their characterization.	—
16. Peter V. J. Dept. of Physics Part-time	Dr. M. Sabir. Lecturer Dept. of Physics	Field theory	Studies on the dynamics of Gauge fields.
17. Rose P. Ignatius Dept. of Physics Full-time	Dr. K Babu Joseph Professor Dept. of Physics	High energy Physics string and related theories.	string and related theories.
18. Valsamma K. M. Dept. of Physies. Full-time	Dr. K. Babu Joseph Professor Dept. of Physics	Some aspects of non- linear Dynamics.	—

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1	2	3	4	5
19. Ramesh Kumar I. G. Dept of. Physics Full-time	Dr. K. Sathianandan Professor Physics Department	Laser induced damage threshold studies on thin films.	Same as the topic	
20. Bala B. Dept. of Physics Full-time	Dr. M Sabir Lecturer Dept. of Physics	Studies on monopoles and other solitonic structures in field theory.		
21. Mary Paulose P. Dept. of Physics Full-time	Dr. K. Sathianandan Professor Physics Department	Ellipsometric study of carrier Lifetime, surface recombination and diffusion length in (Cd Zn) S/CuxS Bilayer thin film system.	Not selected	

APPENDIX V TO ITEM NO. 221.07

Statement of candidates granted registration for research leading to Ph. D. Degree.

Sl. No.	Name of the Applicant, Centre of Research. Whether full-time/ Part-time	Name of the Guide	Topic of Research	Title, if selected
1.	Sonny Sebastian Dept. of Applied Chemistry Full-time	Prop. Paul A. Vatakencherry	Studies in organic Reactions.	Not selected
2.	Roy K. Varghese Dept. of applied Chemistry Full-time	-do-	Studies on Asymmetric Synthesis.	"

1	2	3	4	5
3. Keshav Mohan Dept. of Applied Chemistry Full-time	Dr. P. Madhavan Pillai Reader Dept. of Applied Chemistry	Synthesis and Reactions of Heterocyclic compounds.	Not Selected	
4. Sooryan E. K. Dept. of Applied Chemistry Full-time	Dr. P. Madhavan Pillai Reader	Chemical Investigation on Indigenous medicinal plants.	Not selected	34
5. Ravi Kumar T. Dept. of Applied Chemistry Full-time	"	Studies on the Chemistry and Micro- biology of coconut water	Not selected	
6. Mary U D. Dept. of Applied Chemistry Full-time	Dr. S. Sugunan Reader, Dept. of Applied Chemistry	Alkaline Hydrolysis of salicylate esters.	Not selected	

1	2	3	4	5
7. Gracy George K. Dept. of Applied Chemistry Full-time	Dr. S. Sugunan Reader, Dept. of Applied Chemistry	Acid Base properties and catalytic Activity of Rare earth oxides.	Not selected	
8. Sreenivasan P. V. Dept. of Applied Chemistry Full-time	Dr. K. K. Mohammed Yusuff Reader Dept. of Applied Chemistry	Synthesis, characteri- zation and catalytic activity studies of some new Transition metal complexes.	"	35
9. Madhusoodanan U. Dept. of Applied Chemistry Full-time	Dr. K. L. Sebastian Professor, Dept. of Applied Chemistry	Reaction Dynamics on surfaces.	"	

APPENDIX VI TO ITEM NO. 221.08

Statement of candidates granted registration for research leading to Ph. D. Degree

Sl. No.	Name of the Applicant, Centre of Research. Whether full-time/ Part-time	Name of the Guide	Topic of Research	Title, if selected
1.	Jacob Mathew RRII, Kottayam, Part-time	Dr. K. P. Balakrishnan Head, School of Environmental Studies.	Problems and Prospects of wastes generated from rubber industries.	—
2.	Manju M. R. School of Environmental Studies Full-time	Dr. K. P. Balakrishnan	Variation in the Productivity of Algae under different Environmental stress.	—
3.	Josephine Santha Sebastian J. School of Environmental Studies Part-time	Dr. A. Mohandas Reader School of Environmental Studies.	Biology of Larval Trematodes (Digenea)	Not Selected
4.	Asha Nayar M. School of Environmental Studies Part-time	Dr. A. Mohandas Reader, School of Environmental Studies.	Haematological studies on Gastropods.	Not Selected
5.	Reju M. K. School of Environmental Studies Part-time	—do—	Crustacean Haematolo- gical studies.	"

1	2	3	4	5	
6.	Benjamin P. V. School of Environmental Studies Part-time	Dr. K. P. Balakrishnan Head, School of Environmental Studies.	Environmental Planning.	Environmental impact of urbanisation in Cochin and environmental (ecological) planning guidelines for future development of Greater Cochin Area.	58
7.	George Samuel School of Environmental Studies Part-time.	Dr. A. Mohandas Reader, School of Environmental Studies	Study on the Biological effects of noise pollution.	—	
8.	Bennichen Thomas School of Environmental Studies Full-time	Dr. A. Mohandas	End products accumula- tion in Bivalves.	Not selected	

APPENDIX VII TO ITEM NO. 221.09

Statement of candidates granted registration for research leading to Ph. D. Degree.

Sl. No.	Name of the Applicant, Centre of Research, Whether full-time/ Part-time	Name of the Guide	Topic of Research	Title, if selected
1	2	3	4	5
1.	Ravi John Dept. of Law Full-time	Dr. P. Leelakrishnan Prof. & Head Department of Law	Legal Control of Industrial Pollution	Same as the topic
2.	K. Vikraman Nair Dept. of Law Part-time	Dr. V. D. Sebastian Professor, Dept. of Law	Right to personal liberty under the Indian constitution.	Right to personal liberty under the Indian constitution with special reference to judicial process.

1	2	3	4	5
3.	Y. P. Ramia Subbiah Dept. of Law Part-time	Dr. N. S. Chandra- sekharan, Reader, Dept. of Law	Industrial Relations in Andhra Pradesh State Road Transport Corporation.	Same as the topic
4.	Annie John Dept. of Law Part-time	Dr. V. D. Sebastian Professor Dept. of Law	Minority rights under the Indian constitution	Educational rights of the Minorities under the Indian constitution.
5.	Promodan M. C. Dept. of Law Full-time	-do-	Right to Freedom of Information in India,	Same as the topic
6.	Chakkan M. Dept. of Law Part-time	Dr. V. D. Sebastian, Professor, Department of Law.	Commodity control in India.	Same as the topic

1	2	3	4	5	6
7.	Valsamma Paul Dept. of Law Part-time	Dr. N. S. Chandrasekharan Reader Department of Law.	Compensation to workmen for industrial injuries.	Same as the topic	

APPENDIX VIII TO ITEM NO. 221.17

List of missing library books from the Department
of Electronics as on 15th April, 1986.

Sl. No.	Acc. No.	Author	Total	Price
1.	EL 11	Bartee	Digital Computer Fundamentals	\$ 5.50
2.	EL 25	Oppenheim	Digital Signal Processing	\$ 23.95
3.	EL 33	Tocci	Digital Systems, Principles & Applications	\$ 15.95
4.	EL 35	Rasodoff	Electronic Drafting & Design	\$ 16.95
5.	EL 37	Spiller	Digital Communications of Satellites	\$ 38.00
6.	EL 50	Melsa	Linear Control Systems	\$ 21.00
7.	EL 83	Benson	Problems in Electronics with Solutions	\$ 3.95
8.	EL 97A	Lin	Microprocessor	\$ 19.90
9.	EL 07	Luecke	Semiconductor memory design & Applications	\$ 8.50

Sl. No.	Acc No.	Author	Total	Price
10.	EL 151	Levine	Digital Theory & Practice using IC8s	\$ 17.95
11.	EL 134	Hancock	An introduction to the Principles of Communication Theory	\$ 22.50
12.	EL 172	Bryan Norris (Editor)	Electronic Power Control & Digital Techniques	\$ 19.50
13.	EL 212	Rao	Microprocessors & Micro-computer Systems	\$ 24.50
14.	EL 333	Ruston	Programming with PL/1	\$ 14.80
15.	EL 280	Verma	Automatic Control Systems	\$ 19.80
16.	EL 359	Artwick	Microprocessor Interfacing	\$ 21.95
17.	EL 124	Grinich & Jackson	Introduction to Integrated Circuits	\$ 7.95
			Total	\$ 282.85+
			Rs.	19.80

APPENDIX IX TO ITEM NO. 221.28

Amendments to CSRC rules

- 1) One third of the consultancy fee, received whether it be on individual or institutional basis, shall be paid to the C. S. R. C. and the remaining $2/3$ shall go to the consultant/ consultants concerned.
- 2) Over-head charges of 11% may be levied on the total bill for any work undertaken so as to cover adequately the direct and indirect expenses incurred which will form part of C. S. R. C. funds.
- 3) Additional charges may be levied for expenses towards consumable items such as power, laboratory items, equipments etc. and for using departmental facilities.
- 4) In the case of retainer consultancy also the above rules shall be applicable.
- 5) For testing consultancy such as material testing, sample analysis, calibration, fabrication etc. the formula for charging should be 20% to the consultant and 80% to the C. S. R. C.
- 6) In the case of external consultants also the above rules shall be applicable.