

COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

Minutes of the 298th meeting of the Syndicate held on 7-9-1991

Place of the meeting : Administrative Buildings,
Kochi - 22.

Time : 11.00 a.m.

Members Present

1. Dr. A. N. Maheshwari,
Vice - Chancellor. (in the Chair)
2. Dr. S. Balaraman,
Pro - Vice - Chancellor.
3. Dr. K. G. Balakrishnan
4. Shri. Johnson P. John
5. Dr. N. Parameswaran Nair
6. Shri. K. R. Prasad
7. Prof. D. Rama Kotaiah
8. Dr. C.S. Sridhar
9. Dr. R. Ravikumar
10. Shri. P. Subramonia Iyer
11. Dr. S. Unnikrishna Pillai.

Also present : Smt. D. Indira Devi, Dy. Registrar - in-charge.

Item No. 298.01 : Confirmation of the minutes of the meetings held on 3-8-1991 and 27-8-1991.

Resolved that the minutes of the 296th and 297th meetings of the Syndicate held on 3-8-1991 and 27-8-1991 respectively be confirmed with emendations.

Minutes dated, 3-8-1991

a) On page 9 item No. 296.23 in the last but one sentence "of the Centre" may be deleted and "or of the Centre" may be added.

Minutes dated, 27-8-1991

a) On page 1 delete "as the first item of the meeting" from the first sentence.

b) On page 1 item No. 297.01 delete the first word "Statistics" and may be corrected as "Statutes". Also add "of Kerala" after the word 'Government' in the first line.

c) On p.2 item No. 297.03 in the last sentence of the last para of the resolution also add "as a separate item" after the word 'Syndicate'.

(Conf.)

Item No. 298.02 : Report of the Vice - chancellor on important developments in the University since the last meeting.

Shri. V. J. Papoo, Registrar has been granted commuted leave for 60 days w.e.f. 2.9.1991 for taking up assignment as Hon. Managing Director of M/s. Rashtra Deepika Ltd. and Hon. Chief Editor of Deepika Daily. Smt. D. Indira Devi, Dy. Registrar (Academic), was given full additional charge of the office of the Registrar and she assumed office on 2.9.1991 F. N.

Item No. 298.03 : Filling up of non - teaching posts in the University during the current financial year - Consideration of.

Resolved that all plan posts (Programme Assistant/Computer programmer, Senior Technical Assistant - Mathematics Department; Senior Technical Assistant, (Technical Assistant Grade II), Technical Assistant (Technical Assistant Gr. I)

l), Typist/Storekeeper - Electronics Department), Special Recruitment posts (Gardener, Technical Assistant Grade I, Typist / Storekeeper - Electronics Department), Special Recruitment posts (Gardener, Technical Assistant Grade I, Systems Analyst, Chemical Assistant, Welding Technologist Storekeeper Gr. I, Section Officer (Typist), Section Officer (General) and other non-teaching posts which are highly essential as assessed, by the Vice-Chancellor and approved by the Syndicate alone need be filled:

Further resolved that the selection process for the posts of Library Assistant Grade I (5 posts in the University Library) Computer Programmer (2 posts in the Computer Science Department) and Storekeeper Grade III (2 posts - 1 in Applied Chemistry and 1 in Polymer Science & Rubber Technology) be completed.

(Ad.D)

Item No. 298.03A : Recognition as Research guide - Applications - Consideration of.

Resolved that Dr. M. Santhosh and Dr. G. R. Ravindrakumar Scientists, CESS, Thiruvananthapuram be recognised as supervising guides under the Faculty of Marine Sciences.

Also resolved to insist upon the recognised institutions to shoulder in full the financial responsibility for meeting the expenses incurred by the University connected with the research programmes of students admitted to Ph. D. programmes and registered at their Centres.

(Ad. B)

Item No. 298.04 : Ph. D. Registration under various Faculties - Consideration of.

The Syndicate considered the question of Ph. D. registration under various Faculties and resolved that the following candidates be granted registration in the following departments from the date shown against their names.

Name & address of the candidate and the name of supervising guide. Whether part-time or full-time.	Topic of research	Date on which registration is granted.
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FACULTY OF TECHNOLOGY

Centre of Research : Dept. of Polymer Science & Rubber Technology.

1. Syllac Mathew
34792, Sreevihar
Beena - Anjuman Road
Edappally.
(Dr. A. P. Kuriakose) — Part-time
Studies on a new
Vulcanization system. 26-4-1991
2. Job Kuriakose Aerankavil
Kodickal, Fort Cochin.
(Dr. Rani Joseph) —
Part-time
Studies on Elastomer
Blends. 17-5-1991
3. Kochu Baby Manjooran S.
Manjooran House, Kaloor
(Dr. A. P. Kuriakose)
Part-time
Studies on the preparation
of useful raw materials from
refinery sludge. 25-4-1991
4. Lallamma Jose
Pulickal, Palarivattom.
(Dr. Rani Joseph) — Part-time
Studies on latex
compounding. 7-5-1991
5. Mary Joseph, Jr. Lecturer
Bharath Matha College,
Trikkakara.
(Dr. K. E. George) — Part-time
Studies on Polymer
degradation. 24-6-1991

FACULTY OF SCIENCE

Centre of research : Department of Physics.

6. Rajagopalan S.
Sree Krishna College,
Guruvayoor.
(Prof. M. Sabir) — Part-time
Studies in non-linear
dynamics. 18.3.1991

- | 1 | 2 | 3 |
|--|---|-----------|
| 7. Geethakumari N., Professor
U.C. College, Alwaye.
(Dr. V.C. Kuriakose) — part-time | Path Integral For-
mulation and coherent
states. | 18.3.1991 |
| 8. Vidhyadharan Pillai P.K.
Lecturer
Maharaja's College
Ernakulam.
(Dr. K.P. Vijayakumar) —
Part-time | Preparation, chara-
cterisation and study
of the electrical
properties of chemically
prepared semiconductor
junction for photovoltaic
applications. | |
| 9. Zeepath N. A.
Kalapurakkal House
Alupuram, Ernakulam.
(Dr. K.P. Vijayakumar) —
Full-time | Thin film Electrolumi-
nescent Device
fabrication and
characterisation | |
| 10. Krishnan Nair P. R.
Lecturer
Maharaja's College
Ernakulam.
(Dr. V.N. Nandakumaran) —
part-time | Studies of non-linear
systems. | |
| 11. Raju K. John, Lecturer
U.C. College, Alwaye.
(Dr. V.C. Kuriakose) —
part-time | Super conductivity. | |
| 12. Swapna C.
Maai's Keep
Puthurkara Lane
Trissur.
(Dr. V.M. Nandakumaran)
Full-time | Studies on Non-linear
Dynamical system. | |

1	2	3
13. Edwin Xavier, Lecturer St. Paul's College Kalamassery. (Dr. C. P. Girijavallabhan) - Part - time	Electrical and Optical properties of materials. 18.3.1991	
14. Nelson Rodrigues Lecturer St. Albert's College Ernakulam. (Dr. Jacob Philip) — Part - time	Ultrasonic Studies in solids.	
15. K.P. Satheesh Professor Govt. Polytechnic, Muttom (Dr. K. Babu Joseph) — Part - time	Studies in High Energy Physics.	
16. A.A. Sudhakaran Technical Assistant Physics Department (Dr. Jacob Philip) — Part-time	Developments of Fibre Optic sensors 20.4.1991	
17. Shaji Varghese Lecturer Dept. of Physics St. Thomas College Kolencherry. (Dr K.P.Vijayakumar) - Part-time	A study of non- radiature processes in chemically pre- pared low band gap semiconductors used for solar cell fabrication. 10.4.1991	
18. Benoy M.D. Malayil-House Elavanadu Kothamangalam. (Dr. Pradeep B.) — Full-time	Thin film Physics 30.4.1991	

FACULTY OF MARINE SCIENCES

Centre of Research : Dept. of Industrial Fisheries.

19. Mathew K. M.
Jr. Asst. Professor
Fisheries College
Panangad.
(Dr. Ramakrishnan
Korakandy) —
Full-time
An evaluation of the 17.5.1991
management functions
as carried out in
Kerala State Co-
operative Federation
for Fisheries Develop-
ment Ltd.
20. Ajith Thomas John
Kochiyil Rajavilas
Tiruvalla.
(Dr. M. Shahul Hameed) -
Full-time
Studies on the energy 16.5.1991
optimisation of mecha-
nised fishing boats
operating along the
Kerala Coast.
21. Thomas P. R.
Panakal
P.O. Kuruvilassery
Mala.
(Dr. Kuruvilla Mathew)
- Full - time
Studies on the syste- 7.5.1991
matics and population
dynamics of flat fishes.
(Pisces : Pluronectiforms)
22. Thanuja Rajeswary
'Vignesh Vihar'
Karippayil Road
Kalamassery.
(Dr. M. Shahul Hameed)
- Full - time
Studies on some aspects
of biology and utilisation
of the mantis-shrimp, 3.5.1991
Oratosquilla nepa (Latreille)
(Crustacea stomatopod)
23. Lizy Behanan
Associate Professor
College of Fisheries
Panangad.
(Dr. Saleena Mathew) -
part - time
Studies on the effect 17.5.1991
of Dietary protein
level on the status
of digestive enzymes
in selected species
of prawns.

Item No. 298.05 : Registration for Ph D. without Supervising teachers.

Resolved that Shri. K. J. James, Reader, Department of Ship Technology be granted Ph D. registration (Part-time) without the supervising teacher under the Faculty of Engineering on the topic "Fuel Efficiency on Sea Going Ships" w.e.f. 27-5-1991.

Also resolved that the question of granting registration for Ph.D. work under the Faculty of Engineering on the topic "Group Technology" by Shri. Joseph Alexander without a supervising teacher be examined and decided by the Vice-Chancellor.

Further resolved that there shall be a Doctoral Committee to monitor the progress of their research work.

(Ac/B)

Item No. 298.06 : Ph.D. Registration - Application of Shri. Sajeev V. P. - Consideration of

Resolved that Shri. Sajeev V. P. be granted full - time registration for Ph.D. in the School of Management Studies under the Faculty of Social Sciences of the topic "Securities Market" under the guidance of Dr. K. George Varghese, Reader, School of Management Studies w.e.f. 20-5-1991.

(Ac.B.)

Item No. 298.07 : Creation of one more Administration Branch in the University Office reg.

The Syndicate considered in detail the creation of one more Administration Branch in the University Office and resolved that in view of economy measures the proposal for creation of one more Administration Branch be not approved.

Also resolved that Landour Defence Wing, Cantonment, Mussoorie be requested to conduct the work study in the Cochin University of Science & Technology.

(Ad.A)

Item No. 298.08 : Appointment of a single clearing agent for the import of equipment in the University.

Resolved that fresh quotations in standard format be called from the authorised clearing agents.

Also resolved that till the quotations are received and final decision taken by the Syndicate, M/s. South India Corporation (Agencies) Ltd., Cochin be assigned the Clearing work.

(PLA 2)

Item No. 298.09 : Purchase of Laboratory Equipment in the Department of Ship Technology.

Resolved that the Director of Technical Education and Dr. S. Unnikrishna Pillai be authorised to examine in detail the question of purchase of laboratory equipment in the Department of Ship Technology and to submit the report.

(PLA 2)

Item No. 298.10 : Purchase of low Cost X - Y Recorder in the Department of Physics.

Resolved to approve the purchase of low cost X - Y Recorder in the Department of Physics from M/s. Graphtec Corporation, Japan, who have quoted the lowest rate, through their Indian agents, M/s. Keith Electronics, New Delhi at a total cost of 2,43,300.

(PLA.2)

Item No. 298.11 : Replies to Audit Report 1987 - 88

Resolved that a special team consisting of two Officers deputed from the University service be authorised to settle

the outstanding audit observations at the earliest. Further settlement of all, outstanding advances shall be pursued. These assignment shall be completed within two months.

(IA & I)

Item No- 298.12 : Proposal for amendment to Statutes regarding the service conditions of the Pro - Vice - Chancellor.

Resolved that the following amendments be effected under Statute 3 (1) salary and other conditions of service of the Pro - Vice - Chancellor :

The Pro - Vice - Chancellor shall draw and maximum pay, the dearness allowance and the permissible allowances (excluding HRA) in the scale of pay of a Professor of the University.

(2) He will be provided with free furnished quarters by the University or shall be paid HRA at University rates in case no quarters are available.

(3) He shall be governed by the leave Rules of the University and the leave shall be granted by the Vice - Chancellor.

(4) He shall be governed by the medical attendance Rules of the University.

(5) In respect of matters not covered by those Rules Rules in K. S. R. shall mutatis - mutandis apply to him.

This Statute shall come into force as per the provision in Cochin University of Science and Technology Act, 1986.

The Pro - Vice - Chancellor. abstained from the meeting when the item was taken up for consideration.

(Ad-D)

Item No. 298 13 : Work load of teachers.

Resolved to approve the following work load of teachers.

The work load of various activities should be not less than 40 hours a week for a teacher who is in full-time employment. (Any good teacher, particularly one who is involved in creative activity and who has a spirit of challenge towards giving his best to the students, would certainly spend much more than 40 hours a week in academic pursuits.)

The break up of work load shown below is for the sake of example. It is not a rigid break up. But, every teacher could be given duties according to some such general pattern and no one should have a significantly reduced load:

Lecturers in P. G. Colleges/Universities :

(a) Lecturers in non-laboratory/Filed work Subjects.

Activity	Average number of hours per week
i) Teaching	10
ii) Testing/Exams	1
iii) Tutorials	4
iv) Preparation for teaching	10
v) Research	10
vi) Own Reading/Studies	5
Total	40

b) Lecturers in Science subjects or where Field work is involved.

Activity	Average number of hours per week
i) Teaching	10
ii) Testing	1
iii) Laboratory work	4
iv) Teaching preparation and Lab setting	10
v) Research	10
vi) Own Reading/Administrative work	5
Total	40

Teaching Combining/undergraduate and post-graduate teaching will have a position in between (1) and (2) above

(c) Senior teachers like Readers and Professors, in addition to their own research work guide and supervise a fairly large number of students for M Phil. Ph D Degree They have also to attend consultative meetings of various organisations, sometimes to research Therefore it is felt that their direct teaching responsibilities may be slightly curtailed allowing them a greater portion of time for guiding and supervision research work. However, to the 10 hours of research per week on the average, it should be possible to add not more than 4 hours, bringing the total of research 10 to 14 hours per week. This again implies that the number of students to be supervised should be limited to perhaps 4 to 6, and that senior teachers should be able to assign specific time to each scholar whose work they are supervising.

It is also felt that with 14 hours for research and 5 or 6 hours for reading and study and perhaps another 5 hours for extra-curricular or administrative work, senior teachers should be able to put in about 8 hours of teaching and laboratory work including testing and about 8 hours for preparation of teaching work. Teachers not having such extensive research responsibilities should put in more teaching work. Ordinarily a teacher may not have more than two post graduate theory courses to teach with some laboratory or tutorial responsibility.

It is further observed :

- i) That young people are given enough time to help in their professional growth and achievement of academic excellence particularly in the initial years of their service
- ii) that teachers guiding research students have adequate time to look after them, and
- iii) that 'pleasant' as well as unpleasant work is shared by all teachers. In case a certain teacher likes to

have an extra load at a particular time in the year and comparatively less teaching work at some other time during the total academic year this should be accommodated, if it does not cause any serious difficulty in the teaching programme of the department. Where teaching is organised in semesters such adjustment could be made in the corresponding period, provided the teacher has given adequate notice to the University.

The underlying principle being that the maximum workload should be the same in all departments and for all teachers. In post-graduate centres where considerable research activity is envisaged it is obvious that the direct teaching of the staff will be reduced and the staff accordingly devote the remaining time for active research.

Teachers should spend the required amount of time every day in the department whether or not they have direct teaching duties on certain days. If facilities are provided, preparation for teaching can mostly be done in the department itself. This is so as to ensure that a teacher is available for his students if they need his help, and that a teacher is also available when he is needed for consultation or discussions on various matters that come up in institutions.

The teaching of all courses, in subject disciplines and interdisciplinary courses for both undergraduate and post-graduate which form part of the curriculum leading to award of degree/diplomas of the University shall be offered by the teachers of the relevant Department/School/Centre. This is essential for offering quality education by the University. Effort shall be made for making the fullest use of the infrastructural facilities and the faculty expertise available with the University for conducting all its programme. Therefore, for working out the number of teaching posts required in a Department/School/Centre its total teaching commitments shall be considered along with the guidelines given above on the work load of teacher.

However, special requirements of teachers for teaching courses in new areas of study/research shall be assessed on merit and will not be restricted by the work load criteria.

Item No. 298.14 :

teachers for accepting scholarships/fellowships/undertaking higher studies etc.

Resolved to defer this item for getting comments from the organisation of University teachers.

(Ad.D.)

Item No. 298.15 : Smt. N. Lalithambal, Senior Gr. Assistant
Request for extension of Leave without Allowances - Consideration of.

Resolved to grant extension of leave without allowances, on medical grounds to Smt. N. Lalithambal, Senior Grade Assistant for a period from 1.7.1991 to 29.8.1991.

(Ad.A)

Item No. 298.16 : Collapse of the open Air Auditorium in the University campus - Disciplinary action against the concerned Engineers - Reg.

Resolved that Shri. T.A. Achutha Warriar, Shri. N.T. John and Smt. P. Sathy be given the minor penalty of withholding one increment without cumulative effect.

Item No. 298.17 : Installing a Diesel Generator at the Administrative Office - Estimate approved ratification request forwarding of - Reg.

Resolved to ratify the action taken by the Vice-Chancellor in approving the estimate amounting to Rs.63,000/- (Rupees sixty three thousand only) for installing a Diesel Generator at the Administrative Office.

(PLA)

Item No 298.18 : Electricity charges payable to the Electricity Board - Additional cash deposit - Sanctioned by the Vice-Chancellor — Reporting of.

Resolved to ratify the action taken by the Vice-Chancellor in sanctioning remittance of an additional cash deposit amounting to Rs. 78,561/- to the Kerala State Electricity Board.

(PLA)

Item No. 298.19 : DST Project on "Bacterial Invasion and the onset of incipient spoilage in *Penaeus indicus*" - purchase of equipment - Advance sanctioned - Reporting of.

Resolved to ratify the action taken by the Vice-Chancellor in according sanction to the Head, Department of Marine Biology, Micro - Biology Division an amount Rs. 76,250/- as advance to open the letter of credit for the purchase of Photomicrographic and phase contrast Unit vide U. O. No. PL. B2/8168/89 dated 14.8.1991.

(PLB)

Item No. 298.20 : Revision of Dearness Allowance with effect from 1.1.1991 - Adoption of Government order for implementation in the University Ratification of the action - Regarding.

Resolved to ratify the action taken by the Vice-Chancellor in according sanction to adopt the Government Order No. GO (P) 432/91/Fin. dated 24.7.1991.

(Ad.A)

Item No. 298.21 : Shri S. Babu Sundar, Lecturer, Department of Mathematics & Statistics - Conversion of Leave without Allowances to leave with salary - Request for.

Resolved that the matter be deferred as the leave rules have not been finalised.

(Ad.D)

Item No. 298.22 : MBA Degree (F. T.) Second Semester Examination, November 1990 - Shortage of attendance - Case of Smt. Anniamma Baby Condonation - Request for - Reg.

Resolved that Smt. Anniamma Baby (Reg. No. 1542) Second Semester student of MBA F.T. be granted condonation of shortage of 10 days attendance.

Also resolved the Vice - Chancellor be authorised to examine the system and practice of maintaining the attendance register in the School of Management Studies.

(EB)

Item No. 298.23 : The Plan Scheme for creation of Infrastructure in Areas of Emerging Technology - Laser Technology Sanctioned by Ministry of Human Resources Development - Implementation of the Plan Scheme - Reporting - Reg.

Resolved to ratify the action taken by the Vice - Chancellor who has given sanction for the implementation of the Plan Scheme - Centre for Laser Application - Development of Laser Application Laboratory in the Department of Physics, Vide U.O. No. PLB 1/4456/91 dated 13.8.1991.

(PLB)

Item No. 298.24 : Department of Applied Chemistry - Research Project "2 - Adrenergic Receptor in the brain as a link for the sympathetic stimulation in diabetes and human kidney" - Purchase of Equipments - Reg

Resolved to authorise the Director of Technical Education to examine and report.

(PLB)

Item No. 298.25 : An endowment in the name of the late Dr S. Lakshmanan, Reader, Marine Geology Division - Acceptance and draft rules - Consideration of.

Resolved to accept an amount of Rs. 10,000/-

Also resolved to institute an endowment in the name of the Late Dr. S. Lakshmanan.

Further resolved to approve the following Rules for awarding the prize:

i) The award is to be given to the student who holds first rank in the second year M.Sc. Degree Examination in Marine Geology Division every year.

ii) The award may be given in cash.

iii) The amount of cash may be fixed as the interest obtained from Rs. 10,000/- each year.

(Ac.B.)

Item No. 298.26 : Granting leave without remuneration in relaxation of Rules for award of University Junior Research Fellowship - Reg.

Resolved that Smt. G. Devika Rani, full-time research scholar in the Department of Applied Chemistry be granted leave without remuneration for 24 days w.e.f. 3.8.1990 to 21.8.1990 and 1.12.1990 to 6.12.1990 on medical grounds as a special case.

(Ac.B)

Item No. 298.27 : Ph. D. thesis entitled "Studies on Vulcanisation, Rheology and Reinforcement of natural rubber latex with special reference to accelerator combinations, surface active agents and Gamma Irradiation" submitted by Shri. N.R. Peethambaran

— Evaluation Reports and Minutes of
Viva Voce Examination - Consideration of.

The Syndicate considered along with the recommendation of the Standing Committee on Academic Matters, the individual report 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 submitted by Shri. N.R. Peethambaran, Part-time research student who worked under the guidance of Prof. A. P. Kuriakose, Department of Polymer Science and Rubber Technology, Cochin University of Science and Technology, Kochi - 22.

Resolved that Shri. N. R. Peethambaran be declared eligible for the award of the degree of Doctor of Philosophy under the Faculty of Technology for his thesis "STUDIES ON VULCANISATION, RHEOLOGY AND RE-INFORCEMENT OF NATURAL RUBBER LATEX WITH SPECIAL REFERENCE TO ACCELERATOR COMBINATIONS. SURFACE ACTIVE AGENTS AND GAMMA IRRADIATION".

(EA)

Item No. 298.28 : Amendments to Regulations passed by the Academic Council - Giving approval and date of effect - reg.

"Resolved that the amendments to the Regulations passed by the Academic Council at its meeting held on 19-4-1991 as under be approved".

- a) the following proviso be added wherever an explanation is given in the Regulations for 'good academic record' prescribed as the minimum qualification for teaching posts.

"However SC/ST candidates shall be deemed to have good academic record if they possess the minimum marks required at the Bachelors level

which makes them eligible for admission to post-graduate courses".

- b) the following proviso be added in the Regulations for various courses under 'admission to course'

"Relaxation in minimum marks of the qualifying examination given to Scheduled Caste and Scheduled Tribe candidates for admission to courses shall be up to the pass marks of the qualifying examination".

- c) the words 'twice in an year' occurring in Clause 4 (i) in the Regulations regarding admission to and award of the Degree of Doctor of Philosophy (Ph D.) and the Degree of Doctor of Science (D Sc.) / Doctor of Literature (D Litt.) / Doctor of Laws (LL D.) of the Cochin University of Science and Technology published in the Kerala Gazette No. 47 dated, 27-11-1990 be substituted by the words 'once in a year' and the clause thus amended would read as follows:

"4 procedure for applying for admission

- (i) Candidates seeking registration to the doctoral programme as a full-time or part-time student may do so by submitting their applications in the prescribed form, in response to the notification in this respect issued once in a year by the University".
- d) Clause 18 (vi) and Clause 24(i) in the Regulations published in the Kerala Gazette No. 47 dated. 27-11-1990 be modified as under and the amended provision be applicable to all the candidates admitted to the Ph.D. programme both under the old and new Regulations.

"18 (vi) The qualifying Examination Board shall consist of two examiners, nominated by the Doctoral Committee from among recognised Supervising Guides in the University

or Recognised Institutions, provided, however, that in cases where there is difficulty to choose examiners from recognised supervisors of the University or recognised institutions, the Doctoral Committee shall be competent to nominate examiners from among experts in the particular area who are not recognised supervising guides of the University".

- 24 (i) The thesis shall be adjudicated by two external examiners nominated by the Vice-Chancellor from a panel of at least six experts, proposed by the Supervising guide and approved by the Doctoral Committee. However, if the panel is found insufficient for any reason, the Vice-Chancellor shall request the Doctoral Committee to submit a fresh panel with the experts available in the Directory of Professors/Readers published by the University Grants Commission in the concerned subject or from the Directory of Scientists published by the Indian National Science Academy / National Academy of Sciences/Indian Council of Social Sciences".

Resolved further that the date of effect in respect of the amendments listed as [a], [b] and [c] above be from 19-4-1991, the date of decision by the Academic Council and the amendments listed as [d] above be effective from 7-9-1991, the date of approval by the Syndicate.

Item No. 298.29 : Smt. A. P. Preethy, Lecturer, Department of Electronics - Leave without allowances sanctioned in relaxation to Rules - Reg.

Resolved that the period of absence of Smt A. P. Preethy, Lecturer, Department of Electronics be treated as extraordinary leave on loss of pay as a special case. However since her probation has been declared, she will get the seniority from the date of appointment.

(Ad D)

Item No. 298.30 : Changing the qualification for the post of Senior Technical Assistant/Technical Assistant Grade I in the Department of Electronics.

Resolved that the following shall be the qualifications for the post of Senior Technical Assistant/Technical Assistant Grade I : [1] B. Tech Electronics and Communications /Electrical and Electronics/Applied Electronics and Instrumentation/or equivalent qualification Desirable - General Workshop drawing experience to handle general purpose workshop machines.

OR

Three-year Diploma in Electronics/Electrical Instrumentation with three years experience in maintenance of laboratory equipment and sophisticated instruments Desirable General workshop drawing experience to handle general purpose workshop machines.

Item No. 298.31 : Leave vacancy of Shri K. Madhusoodanan Nair, Joint Registrar [Exams.] - Consequential arrangement, provisional promotions and postings - Reporting of.

Resolved to approve the temporary arrangements made by the Vice-Chancellor consequent on Shri K Madhusoodanan Nair, Joint Registrar [Exams] proceeding on commuted leave for 60 days from 13.8.1991 [permitting to suffix 12th and 13th October 1991] on personal grounds.

(Ad.A)

Item No. 298.32 : Shri T. M. Mathew, Deputy Registrar [Admn.] in-Charge of Finance Officer-
Request for charge allowance - Reg.

Resolved that Shri T. M. Mathew, Deputy Registrar [Admn.] who was given full additional charge of the Office of the Finance Officer be given 20% of the minimum of the scale of the pay of the Finance Officer w. e. f. 1.8.1991 till he relinquishes the full additional charges of the post of Finance Officer in relaxation of Rule 53 [c] of Part I KSR.

(Ad.A)

Item No. 298.33 : Statutes prescribed by the Government regarding the service conditions of the teachers of the University - Superannuation during the middle of the academic year - Continuance upto the end of the academic year - Reg.

Noted.

(Ad D)

Item No. 298.34 : Starting of a Centre for Bio-technology
Conduct of M. Sc. course in Bio-technology and Marine Bio-technology
- Regarding.

Resolved that the M. Sc. course in Bio-technology be offered under the Centre of Bio-technology.

Also resolved that the Centre shall function in the Applied Chemistry Department itself till a separate building is, constructed in the campus.

Further resolved that the recommendation of the minutes of the meeting held by the Vice-Chancellor for the setting up of the Centre be discussed in detail at the next meeting of the Syndicate.

Item No. 298.35 : Centre for Bio-technology - Opening head of account in the Budget estimates for 1991-92-Reg.

Resolved to open a new head of account for the Centre for Bio-technology in the current year's budget.

Also resolved to discuss in detail at the next meeting of the Syndicate the proposal on the budgetary requirements of the Centre for 1991-92.

Item No. 298.36 : Department of Mathematics & Statistics
Master of Computer Application Course-
Fee structure of the course - Report to Syndicate.

Resolved that MCA (Master of Computer Application) Course be started with an intake of 30 students.

Further resolved that the following shall be the structure of the course.

(Ac A)

M. Tech. Degree Course in Computer & Information Science

Tuition fee	: 400/-)
Library fee	: 10/-) per semester
Stationery fee	: 25/)
Laboratory fee	: 50/)
Quasi University fee	: 8/-)
Medical Inspection fee	: 5/-) for alternate
Affiliation fee	: 10/-) semester
University Union Fund	: 10/-)
Students Aid-Fund	: 10/-)
Caution Deposit	: 100/-)
Matriculation fee	: 30/-)
Recognition fee	: 30/-)

Item No. 298.37 : Change of Topic of Research Requested of Shri Thomas Joseph, Research Scholar, Department of Mathematics and Statistics Reconsideration of.

Resolved to grant the change of topic for research requested by Shri Thomas Joseph, Department of Mathematics and Statistics under the guidance of Dr. M. Jathavedan, Reader, Department of Mathematics and Statistics from "Differential Equations and its applications in Biological and Chemical Systems" to "Conservation Laws of Fluid Mechanics".

(Ac.B)

Item No. 298 43 : Ph.D. thesis entitled, "Studies on the Texture, Mineralogy and Geochemistry of the Modern Sediments of the Vellar Estuary" submitted by Shri P. M. Mohan - Evaluation reports and minutes of viva-voce examination - Consideration of.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the individual report 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 submitted by Shri P. M. Mohan, full-time research student who worked under the guidance of Dr. K. T. Damodaran, Professor, Marine Geology Division, School of Marine Sciences, Kochi 16.

Resolved that Shri. P. M. Mohan be declared eligible for the award of the degree of Doctor of Philosophy under the Faculty of Marine Sciences for his thesis "STUDIES ON THE TEXTURE, MINERALOGY AND GEOCHEMISTRY OF THE MODERN SEDIMENTS OF THE VELLAR ESTUARY."

(E.A)

Item No. 298.44 : Ph. D. thesis entitled, "The Right to Freedom of Information in India" submitted by Shri Pramodan, M. C. - Evaluation Reports and Minutes of viva voce examination - Consideration of.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the individual report 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 submitted by Shri M.C. Pramodan, full-time research student who worked under the guidance of Dr. V. D. Sebastian, formerly Professor, Department of Law, Cochin University of Science and Technology, Kochi - 22.

Resolved that Shri. M. C. Pramodan, be declared eligible for the award of the degree of Doctor of Philosophy under the Faculty of Law for his thesis "THE RIGHT TO FREEDOM OF INFORMATION IN INDIA"

(E A)

Item No. 298.47 : Dr. K. K. George, Professor, School of Management Studies granted permission to accept the Visitorship/Fellowship under the Indo-US Fellowship programme - Reporting of - Regarding

Resolved to ratify the action taken by the Vice-Chancellor in having granted Dr. K. K. George, Professor, School of Management Studies permission to accept the fellowship awarded to him and travel to Maryland USA for the purpose and treated the period of his absence in the School from 1.8.1991 to 31.10.1991 and the actual period required for journeys from his residence to Maryland, USA and back, as on duty and also sanction of Rs. 35,000/- as advance towards his travel expenses.

(Ad D)

Item No. 298.48 : Ph D. - Registrarion.

Resolved that the Ph D. Registration be granted to the following candidates for Ph D. work from the date shown against each.

Name and address of the candidate and the name of supervising guide, Whether PT or FT.	Topic of research	Date on which registration is granted.
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FACULTY OF ENGINEERING

Centre of Research : School of Technology

1. AbdulSalam V. H. (PT) Construction Manage- 20.4.1991
Executive Engineer
GCDA, Kochi - 20
(Dr. Babu T. Jose) ment: A study of some aspects of construction management with a view to improve efficiency and economy in performance.
2. Anniamma Chacko (PT) Improvement of strength
Lecturer in Civil and compressibility characteristics of cohesive soils.
Engg.
Kothamangalam
(Dr. Babu T. Jose)
3. Indira T. R. (PT) Study of surface and sub-
Executive Engineer surface water resources
P.H. Circle and of water treatment
Kerala Water Authority, Thrissur. systems as relevant to
(Dr. Babu T. Jose) Kerala Water Authority.
4. Lovely K. M. (PT) Construction Engineering
Lecturer Development of construction procedures for improving the engineering properties of soils through procedures like grouting stabilisation, Ground Improvement Techniques etc.

FACULTY OF MARINE SCIENCES

5. Rachika U P. (FT) A comparative study of 24.1991
Sreevalsam the Chemistry, minerology
Kinathil, Udinoor PO and origin of the heavy
Kasaragod 671 349. minerals from selected
(Prof. K.T. Damodaran) areas along the South
Western Indian Coast.
6. Meenakshikutty N.R. (FT) Clay Minerology and 3.5.1991
Pathath House Geo-chemistry of the
Perinthalmanna P. O. Achencoil River sediments
Malappuram.
(Prof. K.T. Damodaran)

FACULTY OF SCIENCE

Centre of Research : Department of Applied Chemistry

7. Jayan Thomas (FT) Physical/Analytical 18.4.1991
Poovathumunnill Chemistry: Electro-
House Optical properties of
Kanjirappara heteromacro - cyclin
Kottayam 686 555. ligand complexes.
(Prof. V. N. Sivasankara
Pillai)
8. Usha K. (FT) Analytical Chemistry 18.4.1991
'Usha Nivas' Electro Chemistry of
Kunduvampadam Europium [111] and
Palghat 678 633. the Separation of Euro-
(Prof. V. N. Sivasankara pium [111] from Gado-
Pillai) linium concentrate.
9. Sudha George Valavi (FT) Synthesis, Charac- 22.4.1991
'Valavi House' terisation and Pharma-
Near Block Office cological Activity Studies
Chalaky P. O. of some complexes of
(Dr. K.K. Mohammed Biological Important
Yusuff] ligands.

10. Jalaja F. Malayan [FT] Surface Electron 18.4.1991
Ullattil House properties of Rare
Mulanthuruthy P.O. Earth Oxides.
Ernakulam 682 314.
[Dr. S. Sugunan]
11. K B. Sherly [FT] Electron Donating 12.4.1991
Cherumanal Padickal Properties and Cata-
House lytic activity of
Thalayolaparambu P.O. Rare Earth Oxides
[Dr. S. Sugunan]
12. Rosabella K. Puthur [PT] Non-linear dynamics 17.4.1991
Lecturer of molecules.
St. Joseph's College
Irinjalakkuda.
[Dr. K.L. Sebastian]
13. Josewin B. [FT] Microbia Transfor- 2.5 1991
Biju Vihar mations of organic
Powdikonam compounds.
Thiruvananthapuram.
[Prof. P. Madhavan Pillai]

FACULTY OF HUMANITIES

Centre of Research : Department of Hindi

14. Prameela K. P. [FT] Anuvad Ki Vyavaharik 21.3 1991
Aduthila Samasyayem-Hindi Aur
Payangadi P.O. Malayalam ke Visesh
Kannur 670 303 Sandarbh Mem.
(Dr. N. G. Devaki)
15. Darly Mathew [FT] Hindi Aur Angresi Ki 21.3.1991
Vayalunkal Malayil Vyakaranik Sanrachana
Mundathanam P.O. Anuvad Ke Sandarbh Mem.
Kangazha, Kottayam.
[Dr. N. G. Devaki]

16. Vijayakumar B. [FT] Krishnabaldev Vaid Ka Katha
T. C. 43/350 29.4.1991
Sreevaraham Sahithya - Ek Adhyayam
Thiruvananthapuram
[Dr. A. Aravindakshan]
17. Rosamma John [FT] Prachakar Machua Ka Katha
Chulackal Sahithya-Ek Adhyayam
Areeckal, Mini Nagar. 29.4.1991
Angamally 683 572.
[Dr. M. Shanmughan]
18. Bridget Joseph K [FT] Usha Priyamvada Ka Katha
Kurisingal House Sahithya. 29.4.1991
Bolghatty
Mulavukad 682 504
[Dr. M. Eswary]
19. Prabhavathiamma N [FI] Ramayanpan. Adharit 29.4.1991
Vadayathu Samoothathil Adhunik Hindi Kavya Ka
South Gate Vaikom Visheshanatkam Adhyayam
[Dr. N. G. Devaki]
20. Ajitha K [FT] Swathanthryothan 29.4.1991
Parayil House Hindi Natakam Mem.
Kadannappally Ithihas aur Purana ka
Mandur, Kannur nay Bhavabodh
[Dr. P. A. Shemim Aliyar]
21. Presannakumari C. J. [PT] Adhunik Hindi Kavya 26.3.1991
Lecturer in Hindi Pravritthiyom ke Sandharbh
Government College mem Nirala Kavya Ka
Thrissur. Adhyayam.
[Dr. P. V. Vijayan]
22. Amithabhan K [PT] Bhakti sastra Ke Adh 26.3.1991
Lecturer par Ramacharithmanas ka
M.A. College Visleshan.
Kothamangalam.
[Dr. L. Suneetha Bai]

23. Mohanakumari Amma L. Adhunik Pouranic 27.3.1991
Bhaskar Swapna [PT] Katha Kavyom ka Visle-
Thannirmukkom shanatmak Adhyayan
Kannankara P.O
Sherthalai
[Dr. A. Aravindakshan]
24. Bhasura V. I. [PT] Samakalin Hindi Kahani
PMC IX/310 Sahithya Ke Kahani 27.3.1991
T. C. John Lane Lekhikavom Ka Yogdan
Perumbavoor
[Dr. M. Eswari]
25. Lilly P. A. [PT] Prayogavadi Kavitha 27.3.1991
Lecturer Mem Vyakshivadi Chetana
Dept. of Hindi
Bharath Matha College
Thrikkakara
[Dr. M. Shanmughan]
26. Remadevi K.R. [PT] Hindi Mahila Upan- 27.3.1991
Lecturer, BAM College yasakarom Ka Upanyasom
Thuruthicad Par 'Naarivad' Ka Prabhav
Mallapally
[Dr. M. Shanmughan]
27. Poulouse K. K. [PT] Prabhakar Machne Ki 27.3.1991
Lecturer Kavitha Ek Adhyayan
S. H. College
Thevara
[D. A. Aravindakshan]
28. Jayadevan K. [PT] Study of Premchand's 27.3.1991
Professor Gr. II Novels in the context
Maharajas College of Youth movement
Ernakulam
[Dr. P. V. Vijayan]

29. Joseph Kollamana K.D. Adhunik Hindi Upan- 27.3.1991
Lecturer [PT] yasom Mem Parivarik
S.B. College Jeevan Ka Badalte Swaroop.
Changanassery 1950-'70
[Dr. A. Aravindakshan]

FACULTY OF MARINE SCIENCES

Centre of Research : Physical Oceanography and
Meteorology Division

30. Anu Simon [FT] Incidence of diseases 2.4.1991
Pynadath House under Cochin weather
Mallusery condition
Vattaparambu 683 579
[Dr. D.K. Rajan]
31. Jayasree V. [FT] Study of the Patterns 2.4.1991
'CHITRA' of rainfall and tempera-
Warriam Lane ture over Central Kerala
Thrissur - 1
[Dr. D.K. Rajan]
32. Bindu G. [FT] Micro-meteorological 2.4.1991
'Chaithanya' Study at Cochin with
Kodakara special reference to
Thrissur rainspells.
[Dr. D. K. Rajan]
33. Haseena Raghavan [FT] Effects of rainfall 3.4.1991
'Pankaj' variability on Agriculture
Chirakkara Production
Tellicherry - 4
[Dr. H.S. Ram Mohan]
34. Neelakantan T. (PT) Climatic Fluctuations 10.4.1991
Lecturer and Landuse Patterns
University College
Thiruvananthapuram
[Dr. H.S. Ram Mohan]

FACULTY OF LAW

35. Sebastian C. A. (PT) Gender discrimination in 11.4.1991
Advocate the Law of Divorce and
14/736 A, Succession among Christian.
Pipeline Road
Cochin University P. O
Kochi - 22
[Dr. K.N. Chandrasekharan
Pillai]
36. Mohanan K.V. [PT] Police and Prosecutor in 17.4.1991
Asst. Professor Criminal Justice System
Law College
Ernakulam
[Dr. K.N. Chandrasekharan
Pillai]
37. Prasanna Joseph [PT] Legal control of Indus- 12.4.1991
Kalappurakkal House trial Pollution
Kacheri Road
Ancheri, Thrissur
[Dr. P. Leelakrishnan]
38. Sankar D. [PT] Right to Maintenance 24.4.1991
Lecturer in Law under Criminal Law and
Dr. Ambedkar Govt. Critical Study.
Law College
Pondicherry
[Dr. G. Sadasivan Nair]
39. Vijayalakshmi K [PT] Women and Criminal 17.4.1991
Lecturer Justice System
Dr. Ambedkar Govt.
Law College
Pondicherry - 261043
[Dr. K.N. Chandrasekharan
Pillai]

40. Ajayakumar, V. (PT) Industrial Worker Occupa- 6.5.1991
Advocate tional Health and Safety.
T C. 27/1794
Bhavani Mandiram
Vanchiyoore P. O.
(Dr. N. S Chandra-
sekharan)
41. Balakrishnan Nair N. S. (PT) Legal Aspects of 23.4.1991
Sub Jail Superintendent Prison Administration and
Sub Jail Ottapalam, Palghat. Treatment of prisoners.
(Dr. K. N. Chandrasekharan Pillai)
42. John, P. C. (PT) Non-Police Agencies of 24.4.1991
Advocate Investigation-Problems
Gitanjali and Perspectives.
Palace ward
Kollam.
(Dr. K. N. Chandra-
sekharan Pillai)
- Item No. 298.38 : Regulations for Ph. D. Viva-Voce
Amendment of
- Item No. 298.39 : Shri V. J. Pappoo, Registrar - Sanctioning
of leave - Further arrangements-Reporting
of
- Item No. 298.40 : Soiling, metalling and Semi-grouting the
road leading to the residence of Vice-Cha-
ncellor, Pro-Vice Chancellor-Estimate-
Approval - Reg.
- Item No. 298.41 : Recommendation of the Works Committee
on the construction of Seminar Complex,
Open Air Auditorium & Marine Sciences
Complex.

- Item-No. 298.42 :** Dr A. Mohandas, Head, School of Environmental Studies permitted to accept the post doctoral fellowship of the Commission of the European Communities Reporting of - Reg.
- Item No. 298.45 :** Shri. Dileep K. Krishnan, Reader, Department of Ship Technology was granted extension of leave without allowances- Reporting of - Reg.
- Item No. 298.46 :** Shri. K. Roby, Lecturer, Department of Ship Technology - Deputation for M. Tech. degree programme under Quality Improvement Programme - Sanctioned - Reporting of -Reg
- Item No. 298.49 :** To consider the recommendations of Planning Committee which met on 6 9 1991.

The above items have not been taken for consideration.

The meeting came to a close at 3.00 p.m.

University Buildings
Kochi-22
16 September 1991.

Dy. REGISTRAR-IN-CHARGE