

UNIVERSITY OF COCHIN

PRELIMINARY MINUTES OF THE 81th MEETING OF THE SYNDICATE HELD ON 20—7—1977.

Place of meeting : University Buildings,
Hill Palace,
Tripunithura.

Time : 10.30 A. M.

Members Present:-

1. Dr. C. R. Kuriakose (in the Chair)
Pro Vice Chancellor
2. Shri. T. R. Subbayyan
3. Dr. A. T. Markose
4. Shri. Jose T. Mookken
5. Shri A. K. Hameed
6. Prof. C. T. Benjamin
7. Shri. V. Narayanan Nayar
8. Shri. V. P. Marikkar
9. Dr. M. V. Pylee
10. Shri K. A. Mohammed

Item No. 81. 01. Confirmation of the minutes of the meeting the Syndicate held on 2-7-1977.

Resolved that the minutes of the 80th meeting of the Syndicate held on 2-7-1977 be confirmed subject to the following modifications:-

(1) The following will be added at the end of Item No. 80. 04.

"Resolved further that the cases pending with Messrs. Menon & Pai be transferred to the new Legal Adviser, Shri. C. K. Sivasankara Panicker, Advocate"

(ii) In Item 80. 31., the words "and the demands of the employees unions" occurring between the words 'Engineer' and 'that' be deleted.

Item No. 81. 02. Agenda for the meeting of the Senate scheduled to be held on 30-7-1977- consideration of.

The Syndicate considered the official resolutions as well as resolutions and questions given notice of by the members of the Senate for the meeting scheduled to be held on 30-7-1977 and the answers to the questions and allocated the resolutions and questions among the Syndicate members for comments/replies.

Item No. 81. 03. Reconsideration of decision to appoint Dr. C. S Sridhar as Reader in the Dept. of Electronics and Communication Systems on deputation basis.

The Syndicate noted its decision in Item No. 80. 33 of the minutes of the meeting held on 2-7-1977 regarding the appointment of Dr. C. S. Sridhar, Assistant Professor, P. S. G. College of Technology as Reader in Department of Electronics & Communication Systems on deputation basis and the report of Dr. C. S. Sridhar that he has since resigned from the said college and that he is willing to render his

services to the Cochin University if he is appointed on a contract basis. The Syndicate considered that it is not proper to appoint him on contract basis but that his services may be utilised as a guest lecturer till regular appointment is made in the Department.

Resolved that Dr. C. S. Sridhar be engaged as a guest lecturer in the Department of Electronics & communication Systems on payment of a remuneration at Rs. 40/- per hour lecturer subject to a maximum amount of Rs. 1600/- per mensem for a period of 6 months or till regular staff is appointed in the Department whichever is earlier.

(Ad.)

Item No. 81. 04. Prospectus and Application form for M. Sc. course in Applied Chemistry.

The Syndicate considered the Prospectus and application form for M. Sc. Course in Applied Chemistry to be started in the University from the current academic year.

Resolved that the Prospectus and Application form for the M. Sc. Course in Applied Chemistry as given in Annexure I be approved.

(Ac.)

Item No. 81. 05. Construction of separate buildings for the Department of Ship Technology.

The Syndicate considered the Report (Annexure II) of the Committee constituted for recommending the location for construction of separate building for the Department of Ship Technology.

Resolved that immediate steps be taken for the construction of the buildings required for the Ship Technology Department at Trikkakara Campus.

(Ad.)

Item No. 81.06. Starting of three year B. Tech. Degree course in polymer Science & Rubber Technology.

The Syndicate noted that the new three year B. Tech. Degree course in Polymer Science & Rubber Technology is to be started from the current academic year and that if the course were to be started in the Engineering College, Trichur additional accommodation and staff will have to be provided. The Syndicate also felt that the course can be started for the time being at the Applied Chemistry Department at the Trikkakara Campus and that the Engineering subjects of the second semester can be taught at the Engineering College, Trichur.

Resolved that the proposal to conduct the new three B. Tech. course in Polymer Science and Rubber Technology at the Department of Applied Chemistry in the Trikkakara Campus be approved.

(Ac.)

The meeting came to a close at 2.30 P.M

University Buildings,
Tripunithura
28-7-1977.

REGISTRAR

Annexure I

Annexure to Item No. 81.04

UNIVERSITY OF COCHIN

DEPARTMENT OF APPLIED CHEMISTRY

PROSPECTUS

1977-1978

The Department of Applied Chemistry, one of the new Science departments in the technologically oriented University of Cochin, came into existence in late 1976 to play an important role in the further development of the industrial belt in the Greater Cochin area by providing scientific support and trained personnel to the existing industries and by acting as a catalyst for the starting of new industries. The department is also set up as a centre for advanced chemical research in this part of the country. The immediate plans for the Department include conducting an M. Sc. Degree Course in Applied Chemistry and carrying out research in Applied Chemistry and in areas of pure chemistry relevant to industry.

A. M. Sc. Degree in Applied Chemistry

The course is specially designed to impart a thorough training to candidates for a successful career in Industrial Chemistry in addition to teaching them the different branches of chemistry at an advanced level. The salient features of this course include the wide choice of industrially important elective subjects and one semester of project work on relevant industrial problems. During the course of the project work the students will also be introduced to the concept of making a project report, drawing projects, project evaluation and feasibility study of small and medium scale industries. Further, the candidates will have opportunities to hear special lectures in the relevant subjects by distinguished invitees

and to visit local industrial establishments. This training will also equip the students with necessary know-how for starting their own chemical industries. Number of seats - 12.

1. Conditions for Admission

Candidates for admission to the Master of Science (Applied Chemistry) Degree course shall be required to have passed the B. Sc. Degree examination of any University accepted by the Cochin University with chemistry main and physics/mathematics as subsidiary subjects with a minimum of 55% of marks in chemistry. Scheduled caste/scheduled tribe candidates are eligible for a concession of 5% of the marks.

Admission will be based on the total marks obtained for chemistry at the B. Sc. Degree examination and an interview. A few seats will be set apart for candidates sponsored by Public/Private sector industries and research establishments.

Application for admission should be made in the prescribed form which can be obtained from the Head of the Department along with the prospectus on sending a 25cm X 10cm envelope, self addressed and stamped (70 Ps) The completed application form with the necessary documents and a postal order of Rs. 10/- drawn in favour of the Head of the Department of Applied Chemistry payable at the Cochin University P. O. Cochin-602022 should reach the Head of the Department not later than ten days from the date of publication of the results of the B. Sc. (Chemistry) Degree Examinations of both Kerala and Calicut Universities.

2. Duration of the course

The course shall extend over a period of two academic years comprising of four semesters each of 16-18 weeks duration.

The minimum attendance required by a candidate will be 75% of the total number of working days.

3. Subjects of study

The course of study shall be in accordance with the scheme and syllabus prescribed. The course shall consist of lectures, seminars and laboratory work during the first three semesters and project investigation during the fourth semester. The course work is specially designed to be relevant to industries needs. The research project will be on live problems in industries. The project work may also be carried out at an establishment outside the University but approved by the University. When the project work is done in an industry, the investigation will generally be supervised jointly by a faculty member and a specialist from that industry.

4. Examination

There shall be a University Examination at the end of each of the first three semesters and the project report valued and viva-voce conducted at the end of the fourth semester. All sessional works shall be valued and marks awarded on the basis of day to day work, periodic tests, seminars and regular assignments.

5. Revision of Regulations and curriculum

The University may from time to time revise, amend or change the regulations, scheme of examinations and syllabus. In the case of students already undergoing the course, the changes will take place from the following academic year after the changes are introduced and cover that part of the course which remains to be completed.

6. Scholarships

A few scholarships of the value of Rs. 1200/- per annum are awarded annually to the students admitted to the department for M. Sc.

7. University fees

Fees at the following rates will be levied per semester.

Tuition fee	Rs. 300/-
Laboratory fee	Rs. 100/-

	Rs.
** Fee for extra curricular activities	8.00
Library fee	10.00
Stationery fee	25.00
** Medical inspection fee	5.00
* Caution Deposit	100.00
** Affiliation fee for inter collegiate tournaments	1.00
* Matriculation Registration fee	10.00
*** Recognition fee	10.00
** Contribution to University Union Fund	3.00
* At the time of admission only	
** For alternate semesters only	
*** For candidates who have passed their qualifying examination from Universities outside Kerala.	

The fees for the first semester will be payable at the time of admission and for subsequent semesters within the first working week.

All expenditure in connection with study visits and practical training are to be borne by the students themselves.

8. Curriculum and Scheme of Examination

Course No.	Subject	Period of work per week	Sessi- onal	Marks Uty. exams	Total
1st Semester					
1 AC 1	Applied Mathematics	3	40	60	100
1 AC 2	Inorganic Chemistry 1	3	40	60	100
1 AC 3	Organic Chemistry-1	3	40	60	100
1 AC 4	Physical Chemistry-1	3	40	60	100
1 AC 5	Practical Organic Chemistry	4	40	60	100
1 AC 6	Practical Inorganic Chemistry	4	40	60	100
	Seminar and Viva Voce		20	30	50
Total		20	260	390	650
2nd Semester					
2 AC 1	Analytical Chemistry	3	40	60	100
2 AC 2	Inorganic Chemistry II	3	40	60	100
2 AC 3	Organic Chemistry II	3	40	60	100
2 AC 4	Physical Chemistry II	3	40	60	100
2 AC 5	Practical Analytical Chemistry	4	40	60	100
2 AC 6	Practical Physical Chemistry	4	40	60	100
	Seminar and Viva Voce		20	30	50
Total		20	260	390	650

3rd Semester

3 AC 1	Instrumental methods of Analysis	3	40	60	100
3 AC 2	Unit Operations and principles of Chemical Technology	3	40	60	100
3 AC 3	Elective Subject I	3	40	60	100
3 AC 4	Elective Subject II	3	40	60	100
3 AC 5	Practical for courses 3 AC1+3 AC2	4	40	60	100
3 AC 6	Practicals for courses 3 AC3+3 AC4	4	40	60	100
	Seminar and viva voce		20	30	50
	Total	20	260	390	650

4th Semester

	Project work		100	150	250
	Viva Voce		40	60	100
	Total		140	210	350
	Grand Total		920	1380	2300

Note: 1) All theory papers - 3 hours duration
2) All practical Examination - hours duration

9. Elective Subjects

Any two of the following subject may be chosen by the student in consultation with the faculty.

1. Synthetic polymers
2. Oils and fats
3. Essential oils
4. Dyes and Day intermediates
5. Drugs—natural and Synthetic
6. Fertilizers

7. Pesticides and Herbicides
8. Glass and Ceramics
9. Fermentation industries—alcohol, antibiotics and amino acids
10. Electrochemical industries
11. Surfactants, soaps and synthetic detergents
12. Paints and Varnishes
13. Sewage and Industrial effluents
14. Organometallics
15. Cement and Lime Industries
16. Fuel and Industrial Gases
17. Coal and Coal Chemicals
18. Petroleum and Petrochemicals
19. Water air pollution
20. Chlorine and Alkali Industries
21. Enzyme Chemistry—immobilised enzymes
22. Industries based on starch and cellulose

B. Ph.D Degree

Facilities for research leading to Ph.D Degree in Chemistry for six candidates are available in the following areas: Essential Oils and Olereins, Drugs and pharmaceuticals, Cashew shell liquid and allied natural resins, Petroleum and Petrochemicals, Pesticides and Insecticides, Pheromones and Insect hormones, Starch and cellulose Chemistry, Natural Products, Lipid chemistry, Perfumery materials, Marine Natural Products, Clay and Ceramics, Rare earths, Ion Exchange resins, Silicones, coordination compounds and Surface active compounds.

A few fellowships of the value of Rs.300/- and Rs.400/- per month are available for candidates selected for Ph.D programme. A limited number of post doctoral fellowships

of the value of Rs. 500/- are also available. Fellowships also offered by the University Grants Commission and Council of Scientific and Industrial Research. Details of these fellowship will be notified in newspapers. There is also provision for part-time research. However such candidates will not be considered for the award of fellowships.

C. Faculty

1. Paul. A. Vatakencherry, B.Sc. (Madras), M. Sc. (Aligarh) Ph.D (Bombay) Research Associate (Harvard 1960-63); Senior Research Associate (Southern California 1971-71) Fellow of the intra-Science Foundation (Santa Monica '71) Professor in Industrial Chemistry and Head of the Department.
2. Professor in Polymer Chemistry — Vacant
3. P. Madhavan Pillai, B. Sc. (Hons) (Kerala) Ph. D. (Wayne State) Research Associate (Wayne State, 1968—76) Reader in Industrial Chemistry
4. Reader Analytical Chemistry — Vacant
5. S. Sugunan, M. Sc. (Kerala), Ph. D. (Kerala) Lecturer

APPLICATION FORM

Application for admission to the M Sc. Course in Applied Chemistry:

Application No.

(in all future correspondence please quote this number

1. a) Name of applicant. (block letters)
b) Name of applicant with initials expanded (block letters)
2. Nationality

3. Permanent address
4. a) Name and address of Father or Guardian
b) Relationship of guardian with the student
5. Occupation and average income of Father or guardian
6. Name and address of local guardian, if any
7. Place of birth with district and state
8. Date of birth and age on last birth day (Certificate to be produced at the time of interview/admission)
9. Religion
10. Whether belonging to Scheduled caste/scheduled tribe/backward community, if so, give particulars (attach certificate)
11. Address to which communication should be sent
12. Academic record
 1. Degree passed and year of passing No. of appearances
 2. Institution, University and the years of study
 3. Subject for B. Sc.
Main
Subsidiary
 4. Class/Rank obtained

5. Marks obtained in the B. Sc. Examination
(A photostat or attested copy of the mark sheet to be attached)

	Marks awarded	% of Marks	Minimum marks required for a pass	Maximum marks
Part I				
Part II				
Part III				
a) Chemistry (Main)				
b) Subsidiary I				
Subsidiary II				
c) Total, for Part III				

13. Postal Order Number & Date

DECLARATION OF THE APPLICANT

I declare that the particulars given above are, to the best of my knowledge, correct and that I will, if admitted, abide by the rules of the University and Department.

Station
Date

Signature of the Applicant

Signature of the Father/
guardian

TO BE FILLED IN THE OFFICE

Date of admission

Admission No.

HEAD OF THE DEPARTMENT

Annexure II

Annexure to Item No. 81.05.

Minutes of the discussion held at the University Office at 3 p.m on 12-7-1977 regarding the selection of site for Ship Technology Department.

As directed by the Pro Vice Chancellor, a team consisting of (1) Dr. P. J. George, (2) Prof. P. U. Paul (3) Mr. Joseph Alexander (4) Mr. S. Banerjee and (5) Capt. P. V. George inspected the sites at Trikkakara Campus, Foreshore Road and Willingdon Island (Fact properties) and Hill Palace, Tripunithura, with the object of selecting a suitable location for the Ship Technology Department. The requirement of land for the Ship Technology Department which may eventually expand to include courses in Marine Engineering and other fields besides the courses now offered in Naval Architecture and Ship Building, is two hectares.

The team is of the view that it will be advantageous for the department to have site in part or total on the water front Cachin Port. Since sufficient land to locate the department totally in Cocoin is not easily available, the team is of the opinion that one of the two properties offered by the FACT be utilised. On this property, buildings may be constructed to base the senior students of the department, who will be in a position to utilise the considerable practical facilities available in its vicinity. Such a building should have a carpet area of approximately 2500 sqm.

The facility for the other students of the Ship Technology Department have to be provided elsewhere. Of the two locations considered for this purpose i.e. Trikkakara Campus and Hill Palace, Tripunithura, the team recommended the Trikkakara Campus in view of the infra structure already available and projected in the master plan. This will obviate duplication of such necessary facilities as Laboratory, hostel

and amenities. In particular, the proximity to the expanding science, technology and Social Science and humanity departments will be most advantageous not to speak of the of the location in the heavy industrial belt. The team has selected approximately one hectare of land near the over head water tank in the Trikkakara Campus designing construction of buildings to accommodate students of the 7th semester in view of the term commencing immediately.

The team would also bring to the notice of the PVC the desirability of constructing Cochin section of the department at a point on the Willingdon Island across the water front or University Marine Sciences Department. The team recommends early negotiation with the Port Trust authorities for the lease of at least 50 cents of land.