

## COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

MINUTES OF THE 445th MEETING OF THE SYNDICATE HELD  
ON 22.12.2001

Place of meeting : Administrative Buildings  
Kochi - 682 022.

Time : 11.00 a.m.

## Members present :

1. Dr. N. Unnikrishnan Nair (in the Chair)  
Vice-Chancellor
2. Sri. V.K. Ebrahimkunj, MLA
3. Dr. C.K. Sasidharan
4. Dr. K.C. Joseph, MLA
5. Prof. M.J. Jacob
6. Dr. D. Rajasenan
7. Dr. Babu T Jose
8. Dr. K.P. Rajappan Nair
9. Dr. N. Chandramohanakumar
10. Sri. K. Mohamed Ali, MLA
11. Sri. M.K. Purushothaman

## Also present :

Dr. K.V. Kunhikrishnan  
Registrar

Item No. 445.01 Action taken report of the minutes of the 435th meeting of the Syndicate held on 24.03.2001 and 436th meeting held on 09.04.2001.

The Syndicate noted the action taken reports on the minutes of the meeting of the 435th meeting of the Syndicate held on 24.03.2001 and 436th meeting held on 09.04.2001 and approved the same.

Item No. 445.02 Confirmation of the minutes of the 444th meeting of the Syndicate held on 24.11.2001.

The minutes of the meeting of the 444th meeting of the Syndicate held on 24.11.2001 was confirmed with the following emendations.

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1. In Item No. 444.02-Confirmation of the minutes of the 443rd meeting of the Syndicate held on 20.10.2001-under Sl. No. (4), in the proposed correction, the following be added as last sentence :

"This resolution be made applicable to all courses in the University "

2. In Item No. 444.04 in the last paragraph of the resolution the words "Centre for Engineering Studies" be replaced with "School of Engineering".

3. In Item No. 444.05, in the last line of the resolution the word "concerned" be brought at the end of the line.

4. In Item No.(6) under items outside the agenda, in the list of members of the Committee constituted to examine the proposal for converting the Cochin University of Science and Technology to a Technical University, the name of Dr. Babu T Jose (Convener) be added as Sl. No. 1 and all subsequent numbers be renumbered.

5. In Item No.(8), at the end of the resolution, the following be added. "Any complaint received in this matter be reported to the Syndicate".

Item No. 445.03 Delegation of powers to Senior Officers-JRs, PDO, DRs etc.-Consideration of:

The Syndicate considered, along with the recommendations of the Standing Committees on Staff and Establishment, the proposal for delegating powers to senior officers.

Resolved that a sub committee of the Syndicate consisting of Dr. K.P. Rajappan Nair as Convener and Dr. D. Rajasenan as members be constituted for a detailed study and make recommendations. (Ad.A)

Item No. 445.04 Revaluation of answer books - Change in procedure--Remuneration to examiners/officers-consideration of.

The Syndicate considered, along with the recommendations of the Standing Committees on Examination Matters, the matter of payment of remuneration/TA/DA to examiners/officers engaged in the revaluation camp.

Resolved that -

1. revaluation of all semester examinations (regular) be conducted in centralized valuation camps and for supplementary examinations by home valuation.

2. the action taken by the Vice-Chancellor in having paid remuneration to examiners/officers engaged in the three valuation camps already conducted by the University as per U.O. No. EC1/59/Remuneration rates/98 dated 26.07.2000 be ratified.

3. remuneration to examiners/officers engaged in valuation camps be paid as per U.O. No. EC1/59/Remuneration rates/98 dated 26.07.2000 in future.

4. to avail of one camp preparation day and one conclusion day for availing camp allowance to officers whenever the number of answer books to be revalued exceeds 100 numbers and 2 days preparation and 1 day conclusion when it exceeds 1000.

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Item No. 445.05 Unauthorized absence of Dr. Sivadas K.R., Reader in Mechanical Engineering-Explanation given by the teacher-Submitting of-Regarding. (Exam.H)

The Syndicate considered, along with the recommendations of the Standing Committees on Staff and Establishment, Finance and Purchase, and Academic Matters, the matter of taking disciplinary action against Dr. Sivadas K.R., Reader in Mechanical Engineering who absented unauthorized from University service w.e.f. 12.02.2000 in the light of explanation furnished by him for the memo of charges and statement of allegations.

Resolved that the Vice-Chancellor be authorized to take disciplinary action against Dr. Sivadas K.R. as per rules. (Ad.D)

Item No. 445.06 Enhancement of rate for the conveyance of Sand--Regarding.

The Syndicate considered, along with the recommendations of the Standing Committees on Finance and Purchase, and Works, the request submitted by certain contractors who have been awarded various construction works for enhancement of rate for the conveyance of sand due to the ban imposed by the Hon'ble High Court of Kerala for sand mining from Aluva.

Resolved that the request be declined.

(Pl.A)

Item No. 445.07 Maintenance and rectification to the University main roads in Thrikkakara campus-payment of compensation to the contractor Sri P.C. Thomson-Objection from the Deputy Director of Local Fund Audit-Regarding.

The Syndicate considered, along with the recommendations of the Standing Committees on Finance and Purchase, and Works, the objection raised by the Deputy Director of Local Fund Audit for the payment of Rs. 1,87,586/- being the difference in the price of bitumen as compensation to Sri. P.C.Thomson, Contractor of the work of maintenance and rectification to the University main roads in Thrikkakara campus on account of the hike in the price of bitumen after the submission of tender documents.

Resolved that since the delay caused in starting the work was not the contractor's fault, the Deputy Director of Local Fund Audit be given a reply after getting proper explanation from the University Engineer in the matter.

(Pl.A)

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Item No. 445.08 Establishment - University teacher-Dr. Mary Joseph T., Professor, School of Management Studies-Permission to visit The Netherlands within the SEPTRA Project of MHO Programme-Action taken by the Vice-Chancellor-Reporting of-Regarding.

The Syndicate noted the action taken by the Vice-Chancellor in permitting Dr. Mary Joseph T., Professor, School of Management Studies to visit The Netherlands to undergo a post doctoral training in Environmental Studies from 16.08-2001 to 19.09.2001 within the framework of SEPTRA project of MHO programme, treating her absence for the period as on duty.

Resolved that the action taken by the Vice-Chancellor be ratified.

(Ad.D)

Item No. 445.09 Department of Computer Applications-Sri. Nithin Ambekar-MCA student-Production of fake degree-Cancellation of all examinations taken by the candidate-Action taken by the Vice-Chancellor-Reporting of-Regarding.

The Syndicate noted the action taken by the Vice-Chancellor in cancelling all examinations appeared by Mr. Nithin Ambekar, MCA student, Department of Computer Applications (1998 batch) and debarring him from appearing any examinations conducted by the University hereafter, who produced a fake degree certificate for getting admission to the MCA course.

Resolved that the action taken by the Vice-Chancellor be ratified.

(Exam.B)

Item No. 445.10 Post of Pump Operator in the Engineering Department.

The Syndicate considered the request of University Engineer for creation of a post of Pump Operator as an essential requirement for ensuring round the clock water supply in the campus.

Resolved that one post of the Line Helper in the Engineering Department be redesignated as Pump Operator in the scale of pay of Rs. 3350-5090 and appointment be made from among the University employees who possess three years experience as Pump Operator, by internal notification.

Item No. 445.11 Request for no objection certificates from the CAPB and IHRD-consideration of

The Syndicate considered the requests from (1) the Director, Co-operative Academy of Professional Education for issue of no objection certificates for (a) starting three new Engineering Colleges during 2002-03, (b) introducing one more B.Tech. course in the College of Engineering, Thalassery and Thrikkaripur and (c) enhancing

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the sanctioned intake from the present level of 40 to 60 in the College of Engineering, Kidangoor and (2) the Director, IHRDE to start two new Colleges-College of Applied Sciences at Thrikkakara and College of Applied Sciences at Chengannoor and to start MCA courses in these colleges.

Resolved that -

(i) no objection certificates be issued to (1) the Director, Co-operative Academy of Professional Education for (a) starting three new Engineering Colleges during 2002-03 (b) introducing one more B.Tech. course in the College of Engineering, Thalassery and Thrikkaripur and (c) enhancing the sanctioned intake from the present level of 40 to 60 in the College of Engineering, Kidangoor and (2) the Director, IHRDE to start two new Colleges-College of Applied Sciences at Thrikkakara and College of Applied Sciences at Chengannoor and to start MCA courses in these colleges, subject to the usual procedures and conditions in this regard.

(ii) In future, the usual visit of the inspection committee to the institution which seek NOC/recognition be preponed so that the committee could be authorized to make recommendation along with drafting the NOC.

(iii) the undertaking to the effect that the institutions seeking recognition would pay fees as fixed by the University from time to time be obtained hereafter from the institutions at the time of seeking NOC.

Item No. 445.12 Proposal to start B.Tech. Electronics and Communication Engineering in the Department of Electronics-Regarding.

The Syndicate considered, along with the recommendations of the Standing Committees on Staff and Establishment, Finance and Purchase, and Academic Matters, the proposal of the Head, Department of Electronics to start a undergraduate B.Tech. course in Electronics and Communication Engineering in the Department of Electronics.

Resolved that the proposal need not be approved.

(Pl.UGC)

Item No. 445.13 Fixing the fee structure of Master of International Business (Full Time) four semester course-regarding

The Syndicate considered, along with the recommendations of the Standing Committees on Academic Matters, and Finance and Purchase, the matter of fixing the fee structure of Master of International Business offered in the School of Management Studies.

Resolved that -

1. the fee structure of Master of International Business (Full-Time) 4 semester course offered in the School of Management Studies as given in the Appendix I be approved with the following modifications:-

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- (i) First 7 fee items be the same as suggested
  - (ii) Tuition fee be fixed at Rs. 6,000/- per semester by consolidating other items also (library fee, stationery fee, course material fee, computer fee and printing charges)
  - (iii) Caution deposit be increased to Rs. 2,000/- considering the significant increase in cost of library books.
  - (iv) Fee items unique to the Department (Management Science Association fee and Social Function fee) need not form part of the fee structure. This may be collected directly from the students when actually required for the purpose and its receipt and expenditure kept outside the University Accounting System (just like study tour fee).
2. Consolidation of tuition fee on the lines suggested at (ii) above ~~the~~ implemented for all the remaining existing courses also, in order to bring about standardisation/fation-alisation of the fee structure, and a proposal in this connection be put up to the Syndicate by the Academic Section.
3. Refund of tuition fee to students, as per existing rules be limited to 75% of the tuition fee collected.

(Ac.A)

Item No. 445.14 Industry-Varsity tie up between KELTRON and CUSAT-Proposal-Consideration of

The Syndicate considered, along with the recommendations of the Standing Committees on Academic Matters, and Finance and Purchase, the proposal submitted by the Deputy General Manager, (IT Education), Kerala State Electronics Development Corporation Limited (KSEDC Ltd.), Thiruvananthapuram for an industry-varsity tie-up between Keltron and Cochin University of Science and Technology.

Resolved that the proposal be accepted in principle and finalisation of the same be considered after an official level discussion between the two institutions.

(IRAA)

Item No. 445.15 Recognition as Research Guide in the Faculty of Engineering-Regarding.

The Syndicate considered, along with the recommendations of the Standing Committees on Academic matters the application from Sri. Mansoor Ahammed M., Lecturer, School of Engineering for recognition as a Research Guide under the Faculty of Engineering.

Resolved that Sri. Mansoor Ahammed M, Lecturer, School of Engineering be recognised as a Research Guide of the University under the Faculty of Engineering

(Ac. B)

Item No. 445.16 Research Guide-Recognition of-Reg.

The Syndicate considered, along with the recommendations of the Standing Committees on Academic matters the applica-

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tion from Dr. K.R. George, Professor, Department of Polymer Science and Rubber Technology for recognition as a Research Guide under the Faculty of Engineering.

Resolved that Dr. K.E. George, Professor, Department of Polymer Science and Rubber Technology be recognised as a Research Guide of the University under the Faculty of Engineering.

Item No. 445-17 Establishment-University teacher-Grant of norms promotion to Dr. Mariamma Chacko, Reader, Department of Foreign Languages-Objections raised by the Finance Section-Consideration of.

The Syndicate considered, along with the recommendations of the Standing Committees on Staff and Establishment, and Finance and Purchase, the irregularities pointed out by the Finance Section in the norms promotion granted to Dr. Mariamma Chacko, Department of Foreign Languages, as Reader.

Resolved that the decision taken by the Syndicate vide minutes Item No. 420.33 be reiterated.

Further resolved that similar cases of norms promotion be reviewed on specific requests.

(Ad.D)

Item No. 445.18 Extension of LWA for completing the foreign assignment-Request from Sri. K.B. Muraliedharan, Lecturer, Department of Computer Science-Consideration of.

The Syndicate considered, along with the recommendations of the Standing Committees on Staff and Establishment, Finance and Purchase, and Academic Matters, the request of Sri. K.B. Muraliedharan, Lecturer, Department of Computer Science for extension of LWA till 31st October 2003 for completing the foreign assignment in Maxxon Systems Inc., Chicago, USA.

Resolved that the request of Sri. K.B. Muraliedharan, Lecturer, Department of Computer Science for extension of LWA till 31st October 2003 (in continuation of LWA already granted to him) for completing the foreign assignment in maxxon Systems Inc., Chicago, USA be granted.

(Ad.D)

Item No. 445.19 School of Engineering-Safety and Fire Engineering-Purchase of models and CPR Manikin proposal-consideration of.

The Syndicate considered, along with the recommendations of the Standing Committee on Finance and Purchase, the proposal of the Principal, School of Engineering for the purchase of models and CPR Manikin at a total cost of Rs. 3,52,733/- from M/s. Sterimed Inc. Thrissur, in the light of the explanation furnished by the Principal.

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Resolved that the Principal, School of Engineering be permitted to purchase the following items at a total cost of Rs. 3,52,733/- from M/s. Sterimed Inc., Thrissur.

1. Rescue Randy Combat Challenge
2. EMT Casualty Simulation Kit
3. Super Skeleton
4. Spinal Column with Nerves

(CES)

Item No. 445.20 Economy in telephone charges-Restrictions on residential telephone calls of officers- Official residential telephone bill of Sri. V.J. Pappoo, Former Pro-Vice-Chancellor- Excessive expenditure-Consideration of.

The Syndicate considered, along with the recommendations of the Standing Committee on Finance and Purchase, the matter of excessive expenditure incurred in connection with the overseas calls made from the telephone No. 541623 during the period 26.2.1997 to 25.4.1997, the official residential telephone of the then Pro-Vice-Chancellor, Sri. V.J. Pappoo.

Resolved that since it is now difficult for distinguishing the official and personal calls made from telephone No. 541623 during the period 26.2.1997 to 25.4.1997, all the calls made from the telephone be treated as official and Sri. V.J. Pappoo the then Pro-Vice-Chancellor be relieved from the liabilities on this account.

(GA & EL)

Item No. 445.21 Payment of TA/DA to University authorities- Proposal for revision in existing rates-Reg.

The Syndicate considered, along with the recommendations of the Standing Committee on Finance and Purchase, the proposal for revision of the existing special rate of TA/DA paid to the University Authorities.

Resolved that the special TA/DA rates presently applicable to the University authorities be amended suitably, by replacing the following provisions:

a. Journey by train

Single I Class/II A/c. Chair Car/II A/c. Sleeper/E/c. 3 tier fare plus 25 Ps. per kilometer towards incidental expenses. Reimbursement of I A/c. charges will be admissible only if train tickets/railway receipts are produced.

b. Journey by road

Taxi fare will be admissible only for journeys from residence to nearest airport/railway station and back and from Nedumbassery airport/Ernakulam South, North and Aluva Railways Stations to University and back at actuals irrespective of the distance and subject to production of pre-printed taxi receipts.

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In case of non-production of taxi receipts, a standard rate of Rs. 2/- per km. will be admissible.

Note : The certificate as per Rule 5(c) 5(d) as the case may be should be produced along with the TA Rules.

c) Journey by air

Plane fare plus incidental expenses at 1/5th of the plane fare subject to a minimum of one DA and maximum to Rs. 100/- each day.

d) Daily Allowance

Rs. 100/- per day of halt, and will be admissible official meeting/function on the next day of the meeting.

e) Sitting fee

Rs. 100/- per meeting, if attending the meeting is the only official purpose. In this case no daily allowance is additionally payable.

(Audit A)

Item No. 445.22 : Purchase of 2000 bags of cement to the Engineering Department store - Regarding.

The Syndicate noted the action taken by the Vice-Chancellor in sanctioning the purchase of 2000 bags of cement to the Engineering Department store from the Balabar Cements Ltd. at a total cost of Rs. 3,30,3000/- (i.e., @ Rs.165/- per bag including unloading charges).

Resolved that the action taken by the Vice-Chancellor be ratified.

(Pl.A)

Item No. 445.23 : Submission of department level report - Reporting of - Regarding

The Syndicate noted the action taken by the Vice-Chancellor in approving the Department level report relating to the Tenth Five Year Plan proposals, and submitting the same to the State Planning Board and the attached core part of the said report dealing with details of tentative outlay for building infrastructure (based on earlier decisions of the Planning Committee and Syndicate). (Appendix II)

Resolved that the action taken by the Vice-Chancellor be ratified.

(Pl.UGC)

Item No. 445.24 : School of Legal Studies - Cochin  
University Law Review (CULR) -  
Annual subscription of back volumes  
- Enhancement - Regarding.

The Syndicate considered, along with the recommendations of the Standing Committees of Academic Matters, and Finance and Purchase, the request of the Director, School of Legal Studies for enhancing the rate of back volumes of the Cochin University Law Review to Rs. 600/- within the Country and US \$70 outside the Country for 4 Nos. of annual volumes.

Resolved that the request of the Director, School of Legal Studies for enhancing the rate of back volumes of the Cochin University Law Review to Rs. 600/- within the Country and US \$ 70 outside the Country for 4 Nos. of annual volumes be approved.

(Ac.A)

Item No. 445.25 : Fixation of the cost of application form and fee payable by the foreign nationals for admission to the certificate/diploma courses offered by the Department of Foreign Languages, Cochin University of Science and Technology - Ratification of action taken by the Vice-Chancellor.

The Syndicate noted the action taken by the Vice-Chancellor in sanctioning the following relating to the admission to certificate/diploma courses in the Department of Foreign Languages :

- a) to fix the cost of application for foreign nationals for admission to the Certificate/Diploma courses in French offered by the Department of Foreign Languages as US \$ 100 (US dollar one hundred only) and to charge a fee of US \$ 500 (US dollar five hundred only) from foreign students securing admissions for the Certificate/Diploma courses in French offered by that Department, for the entire duration of the course, i.e., one year.
- b) to admit the foreign nationals to the Certificate/Diploma courses in French offered by the Department of Foreign Languages subject to such candidates satisfying the eligibility criteria for admission.

Resolved that the action taken by the Vice-Chancellor be ratified.

(IRAA)

Item No. 445.26 : Appointment of Technical Officer  
(Executive Engineer) - High Court  
verdict thereon and further developments  
- Reportin of.

This item was deferred for consideration in the next meeting.

Item No. 445.27 : Establishment - University teacher -  
Dr.K.Sajan, Professor, Department of  
Marine Geology and Geophysics - permission  
to visit The Netherlands - Permission to  
rejoin duty by cancelling the unavailed  
portion of leave - Action taken by the  
Vice-Chancellor - Reporting of.

The Syndicate noted the action taken by the Vice-Chancellor in granting permission to Dr.K.Sajan, Professor Department of Marine Geology and Geophysics to visit Delft University of Technology, The Netherlands for a period of 89 days from 18th June to 14th September 2001 within the frame work of the University's co-operation programme with Cochin University of Delft University of Technology, The Netherlands, availing himself of vacation from 18th June to 30th June 2001, treating his absence from 1st July to 14th September 2001 as on duty.

Resolved that the action taken by the Vice-Chancellor be ratified.

(Ad.D)

Item No. 445.57 : Ph.D thesis entitled 'Studies on Short Nylon Fibre Reclaimed Rubber/Elastomer' submitted by Smt.Sreeja T D. - Evaluation reports and minutes of viva-voce examination - Consideration of.

The Syndicate considered, the individual reports of the Examiners, recommendations of the via board, and the minutes of the viva-voce examination in respect of the Ph.D thesis submitted by Smt.Sreeja T D., Full Time Research Student, Department of Polymer Science and Rubber Technology, Cochin University of Science and Technology, Kochi 682 022.

Resolved that Smt.Sreeja T D be declared eligible for the award of the degree of the Doctor of Philosophy under the Faculty of Technology for her thesis entitled "Studies on Short Nylon Fibre Reclaimed Rubber /Elastomer".

(Exam A)

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Item No.445.58 Ph.D thesis entitled 'Geochemistry and Mineralogy of Chaliyar River Sediments with Special Reference to the Occurrence of Placer Gold' submitted by Sri Hariharan G N - Evaluation reports and minutes of viva-voce examination - Consideration of.

The Syndicate considered, the individual reports of the Examiners, recommendations of the vivab board, and the minutes of the viva-voce examination in respect of the Ph.D thesis submitted by Sri Hariharan G N, Full Time Research Student, Department of Marine Geology and Geophysics, Cochin University of Science and Technology, Kochi 682 016 who worked under the guidance of Dr.C.G.Nambiar.

Resolved that Sri Hariharan G N be declared eligible for the award of the degree of the Doctor of Philosophy under the Faculty of Marine Sciences for his thesis entitled 'Geochemistry and Mineralogy of Chaliyar River Sediments with Special References to the Occurrence of Place Gold'.

(Exam A)

Item No.445.59 Ph.D Thesis entitled 'Investigations on the Stress Effects of Petroleum Hydrocarbons on Metapenaeus Dobsoni (MIERS)' submitted by Smt.Miriam Paul - Evaluation reports and minutes of viva-voce examination - Consideration of.

The Syndicate considered, the individual reports of the examiners, recommendations of the viva board, and the minutes of the viva-voce examination in respect of the Ph.D thesis submitted by Smt.Miriam Paul, Part Time Research Student, Department of Marine Biology, Microbiology and Biochemistry, Cochin University of Science and Technology, Kochi -682 016 who worked under the guidance of "r.N.Ravindranatha Menon.

Resolved that Smt.Miriam Paul be declared eligible for the award of the degree of the Doctor of Philosophy under the Faculty of Marine Sciences for her thesis entitled 'Investigations on the Stress Effects of Petroleum Hydrocarbons on Metapenaeus Dobsoni (MIERS)'

(EXAM A)

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# Items Outside the agenda

(1) The Vice-Chancellor informed the Syndicate that the CAT Notification has to be finalized during the next week and the Academic Handbook has to be printed before the issue of application. The Syndicate authorized the Vice-Chancellor to approve the notification after making appropriate changes in the courses to be offered and to initiate steps for printing the Academic Handbook.

Arising from the discussion it was further resolved to prepare a comprehensive note on the various projects under MHO Programme with statements of receipt and expenditure and present them in the Syndicate for consideration.

(2) The Xth Plan proposal to be submitted to the UGC was approved as given in Appendix III.

(4) The Vice-Chancellor was authorized to reconstitute the Board of Studies in Instrumentation whose term expired on 15.12.2001.

(5) The Syndicate ratified the action of the Vice-Chancellor in approving the minutes of the Syndicate Sub Committee on Examination Matters met on 21.12.2001.

All other items were deferred for consideration in the next meeting.

The meeting came to an end at 1.p.m.

REGISTRAR

Kochi 682 022  
27.12.2001

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APPENDIX-I  
Appendix to Item No. 445.13

FEE STRUCTURE

M I B

FOUR SEMESTER COURSE

	I	II	III	IV
University Union Fee	50	50	50	--
Students Aid Fund	40	--	40	--
Sports Fee	25	--	25	--
Medical Inspection Fee	15	--	15	--
Quasi University Fee	60	--	60	--
Matriculation Fee) At the time of Admission	60	--	--	--
Recognition Fee )	75	--	--	--
Tuition Fee	4,500	4500	4500	4500
Library Fee (at the time of admission)	250	--	--	--
Stationary fee	200	200	200	200
Caution Deposit (at the time of admission)	500	--	--	--
Management Science Association Fee	100	--	100	--
Course material Fee	500	500	500	500
Computer Special Fee	500	500	500	500
Printing charges	50	--	50	--
Social function fee	25	--	25	--

students :

Strength - 30 (at present) and 36 (from 2001 admission onwards)

sd/-  
DIRECTOR

jay/

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APPENDIX - II  
Appendix to Item No. 445.23

4.0 OUTLINING PRIORITIES FOR INVESTMENT IN THE NEXT FIVE YEARS WITH JUSTIFICATION :

During the 10th plan, the first priority of the University is for the optimal use of the existing resources.

The second priority is to build up infrastructure, as detailed below:

(A) Setting up of new Departments :

Sl. No.	Name of the Department	Appx. Outlay (Rs. in lakhs)
(1)	Rural Development and Appropriate Technology	25.00
(2)	Physical Education	25.00
(3)	Commerce	25.00
(4)	Distance Education	25.00
Sub Total		100.00

(B) Starting of new courses :

Sl. No.	Name of the course	Appx. outlay
(1)	M.Tech Sensor Technology (Dept. of Instrumentation)	25.00
(2)	M.Tech Polymer Science and Rubber Technology (Department of Polymer Science and Rubber Technology)	25.00
(3)	Diploma in Rural Development and Appropriate Technology (Centre for RUDAT)	10.00
(4)	Additional self-financing batch for MCA	15.00
(5)	Para Medical courses	25.00
(6)	Others	50.00
Sub Total		150.00

(Rs. in lakhs)

(C)	Completion of ongoing major works	400.00
(D)	Completion of Science Seminar Complex-	200.00
(E)	Priority for new construction projects:	
=====		
Sl. No.	Name of the major work	Appx. cost
-----		
1.	Bldg. for the department of Computer applications	35.00
2.	Staff quarters for teaching & non-teaching staff	60.00
3.	Vertical extension of Administrative Building	60.00
4.	Building for Centre for Rural Development & Appropriate Technology	25.00
5.	Second Floor for Department of Instrumentation	20.00
6.	Building for Department of Foreign Languages	30.00
7.	Additional space for seminar room & 2 class rooms for school of Management Studies	25.00
8.	Additional space for Bank	10.00
9.	Indoor Stadium	10.00
10.	Building for Health Centre	15.00
11.	Non-teaching staff club (on top of Faculty Club)	5.00
12.	Compound wall & roads	50.00
13.	Water supply	25.00
14.	Procurement of Generator	50.00
15.	Campus development/beautification	50.00
16.	Other works	100.00

Sub Total	550.00
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(Rs. in lakhs)

(F)	Procurement of Equipments & removal of obsolescence		1000.00
(G)	Purchase of Books, Journals, CDs and Other media		400.00
(H)	Matching grant for International collaboration		100.00
(I)	Staff Salary (Plan posts)		50.00
(J)	Human Resources development in frontier areas		30.00
(K)	Welfare Schemes :		
	(i) Medical Centre	- 15.00	
	(ii) Child care centre	- 5.00	
	(iii) Students & Staff Insurance	- 10.00	
		-----	30.00
(L)	Others :		
	(i) Setting of Placement Cell	- 5.00	
	(ii) Setting up of Institute Industry Participation Cell	- 5.00	
		-----	10.00

GRAND TOTAL OF A TOTAL 3000.00

jay/

COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

XTH PLAN PROPOSALS

FOR SUBMISSION TO UGC

1. Introduction :

The erstwhile University of Cochin was upgraded and reorganised as Cochin University of Science and Technology in February, 1986 with the objectives of promotion of graduate/post-graduate studies and advanced research in applied science, technology, industry, commerce, management and social science.

The University's basic philosophy and goals find eloquent expression in its coat of arms emblazoning the motto 'Tejaswinavadhitamastu', which in essence means "may learning illumine us both (the teacher and the taught).

2. Priorities during Xth Plan :

(a) Removal of obsolescence :

Replacement of outdated and old equipments in the Departments under the Faculty of Science and Marine Sciences.

- (b) Starting of new programmes of study/research
- (c) Access to electronic research journals in the Central Library

Cochin being the centralised location in the State, is ideally suited for the creation of a Mirror Site as repository of research and teaching material.

(d) Multi-media course ware development:

University has an ICT organisation for the promotion of e-learning by catering multimedia courses established with the collaboration of the Dutch Government under MHO Programme. Assistance is sought to sustain the activities during the X Plan period.

(e) Establishment of a Cell for internal quality assurance and examination reforms.

to monitor the research activities and academic programmes and Evaluation Advisory Committee consisting of external experts, meeting periodically and to renew the strategy and goals.

(f) Strengthening the existing Academic and Management Information System.

(g) Strengthening international academic collaboration.

(h) Development of sports infrastructure:

At present there is no infrastructure facility for sports and games in the University. With the induction of more than 2000 students in undergraduate B Tech Engg. programmes, substantial development in this area becomes necessary.

(i) Infrastructure development for women students and teachers and establishment of women studies Centre.

(j) Campus development

(k) Strengthening Society-University interface in Science and Technology

(l) Strengthening Institute-Industry interaction.

(m) Improving placement

(n) Human resources development in emerging areas (for teaching and non-teaching staff)

3 Programmes/schemes implemented during IXth plan highlighting the achievements and short-falls :

\* A Common Admission Test (CAT):

Students to all courses in the University are selected through a common admission test conducted on a national basis in various centres all over India.

\* International Academic Collaborations:  
MHO Programme with the assistance of the Government of The Netherlands.

\* Academic programmes for foreign students sponsored by the Brotheren College Abroad, USA

\* Academic linkage including exchange of teachers & students with University of Montpellier (France), Tilberg, Eindhoven, Delft (The Netherlands), Manitoba & Waterloo (Canada), Cantho (Vietnam), etc.

\* Communication System: INFOCUS, FIS, ARIS, MIS.

\* Established 8 new Centres in emerging areas.

\* Started 19 new academic programmes

\* Establishment of Department of Physical Education.

\* Research Projects with an outlay of Rs.11.29 crores are in progress in the University.

\* INFLIBNET programme implemented in the University's Central Library.

\* UGC's Special Assistance Programmes implemented in 4 Departments:-

- COSIST - in the Departments of Physics  
 DSA - In the Departments of Physics and Electronics  
 (in the area of Ocean Electronics)  
 & School of Marine Science.  
 DRS - In the Department of Hindi.

\* Acquired 39.06 acres of land for the Cochin University College of Engineering, Kuttanad at Pulinkunnu

\* Established Centre for Science in Society.

\* Established Sophisticated Test & Instrument Centre (STIC), within the campus in collaboration with State Government.

INFRASTRUCTURE DEVELOPMENT :

(i) New courses started during 9th plan:

1. B Tech. Electronics & Com. Engg.,  
Computer Science & Engg., Civil Engg.,  
Mechanical Engg (CAD & M), Safety & Fire Engg.,  
and Information Tech.

2. BCA

3. MCA

4. M Tech. Software Engg.

5. Master of Business Economics

6. Master of International Business

7. M Tech. Atmospheric Science

8. M Sc Hydro-chemistry

9. M Phil Chemical Oceanography

10. M Phil Ecology

11. M Phil Physics (Part-time, Cost-Sharing)

12. M Tech Ocean Tech

13. M Tech Engineering Statistics

14. M Sc in Software Engg.

15. M E by Research

16. LL B

17. B Tech Instrumentation & Polymer Science & Tech.

18. Dip - Rural Development & Appropriate Tech.

- Coastal Zone Management

(ii) Major construction activities:

- (a) Ladies Hostel
- (b) Multi-storeyed Lab Block for School of Engg.
- (c) Building for School of Environmental Studies
- (d) Building for International School of Photonics
- (e) Building for Deptt. of Statistics
- (f) Lecture Hall Blocks I & II for School of Engg.
- (g) 2 Guest House Blocks & Canteen of Science Seminar Complex.
- (h) Construction of pond, pump-house and compound wall.
- (i) Lab Blocks - I, II & III at Pulinkunnu Campus
- (j) Block I ( for MCA) at Pulinkunnu campus

(iii) 92 Research projects with an outlay of Rs.7.21 crores were completed.

4. X PLAN PROPOSALS :

SECTOR-1 : GENERAL DEVELOPMENT OF UNIVERSITIES :

This University is one of the UGC-funded State Universities. Hence UGC's higher level funding is expected during the X Plan for the following purposes:-

(A) Setting up of new Departments :

Sl.No.	Name of the Dept.	Appx.Outlay (Rs. in Lakhs)
(1)	Rural Development & Appropriate Technology	25.00
(2)	Strategic Studies	25.00
(3)	International Business	25.00
(4)	Policy Development Studies	25.00
(5)	Distance Education	25.00
(6)	Physical Education	25.00
(7)	Placement & Training	25.00
Sub Total		175.00

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## (B) Starting of new Courses:

Sl.No.	Name of the Course	Appx. outlay
(1)	M Tech Sensor Tech. (Deptt. of Instrumentation)	25.00
(2)	M Tech Polymer Science & Rubber Technology (Deptt. of PS & RT)	25.00
(3)	Diploma in Rural Development & Appropriate Technology (Centre for RUDAT)	10.00
(4)	Additional batch for MCA	15.00
(5)	Para Medical Courses	100.00
(6)	M Tech (Geo Technology)	25.00
(7)	Others	25.00
Sub-total		225.00

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(Rs. in lakhs)

- (C) Completion of ongoing major works 400.00  
 (D) Completion of Science Seminar complex 200.00  
 (E) Priority for new construction projects:

Sl.No.	Name of the major work	Appx. cost (Rs. in lakhs)
1	Bldg. for the department of Computer Applications	35.00
2	Staff quarters for teaching & non - teaching staff	60.00
3	Vertical extension of Administrative Building	60.00
4	Building for Centre for Rural Development & Appropriate Technology	25.00
5	Second floor for Department of Instrumentation	20.00
6	Bldg. for Department of Foreign Languages	30.00
7	Additional space for seminar room & 2 class rooms for School of Management Studies	25.00
8	Additional space for Bank	10.00
9	Indoor stadium	10.00
10	Building for Health Centre	15.00
11	Non-teaching staff club (on top of Faculty Club)	5.00
12	Compound wall & roads	50.00
13	Water supply	25.00
14	Procurement of Generator	50.00
15	Campus development/beautification	50.00
16	Other Works	100.00
Sub total		550.00

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(Rs. in lakhs)

- (F) Obsolescence removal grant -  
for procuring modern equipments &  
removal of obsolescence in the  
Departments under the Faculties  
of Science & Marine Sciences 1000.00

This University was established in 1971 by upgrading the P.C. Centre of University of Kerala at Cochin. Hence we have inherited substantial quantity of old equipments procured by the University during the last 3 decades require replacement.

(Ref: UGCxPlan profile - sector 2.6)

- (G) Purchase of Books, Journals, C.Ds.,  
and other media 400.00
- (H) Matching grant for international  
collaboration 100.00
- (I) Matching grant for corpus fund 100.00
- (J) Staff salary (Plan posts) 50.00
- (K) Outreach activities/extension work 50.00
- (L) Life long learning/human resources  
development in frontier areas 30.00
- (M) Development of sports infrastructure 400.00
- (N) Welfare Schemes:
- (i) Medical Centre 25.00
- (ii) Child care centre 5.00
- (iii) Students & Staff insurance 10.00
- 
- 30.00
- (O) Others:
- (i) Setting of placement Cell : 5.00
- (ii) Setting up of Institute - 5.00  
Industry Participation Cell
- 

10.00

Sub Total

2170.00

3720.00

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## 5.0. SECTOR -2: FOCUSED DEVELOPMENT OF UNIVERSITIES:

(Rs. in lakhs)

- 2.5. To establish autonomous Colleges/Depts... 75.00

This University has granted considerable administrative/financial autonomy for the implementation of DRS/DSA/COSIST in 4 Departments. To widen the scope of autonomy in these 4 Departments, a nominal grant is proposed.

- 2.7 Digital Repository of Research & Teaching  
materials 100.00

During X plan UGC has proposal to set up 16 mirror sites in different parts of the country to act as Depository of Research & Teaching Material. This will facilitate fast update, easy access and on-line transfer of the said material.

Cochin University of Science & Technology is the most suitable location to set up one of these sites. This University has a campus wide internet facility as well as a campus-wide telecommunication net work. Its Central Library is fully automated and is connected with most of the on-line links of national and international Library Net Works.

Hence we propose that one of these sites be set up in this University.

## SECTOR 3: QUALITY AND EXCELLENCE:

- 3.1 UNIVERSITIES WITH POTENTIAL FOR EXCELLENCE: 100.00

This University had applied to UGC last year for being declared as an

'Institute of Excellence'

We would like to achieve that target by upgrading our facilities. Hence the eligible grant under this programme/sub-sector may be allotted.

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- 3.3 DEVELOPMENT OF TEACHING COURSE-WARE 50.00
- Preparation/development of teaching-ware is an urgent necessity particularly in a Science & Technology University. In the context of global competition this has to be taken up as a top-most priority.
- 3.4 INCENTIVE FOR REFORMS: 10.00
- For introducing examination reforms, administrative re-structuring, implementing credit system, etc.
- 3.5 INTERNAL QUALITY ASSURANCE CELL & ACCREDITATION: 10.00
- Having gone through the accreditation process recently, we would like to set up an internal Quality Assurance Cell in the University. Hence a nominal funding is proposed.
- 3.6 NATIONAL EDUCATIONAL TESTING: 5.00
- To participate in this national endeavour, a token grant is proposed.
- SECTOR-4: RELEVANCE & DEVELOPMENT OF PROFESSIONAL DISCIPLINES:
- 4.3 INITIATION OF TEACHING & RESEARCH ACTIVITIES IN EMERGING AREAS: 50.00
- Being a Science & Technology University, we have taken up teaching and research activities in emerging areas, like Information Technology, Bio-Technology, Photonics & Lasers, etc.. Facilities in these areas are to be modernised and built up.

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- 4.4. ESTABLISHING OF ACADEMIC STAFF COLLEGE (an instrument for teacher' orientation) 25.00
- This University presently conducting refresher courses in five departments for teachers. Further, the state Government has established a Centre for Training of College Teachers (CTCT) in this University. This centre is imparting training programmes and refresher/orientation courses for the College/University teachers of the State.
- It is proposed that an Academic Staff College may be sanctioned by UGC for this University during x plan.
- D. INTER UNIVERSITY CENTRES AND NATIONAL FACILITIES:
- 5.D.1. Development grant for national facilities:
- INTERNATIONAL SCIENCE SEMINAR COMPLEX : 100.00
- With financial support of Department of Science & Technology, GOI, this University is constructing an International Science Seminar Complex. This being a national facility, UGC is requested to allot a suitable grant during X plan to complete this construction.
- 2.9. Continuation of:
- CENTRE FOR INTER- DISCIPLINARY STUDIES 10.00
- During 9th plan UGC had sanctioned setting up of a Centre for Inter-Disciplinary Studies with the objectives of promoting inter-disciplinary research linking several areas., and to help the emergence of novel technologies as well as ideas.
- This centre has done excellent work during the 9th plan period. The centre has developed greater inter-action between various disciplines for effective translation of new ideas/ discoveries to practical applications. The Centre has also stimulated cross fertilisation of ideas from different areas. Further, it has organised seminars, conferences, workshops in inter-disciplinary areas.

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This centre has also taken up projects of an inter-disciplinary type and acted as a conduit for problems referred to by the industries. Such problems needed participation of teachers/experts from diverse backgrounds and the Centre has played an active role in solving those problems.

Hence the University intends to continue this Centre during X plan also.

Continuing of  
CENTRE FOR SCIENCE IN SOCIETY

10.00

During 8th Plan UGC had sanctioned Rs.5.00 lakhs for setting up of a Centre for Science in Society. In addition to this Kochi Refineries Ltd. had provided Rs.15.00 lakhs for running this Centre, which has become a reputed establishment of this University drawing thousands of students from the Schools and Colleges of the State.

At present this Centre has the following sections:

- a) A well-maintained Science Park for Children
- b) A Science Library for the Children
- c) An Industrial Pavillion - with attached Laboratories & class rooms.
- d) A multi-media computer centre with inter-net connection.

The University would like to further strengthen the activities of this centre during X plan.

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Grand Total

Rs.4265.00

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