

# **Cochin University of Science and Technology**



**Kochi, Kerala-682022**

## **Annual Quality Assurance Report (AQAR) 2009-10**

**of**

**Internal Quality Assurance Cell  
(IQAC )**

**Submitted to  
The National Assessment and  
Accreditation Council  
Bangalore**

## Annual Quality Assurance Report (AQAR) of the IQAC

Name of the Institution : COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY  
Year of Report : 2009-10

### SECTION- A

#### Plan of action chalked out by the University in the beginning of the year towards quality enhancement

The detailed plans of action of the University for the year 2009-10 are:

- ⌚ To establish a Centre for Nano-Technology
- ⌚ To establish a Centre for Advanced Materials
- ⌚ To establish an Inter University Centre for Marine Biotechnology
- ⌚ Start two new academic programmes- M.Phil Marine Chemistry and 5 Year B.B.A.L.L.B (Hons)
- ⌚ Amount for M.Phil Scholarship to be increased from Rs.600 to Rs.1000
- ⌚ University Research Fellowship to be increased from 120 to 150 numbers
- ⌚ Alumni relations to be strengthened at dept level and an apex body at University level also to be formed for this
- ⌚ An Examination Manual to be released and implemented
- ⌚ To establish an Equal Opportunity Cell (EOC) to increase the access and equity for marginalized groups like SC/ST/OBC (non-creamy layer) and minority groups, and to make higher education inclusive.
- ⌚ Training to be given for faculty members and Examiners
- ⌚ Training to be given for nonteaching staff
- ⌚ To add more space to Examination wing by completing of the vertical extension to the Administrative office
- ⌚ Roofing of the Open air Auditorium for holding programs

## **SECTION- B**

### **Details in respect of the following**

#### **1. Activities reflecting the goals and objectives of the institution**

The University is geared to achieve its specific goals and objectives through

- ⌚ Manpower development
- ⌚ Research in emerging areas in Applied Sciences and Technology
- ⌚ Extension activities to the public and to the Government organizations for planning and development.
- ⌚ Industry – Institution interactions
- ⌚ Sharing and transfer of knowledge through Extension activities
- ⌚ Co-operation with national and international agencies
- ⌚ Exchange Programmes

The University offers UG and PG courses in Applied Sciences, Humanities, Management and Technology and Research programmes in the needy areas of society to achieve the objectives, mission and goals. The University is always on the move, girding up its loins with grit and determination to unravel the myriad, unexplored mysteries of knowledge.

#### **2. New academic programmes initiated (UG and PG)**

- i. M.Phil Marine Chemistry
- ii. 5 Year B.B.A.L.L.B (Hons)

#### **3. Innovations in curricular design and transaction**

- i. L.L.B course is restructured to B.B.A.L.L.B (Hons)
- ii. Master of Business Economics (MBE) is restructured to M.A. Applied Economics

iii. Master of International Business (MIB) is restructured to MBA (International Business)

iv. Ship in Campus Afloat training is introduced for B. Tech Marine Engg

**4. Inter-disciplinary programmes started**

Started **5 Year B.B.A.L.L.B (Hons)** during the year

**5. Examination reforms implemented**

- ⌚ The University had published the results of the final year B.Tech examinations in record time and way head of other universities in the State, for the third consecutive year. The achievement turned unique this year, as the university came out with the results of the Common Admission Test (CAT) and B.Tech final semester examination on the same day on 06 June 2009.
- ⌚ Issued Provisional Certificates/ Mark list to all PG students /UG students along with result release
- ⌚ Started providing photocopies of the valued answer scripts to the students on request.
- ⌚ An examination manual is released and implemented.

**6. Candidates qualified: NET/SLET/GATE etc.**

NET	43
IAS	2
Defense Entrance	-
Other Services (IPS, ISS, IES)	1

**7. Initiative towards faculty development programme**

The University has organized the following faculty development programmes during the year 2009-10

- i. Training programme in database management using MySQL organized by Centre for Information Resource Management

- ii. Training programme for the teaching staffs of the Engineering and Technology faculties by National Institute of Technical Teachers Training and Research (NITTTR) organized by School Of Engineering

**8. Total number of seminars/workshops conducted**

Seminars/ workshops/symposia	32
Research development programmes	11
Invited/endowment lectures	18
Any other (Open House, Day Celebrations)	14
<b>GRAND TOTAL</b>	<b>75</b>

**9. Research projects a) Newly Implemented; b) Completed**

- a) Newly Implemented: 44
- b) Completed: 53

**10. Patents generated, if any: Nil**

**11. New collaborative research programmes**

Many departments have started collaborative research programmes with agencies in and outside India and sister departments within the University. Some of them are,

- ⌚ School of Industrial Fisheries have started collaborative research with Fisheries resource Management Society, Govt.of Kerala
- ⌚ Dept of Polymer Science & Rubber Technology has active collaboration with the Dept. of Biotechnology in the area of biodegradation of polymeric products.
- ⌚ Dept of Statistics has started research collaboration with Prof. Isha Dewan, Indian Statistical Institute, New Delhi
- ⌚ The National Centre of Aquatic and Animal Health in the School of Environmental Studies actively involved in research collaboration with

University of Northumbria at Newcastle, U.K, National Centre for Cell Science, Pune and Central Institute of Brackish water Aquaculture, Chennai

- ⌚ Collaborating with NCAOR, MoES Dept of Marine biology, Microbiology and Biochemistry is doing a research project.
- ⌚ Department of Atmospheric Sciences has scientific collaboration programme with the following international institutions
  - a) Institut fur Meteorologie, Frei Universitat at Berlin, Germany on Stratosphere Troposphere Interactions
  - b) Service d' Aeronomie, CNRS, France on Stratospheric Processes and their influence in Climate
  - c) Laboratory for Atmospheric Dynamics, Paris on Modeling of Intra-seasonal Variability of Monsoon
  - d) Imperial College, U.K on Atmospheric Ozone and Climate Variability

## 12. Research grants received from various agencies

Agency	Amount in Rs.
State Government	0
UGC	18,830,746
Other GOI Sources	64,070,323
Others	7,840,418
<b>Total</b>	<b>90,741,487</b>

\* Other GOI Sources

include institutions like MoES, MHRD, NSC, DST, DOE, DAE, DOD, CSIR, ICAR, DRDO, IUAC, ICMR, ICSSR, Dept of Space, Coir Board(B), Central Water Commission, DBT, MEF, AICTE, MPEDA, ISRO, IUC-DAEF

\*\* Others include STED, IRELTDC, NZAID, European Commission and EMRE, UK

**13. Details of Research Scholars**

No of Full Time Research Scholars: 402

No of Part Time Research Scholars: 383

**14. Citation index of faculty members and impact factor : as reflected on CUSAT web site**

**15. Honors/Awards to the faculty: National and International**

No	Name of the Faculty member	Department/ School	Nature of Award and Agency
1	Dr. C.S.Paulose	Biotechnology	“Kamla B.K.Anand Oration Award” given by All India Institute of Medical Science, New Delhi.
2	Dr. N.G. Devaki	Hindi	National Award for Non-Hindi Writers by Samekit Bharateey Sahitya Parishad, Basti, Uttar Pradesh
3	Dr. A.A.Muhammed Hatha	Marine Biology, Microbiology and Biochemistry	Team Leader, Indian Arctic Expedition, 2009
4	Dr. P.G. Sankaran	Statistics	Young Researcher Award by International Indian Statistical Association (IISA)
5	Dr. C. A. Francis	School of Management Studies	Air India Excellence Award for Teachers (BOLT)
6	Dr. M. Shanmughan	Hindi	Khasak award for the Malayalam book ‘Uravayilekku kuthikunna puzha’ (Criticism 2009)
7	Dr. K.Mohankumar	Atmospheric Sciences	Nominated to the Advisory committee of Space Physics Laboratory by the ISRO Chairman Dr.G.Madhavan Nair

**16. Internal resources generated**

The total amount generated internally during 2009-10 is **Rs. 18.53 Crores**

**17. Details of departments getting assistance/ recognition under SAP, COSIST (ASSIST)/ DST, FIST and other programmes**

**I. Schools/ Departments getting assistance under SAP are**



**1- CENTRE OF ADVANCED STUDY (CAS)**

- i. School of Environmental Studies (2009- 2014)
- ii. Dept of Statistics (2004- 2009)
- iii. Dept of Polymer Science and Rubber Technology ((2009- 2014)

**2- DEPARTMENT OF SPECIAL ASSISTANCE (DSA)**

- i. School of Marine Sciences (2007-2012)
- ii. Dept of Instrumentation (2007-2012)
- iii. Dept of Atmospheric Sciences (2007-2012)
- iv. Dept of Hindi (2007-2012)

**3- DEPARTMENTAL RESEARCH SUPPORT (DRS)**

- v. Dept of Electronics (2007-2012)

**II. Schools/ Departments getting assistance under DST-FIST are**

- i. Dept of Applied Chemistry (2009-2013- Level-II)
- ii. Dept of Electronics (2005-2009- Level-I)
- iii. Dept of Biotechnology (2009-2013- Level-II)
- iv. School of Environmental Studies (2009-2013- Level-I)
- v. School of Industrial Fisheries (2010-2014- Level-I)
- vi. Dept of Marine Biology(2010-2014- Level-I)

**18. Community services**

- ⌚ The Department of Youth Welfare organized the programme in the campus known as '*prananu vendi oru maram*' for creating deeper commitment to environmental protection among students and youth through planting new trees and started the activities of the Nature Club.

- ⌚ Also the department in association with District Legal Services Authority, Ernakulam has organized anti-ragging awareness programme for the students of Cochin University of Science and Technology. Dr. V. Vijaya Kumar, Additional District Judge, Ernakulam; Mr. K.K Krishnan Kutty, Assistant Police Commissioner, Ernakulam and Adv. George Merlo Pallath, President, Bar Association, Ernakulam spoke on socio-legal aspects and consequences of ragging. Following the inaugural sessions, the Department organized department wise sessions
- ⌚ The department conducted dance and theatre performance on 26<sup>th</sup> of August in the amphitheater of the University
- ⌚ The Centre for Science Communication, Cusat has conducted a painting competition on Environment in connection with the World Environmental day for the school students of Kerala. The topic of the competition is **“Our planet, our environment”**.
- ⌚ CUSAT organized a programme for school children namely **“Inculcate”** which was intended to foster the aptitude of students towards learning subjects of basic Science. 60 students from Government and aided schools, who were selected on the basis of a state level aptitude test were participating in the inculcate program. Laboratory exposure, lecture classes, seminars and projects were the main ingredients of the four day residential program.
- ⌚ **Swine Flu Medical Camp**- The University conducted a medical camp under the auspicious of University Union for the Students of the university on 20.08.09
- ⌚ The Centre for Science in Society of the University (C-SiS) conducts the following programmes during 2009-10

- a) **One Day Attachment Programme (ODAP)** for 19370 school children, 216 schools and 1346 teachers
- b) **Science Talent Development Programme (STDP)** for 331 students

### 19. Teachers and officers newly recruited

Teaching staff recruited during 2009-10: **NIL**

Non-teaching staff recruited during 2009-10: **18**

### 20. Teaching – Non-teaching staff ratio

275:784

### 21. Improvements in the library services

- ⌚ From June 2009 onwards KOHA Integrated System project started
- ⌚ Started Proquest Database subscription
- ⌚ Started Scifinder scholar subscription

### 22. New books/journals subscribed and their value

Books	Amount	Journals			Amount
		Online Data Base	Foreign	Indian	
2116	55 lakhs	5	132	47	60 lakhs

23. **Courses in which student assessment of teachers is introduced and the action taken on student feedback** : all courses

24. **Feedback from stakeholders** : Positive

25. **Unit cost of education** : Rs. 1,36,996

26. **Computerization of administration and the process of admissions and examination results, issue of certificates**

The University started issuing hall tickets of various examinations through online.

### 27. Increase in the infrastructural facilities

- ⌚ Constructed main building at CUCEK campus

- ⌚ Progressing the work of completing the unfinished seminar complex and roofing of the Open air Auditorium

**28. Technology up-gradation**

- ⌚ The NMR Spectrometer worth approximately Rs. 1.4 Crore, have acquired by STIC of CUSAT. This instrument can be utilized by researchers all over the country to record NMR Spectrum of their samples. This is the most powerful NMR Spectrometer installed in South India.
- ⌚ At the library of School of Marine Sciences, issue and return systems are computerized, New OPAC services are introduced, Bar coding of all documents work is progressing.

**29. Computer and internet access and training to teachers, non-teaching staff and students**

- ⌚ The Centre for Information resource Management (CIRM) has conducted one week training on ICT during 15-20 June 2009
- ⌚ CIRM also conducts training programme in database management using MySQL

**30. Financial aid to students**

- ⌚ Number of University Research Scholarships has been enhanced to 150 from 120 during 2009-10
- ⌚ M Phil Scholarship amount enhanced to Rs 1000/- from Rs 600/- per month during 2009-10

**31. Activities and support from the Alumni Association**

All most all departments have individual Alumni Association in addition to the recently launched University Alumni Association. These Alumni regularly conduct seminars, workshops and training programmes in addition to the annual get together.

This Year University Instituted an endowment “CLASSIC- 83” in the Dept of Polymer Science and Rubber Technology with the support from the Alumni of 1983 batch from the department

### **32. Activities and support from the Parent-Teacher Association**

Parent-Teacher Association meets annually. During these meetings suggestions and feedback from parents are obtained.

The University, in association with the PTA of UG departments has introduced a provision in the CUSAT web site- **Students Academic Information System** [<http://wais.cusat.ac.in/index.php>]- to publish all the results of students both internals and externals, which can be accessed by all parents to follow the performance of their wards on a continuous basis.

If the performance of the PG student is consistently poor, the concerned department will inform the matter to the parents. Also the results are informed to the parents at the time of PTA meetings.

### **33. Health services**

The University Health Centre provides health related support to the University Community. Occasionally, the University conducts medical camps in association with hospitals nearby, for staffs and students.

### **34. Performance in sports activities**

The CUSAT Inter-Collegiate Annual Athletic Meet and Games 2009-10 has held at Cochin University Main Campus from 10<sup>th</sup> -28<sup>th</sup> February 2010. All teaching Departments in CUSAT; School of Engineering, CUSAT; CUCEK, Pulinkunnu and 26 recognized institutes / colleges have participated in 12 games and 25 athletic events.

The following are the events and winners:

No	Event	Winners
1	Football (Men)	Winner: COE, Thalassery, Kannur Runner up: KMSME, CUSAT
2	Cricket (Men)	Winner: SOE, CUSAT, Kochi Runner up: COE, Attingal
3	Basketball (Men )	Winner: SOE, CUSAT, Kochi Runner up: MEC, Thrikkakara
4	Basketball (Women)	Winner: SOE, CUSAT Runner up: TOC – H, Arakkunnam
5	Volleyball (Men)	Winner: COE, Kidangoor Runner up: SISAT, Trivandrum
6	Volleyball (Women)	Winner: TOC – H, Arakkunnam Runner up: COE, Munnar
7	Throw ball (Women)	Winner: MEC, Thrikkakara Runner up: COE, Kalloppara
8	Shuttle Badminton (Men)	Winner: SOE, CUSAT Runner up: Main Campus, CUSAT
9	Shuttle Badminton (Women)	Winner: SOE, CUSAT Runner up: MEC, Thrikkakara
10	Table tennis (Men)	Winner: Co-op. Medical College, Kochi Runner up: MEC, Thrikkakara
11	Table tennis (Women)	Winner: MEC, Thrikkakara Runner up: SOE, CUSAT
12	Chess	Winner: Main Campus, CUSAT Runner up: SOE, CUSAT

### 35. Incentives to outstanding sportspersons

- ⌚ Duty leave facility for sports coaching/participation
- ⌚ TA/DA for participation in tournaments
- ⌚ Uniforms for participating in tournaments,
- ⌚ Recognition certificates
- ⌚ Equal opportunities to deserving students
- ⌚ Leadership roles for active sportsmen

### 36. Student achievements and awards

Department	Name of Student	Details of honor / awards
Marine Biology	Dr. Abhirosh Chandran	Best Paper Award Kerala Environment Congress, 2009
Marine Biology	Ms. Jyothi. S	Young Scientist Award ,Kerala Science Congress 2009

Marine Biology	Harsha, H.T	Best Poster Award- Kerala Science Congress Kollam
CELOS	Mr Praveen Cherian	Received SPIE student Scholarships (2009) worth \$1500 each.
CELOS	Mr Rajesh Kumar	Received SPIE student Scholarships (2009) worth \$1500 each.
CELOS	Mr Harikrishnan	Received SPIE student Scholarships (2009) worth \$1500 each.
ISP	Bejoy Varghese,	Research Fellowship in Science for Meritorious Students under the scheme "Centre with Potential of Excellence"
ISP	Rose Leena Thomas	Research Fellowship in Science for Meritorious Students under the scheme "Centre with Potential of Excellence"
ISP	Sreeja S	Research Fellowship in Science for Meritorious Students under the scheme "Centre with Potential of Excellence"
ISP	Sony George	RFSMS SRF participated and completed the summer college on plasma physics at the institute of Physics Trieste, Italy during 10-28th August 2009
Applied Chemistry	Ms. Reni George,	The best poster award in 22nd Kerala Science Congress 2010
Applied Chemistry	Beena S	Best paper awards for the paper presented in National Seminar at Vellore
Applied Chemistry	Leena R	Best poster award in National Seminar at Vijayawada
Statistics	Sudheesh Kumar Kattumannil	Jan Tinbergen Award of International Statistical Institute
Statistics	Hareesh G.	Best Researcher Award of DRDO
Statistics	Rejeesh C. John	Best student paper Award of International Indian Statistical Association
Statistics	Anisha P.	Best student paper Award of Kerala Statistical Association
PSRT	Ms. Anna Dilfi	Best paper award in the Material Science section of the Indian Science Congress
Physics	Smt. A.P. Reena Mary	Best poster presentation in Physical Science category

**37. Activities of the Guidance and Counseling unit**

**Details of activities are given below:**

<b>Particulars</b>	<b>Number</b>
Individual Guidance	168
Visitors to Career Information Room	600
Group Discussion	37
Participants in Group Discussion	205
Career Talk by Deputy Chief	41
Participants in Career Talk	2379

No. of Bulletin Published	12
No. of Coaching Class	10
Participants in the Coaching Class	343
Individual Information	892
Career Seminar	1
Participants in Career Seminar	48

**Details of coaching classes to competitive examinations conducted are:**

Sl No	Name of Coaching Class	Period	No. of Participants			Total
			Gen	SC/ ST	PH	
1	Bank Clerical Examination	14.01.09-04.02.09	37	18	3	58
2	UGC-CSIR NET Life Science Paper I	04.05.09-23.05.09	25	3	-	28
3	UGC-CSIR NET Life Science Paper I UGC Merged Scheme for SC/ST/OBC/Minority Communities	04.05.09-23.05.09	7	2	-	9
4	Junior Telecom Officer (JTO)	18.05.09-05.06.09	53	15	-	68
5	UGC – JRF/NET Humanities Paper I	27.05.09-12.06.09	19	7	-	26
6	UGC – JRF/NET Humanities Paper I UGC Merged Scheme for SC/ST/OBC/Minority Communities	27.05.09-12.06.09	9	11	-	20
7	Social Security Assistant.	17.08.09-31.08.09	8	-	-	8
8	Bank Clerical Examination	05.10.09-27.10.09	38	12	1	51
9	UGC-CSIR NET Life Science Paper I	04.11.09-21.11.09	25	2	-	27
10	UGC – JRF/NET Humanities Paper I	23.11.09-11.12.09	45	2	1	48
<b>Total No of Coaching Classes: 10</b>						
<b>No. Of Participants : Gen. SC/ST P.H. Total</b>						
<b>266 72 5 343</b>						

**38. Placement services provided to students**

Placement service provided to students from training and placement cell of the University are

No. of companies visited: 30

No. of job offers: 439

No. of students placed: 371

Around 75 percent of the Engineering students of various CUSAT Campuses have found placement through Campus selection. The students have managed to find



jobs much before the B.Tech results are out. The students of Safety and Fire Engineering got 100 percent placement. The maximum annual salary offered to students is Rs. 10.5 lakhs, and the minimum offer is Rs. 3 lakhs.

All the students of the Kunjali Marakkar School of Marine Engineering and Department of Ship Technology got placement.

In addition to these the individual PG departments conduct campus recruitments.

**39. Development programmes for non-teaching staff**

The University has conducted a series of training programmes to non-teaching staff of the University namely, “Empowering University Administration”. The first round training covered the entire administrative staff (from the level of ‘Assistants’ to that of ‘Joint Registrar’) and the officer cadre of the Engg Dept staff.

**40. Good practices of the institution**

⌚ The University follows credit system for all PG programmes. By this, the students can obtain the required number of credits from the parent department or from sister departments. This will provide the student an opportunity to select the electives of his/her choice.

⌚ The University has developed a very effective, transparent and rigorous internal mechanism to assess the cognitive ability of students and research scholars as well as to ascertain the level of knowledge, intelligence and articulation they have acquired over time.

⌚ The university has introduced 100% internal assessment for higher post graduate programmes. This facilitates better interaction between student and teacher. Moreover, the results can be declared without any delay.

⌚ Maximum transparency in evaluation process is ensured.

⌚ Teaching-learning process is made effective through a well-planned calendar of events at the beginning of the academic year and adherence to it.

- ⌚ The University conducts an all India level Common Admission Test very effectively every year.
- ⌚ Conducts periodic seminar/symposia/workshops in emerging areas of knowledge.
- ⌚ The University has academic links and exchange programmes with several Institutions/Universities in almost all Continents of the globe.

**41. Linkages developed with National/ International, academic/research bodies**

Many departments have developed linkages with many national and international agencies through collaborative research programmes, research projects and consultancy services. Also, the University has developed linkages with many industries by sending students to these industries for their course project.

- ⌚ The School of Industrial Fisheries have collaborative research with University of Barcelona, Spain and University of Southern Denmark, Denmark,
- ⌚ Kunjali Marikkar School of Marine Engineering have regular contact and communication with Directorate General of Shipping, Mumbai, Institute of Marine Engineers (India), Cochin branch and Mercantile Marine Department, Cochin to update with regard to the latest developments in Marine Engineering in particular and Seafaring in general.
- ⌚ International school of Photonics have conducted an Indo –UK Joint workshop
- ⌚ Dept of Statistics has linkages through collaborative research with Prof. Isha Dewan, Indian Statistical Institute, Kolkata
- ⌚ Dept of Mathematics have linkages through collaborative research with University of Central Florida

- ⌚ Dept of Marine Biology, Microbiology and Biochemistry doing a project with NCAOR, MoES

42. **Action Taken Report on the AQAR of the previous year** : Internally Processed for gains and losses at the time of budget preparation and internal discussions.

**43. Any other relevant information the institution wishes to add.**

- ⌚ Dr. K.L. Sebastian of the Indian Institute of Science, Bangalore was selected for the prestigious **Prof. M.V. Pylee award for the distinguished academician** 2009. The M.V. Pylee Award has been instituted in Cochin University of Science and Technology, to honor University teachers who distinguish themselves with dedication and commitment in teaching and research.
- ⌚ The **Erudite** programme launched by the Government of Kerala to invite scholars including Nobel laureates from various part of the world begins at CUSAT. The University has conducted a total number of 33 interactive sessions under various faculties under this scheme and about 31 eminent academicians from India and abroad visited during 2009-10.
- ⌚ Also **Prof. Zhores I. Alferov** , St. Petersburg Scientific Centre, (Nobel Prize winner for physics in the year 2000) and **Prof. Roger. Y. Tsien**, University of California San Diego (Nobel Prize winner in Chemistry in the year 2008) visited CUSAT under **“The Nobel Laureates visiting programme”**
- ⌚ The Council of Scientific and Industrial Research (CSIR) has invited the Inter- University Centre on Intellectual Property Rights of the CUSAT to join its ambitious Open Sources Drug Discovery (OSDD) programme.
- ⌚ During the year the University celebrated National Science Day, World Environmental Day, National Technology Day
- ⌚ During 2009-10, the university has awarded 112 PhD Degrees.

- ⌚ STIC has installed NMR Spectrometer of worth Rs.1.4 Crore and started extending analysis services to users with this instrument. This instrument can be utilized by researchers all over the country to record NMR Spectrum of their samples. This is the most powerful NMR Spectrometer installed in South India.

## **SECTION- C**

### **Outcomes achieved by the end of the year**

- ⌚ ICMR, Govt of India, has sanctioned Rs.30.13 Crores to Dept of Biotechnology for the research project in Stem Cell Therapy in Parkinson's disease.
- ⌚ Govt of Kerala has sanctioned financial assistance of Rs.7.6 Crores to establish three Inter University Centres
  - a) Rs. 3 Crores for **Inter University Centre for Nano Materials and Devices**
  - b) Rs. 1.6 Crores to **Inter University Centre for marine Bio Technology**
  - c) Rs. 3 Crores to **Inter University Centre for IPR studies**These Centers have started functioning.
- ⌚ The Nano Mission of the Department of Science and Technology has sanctioned a Rs.5 crore project titled “Centre for Nano materials and Devices” to the Department of Physics, Cochin University of Science And Technology. The proposed project is on the development of oxide nano structured materials for opto-electronics applications and nano structured materials for sensors.
- ⌚ DST has sanctioned an amount of Rs.80 lakhs to Dept of Applied Chemistry for FIST programme.
- ⌚ UGC has sanctioned an amount of Rs.43 lakhs to Dept of PS & RT under SAP programme.
- ⌚ A University -Industry Incubation Centre has been established in CUSAT.
- ⌚ DST has sanctioned an amount of Rs.1.8 Crores to CUSAT for the functioning of STIC.

- ⌚ The Nano Mission of the Department of Science and Technology, Govt of India, has sanctioned an amount of 5 crore for the conduct of the project "Centre for Nano Materials and Devices" in the Department of Physics.
- ⌚ The University has started a Women's Study Centre with the support of UGC and the centre would focus on teaching, training and research on women's issues.
- ⌚ CUSAT has successfully implemented the training programme for officers at various levels, in a series of sessions to improve the administrative abilities of Non teaching staff.
- ⌚ CUSAT has started the much demanding and income generating "Engine room simulator course" for Marine Professionals, in KMSME.
- ⌚ DST has sanctioned an amount of Rs.74.5 lakhs to School of Environmental Studies for Infrastructure built up. Besides, the School has received an amount of Rs.37 lakhs under SAP at the level of DRS Phase I for thrust area research.
- ⌚ CUSAT and the St. Petersburg Scientific Centre of the Russian Academy of Science have signed a MoU for Academic and Educational Co-Operation and promote mutual understanding between the two organizations
- ⌚ Also signed a MoU with University of Bergen (Norway) in studying the Ocean biosphere with the aid of remote sensing. Nansen Environmental Research centre India and Nansen Environmental and Remote Sensing Centre, Norway will also collaborate with the project.
- ⌚ Increased M.Phil scholarship to from Rs.600 to Rs 1000
- ⌚ Number of University Research Fellowships increased from 120 to 150
- ⌚ Created separate pension fund for main University and each self financing institution.
- ⌚ CUSAT team of Students who represented the 25th South Zone Inter University Youth Festival held at Mysore, won first in Mime and Second in Mimicry. The team also won first in Mimicry and second in mime in the National Youth Festival held in M. D. University, Rohtak, Haryana.
- ⌚ CUSAT has established Equal Opportunity Cell (EOC) to increase the access and equity for marginalized groups like SC/ST/OBC (non-creamy layer) and minority groups, and to make higher education inclusive.

## **SECTION- D**

### **Plans of the University for the next year**

- ⌚ To Establish a Centre for Innovation, Technology Transfer and Industrial Collaboration.
- ⌚ To Establish a Centre for Alternate Energy Sources
- ⌚ To Establish Justice V. R. Krishna Iyer Chair for Human Rights
- ⌚ To Establish Inter University Centre for Studies on Kerala Legacy of Astronomy and Mathematics (IUCKLAM)
  
- ⌚ To Establish M. V. Pylee Chair for Holistic Development of Kochi
- ⌚ To start two new M.Tech programmes- M.Tech Computer Science with Specialization in Embedded System and Electrical with specialization in Power Electronics
- ⌚ University Research Fellowships to be increased from Rs.5000/- to Rs.7500/- per month
- ⌚ University Post Doctoral fellowship to be increased from Rs.10000/- to Rs.12500/- per month

**Dr. A.N.BALCHAND**  
**Director, IQAC**

**DR.K.POULOSE JACOB**  
**Chairperson, IQAC**

**&  
Pro-Vice-Chancellor (i/c of V.C)**