

**PAZHASSI RAJA N S S COLLEGE,
MATTANUR**

[ACCREDITED BY NAAC WITH 'B' GRADE]

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**Annual Quality Assurance Report
(AQAR) 2011-12**

Submitted to

THE NATIONAL ASSESSMENT AND
ACCREDITATION COUNCIL

BANGALORE

JULY 2012

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Section A

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

The Internal Quality Assurance Cell of Pazhassi Raja NSS College, Mattanur has been working effectively for quality up gradation and to improve the academic and infrastructural atmosphere of the college since 2009. During the current year two more teachers were included in the IQAC as part of elaborating the plan of action and effective implementation of programmes aimed for progressive performance of academic and administrative tasks. Dr.T.P.Raveendran took over the charge of coordinator in place of Dr. T.L.Remadevi who relinquished the post for concentrating more on research work.

Constitution of IQAC:

Principal and Chairman : Prof. P Muraleedharan

Coordinator : Dr T P Raveendran (Botany)

Members : Dr T L Remadevi (Physics)

: Dr. K. Pradeep Kumar(Chemistry)

: Dr A V Hemalatha (Commerce)

: Mr. P T Muraleedharan (Physical Education)

: Dr Saji Kurup (Hindi)

: Smt Meena Shankar (English)

: Sri K K Bharathan (Junior Superintendent)

: Sri V C Jayaprasad (Administarive staff)

: Sri Vijayakumar (Social activist) - Local community member

: Prof K Kunhikrishnan (Rtd. HOD, Mathematics) - ,, ,, ,,

The IQAC met during May 2011 resolved to undertake various programs to strengthen the curricular, co-curricular and extra-curricular activities of the college and also to address the recommendations and challenges pointed out in the NAAC Peer Team Report. The following programmes were planned for the academic year 2011-12.

- Preparation of an Academic Calendar for the college with schedule of admission, classes, examination, publication of results, tutorial sessions, union activities, important days to be observed, staff meeting and PTS/PTA meetings.
- Maintain Teacher's Work Diary by all faculty members to keep the record of all activities in and outside the campus.
- Attain 100% computer literacy and promotion of ICT techniques in class rooms.
- Organizing an orientation programme to I semester UG students to familiarize the history, organization, infrastructure, services and functioning of the college.
- Arranging one day workshop on ICT learning exclusively for teachers to widen their understanding on new trends in teaching and learning process.
- Suggested to conduct motivation classes/camps to all freshers by the respective departments to provide necessary information on the scope of the subject in higher education scenario.
- Strengthen remedial teaching to uplift slow learners.
- Orientation for all parents regarding the newly introduced Direct Grading System in evaluation and Choice Based Course Credit and Semester system.
- Arrange a workshop for teachers to familiarize with the preparation of proposals for research projects for various funding agencies.

- To undertake an awareness campaign on “Clean Green Campus” by NCC, NSS, College Union, Staff club and all departmental clubs.
- Organizing a one day seminar for selected students on “The role students in quality sustenance in educational institutions”.
- Organizing a three day workshop on Informatics in collaboration with Kerala State Higher Education Council for all teaching and administrative staff.
- To identify students interested in Arts and Sports well in advance and give them special coaching to improve the standard to perform in College and University festivals/meets.
- To entrust teachers to engage sessions on relevant and contemporary topics for selected students every month under the supervision of IQAC.
- To convene a meeting of student representatives of NCC,NSS, College Union, departmental and general clubs to know their opinion and suggestions on the quality initiatives undertaken so far.
- Preparation of a budget for the college for the financial year 2011-12.
- To organize three National Seminars funded by UGC by Physics, Commerce and Zoology departments.
- To submit a proposal to NAAC for funding a National Seminar on Quality sustenance in Higher education Institutions during the academic year.
- To upgrade and modify college website with more information and links.
- To publish news letters by all departments to highlight their activities.
- To publish “Impressions”, the annual news letter of the college.
- To form an Art, Photography and Publication unit in the college with the support of interested staff and students.

- To start short term computer courses in DTP and Data Entry Operation.
- Providing all possible guidance and support to teachers for Academic Development.
- Extending the service of career guidance and placement cell to all students.
- Close monitoring and strengthening of all externally funded programmes and research projects.
- To strengthen extension activities through NSS, NCC and other forums in the college.

Section B

Details in respect of the following:

1. Activities reflecting the goals and objectives of the institution:

The IQAC took keen interest in the planning and execution of various quality initiatives to fulfill the vision and mission of the college. Curricular, co curricular and extra curricular activities were planned well in advance to prepare the annual academic calendar which was being circulated to all departments as guidelines for schematic functioning. Departmental meetings convened before the commencement of the academic year chalked out their action plan. Departmental clubs, elected association secretaries of the college union and departmental alumni collectively organized subject related academic exercises viz., talks, seminars, workshops, exhibitions, interactions and field trips. Extra curricular and extension activities were organized by NSS, NCC, nature club, women cell, students' union, arts club, PTA and alumni in association with NGOs and local bodies. Important activities taken up to reflect the goals and objectives of the institution are as follows.

- Eligible candidates were given admission to the college strictly adhering to the reservation policies of the government to provide equity and opportunity for the backward sections of the society. Publication of the schedule of admission through local

news papers, college notice board and college website resulted in transparency and accessibility. A duly constituted admission committee monitored the whole process to ensure accountability. All selected candidates belonging to low income group were given support and guidance to get fee concession and other financial benefits available to them.

- Orientation programme for I semester students to familiarize the history, functioning and infrastructure of the institution and the academic and administrative services provided to them. The details of course pattern, internal assessment, evaluation methods were also explained during the session.
- Election to the college students' union was conducted under the supervision of a Returning officer and election committee to inculcate the importance of democratic values in students.
- Aptitude test, sessions engaged by teachers on relevant and current topics, career guidance and counseling were imparted to students for recognizing their latent talents and setting goals in life.
- Interaction with successful alumni, outstanding personalities from various fields and students and staff from other institutions resulted in providing more exposure and self confidence to students to meet global standards.
- All departments conduct remedial coaching for the benefit of slow learners and arrange peer teaching by advanced learners.
- Coaching classes for entry in state/central services were offered to students from SC/ST/OBC/Minority and other backward communities to give additional support in their search for jobs.

- A separate section was established in the administrative office to address the needs and requirements of students related to various scholarships and fee concessions, to make qualitative changes in student support and assistance.
- Out reach programmes like construction of a house in a Harijan colony, adoption of a village, blood donation, road construction and repair and town cleaning before monsoon were few activities carried out by the NSS and NCC.
- Organized national seminars, regional seminars and workshops funded by UGC, Kerala State Higher Education Council, Kerala State Council for Science Technology and Environment and Kerala State Biodiversity Board for updating the knowledge and acquainting with the current developments in various disciplines.
- Campaign for environmental protection and effective waste management was organized under the auspices of nature club, NCC and NSS.
- Festivals like Onam, X'mas and Bakrid were celebrated jointly by staff and students for inculcating multicultural values and team spirit among youth.
- Annual Merit Fest was organized jointly by PTA, Alumni and students' union to congratulate and motivate toppers in the university examinations, competitions held in connection with arts festival and sports meet.

2. New academic programmes initiated (UG and PG) :

In order to start new courses in aided colleges, sanction from Government and University is required. This academic year also we couldn't start any new programme due to the restrictions imposed by the Government. However, a Foundation course on Human rights education was started by the Economics Department for second and third semester students with the support of UGC.

3. Innovations in curricular design and transaction:

Kannur University has implemented Choice Based Course Credit and Semester system for UG programmes in 2009 which resulted in hectic academic schedule demanding new teaching learning strategies for a speedy and efficient transaction of the curriculum. Designing the curriculum is done by the academic bodies of the University in which many of our faculty members are contributing profoundly. We practiced the following for the effective implementation of the curriculum.

- Discipline wise orientation was given to students on the scheme and features of the new curriculum with emphasis on grading pattern of evaluation.
- Continuous evaluation strategies were modified to meet the new evaluation pattern.
- Feed back taken from students and alumni on curriculum and results of UG programmes were analysed in the college council and departmental meetings to identify the problems.
- Corrective measures and suggestions were communicated to the concerned Boards of Studies through the Head of the department/Principal/members in the academic bodies.

Further, many of our faculty members were deeply involved in making timely modifications in the curriculum through their presence in the statutory academic bodies of Kannur University like Board of Studies, Academic Council, Faculty of Sciences, Social Sciences, Management studies and languages.

The following teachers of our college were nominated in the Board of Studies of Kannur University for the year 2010-12.

P.Muraleedharan (Principal) : (Member-Zoology BOS-UG)

Dr T L Remadevi : (Chair person- Physics-UG)

Dr N Sumitha Nair : (Chair person, Dance Combined)

Smt K N Vijayalakshmi	: (Member- Commerce-PG)
Sri M Vijayan	: (Member- Commerce-PG)
Dr T P Raveendran	: (Member, Botany-PG)
Dr Mahesh Kumar M	: (Member, Zoology-UG)
Dr P P Lakshmanan	: (Member, Commerce, UG)
Dr K B Vidhya	: (Member, Economics, UG)
Smt.Deepa K	: (Member, Electronics-UG & PG Combined)
Smt. Lekha P	: (Member, Hindi-UG)
Smt Meena Shankar	: (Member, English-UG)
Sri. M K Satheesan	: (Member, Chemistry-UG)

IQAC has initiated many steps to facilitate the curricular transaction through ICT for which the following programmes were conducted.

- A seminar on ICT in teaching learning process to empower teachers was organized on 2.8.2011. Dr. Rajan Varghese, NAAC Peer team Member attended as pilot faculty.
- A three days workshop on Informatics from 25.8.2011-27.8.2011 for teaching faculty and administrative staff. The sessions include modern trends in IT, familiarization of operating systems, e governance, bio computing, cyber laws, free software, academic websites etc. The programme was sponsored by Kerala State Higher Education Council.

One smart class room each for every department was set up for the effective transaction of the curriculum. In addition the departments also organized many talks, seminars, exhibitions and workshops in this direction.

- English-Celebration of William Faulkner week, Newspaper reporting, screening of films, lecture on journalism and mass communication.

- Hindi- Weekly student seminars, exercises on translation, activities for developing communicative skills by Hindi Sahitya Samithi, Various programmes in connection with Hindi Pakshacharan.
- History-Quiz competitions on Indian Nationalism and Gandhiji's life and principles, talk on megalithic culture in Kerala, Pazhassi Raja commemoration.
- Economics- documentary on 'Neoclassical perceptions of Life', release of manuscript magazine "Dwani", quiz competitions.
- Mathematics-Lecture on "Fourier series and its applications", debates, quiz competitions, puzzle solving exercises, Sudoku, Mathematical talent search test for higher secondary students and seminars on Ancient Indian Mathematics and Graph Theory.
- Physics-Interdisciplinary poster competition on "Nuclear energy- a boon or bane" in connection with Hiroshima day observance, virtual lab demonstration, National science day celebrations with talks on Nuclear safety, Non conventional energy sources and poster presentation on safe energy options, visit to research institutes.
- Chemistry-talk on Chemistry in every day life, quiz competition on environmental chemistry, science exhibition in connection with National Science Day, talks by outstanding alumni, seminars on Biodegradable polymers and Biodiesel, industrial visits to factories and research institutions.
- Zoology- release of bulletin "skylark", exhibition of laminated and framed photographs of Great scientists in the reading room, Dr. Balamani Memorial Lecture and endowment presentation and a week long study tour to V semester students to Palani, Madhurai, Rameswaram and Ooty and research stations and museums.

- Commerce- talk on psychological approach and soft skill development, seminar on financial literacy, large scale participation of students in the management fests and business quizzes.
- Botany- preparation of teaching aids such as charts, models and CDs by students, campus flora study, excursion to Calicut university botanic garden, talk on plant identification and herbarium techniques, Germplasm collection of fruiting plants in connection with the campus biodiversity enhancement programme of Kerala State Biodiversity Board.
- Malayalam-versification competition, translation practice to interested students and screening of a documentary to create ecological awareness

4. Inter-disciplinary programmes started:

A foundation course in 'Human rights education' was started this year under the financial assistance from UGC. Forty under graduate students from different disciplines are attending the programme. Dr. Sumitha Nair of Malayalam department gave a talk on Rasasidhantha to the students of English literature.

The following teachers engaged sessions on various topics for students selected after a talent hunt by IQAC.

Dr. T P Raveendran- Global Climatic Change- causes, problems and management-8.7.2011

Dr. Saji R Kurup- Essence of Carnatic music – 15.7.2011

Dr. T L Remadevi – Research methodology – 29.7.2011

Adv. K S K Nambiar – Elementary lessons in Law – 5.8.2011

Open courses provided by the following departments are interdisciplinary offering academic flexibility and choice for the students studying in the 5th and 6th semesters.

English- English for competitive exams, English for business purposes

Hindi- Environmental studies, Folklore studies

Economics- Kerala economy, Health economics

History- Social reform movement in Kerala, India's struggle for freedom

Mathematics- Astronomy, Principles of Computer Science

Physics- Environmental Physics, Non-conventional energy sources

Chemistry- Nanomaterial synthesis and practice, Environmental chemistry

Zoology- Apiculture and Sericulture, Aquaculture

Commerce- Basic Accounting, Insurance and Risk Management

Physical Education- Physical health and life skills education, Dimensions of Physical education

5. Examination reforms implemented:

The continuous and comprehensive evaluation of the students was conducted by the concerned teachers as per the guidelines given by the University. Grievances in this connection are addressed by departmental committees and college level committees under the chairmanship of the Principal. Unit tests were conducted regularly to assess the performance of students. The midsem/ midterm examinations of all classes were conducted under the supervision of an examination committee. The committee also conducts end semester examination of the university with the help of a separate section working with the administrative office. All these examinations were centrally arranged to ensure accountability and transparency. A three day workshop on Exam Reforms funded by UGC was organized for V semester students of the college from 27th July to 29th July 2011 to give proper orientation and to sort out the problems faced in connection with the implementation of CCSS.

6. Candidates qualified: NET/SLET/GATE etc. – One student of M Com qualified in NET.

7. Initiative towards faculty development programme:

The faculty members were encouraged to attend various seminars/ conferences conducted by other institutions and to avail Faculty Improvement Programme by the UGC to carry out research work.

Details of teachers attended orientaion/ refresher courses-

Name of the teacher	Type of Course	Institution attended	Date
Dr. Gayathri N	Orientation course	ASC University of Kerala	5.1.2011 to 1.2.2011
Dr. Mahesh Kumar M.	Refresher course	ASC, Kannur University	2.12.2011 to 23.12.2011
Reena	Orientation course	ASC, Kannur University	4.7.2011 to 30.7.2011

Number of teachers attended International seminars/conferences-4

Name of the teacher	Department	Place where International seminar attended	Topic of International seminar
Dr.P P Lakshmanan	Commerce	Kristu Jayanthi College, Bangalore	Innovations in Management practices (ICIMP)
Dr.A V Hemalatha	Commerce	Kristu Jayanthi College, Bangalore	Innovations in Management practices (ICIMP)
P T Muraledharan	Physical education	World University centre, Chennai	Physical education and yoga new prospectives
Shaji E V	Commerce	Kristu Jayanthi college, Bangalore	Innovations in Management practices (ICIMP)

Details of teachers attended National seminars/conferences outside the college are shown in the table.

Name of the teacher	Department	Place where National seminar attended	Topic of National seminar
Dr Gayathri N.	Hindi	MG College, Trivandrum	Modern Hindi Literature
Dr Gayathri N.	Hindi	NSS College, Changanacherry	Modern Hindi Literature
Dr. Saji R Kurup	Hindi	Kristu Jayanthi College, Bangalore	Innovations in teaching learning and unique practices
Dr. Saji R Kurup	Hindi	CUSAT	Indianness in contemporary Hindi and Malayalam criticism
Dr. Asha P K	Hindi	S S College, Thaliparamba	Translation
Dr. Asha P K	Hindi	Govt. Brennen College, Thalassery	Contemporary Hindi Literature
Dr. Asha P K	Hindi	Kannur University Campus, Nileswaram	Contemporary Hindi Literature
Biju P K	Mathematics	Govt. Brennen College, Thalassery	New perspectives in Modern Mathematics
Dr. P P Lakshmanan	Commerce	NSS College, Manjeri	Role of Banks in the promotion of Financial inclusion
Dr. A V Hemalatha	Commerce	Kristu Jayanthi college, Bangalore	Innovations in teaching, learning and research and unique practices
P T Muraleedharan	Physical education	NSS Hindu college, Changanassery	Climate change- new challenges in Human rights
P T Muraleedharan	Physical education	NAM College, Kallikandi	Physical education and life skill
Dr. Raveendran T P	Botany	NAS College, Kanhangad	Strategies of Reaccreditation
Dr. T L Remadevi	Physics	NAS College, Kanhangad	Strategies of Reaccreditation
Santhosh Kumar R	Economics	MA College, Kothamangalam	Goods and Service Tax and Effect on the Economy
Meena sanker	English	Besant college Mangalore	Emerging images of women in Indo-Anglian fiction in English
Meena sanker	English	St Aloysius college Mangalore	Themes in Indian writing in English

Number of teachers who availed FIP for completing their doctoral degree- 5

Details are given below.

Name of the teacher	Department
Prasanna M K	Chemistry
Mohanakrishnan M	Chemistry
Abraham George	Commerce
Deepa K	Physics
Lekha P	Hindi

8. Total number of seminars/workshops conducted: 3

Three National seminars with the financial assistance from the UGC were organized.

- National seminar on “Emerging trends in optoelectronic and solar energy materials- EOSN 2011” was organized by the Department of Physics on 23rd and 24th September 2011. Resource persons from CUSAT, NIT-Calicut, Mangalore University and Bharathiar University handled the sessions. An exhibition of solar energy products was also arranged for the delegates in association with Ammini Solar Pvt. Ltd., Trivandrum.
- National seminar on “Indian Capital Market in the globalised scenario” was organized by the Post Graduate department of Commerce on 6th and 7th January 2012 in collaboration with North Malabar Chamber of Commerce, Kannur. Eminent resource persons from CUSAT, University of Kerala, Mangalore University, Kannur University and renowned Chartered Accountants and Investment Strategists attended.
- National seminar on “Faunal diversity of Kerala- Faunalia 2012” was organized by the Department of Zoology on 23rd and 24th March 2012 in collaboration with Zoological Survey of India. Experts from Kerala Forest Research Institute, Kerala State Biodiversity Board, Zoological Survey of India, Malabar Natural History Society, ATREE- Bangalore and SACON Coimbatore engaged the sessions.

- National Assessment and Accreditation Council, Bangalore has sanctioned financial assistance for conducting a National seminar on Innovative practices for Quality enhancement in Higher Educational Institutions on June 28th and 29th 2012.

9. Research projects a) Ongoing; b) Completed:

a) Ongoing major project

- **Principal Investigator** - Dr T L Remadevi, Dept. of Physics

Topic: Optical and electrical characterization of wide band gap semiconducting thin films prepared from novel photochemical deposition method

Funding agency: KSCSTE, Govt of Kerala

Ongoing minor projects

- **Principal Investigator** -Lekha P , Dept of Hindi

Topic: Problems of adolescence and sexual psychology in the short stories of Mannu Bhandari

Funding agency-UGC

- **Principal Investigator-** Satheesan M K , Dept. of Chemistry

Topic: Synthesis and characterization of metal oxide nano particles for optoelectronic applications.

Funding agency-UGC

b) Completed minor projects: 5

10. Patents generated, if any: Nil

11. New collaborative research programmes:

Research department of Chemistry collaborated a work on the topic” Optical and electrical properties of silver ion doped nano titania” with Department of Physics, University of Calicut.

12. Research grants received from various agencies:

Major Project- 12.82L (KSCSTE)

Minor Project – 1.825L (UGC)

Contingency grant released to FIP awardees – Rs.30000/-

13. Details of research scholars

Name of the Research scholars	Discipline	Parent institution	Institution where research work is carried out	Full time under FIP or part time
Prasanna M K	Chemistry	Pazhassi Raja NSS college	Pazhassi Raja NSS college	Full time-FIP
Smt. Surabhi	Chemistry	Govt Polytechnic, Mattanur	”	Part- time
Sajini M K	Chemistry	Higher secondary school, Anjarakandy	Pazhassi Raja NSS college	Part- time
M K Satheesan	Chemistry	Pazhassi Raja NSS college	C-MET, Thrissur	Part- time
Mohanakrishnan M	Chemistry	Pazhassi Raja NSS college	University of Calicut	Full time FIP
Deepa K	Physics	Pazhassi Raja NSS college	Pazhassi Raja NSS college	Full time FIP
Preetha K C	Physics	S N College, Kannur	”	Full time FIP
Ragina A J	Physics	NAS College, Kanghagad	”	Full time FIP
Murali K V	Physics	NAS College, Kanghagad	”	Full time FIP
Dhanya A C	Physics	Project fellow, Pazhassi Raja NSS college	”	Full time
Abraham George	Commerce	Pazhassi Raja NSS college	Nirmala College, Muvattupuzha	Full time FIP
Lekha P	Hindi	Pazhassi Raja NSS college	Govt. Brennan College, Thalassery	Full time FIP
Biju K	Mathematics	Pazhassi Raja NSS college	Payyanur College	Part-time
C Padmanabhan	English	Pazhassi Raja NSS college	M G university, Kottayam	Part-time
P T Muraleedharan	Physical education	Pazhassi Raja NSS college	MG University Kottayam	Part-time

14. Citation index of faculty members and impact factor:

Publications by faculty members:

Refereed journal-

1. Comparative studies on structural, optoelectronic and electrical properties of SILAR grown PbS thin films from acidic, neutral and alkaline cationic reaction bath- T. L. Remadevi & K. C. Preetha ISSN 0957-4522 J Mater Sci: Mater Electron
DOI 10.1007/s10854-012-0696-7
2. Photoassisted chemical deposition of nano crystalline ZnS thin films from aqueous alkaline bath-T. L. Remadevi*- and A. C. Dhanya -**Archives of Physics Research**, 2011, 2 (4):128-136
3. UV irradiated wet chemical deposition and characterization of nanostructured tin sulfide thin films - A.J.Ragina, K.V.Murali, K.C.Preetha, T.L.Remadevi- Materials Science in Semiconductor processing (elsevier)- Accepted in J Mater Sci: Mater Electron
4. Effect of Al incorporation on the Structural, morphological, optoelectronic and transport properties of PbS thin films, Accepted in Physica B
5. Dr. K Pradeep kumar's paper entitled "Normal, solvothermal and microwave assisted synthesis and characterization of Thiophe-2-aldehyde phenyl hydrazone complexes" was accepted for publication by the Asian Journal of Chemistry.

Non-refereed journals having ISSN/ISBN numbers

1. Behavior of chemically deposited PbS thin films subjected to two different routes of post deposition annealing, K.C.Preetha^{1,2*}, T.L.Remadevi^{1,3}, Materials Science in Semiconductor Processing (revised and submitted)
2. Influence of ammonia, lithium hydroxide and hexamine on ZnO nanostructures synthesized by a single step soft chemical route – K.V.Murali,* K.C.Preetha, A.J.Ragina, K.Deepa, T.L.Remadevi **Thin Solid films** (revised and submitted)
3. Dr A V Hemalatha published a paper entitled "Women empowerment through SHGs- an analytical study of entrepreneurial development" in Parivartan, Journal of Management research, Mumbai (Vol-I, Issue I, Jan 2012.with ISSN 2277-7555)

Articles/papers published

1. Studies on Gold Doped Lead Sulphide Thin Films Grown by Silar Technique, K. C. Preetha, K. V. Murali, A. J. Ragina, K. Deepa, and T. L. Remadevi, AIP Conference Proceedings, Materials Physics and Applications 1391 pp. 749-751 Published; ISBN978-0-7354-0960-6
2. Optical Red shift in ZnO Nanoflowers Fabricated on Non-Seeded Substrates by Soft Wet Chemical Route- K.V.Murali, K.C.Preetha, A.J.Ragina, K.Deepa, T.L.Remadevi -AIP Conference Proceedings, Materials Physics and Applications 1391,561-63 (2011)
3. A Study of Optical Parameters of Tin Sulphide Thin Films Using the Swanepoel Method- A.J.Ragina, K.V.Murali, K.C.Preetha, K.Deepa, T.L.Remadevi- AIP Conference Proceedings, Materials Physics and Applications 1391,752-54 (2011)
4. Tailoring Optical Properties of Nanocrystalline ZnS Thin Films by Doping with Aluminium for Window Layer Applications- K. Deepa, K.C. Preetha, K.V. Murali and T.L. Remadevi (**Conference proceedings**)
5. Influence of Concentration of Complexing Agent on the Physical Properties of Photo Chemically Deposited Nano Structured Tin Sulphide Thin Films-A.C. Dhanya , K. Deepa , A.J. Ragina and T.L. Remadevi (**Conference proceedings**)
6. Photo Accelerated Chemical Deposition Technique for the synthesis and Characterization of Lead Sulphide Thin Films- K.C. Preetha and T.L. Remadevi (**Conference proceedings**)
4. A paper entitled “Mikhail Bakhtin and the perception of the Carnavalesque: Robert Kroetsch’s Gone Indian” was presented by Dr. Rakhi Raghavan at a seminar on Recent trends in Literary theory organized by Govt. Brennen College on 16th and 17th Feb.2012.
5. Dr. Gayathri N published 2 articles in Kerala Jyothi and one paper in Sangradhan
6. Dr. Gayathri N presented a paper entitled “ Samakaleen kavitha mem Vidrog” in the National seminar on contemporary hindi literature held at MG College, Trivandrum.
7. Dr. Gayathri N presented a paper entitled “ Samakaleen kavitha mem naree” in the national seminar held at NSS Hindu college, Changanacherry.
8. Dr. Saji R Kurup published an article in Anuseelan published by CUSAT.
9. Dr Asha P K presented a paper in the National Seminar on Translation at Sir Syed College, Taliparamba held on 15th and 16th Dec.2011

10. Dr. Asha P K presented a paper in the National seminar on Contemporary Hindi Literature at Kannur University campus, Nileswaram on 5th and 6th Jan.2012.
11. Dr. Asha P K presented a paper in the National seminar on Contemporary Hindi Literature at Govt. Brennen College, Thalassery on 2nd and 3rd Feb. 2012
12. Dr. Smitha R Nair published 2 papers in Keralajyothi.
13. Dr. P P Lakshmanan presented a paper in the National seminar on Role of Banks in the promotion of financial inclusion at NSS College, Manjeri on 22.9.11-24.9.11
14. Dr P P Lakshmanan presented a paper in the National seminar on the Role of Merchant Banking in the Indian Capital market held at PRNSS College, Mattanur on 6th and 7th Jan.2012.
15. Dr A V Hemalatha presented a paper entitled "Microfinance- a way forward to capital Market" in the National seminar on the Role of Merchant Banking in the Indian Capital market held at PRNSS College, Mattanur on 6th and 7th Jan.2012.
16. P T Muraleedharan presented a paper entitled "Impact of climate change on Human health" in the national seminar on Climate change –new challenges in human health at NSS Hindu college, Changanassery on 20th and 21st Oct.2011.
17. Shaji E V presented a paper in the National seminar on the Role of Merchant Banking in the Indian Capital market held at PRNSS College, Mattanur on 6th and 7th Jan.2012.
18. Dr K Pradeep Kumar presented a paper entitled "Normal and solvothermal synthesis, characterization and antibacterial evaluation of Nickel (II) and Zinc (II) complexes of a Heterocyclic hydrazone with sulphur a heteroatom" in the national seminar on emerging trends in Optoelectronics and solar energy nanomaterials- September 2011.
19. Dr K Pradeep Kumar presented a paper entitled "a comparative study of the normal solvothermal and microwave assisted synthesis, characterization and antibacterial activities of Nickel (II) , Copper (II) complexes" in the national seminar on uptrends in chemical science and Technology at NSS Hindu College, Changanacherry on 15th and 16th March 2012.
20. Mr. Padmanabhan C presented a paper titled "Discipline Culture at the National Seminar on Higher Education in India: challenges and prospects" held at Kannur University on 13th to 15th dec.2011.

International Conference publications-

1. Dr. K Pradeep kumar presented a paper entitled “Effect of silver doping on dielectric properties of anatase – TiO₂ nanoparticles synthesized by a low temperature hydrothermal method” in the International conference on Nanoscience and technology at CIT Coimbatore.
2. Dr. K Pradeep kumar presented a paper entitled “ Electrical and optical properties of silver doped Anatase TiO₂ nanoparticles enhanced thermal stability- a low temperature hydrothermal synthesis” in the International conference on Nanoscience and technology at CIT Coimbatore.
3. Dr. K Pradeep kumar presented a paper entitled “A comparative study of structure and biological activities of transition metal complexes of Thiophene-2-aldehydephenyl hydrazones prepared by normal and solvothermal methods” in the International conference on Nanoscience and technology at CIT Coimbatore.
4. Dr. P P Lakshmanan presented a paper on Investment decision in Jack fruit processing Units- a comparative analysis in the International conference held at Kristu Jayanthi college, Bangalore on 20th and 21st April 2012.
5. Dr A V Hemalatha presented a paper entitled “Joint Liability Groups- an innovative method for entrepreneurship development of rural women in Kerala” at Kristu Jayanthi College, Bangalore on 20th and 21st April 2012.
6. P T Muraleedharan presented paper entitled “ Heart rate variability Biofeedback: A potential tool for dealing with competitive anxiety- a preliminary investigation among basket ball players” in the International conference on Physical education and yoga new prospective at Tamilnadu Physical Education University, Chennai on march 2012.

Chapters contributed to edited volume published with ISBN/ISSN numbers

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

16. Internal resources generated:

PTA-	Rs. 6,21,050
College Union Fund-	Rs. 1,54,291
General Alumni-	Rs. 26,800
Photocopy service-	Rs. 24,608
Computer lab collection –	Rs. 63,500

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

The Dept. of Chemistry got financial assistance of Rs.15000/- to conduct programmes in connection with “National Science day” celebrations from KSCSTE, Thiruvananthapuram.

Department of Botany received a grant of Rs.8000/- from Kerala State Biodiversity Board for maintaining a garden to conserve the germplasm of indigenous fruiting plant in the region under Campus Biodiversity Enhancement Programme.

Department of Zoology got Rs.23000/= from Kerala State Council for Science Technology and Environment for organizing programmes in connection with World Environment Day and National Science Day.

18. Community services:

- The college offers quality education to the economically and socially weaker sections of the society in a nominal and affordable cost.
- Arranged scholarships to a large number of the students by channelizing all available funds from central-state governments and NGOs.
- Free coaching for students and outsiders belonging to SC/ST/Minority/OBC and other backward communities for getting entry in State/Central government services.

- Two NSS units, NCC unit, Nature Club, Staff club and departmental clubs made significant contributions to the society by providing both financial and physical support.

National Service Scheme

- Adoption of a Harijan colony at chavasseriparambu in collaboration with local bodies and government agencies. Distributed study materials to the students there on Aug.15th.
- Vana Mahotsav(July1st- 7th) during the Mansoon season by planting saplings and also by cultivating vegetables in the campus.
- 100 volunteers attended Palliative care programmes, anti drug campaign and cancer survey in connection with Sanjeevani Cancer Detection Programme in Mattanur Municipality (Sept. 1st- 14th)
- Freedom rally, traffic awareness programmes, food donation to Orphanage (Oct.12th)
- Plastic awareness programmes, town cleaning and tribal culture study organized in connection with the Special camp at Manathana Govt. HSS from 23.12.2011- 29.12.2011. 120 volunteers participated in the camp
- Construction of a home to Mr. Kabir and family in Kalloor Lakshmeedu colony by raising fund from students, staff and public. 70 Volunteers involved in the construction process.
- Donated a wheel chair to senior citizen in Mattanur on 26.3.2012.

National Cadet Corps

- 50 cadets participated in town cleaning programme organized by Mattanur Municipality on 9.10.2011.
- 15 cadets donated blood to Govt. Blood Bank, Kannur on 20.11.2011

- 15 cadets participated in the Pulse Polio Immunisation Programme at Govt. Hospital Mattanur on 19.2.2012 as volunteers.

Zoology Club

- Blood group detection camp and release of a Blood Donors' directory on 28.9.2011
- 50 students donated blood to Govt. Blood Bank, Thalassery

Nature club

- Celebrated World environment Day with various programmes viz; awareness classes, planting saplings in the campus and nursing the existing plants by applying fertilizers.

19. Teachers and officers newly recruited:

Teachers- 1 Non-teaching staff- nil

20. Teaching – Non-teaching staff ratio: 2.8:1

21. Improvements in the library services:

The infrastructure of the library was improved a lot through the purchase of books, journals, CDs and storage facilities. The issue and the return of books are executed through bar coding and the newly purchased books are indexed by using the “GRANDHA” software installed.

22. New books/journals subscribed and their value:

Total number of books purchased under Govt. fund	- 788
Value	- Rs. 1,98,126/-
Total number of journals purchased under Govt. fund	- 17
Value	- Rs. 7,620/-

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

Student feedback on teachers was collected from all students studying in 4th and 6th semesters under the supervision of IQAC in a prescribed format framed by the UGC. The grade of each teacher was consolidated centrally and issued to the concerned teacher to improve their performance considering the required parameters.

24. Feedback from stakeholders:

Not taken through a prescribed format. But informally the feedback was taken from PTA, PTS and Alumni meetings and personal talks.

25. Unit cost of education- Rs. (Without salary component)

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

The college has a partially computerized administrative office. Pay roll, student management and admission are done through computerized sections. Govt. of Kerala and Central Govt. are disbursing most of the scholarships through online banking. Kannur University offers online registration for exams and online publication of results. The issue of certificates has yet to be made online.

27. Increase in the infrastructural facilities:

The college has augmented the infra structural facilities to keep pace with the growing demands of students and staff for maintaining the quality of education.

- Inaugurated a Ladies Hostel (Total cost: 80 lakhs) built under the financial assistance from UGC and the Management. The hostel can accommodate 50 inmates.
- Constructed a Ladies waiting room with toilet and washing facilities (Total cost: 2.6 lakhs) under UGC support.
- Extension of the existing canteen building (Rs.2.8 lakhs) under UGC support with more dining facilities for staff and students .

- False ceiling and electrification in the Economics and History class rooms, renovation of seminar hall and Lab development works in Zoology department under UGC assistance.
- Management took initiative to install a separate transformer exclusively for the college spending 3.72 lakhs.
- First floor of the administrative block was constructed by the management(Cost: 2.75lakhs) to provide classrooms for the proposed new courses.
- PTA sponsored a water filter cum cooler costing Rs.25,000/=

28. Technology upgradation:

The college constantly and continuously used the developments in science and technology for improving the standard of administration and academic service.

- Purchased 12 desktop and one laptop computers under various schemes of UGC.
- Purchased one higher end LCD Projector and 8 LCD projectors for setting up smart class rooms in all departments under additional assistance from UGC.
- Purchased 8 desktop computers and a 5KV UPS from the MLA fund of Smt.K K Shylaja teacher and 8 desktop computers from the MP fund of Mr. K Sudhakaran.
- Purchased 2 desktop computers to the department of mathematics under capacity building grant from UGC.
- Department of Chemistry purchased electronic balance, water proof PCS tester, refrigerator and other lab equipments.
- Department of Botany purchased microscopes and a Microscope Image Projection system.
- Department of physics purchased Four probe set up for electronic measurement and a digital PH meter.
- Department of Zoology installed a Spectrophotometer, microtome and a water bath.

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

The total amount spent for purchasing 29 computers from various projects was around nine lakhs. Our institution now possesses about 69 computers and they are distributed in all departments, administrative office, central library and centralised computer centre.. The internet can be accessed at all these centres. The administrative staff had undergone computer training in our centre itself by utilizing the service of a qualified computer tutor.

30. Financial aid to students:

79% of our students received financial help either through fee concession or scholarships provided by the government and other agencies. 748 out of 1079 students availed fee concession last year. The details of various scholarships availed by our students is given below.

Type of scholarship	Number of students availed	Total amount
Kerala Suvarna Jubilee	11	1,10,000
Central sector	6	60,000
Higher education council	2	36,000
Differently abled	1	6,600
Sitaram Jindal	3	13,500
Stipend from UGC project	80	4,80,000
GRAND TOTAL		

Parent Teacher Association

Financial assistance for weaker section based on merit is provided by the PTA of the college. Rank holders and meritorious students were awarded with scholarships.

Alumni Association

Merit cum means scholarships were arranged by the Alumni association for outstanding students in each subject in the Undergraduate and Postgraduate courses.

Endowment and Scholarships by departments and management

Three endowments are instituted by the institution for giving financial support to students based on their merit. They include T V K Endowment for the topper in B A History, Dr Balamoni

endowment for best talent in Zoology, P P Krishanan Memorial endowment for the best student in Botany. Mannam memorial Kanaka Jubilee scholarhip is instituted for PG students. Shahinsha memorial endowment was instituted by the his classmates for the topper in BCom degree exam.....

31. Activities and support from the Alumni Association:

The college is enjoying solid support from the alumni in making the academic and extra curricular activities more effective and meaningful. College general alumni and departmental alumni worked in tandem producing good result. Few programmes organized by them are listed below:

- Felicitated Mr. Salim Ahammed (National award winner for best film director), our alumnus(1993 Batch), for his achievements in the field of film making on 26.7.2011.He distributed cash awards to toppers in the University exams.
- Distribution of merit cum means scholarships to selected students.
- Observed Pazhassi Day with a commemoration lecture by Prof. V V Kunhikrishnan and a session on Pazhassi's role in Indian freedom struggle by Dr. M R Manmadan.
- Alumni of Commerce department organized two days residential camp, "FUTURE" for I semester students to boost their self confidence and self esteem on 17th and 18th September 2011.
- Mrs. K K Shylaja, former MLA and alumnus of Chemistry dept. attended X-mas celebration organized by the alumni of the department.
- Dr. K Rajeev, Director, Alnylum Pharmaceuticals, Cambridge, alumnus of Chemistry department interacted with students sharing his rich research experience in the field of drug manufacturing.

32. Activities and support from the Parent-Teacher Association:

The Parent Teacher Association (PTA) is supporting the institution by undertaking various projects related to students' welfare and infrastructure development.

- Advance salary for guest lecturers was given by the PTA.
- Provided timely help for the Principal and staff for settling issues between student organizations.
- Distributed merit cum means scholarships to selected students.
- Felicitated toppers in the University exams.
- Gave financial support for providing special training to students participated in the Kannur University Arts festival.
- Additional financial support for the completion of the Girls Room and Toilet and canteen extension under UGC scheme.
- Sponsored a water filter and cooler costing Rs.25000/=

33. Health services:

A health club is functioning under the Physical education department providing yoga classes, physical exercises using multi gym facility and regular classes on health and hygiene. The department of Zoology is maintaining a Blood Donors' Directory with name, address and telephone numbers of volunteers. The Nature club propagated the importance of vegetarian food culture in health management by conducting talks and discussions.

34. Performance in sports activities:

Sportsmen and women of the college have shown tremendous achievements in the College Annual Sports Day and Kannur University sports and games competitions. Highlights are given below:

- Soft ball team (Men) won second place in the Kannur University intercollegiate competitions.
- Volleyball team (Men) secured IV place in the university competition.

- Robin Francis of III BA History won I Place in Triple jump and II Place in Long Jump in the Kannur University Athletic Meet.
- Nibin P M of I BA Economics secured II Place in the Kannur University Body Building Championship.
- Amal Bhasker represented the Wynad district in the Kerala State Youth Volley Ball championship.
- Ashamil Shaz Mohammed was selected to the Kannur University Volleyball team for the South zone championship.
- Jubair (II BA Eco.), Subin Kumar P S (III BCom), Sibi George (I MCom) and Arun Kumar (III BCom) were selected to the Kannur University Soft Ball team.
- The Kabadi team of the college won some prestigious tournaments in and around Mattanur.

35. Incentives to outstanding sports persons:

- A sports hostel is working inside the campus where sportsmen are admitted and we have a volleyball, basket ball, softball and Cricket team for men and softball team for women.
- Sports council of Kerala provides fund for food and other expenses to sportsmen residing in the hostel.
- Alumni association felicitated the former outstanding volleyball players who are well placed in different walks of life in connection with the annual gettogether.

36. Student achievements and awards:

The results of majority of courses are exemplary even with the introduction of direct grading system by Kannur University.

The % of results in all disciplines is given below.

Discipline	Pass %	University average
English	90	See knr u cty website

Hindi	96	
History	88	
Economics	86	
Mathematics	77	
Physics	96	
Chemistry	96	
Zoology	96	
B Com	91	
M Com	100	

Performance of our students in the Kannur University Arts Festival was spectacular and laudable.

Cultural activities- ON stage

1. Aswini, C P of VI Sem Physics was adjudged as “**Nritha prathibha**” in the second consecutive year with first places in Bharathanatyam, Mohiniyattam, Kuchipudi and Keralanadanam.
2. Athul K, IV Sem Commerce was selected as the **best actor in English Drama** Competition.
3. Sandeep G. of IV Sem. Physics was adjudged as **best actor in Hindi Drama**.
4. Hindi drama and English drama got I Place in the competition.
5. Thiruvathirakkali team won I place in the University.
6. Skit team secured II place in the University.
7. Sruthi (II Sem Zoology) won III Place in Pullamkuzhal
8. Abhinav (II Sem Commerce) won III Place in Folk Dance.
9. The teams of Mappilappattu, Myme and Theruvunadakam got A Grade

Cultural activities- OFF stage

1. Navya P K (IV Sem English) won I Place in Hindi Documentary writing and script writing.
2. Saranya P P (VI Sem Hindi) won I Place in Hindi Cinema criticism.

3. Yadunath (II Sem Eco.) won II Place in Malayalam and Sanskrit recitation.
4. Sandeep G. (IV Sem Physics) secured III Place in Sanskrit elocution.
5. Seven students got A grade in various competitions.

General

1. Vipina K M attended National Integration Camp of NCC at Meerut 18.1.2012-29.1.2012
2. Bhavitha T P participated National Integration Camp of NCC at Kollam 10.12.2011-22.12.2011
3. U/O Jithin das attended NIC at Rajasthan from 8.12.2011-19.12.2011
4. U/O Nijil K and Jishnu V S participated NIC at Udaipur 10.12.2011-21.12.2011
5. Six cadets attended NIC at Ghaziabad(UP) from 17.12.2011-2.1.2012
6. Nine cadets attended Army Attachment camps held at Trivandrum and Secunderabad.
7. Four cadets attended All India Trekking Expedition held at Melattoor and West Bengal
8. Muhammed Shafi(BSc Zoology student 2008-11) got second rank in the UPSA examination conducted by Kerala Public Service Commission
9. Four students passed bank service selection test conducted by IBPS.
10. Nijisha E attended High Altitude Camp of NSS at Manali, Himachal Pradesh.
11. 10 NSS volunteers attended State camps held at Calicut, Mangalore, Kannur University campus and Don Bosco College, Angadikadavu.

37. Activities of the Career Guidance and Counselling unit:

The career guidance and counseling cell supported by UGC has undertaken various programmes to orient students on the requirements in the job market and to support them to find a suitable job.

- Programme on personality development and career opportunities and BJS All India Examination were conducted on 15th September 2011 in association with NIIT, Thalassery.

- National Level student development and placement programmes was organized by Koshy's Institute of Management, Bangalore on 6th February 2012 followed by a campus recruitment.
- Career club membership programme was conducted by CMS Info system, Cochin on 27th February 2012 followed by free training, project guidance, technological support and recruitment for final year students.

38. Placement services provided to students:

- Eureka Forbes Ltd. Selected 10 students for the post of Customer Sales specialist after a campus recruitment held on 13th February 2012.

39. Development programmes for non-teaching staff:

Computer training had given to non-teaching staff in our centralised computer center under the guidance of the computer tutor. On automation of various sections of the administrative wing, training on the new software was given to the concerned staff. Training on the library automation was arranged to Library staff for implementing issue and return of books through bar coding.

40. Good practices of the institution:

- Academic activities of a year are planned well in advance by the IQAC and a calendar is circulated to all departments for further action.
- Departmental calendar and teaching plan are prepared in the departmental meeting based on the college academic calendar.
- All programmes are published in the college website and departmental notice boards.
- All teachers maintain a work diary to record day to day activities.
- Feed back from students on curriculum, department and teachers is taken every year for assessment and improvement of the system.
- Academic Performance data sheet is collected from all teachers annually.

- All departments have a reading room with books and journals for reference.
- PTA General Body, class wise PTS meetings and PTA executive committee are convened as per academic calendar to strengthen relationship with teachers, parents and students.
- Orientation to the first year students is provided in different platforms like IQAC and departments. Residential camp “FUTURE” is arranged by Dept. of Commerce for the freshers to motivate them in their studies and to develop self confidence.
- **Impressions-** The fourth Annual News letter published by the College includes the array of co-curricular and extracurricular activities undertaken during the academic year 2011-12.
- **Celebrations-** New year, X’mas, Kerala’s regional festival like Onam etc were celebrated by all departments individually or centrally in order to inculcate togetherness and group manners.
- Students are motivated to respond to social and environmental issues. They are promoted to take up selected projects to support financially weak families through NSS with the precise objective of boosting their social sensibility.

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

- Department of Zoology is having association with Zoological Survey of India, Malabar Natural History Society, ATREE- Bangalore and SACON Coimbatore.
- Department of Commerce is associating with Malabar chamber of Commerce, Mangalore University, CUSAT and various management services.
- Department of Physics is maintaining close association with CUSAT, Mangalore University, NIT Calicut and ANERT.

42. Action Taken Report on the AQAR of the previous year:

IQAC took keen interest to execute the plans envisaged in the AQAR of 2010-11. We could successfully implement many projects mentioned in the previous AQAR.

- Organized three national seminars funded by UGC, workshop on informatics to teachers sponsored by KSHEC, and a one day seminar on ICT techniques in teaching learning process.
- Started a Foundation course in Human Rights Education funded by UGC.
- Successfully oriented all students with Direct Grading system and CCSS in a three day workshop on Exam reforms funded by UGC.
- We could provide placements to 10 students in Eureka Forbes Ltd. Five students got jobs in Armed Forces.
- We couldn't achieve 100% computer literacy because of time constraints and limited facilities in the computer lab.
- Short term courses and multidisciplinary research activities are planned to commence in the next academic year.
- Chemistry and Physics departments have organized exhibitions and competitions for Senior secondary students of the District.
- A Biogas plant was installed near the canteen for the proper waste management.
- Faculty published 5 research papers in referred journals, 4 papers in Non referred journals and 26 papers in National and international conferences.
- Discussions are on to publish a multidisciplinary research journal in the next academic year.
- A seminar to give awareness on the preparation of research project proposals and various funding agencies is planned for the next academic year.

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

1. Arranged invited talks by prominent alumni to interact with students and to inspire and motivate them. They help students to get placements in their parent institutions.

2. Published annual newsletter of the college “Impressions” to highlight the activities among the stakeholders (attached herewith)

Section C

Outcomes achieved by the end of the year

1. Six departments got more than 90% pass and in two disciplines it was more than 86%. Nine students secured A Grade. Miss. Jisna T C got II Rank in the Kannur University MCom Examination.
2. Five students got employment in Armed forces and four students passed Bank recruitment test conducted by Institute of Bank Personal Selection (IBPS).
3. More than 70 students participated in Kannur University Arts Festival and many of them are adjudged as winners.
4. The college could organize three national seminars funded by UGC.
5. NSS unit of the college adopted a Harijan colony and initiated Bhavan Nirman Yojana for the homeless.
6. Two NCC cadets attended Republic Day Parade at New Delhi and one former under officer got entry in Army as an officer.
7. Conducted many programmes under the auspices of Career Guidance and Placement Cell, Equal Opportunity Centre and Women Cell to give proper orientation and guidance to students.
8. Smart class rooms were established in all departments to make teaching learning process interesting and informative.
9. Conducted 296 hrs of Remedial coaching for SC/ST/OBC and Minorities.

10. Equal Opportunity Centre conducted short term course in Spoken English for SC/ST/OBC/Minorities and other backward sections.
11. Women cell organized few counseling programmes and awareness classes.
12. Coaching classes for Entry in Kerala/Central/Bank Services were offered to 146 students belonging to SC/ST/OBC/Minority and other backward classes.

Section D

Plans of the HEI for the next year

The major concerns of the college in the next academic year are as follows:

- To improve the pass percentage in all disciplines enhancing the number of higher grades.
- To improve ICT enabled teaching and learning.
- To appoint permanent teachers and non teaching staff.
- To get more courses at UG and PG level.
- To strengthen tutorial system by constant three tier monitoring system.
- To promote research activities among teachers by motivating them to take up Minor and Major projects funded by UGC/DST/KSHEC etc.
- To take initiatives to publish news letters by all departments.
- To invite well established and reputed firms for campus placement.
- To encourage students participating in Arts/sports competitions by instituting scholarships/cash awards by the stakeholders.
- To make concerted efforts for large scale campus aforestration and waste management.
- To strive hard for uncompromised quality in all sectors of higher education.

- To prepare and submit schemes and projects to UGC in XII plan to get more funds to achieve qualitative enhancements and to improve some of our infrastructural limitations.
- To start short term courses in various disciplines.
- To strengthen inter and multidisciplinary research works by channelizing funds from various agencies.

*Name & Signature of the
Director/Coordinator,*

*Name & Signature of the
IQAC Chairperson, IQAC*

WHAT IS AN IMPACT FACTOR?

The journal impact factor is a measure of the frequency with which the average article in a journal has been cited in a particular year. The impact factor helps you evaluate a journal's relative importance, especially when you compare it to others in the same field. The impact factor is calculated by dividing the number of citations in the current year to items published in the two previous years by the total number of items published in the two previous years.

Using Journal X as an example:

Cites in 2010 to items published in:	2009	= 258
	2008	= 199
	Sum	= 457

Number of items published in:	2009	= 116
	2008	= 71
	Sum	= 187

Calculation:	Cites to recent items	457	
			= 2.444
	<hr/>	Number of recent items	187

The 2010 Impact Factor for Journal X is 2.444

Our papers

6. Comparative studies on structural, optoelectronic and electrical properties of SILAR grown PbS thin films from acidic, neutral and alkaline cationic reaction bath- T. L. Remadevi & K. C. Preetha ISSN 0957-4522 J Mater Sci: Mater Electron DOI 10.1007/s10854-012-0696-7 (impact factor- 1.076)
7. Photoassisted chemical deposition of nano crystalline ZnS thin films from aqueous alkaline bath-T. L. Remadevi* and A. C. Dhanya -Archives of Physics Research, 2011, 2 (4):128-136(impact factor- nil)
8. UV irradiated wet chemical deposition and characterization of nanostructured tin sulfide thin films - A.J.Ragina, K.V.Murali, K.C.Preetha, T.L.Remadevi- Materials Science in Semiconductor processing (elsevier)- Accepted in J Mater Sci: Mater Electron(impact factor- 1.076)
9. Effect of Al incorporation on the Structural, morphological, optoelectronic and transport properties of PbS thin films, Accepted in Physica B (impact factor- 1.063)
10. Dr. K Pradeep kumar's paper entitled "Normal, solvothermal and microwave assisted synthesis and characterization of Thiophe-2-aldehyde phenyl hydrazone complexes" was accepted for publication by the Asian Journal of Chemistry. (impact factor- 0.247)
11. Behavior of chemically deposited PbS thin films subjected to two different routes of post deposition annealing, K.C.Preetha^{1,2*}, T.L.Remadevi^{1,3}, Materials Science in Semiconductor Processing (impact factor- 0.753)

So average is -0.843 (if the averaging is ordinary calculation)