

**PAZHASSI RAJAN S S COLLEGE,  
MATTANUR**

[ACCREDITED by NAAC with 'B' grade]



**Annual Quality Assurance Report (AQAR)**

Submitted to

**THE NATIONAL ASSESSMENT AND  
ACCREDITATION COUNCIL**

BANGALORE

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## Introduction

Pazhassi Raja N S S College, one of the oldest institutions of higher learning in the region came into being in 1964 to serve the deprived students of this area. It was the accomplishment of the earnest efforts of the eminent social reformer and educationalist Padmabhooshan Mannathu Padmanabhan. The College derives its name from the great patriot and freedom fighter Kerala Varma Pazhassi Raja.

Our vision is to excel in quality and to ensure equity in the field of higher education. Hence the college always had its focus on academic excellence and individual development so as to produce academically excellent, honorably upright, and socially conscious youth. Realizing its goals and objectives, the institution has now grown into a qualified centre of higher learning with graduate courses in Physics, Mathematics, Chemistry, Zoology, Economics, History, English, Hindi and graduate and post Graduate courses in Commerce.

Our College has been accredited by the National Assessment & Accreditation Council (NAAC) with B grade (**CGPA-2.62**) on 4<sup>th</sup> September 2010. The College had constituted an Internal Quality Assurance Cell (IQAC) even before the accreditation based on the guidelines of the NAAC. The Internal Quality Assurance Cell had been formulated for monitoring the quality, consistency and catalytic improvement in the performance of institutions. The IQAC plans and monitors every activity ensuring systematic execution of all academic events and promotion of individual development and soft skill improvement of students. To channelise the efforts and measures of an institution towards academic excellence, the role of IQAC is significant in the post-accreditation phase of institutions. During this year IQAC planned and monitored various academic and non-academic activities as per the long term and short term objectives of the Institution.

The academic year 2010-11 was vibrant with active teaching-learning, research and extra curricular programmes and student support activities. The array of activities testifies the quality concern in tune with the changing requirements of higher education to ensure equity, inclusiveness and social justice. Departmental clubs, College Union, NSS, NCC, ED club, Equal opportunity cell and Women cell took up a variety of programmes this year with emphasis on organizational skill, leadership development and team building, which are essential requisites for a successful career and bright future.

Six new faculty members have joined the college and five teachers are on deputation under Faculty Development Programme. Many of the faculty members have either completed their research projects or are in the process of completion.

The annual pattern of the degree programme has been replaced by Choice Based Credit and Semester System. The evaluation pattern in the undergraduate classes has undergone significant changes on implementation of grading system. The changes initiated in the undergraduate education are bringing out positive results which are enabling the students to analyze or solve problems, relate problems to different contexts, communicate clearly and have an integrated understanding of different branches of knowledge. This accredited institution has a long journey to stride ensuring quality and equity in the field of higher education with the support of all the stakeholders who constantly associate and constructively interact with us.

## Section A

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

The IQAC is envisaged as an internal nodal agency to evaluate, promote and consolidate all the activities of the College. Following the guidelines of NAAC, the constitution of the IQAC is detailed below:

#### **Constitution of IQAC:**

Principal and Chairman	: Prof. P Muraleedharan
Coordinator	: Dr T L Remadevi (Physics)
Members	: Dr T Vasudevan (Commerce)
	: Dr T P Raveendran (Botany)
	: Dr A V Hemalatha (Commerce)
	: Dr Saji Kurup (Hindi)
	: Smt Meena Shanker (English)
	: Sri K K Bharathan (Head accountant)
	: Sri V C Jayaprasad (Administrative staff)
	: Sri M Vijayakumar (Social activist & Environmentalist)
	: Prof P P Kunhikrishnan (Rtd. HOD, Mathematics)

The IQAC designed the academic calendar of the College by including all academic and non-academic exercises of the institution. The plan of action chalked out by IQAC in the beginning of the year aimed at quality enrichment in all curricular, co-curricular and extra curricular activities of the

institution. The following draft was planned even before the commencement of the academic year to ensure quality and equity in all academic and non-academic ventures.

- Improvement in regular functioning of the college
- Preparation of academic calendar and its effective implementation
- Focus on effective curricular transaction by conducting supportive co-curricular programmes
- Emphasis on teaching learning process by using ICT techniques
- Centrally arranged special classes to make up the loss in working days due to unforeseen circumstances
- Implementation of effective tutorial system
- Conduct of midterm/midsem and model examinations as per the schedule in the academic calendar
- Intensive remedial coaching for all subjects in all disciplines especially to weaker and minority students
- Special coaching for entry in services especially to SC/ST and minority students
- Motivation sessions or residential camp to freshers
- Orientation to freshers on the facilities of the institution and the prospects of the programme
- Promotion of extra curricular activities by utilizing the platform of College Union and other college level/ departmental clubs
- Orientation to teachers on quality related matters in the teaching learning process
- Promotion of research activities among students and teachers
- Encouragement in the execution of minor/major projects by faculty members
- Promotion of the submission of proposals to UGC for funding to conduct national seminars

- Instigating the faculty members to attend international/ national seminars or conferences in and outside the state
- Encouraging the observation of the important days of social relevance
- Focus on the infrastructure development
- Upgradation of library, computer centre and administrative office
- Networking of all departments to main server for lessening the processing of data of students for attendance, internal evaluation etc
- Updating of students profile card, all registers and question paper files
- Execution of UGC programmes through equal opportunity cell, network resource center
- Promotion of charity activities through NSS and NCC
- Strengthening the Career Guidance and Placement cell
- Awareness programmes on waste management and social evils like usage of alcohol

## Section B

### Details in respect of the following

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

- a) Advanced planning and schematic execution of all curricular and cocurricular activities under the stewardship of IQAC-

The College had completed 198 working days and 171 teaching days during the academic year 2010-11. IQAC designed and forwarded the detailed academic calendar to departments for implementation. It included the specific dates for all important meetings, conduct of examinations, submission of mark lists, conduct of cocurricular and extracurricular activities by all departments, parent's interaction, tutorial classes etc. IQAC reviewed the implementation of the academic and non-academic activities by collecting and evaluating the term reports from each department and various clubs.

- b) ICT supported teaching learning process to make the curricular transaction more effective at par with the advancements in concerned subjects-

PG classes are engaged using power point. Most of science departments adopt the technology of information and communication for showing animations and diagrams. Better support and guidance are given to students to use power point presentations for their seminars as a part of continuous evaluation.

- c) Promotion and support to slow learners through remedial coaching

Special help and care are given to needy students especially those belonging to marginalized groups and minority communities to improve their performance in their examinations and to make them more confident. During the academic year we have conducted 480 classes for the students of all disciplines in various subjects. The scheduled time for remedial coaching was from 9.00 am to 10.00 am on all days. Tutorial sessions are also organized once in a week to sort out the difficulties faced by the

students in and outside the class room. Peer teaching was also promoted by identifying the fast learners in each class.

d) Career Orientation and training programmes to improve the soft skills

In a view to equip the students to meet the challenges and needs of the emerging situation Career Guidance and Placement cell organized variety of programmes. They included seminar on “Challenges in Science”, workshop on “Goal setting and Career plan” and an orientation on “Career options and opportunities”. PG dept. of Commerce in association with Logic management Training institute, Kochi organized a seminar on “Career orientation and success training programme”.

e) Continuous training to talented students to expose their extra curricular capabilities

A group of talented students were selected by IQAC through a selection procedure and continuous training was provided to them on public speaking, communication skills etc by a group of teachers. The artistic talents of selected students were promoted by intensive training in various art forms by the help of experts in the relevant field. Those students brought laurels to our institution by winning prizes in the Intercollegiate University level competitions.

f) Organization of seminars/ workshops to update knowledge and developments in specific areas

A National seminar in Library and Information Science has been organized titled “Current Trends in organization of knowledge” on 24-26<sup>th</sup> of March 2011 with the financial support from UGC. A series of curriculum based seminars was organized by all departments in association with IQAC. IQAC also organized a session on “Development and application of quality benchmarks” to ensure quality in all activities of the institution as a part of post accreditation strategy.

g) Campaign for environmental protection and effective waste management

Students are always encouraged to preserve the environment by practising safe and secure methods of waste disposal. A task force was initiated under the leadership of Principal, NSS and NCC officers to sensitise the students on the importance of environment protection. The waste disposal in our

campus was monitored by the same committee. A decision was taken to install a bio-gas plant in the next academic year.

h) Improve the employability of students

Continuous coaching classes for getting entry into various services like bank, insurance, defence etc were arranged for students. Two students were got selection into Kerala Police and Indian Navy during the academic year.

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

In order to start new courses, sanction from Government and University are required. Due to the restrictions imposed by the Government, no new courses were sanctioned during the academic year, in spite of our requirement.

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

The curriculum of UG programmes had undergone drastic change by the implementation of semester pattern in 2009-10. The continuous evaluation demands constant focus on each student. A number of subject related seminars and talks were arranged by most of the departments to support the effective transaction of curriculum. Other activities like debates; quiz programmes etc were also conducted to assess student performance. They include -

- English-Newspaper reporting, discussion on films, review of IFFK handbook etc
- Hindi- Weekly student seminars, class on methodology, Spoken English classes, Various programmes related to Hindi Pakshacharan
- History-Quiz competition on Hiroshima day, Pazhassi day commemoration speech
- Economics- seminar on “ Dimensions and challenges of inclusive growth and food security in India”, Quiz programme
- Mathematics-Seminar on Mathematics in daily life by Ms. Asha

- Physics-Seminars on “Evolution of Quantum Mechanics”- Sri K B Roy and “Cluster radioactivity” –Dr R K Biju, Interaction with Scientific Officer Dr Sugathan, Nuclear Science Centre, New Delhi
- Chemistry-Talk on “Environmental pollution” by Prof. Sathyanandan
- Zoology- Seminar on “Indiscriminate use of pesticides and their ill effects” by Prof N K Govindan
- Commerce-Sessions on recent trends in banking, Stock market operations, hardware networking
- Malayalam-Seminar on “Language and culture” by Dr Pavithran and “Art and Literature” by Sri K K Marar

Study tours have been conducted by science departments to visit important scientific/ industrial places to encourage the students and to develop aptitude towards their concerned subject. Chemistry final year students visited FACT, Cochin. Zoology students had gone to Chennai and visited some places of biological importance. They include Zoological Park at Vandallur, Central Marine Fisheries Reaearch Institute at Chennai and Crocodile Park at Mahabalipuram. Botany students conducted a field trip to Malabar Botanical Garden, Calicut and Gurukula Botanical Garden, Wynad.

Many of our faculty members were deeply involved in framing the curriculum being the members in the statutory academic bodies of Kannur University like Board of Studies, Academic Council, Faculty of Sciences, Social Sciences, Management studies and languages.

Dr K Pradeep Kumar is a member of Syndicate, Senate and Academic Council for the present year. The details of the new nominations in the Board of Studies for the year 2010-12 are given below.

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

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

Prof P Muraleedharan : (Member, Zoology-UG)

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. Usha K K : (Member, Mathematics, UG)  
Smt Meena Shanker : (Member, English-UG)  
Sri. M K Satheesan : (Member, Chemistry-UG)

The features of Choice Based Credit and Semester System (CCSS) have been described in all classes through tutorial sessions conducted once in a week in zero hour (9.00 am to 10.00 am) as per the schedule given in the teachers' diary. The functioning of the CCSS is monitored by a College Coordinator, with the active support of departmental coordinators. For the effective transaction of the syllabus few teachers have been used the ICT techniques.

#### **4. Inter-disciplinary programmes started:**

No such programmes were started, as it requires sanction from Government and University. But as a part of co-curricular activity, an interdisciplinary program was organized by Department of English. A demonstration on the "Theory of Rasa in Indian Aesthetics" based on Bharatha's Natya Sastra was performed by Dr Sumitha Nair of Department of Malayalam.

Dr Mahesh Kumar of Department of Zoology and Smt. Dhanya of Dept. of Chemistry conducted a class on the "Harms of using Pesticides" for the I SEM students of all disciplines as a part of Anti End-O-Sulphan movement.

Students of Zoology in association with the Dept. of Botany prepared and submitted the “Biodiversity Register of our campus” to the Kerala Biodiversity Board.

#### **5. Examination reforms implemented:**

The continuous evaluation of the students was conducted as per the directions given by the University. The midsem/ midterm examinations of all classes were conducted under the guidance of a Coordinator. These examinations were arranged centrally so as to view the process seriously by the students. The dates of examinations were mentioned below.

Midterm/sem exam-13.09.10 to 22.09.10 for III Main and III Sem; 09.11.10 to 16.11.10- ISem

Model exams for III main- 07.03.11 to 14.03.11

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

The number of students appearing for NET and GATE is few, as we have only one PG course. But many graduate students especially from Science disciplines got admission in various reputed institutions like CUSAT, Pondicheery University, Hyderabad Central University, Kerala Central University, NIT Calicut etc by clearing the entrance tests.

#### **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 UGC to carry out research work.

- Number of teachers attended orientaion/ refresher courses- 2/1
- Number of teachers attended NSS orientation course-1

#### **Details:**

<b>Name of the teacher</b>	<b>Type of Course</b>	<b>Institution attended</b>	<b>Date</b>
Meena Shankar	Orientation	UGC-ASC, Kanuur University	07.07.10- 03.08.10
Dr Saji R Kurup	N S S orientaion	Rajagiri college, Kalamassery	22.06.10- 01.07.10

Satheesan M K	Refresher	UGC-ASC, Kanuur University	03.01.11- 23.01.11
Dr Gayathry N	Orientation	UGC-ASC, Kearla University	05.01.11-01.02.11
Dr T L Remadevi	STAT program	IIT Chennai	30.08.10-03.09.10

Number of teachers attended International seminars/conferences-2

<b>Name of the teacher</b>	<b>Department</b>	<b>Place where International seminar attended</b>	<b>Topic of International seminar</b>
Ragi P V	Mathematics	Kerala University, Karivattom campus	Groupoids, Semigroups and Automata
Biju K	„	International Congress of Mathematicians, Hyderabad	-----
Hemalatha A V	Commerce	Department of Applied Economics, Kannur University	Innovation and Inclusion in Banking: Issues, Strategies and Options
Meena Shankar	English	Bharatha Matha College, Cochin	Re-reading classics in literature

Number of teachers attended National seminars/conferences- Details are shown in the table.

<b>Name of the teacher</b>	<b>Department</b>	<b>Place where National seminar attended</b>	<b>Details/Topic of National seminar</b>
Prof. P Muraleedharan	Principal	Farooqe College, Calicut	Workshop organized by Council of Principals of Colleges of Kerala
„	„	Kalpatta , Wayanad	Annual Conference of the Council of Principals of Colleges of Kerala
Dr Saji Kurup	Hindi	CUSAT	Ajeey Sahithya
„	„	PRNSS College, Mattanur	Current trends in Organization of Knowledge
Dr K Pradeep Kumar	Chemistry	Trivadrum	Organized by Higher education council
Lekha P	„	„	„
„	„	SSCollege, Taliparamba	<ul style="list-style-type: none"> <li>• Mass appeal of Folklore</li> <li>• Item writing in Hindi</li> </ul>
„	„	GB college, Thalassery	Modern trends in Hindi Poetry
„	„	Dr P K Rajan Memorial Campus, Nileswaram	Communicative media and Hindi

Dr Smitha R Nair	„	PRNSS College, Mattanur	Current trends in Organization of Knowledge
Dr Asha P K	„	PRNSS College, Mattanur	Current trends in Organization of Knowledge
„	„	CUSAT	Ajeey Sahithya
„	„	Dr P K Rajan Memorial Campus, Nileswaram	Communicative media and Hindi
„	„	SSCollege, Taliparamba	Item writing in Hindi
Dr Gyathry N	„	M G College, Tvm	Modern Hindi Literature
„	„	PRNSS College, Mattanur	Current trends in Organization of Knowledge
Usha K K	Mathematics	GB College, Thalassery	Applications of Graph theory in Other disciplines
„	„	M G College, Iritty	Discrete and fuzzy Mathematics and their applications
Biju K	Mathematics	Payyanur College	Operator theory and applications
Dr Sumitha Nair N	Malayalam	Dr. P K Rajan Memorial PG Dept. of Malayalam	Folklore and general issues
Dr T P Ravindran	Botany	Viswa yuvak Kendra, New delhi	Rule of Law
„	„	NG College, Kuthuparamba	History and Philosophy of science
Dr Hemalatha A V	Commerce	Bangalore	Quality Management in Higher Education
Meena Shankar	English	PRNSS College, Mattanur	Current trends in Organization of Knowledge
Dr P P Lakshmanan	Commerce	Presidency College, Bangalore	Student Development Work shop
„	Commerce	Kannur University campus	Choice based Credit and Semester System
Santhosh Kumar R	Economics	PRNSS College, Mattanur	Current trends in Organization of Knowledge
Deepa K	Physics	CWRDM, Calicut	Research methodology
K B Vidhya	Economics	PRNSS College, Mattanur	Current trends in Organization of Knowledge

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

Details are given below.

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

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

A National seminar in Library and Information Science has been organized titled “Current Trends in organization of Knowledge” on 24-26<sup>th</sup> of March 2011 under the financial support of UGC. The thrust areas of the seminar were automation and digitalization, trends in Science and technology, evaluation of websites and education informatics. Dr M G sreekumar, Head, Centre for Development of Digital Libraries Indian Institute of Management, Kozhikode inaugurated the function and delivered the key note address. Technical sessions were handled by Dr Babu Anto, Head, school of Information Science and Technology, Dr Jessie Varghese, Former Head, Providence College for Women, Coonoor, Bhawani Cheerath, Freelance Journalist, Dr M R Sudarsana Kumar, MG College etc. The valedictory function was blessed with Sri Kaviyoor Rajagopalan, District Library Council President, Kannur.

The seminars conducted by other departments in association with IQAC under the Academic Enrichment Programme (AEP) 2010-11 were listed below:

<b>Discipline</b>	<b>Name of the topic</b>	<b>Resource person</b>
<b>English</b>	Designing news: Contents and lay out of a newspaper	Mr Mathukutty, Journalist, Mathrubhumi, Kannur
<b>Hindi</b>	Different aspects of official language	Dr Herman P J, Asst. Prof., Dept. Of Hindi, Calicut University
<b>History</b>	Kerala megalithic culture	Dr Jayasree Nair, Asso. Prof, Dept. of History, NAS College, Kanhangad

<b>Economics</b>	Macro Economics- theory and reality	Mr K Falgunan, Asst. Prof., Dept. of Economics, GB College, Thalassery
<b>Mathematics</b>	Applications of Matrices in graph and computer graphics	Sri Shahul Hamed, Asst. Prof. GBC, Thalassery
<b>Physics</b>	Mathematical tools in Physics	Mr V P AdullaKutty, Asso. Prof., Dept. of Physics, SS College, Taliparamba
<b>Chemistry</b>	Polymorphism	Dr A R Biju, Asst. Prof. , Dept. of Chemistry, SS College, Taliparamba
<b>Zoology</b>	New trends in biotechnology	Dr G Anilkumar, Sr., Prof. and Director, School of Biosciences and Technology, Vellore
<b>Commerce</b>	Capital Markets and Share trading	Dr T Asokan, Prof. and Head, Dept. of Management Studies, Kannur
<b>Botany</b>	Role of Mycorrhiza in maintaining soil fertility	Dr Philomina Abraham, Asso. Prof. and HOD, Dept. of Botany, NG College, Kuthuparamba.
<b>Malayalam</b>	Bhashayum Vaikarikaghadanayaum	Prof. K P Narendran, Former HOD, Dept. of Malayalam, GB College, Thalassery

## 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 project

- **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-** M K Satheesan , 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- 12.72 lakhs (KSCSTE)

Minor Project – 1.825 lakhs (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
Meena Shanker	English	Pazhassi Raja NSS College	MG University, Kottayam	Part-time

#### 14. Citation index of faculty members and impact factor:

Publications of faculty members:

##### Refereed journal-1

- Effect of cationic precursor pH on optical and transport properties of SILAR deposited nanocrystalline PbS thin films- Preetha K C; Murali K V; Ragina A.J, **Deepa K, Remadevi T L** - Current Applied Physics 2011 (doi- 10.1016/j.cap2011.04.040) (ISSN: 1567-1739) ( Impact factor- 1.74)

##### Non-refereed journals having ISSN/ISBN numbers

- Micro Finance- A Tool for Economic Empowerment of Women in Kerala-**A V Hemalatha** and T Asokan-Journal of Management -Issue-2, Volume-2, 2011-(ISSN:0975-7236)
- Wet chemical synthesis and characterization of tin sulphide thin films from different host solutions- A. J. Ragina, K. C. Preetha, K. V. Murali, **K. Deepa** and **T. L. Remadevi**- Advances in Applied Science Research, 2011, 2 (3): 438-444 (ISSN: 0976-8610)
- Structural and morphological characterization of nano structured ZnO synthesized by wet chemical methods- K V Murali, Ragina A J, Preetha K C, **Deepa K, Remadevi T L** – International conference on Nano materials and Nano technology, NANO 2010 - Macmillan publishers India Ltd- ( ISBN:023-033-193-9) P.no-159
- Effect of post deposition annealing on structural, morphological and optical properties of chemically deposited PbS thin film- International conference on Nano materials and Nano

technology, NANO 2010 -Macmillan publishers India Ltd- Preetha K C, Murali K V, Ragina A J, **Deepa K, Remadevi T L** (ISBN:023-033-200-5) P.no-255

- Structural and morphological studies of chemical bath deposited SnS thin films- Regina K, Murali K V, Preetha K C, **Remadevi T L** International conference on Nano materials and Nano technology, NANO 2010 -Macmillan publishers India Ltd- (ISBN:023-033-193-9) P.no-183
- Structural, morphological and optical properties of polycrystalline CBD PbS thin films from various metal ion sources- Preetha K C, Murali K V, Ragina A J,**Deepa K, Remadevi T L**- International conference on Nano materials and Nano technology, NANO 2010 - Macmillan publishers India Ltd- ( ISBN:023-033-199-8) P.no-215
- Dominated Quasinorm preserving extension of functionals in quasinormed cone and bi-completion of generalized quasi normed cone- K T Ravindran and **K Biju** - Antartica Journal of Mathematics (ISSN-0972-8643) 7(2) ,2010,231-237

#### **Articles published**

- An article “Swar ki Agni Mein jal Jatha Hei “ in Research journal”Anuseelan” by **Dr Saji Kurup** published by Dept.of Hindi, CUSAT, July 2010.
- An article in Sanrathan- **Lekha P**
- An article in Kerala Bharathi- **Dr.Asha P K**
- An article in Kerala Jyothi- **Dr Gayathry N**
- Poems in Kerala Bharathi- **Dr Smitha R Nair**
- An article in Keli, a publication of Kerala Sangeetha nataka Academy, Vijnana Kairali by Kerala Bhasha Institute- **Dr Sumitha Nair N**
- Article published in the research journal DIOTIMA’S published by the Dept. of English, Providence College, Calicut- **Dr.Rakhi Ragavan**

#### **International Conference publications- 4**

- A Comparative study of the structure and biological Activities of transition metal complexes of Thiophene-2-aldehyde phenyl hydrazones prepared by Normal and solvothermal methods -ICNN Coimbatore 2011- **Prasanna M.K and K.Pradeep Kumar**

- Effects of silver doping on dielectric properties of Anatase- TiO<sub>2</sub> nano particles synthesised by a low temperature hydrothermal method- ICNN Coimbatore 2011- Abdul Gafoor, **K.Pradeep Kumar**, Jaya, M.M.Mustafa, P.P Pradyumnan
- Electrical and Optical properties of Silver doped Anatase- TiO<sub>2</sub> nano particles with enhanced thermal stability- a low temperature Hydrothermal synthesis- ICNN Coimbatore 2011-.Abdul Gafoor, **K. Pradeep Kumar**, M.M.Mustafa , P.P Pradyumnan
- Optical red shift in ZnO nanoflowers fabricated on non-seeded substrates by soft wet chemical method- K V Murali, K C Preetha, A J Ragina, **K Deepa, T L Remadevi** – Optics’ 11- International conference on light, NIT Calicut
- Studies on gold doped lead sulphide thin films grown by SILAR technique - - K C Preetha, K V Murali, A J Ragina, **K Deepa, T L Remadevi** –Optics’ 11- International conference on light, NIT Calicut
- 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** –Optics’ 11- International conference on light, NIT Calicut
- Micro Finance for Poor: A study of self Help Groups in Kerala Women- **A V Hemalatha**- International Conference on Innovation and Inclusion in Banking: Issues, Strategies and Options.

#### **Chapters contributed to edited volume published with ISBN/ISSN numbers**

- **Dr A V Hemalatha**- Chapter 19: Entrepreneurial Priorities of Women SHG members from Kerala- the North South Paradox: in a Book (ISBN: 978-81-8209-265-5) Micro Finance – Enabling Empowerment-Editors: Daniel Lazar, P.Natarajan, Malabika Deo. (Pondicherry University)

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

#### **16. Internal resources generated:**

PTA-	Rs. <b>5, 44,130/-</b>
Management account-	Rs. <b>79437/-</b>
General Alumni-	Rs. <b>28400/-</b>
Photocopy service-	Rs. <b>19545/-</b>
Computer lab collection –	Rs. <b>33930/-</b>

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

The Dept. of Zoology got financial assistance to observe “World environment Day” and “National Science day” celebrations from KSCSTE, Thiruvananthapuram.

**18. Community services:**

We execute our community services through NSS and NCC. The important activities are highlighted.

- **Dress bank-** NSS volunteers and NCC cadets donated a lot of dresses collected from students and teachers of our institution to “Awake” a charitable organization in order to distribute in old age homes and poor homes.
- **Ward adoption and medical camp-** An undeveloped colony of Scheduled Tribes named Ambedkar Colony at Chavasseri Prambil was adopted by our NSS unit as a part of extension activities. The adoption was announced by Sri. V S Anilkumar, Dean of student services, Kannur University in a function presided by our Principal. A variety of programmes were arranged at the colony including a medical camp.
- **NSS- seven day annual camp-** The annual 7 day camp of NSS unit was organized at Govt. U P school, Uliyil, Thillankery. The volunteers conducted a socio-economic survey in the adopted colony and undertaken the cleaning of their roads. They also conducted a road safety survey, which was a project of KSTP.
- **NCC- Visit to poor homes-** Apart from regular training, cadets repaired PWD road in front of our institution. They donated teaching aids and sweets to the differently abled students of Oisca Special School at Nelluni, Mattanur to mark the NCC day celebration.

- **Blood bank and blood donation-** Zoology club made a blood donor directory after detecting the blood groups of students. A blood donation programme was organized in association with NCC and Govt. blood bank, Thalassery and donated 50 units of blood.
- **Paliative Care Unit** -A Paliative Care Unit started functioning under NSS and an orientation class has been arranged for the members.
- **Coaching for entry in various services-** Coaching for various competitive examinations for was conducted for students in and outside the institution with the financial support of UGC.

**19. Teachers and officers newly recruited:**

Teachers- 6; Non-teaching staff- 4

**20. Teaching – Non-teaching staff ratio: 2:1**

**21. Improvements in the library services:**

The infrastructure of the library was improved a lot through the purchase of books, journals 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 installed software.

**22. New books/journals subscribed and their value:**

Total number of books purchased during 2010-11	- 1632
Total amount spent for books under Govt. fund	- Rs.62756/-
Remedial coaching	- Rs. 157424/-
Coaching for entry in services	- Rs. 198209/-
Total amount spent for books under Remedial coaching	-Rs. 36900/-

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

Student feedback on teachers was conducted in all the disciplines through the prescribed format framed by UGC. The grade of each teacher was consolidated centrally by IQAC and issued to the concerned teacher to improve their performance in the required parameter.

**24. Feedback from stakeholders:**

Not taken through a prescribed format. But informally the feedback was taken from PTA and Alumni interactions.

**25. Unit cost of education-** Rs.3810.00 (Without salary component)

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

Our administrative wing is partially automated. Govt. of Kerala and Central Govt. are disbursing most of the scholarships through online banking. The process of admission is also computerized. Kannur University offers the examination results online. The issue of certificates has yet to be made online.

**27. Increase in the infrastructural facilities:**

The funds from UGC, management and PTA support our institution to upgrade the infrastructure facilities.

- XI plan UGC fund utilized for the renovation and extension of canteen, construction of new ladies toilets, renovation of seminar hall, modification of Zoology lab and the fixing of false ceiling to some of the class rooms.
- PTA helped to install watercooler in the new block
- Management completed the first floor of the office block. They also started the work of compound wall and retaining wall of the new ladies hostel.
- A total of 5 lakhs was sanctioned to our centralized computer lab from M L A and M P LAD Scheme.

## 28. Technology upgradation:

This year is marked with the installation of internet facility in all departments in addition to the centralized computer lab and central library. All library books are indexed and issued through bar coding.

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

Total amount spent for purchasing 15 computers from various projects was around five lakhs. Our institution now possesses about 40 computers and they are arranged 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 the computer tutor.

## 30. Financial aid to students:

About 80% of our students got the financial help from either through fee concession or scholarships. 710 students out of 1022 availed fee concession last year. The details of various scholarships availed by our students were tabulated.

Type of scholarship	Number of students availed	Total amount
Kerala Suvarna Jubilee	50	500000
Post metric	32	96000
Central sector	6	60000
National Hindi	22	114000
Lakshadweep	7	117880
Mannam Kanaka Jubilee	3	3000
Sitharam Jindal	1	4200
Stipend from UGC project	20	1,20,000
<b>GRAND TOTAL</b>		<b>895080</b>

### **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 Kurup Endowment for the topper in B A History, Dr Balamoni endowment for best talent in Zoology in Kannur University, P P Krishanan Memorial endowment for the best student in Botany. Mannam Nidhi Loan scholarship and Kanaka Jubilee scholarship are instituted for PG students.

### **Staff club**

Staff club also provides financial assistance to various students based on need and merit. We also provide financial support to those excel in extra curricular activities like arts and sports.

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

The general Alumni Association of the institution is strong enough to undertake various activities of their alma mater for the benefit of the present students.

- Every year they felicitate the rank holders and the toppers of University examinations from each discipline. This year they felicitated the rank holder in B A history and other toppers in all disciplines by distributing the cash awards.
- They observed Pazhassi Day in a befitting manner in association with the College Union and Dept. of History. Dr M R Raghava Varrier, the famous historian was the chief guest.

- They arranged the annual gettogether on January 26<sup>th</sup> and felicitated the former outstanding volleyball players who are well placed in different walks of life in memory of the laurels they brought to the institution. Sports Council President Sri T P Dasan attended the function.
- Commerce Alumni association arranged a special programme named “guruvandanam” to honour the retired teachers from Commerce department.

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

The Parent teachers association was supportive in maintaining an ambience atmosphere in the campus and provides funds to disburse salary advance to guest lecturers. Further they supported financially weaker students through their merit-cum-means scholarship. They have also helped to improve in infrastructure by installing water cooler and other immediate requirements of the students. They have allotted Rs.15000/- towards the purchase of UV-Spectrophotometer to the Dept. of Chemistry. They took keen interest to disburse cash awards to rank holders and toppers to encourage them and other students. They have also supported the training of talented students to participate in the Kannur University Arts festival.

### **33. Health services:**

- **Blood bank and blood donation-** Zoology club made a blood donor directory after detecting the blood groups of students. A blood donation programme was organized in association with NCC and Govt. blood bank, Thalassery and donated 50 units of blood.
- **Eye disease detection camp** was undertaken by Dept. of Zoology in association with Vasan’s Eye Care, Kannur.
- **Health club** conducted a socio-economic and health survey jointly with the Women’s cell and NSS units of the residents of Ambedkar Colony which is adopted by the NSS of our college. Medical facilities from various agencies were extended to them.

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

- Students participated in Intercollegiate chess, foot ball, soft ball, volley ball, cricket, wrestling and athletics
- I place in intercollegiate and interdistrict chess tournament – Aparna R (III English)
- Selection to Kannur University soft ball team- Ratheesh( I M Com) and haneef ( III B Com)
- I place in triple jump in Kannur University Intercollegiate athletics- Robin Francis (II History)

#### **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 food to sportsmen residing in the hostel.
- Alumni association felicitated the former outstanding volleyball players who are now well placed in different walks of life.

#### **36. Student achievements and awards:**

**The % of results in all discipline is given below.**

<b>Discipline</b>	<b>Pass %</b>
English	88
Hindi	90
History	79
Economics	78
Mathematics	92
Physics	97
Chemistry	100
Zoology	100
B Com	84
M Com	89

Our students' performance in Kannur University Kalotsavam was exemplary.

### **Cultural activities- ON stage**

1. **Aswini, C P** of IV Sem Physics won the Nritha prthibha title with first place in 4 dance events.
2. **Ranjith**, III Hindi, was selected as the best actor in Drama Competetion.
3. **Theruvunadakam** team won II place with A grade
4. **Skit** team also secured II place with A grade.

### **Cultural activities- OFF stage**

5. Script writing in Hindi- I place-**Navya P K**, IV Sem English.
6. Script writing in English-I Place- **Aathira K R**, IV Sem, English
7. Script writing in Malayalam- II Place- **Aathira K R**, IV Sem, English
8. Malayalam Poem writing- III place- **Ameya M R**,IV sem English
9. Malayalam recitation- II place- **Rinsha N C**, IV Sem Bcom
10. Arabic Recitation- III Place- **Shemen P M**,III B Com
11. Sanskrit Elocution- **Sandeep G**, II Sem Physics

### **General**

1. **Sgt. Sarath Ganesh** attended Thal Sena Camp at Delhi
2. **Cpl. Amal Chandran** was adjudged as the best shooter of NCC, Calicut group.
3. **Ragitha K** of III Physics won the II prize in Intercollegiate Physics Colloquium organized by SAPE.
4. **Prasobh and Monisha Kumar** of III Physics won the III Prize in Intercollegiate Quiz organized by SAPE.
5. **Anusree M** of IV Sem Physics was awarded the “Kalayala kavitha Puraskaram” organized by “ District Kavi Mandalam”
6. **Ameya M R** of IV Sem English, was awarded the “Kalayala kavitha Puraskaram” organized by “Purogamana Kala Sahithya samithi”

### **37. Activities of the Career and Counselling Cell:**

Career Guidance and Counselling cell organized various seminars on “challenges in Science”, workshop on “Goal setting and Career plan” and an orientation on “Career options and opportunities”. PG dept. of Commerce in association with Logic management Training institute, Kochi organized a seminar on “Career orientation and success training programme”. Dept. of economics arranged a counselling session by Smt. Sruthi V V of ASK academy of skills and knowledge.

### **38. Placement services provided to students:**

Bio data and details of academic performance of students provided to outside placement agencies.

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

Computer training had been imparted 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:**

- **Work diary-** maintains the work diary by all teachers to note the daily planning and execution since 2008
- **Orientation to freshers and Residential camp-** Orientation to the first year students is provided in different platforms like IQAC and departments. Residential camp “TUNE 2020” is arranged by Dept. of Commerce for the freshers to motivate them in their studies and to promote soft skills.
- **Impressions-** The third News letter published by the College details the array of co-curricular and extracurricular activities undertaken during the academic year 2010-11 which testifies the quality concern in tune with the changing requirements of higher education to ensure equity, inclusiveness and social justice.

- **Resource Persons-** Many faculty members act as resource persons in various seminars, conferences, refresher courses and NET coaching.
- **Staff club get together-** In order to keep up the warmth among the teachers and ensure the togetherness in all activities, staff club organized a number of programmes like the celebration of Onam, X-mas etc, felicitation to teachers who got higher degrees or recognitions and to students who brought laurels to the college. An annual gettogether was also arranged.
- **Ornament making unit** – ED club in association with Women’s cell and Equal Opportunity Cell started functioning a new Ornament Unit in the college and they have arranged a display cum sale also.
- **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.
- **Ward Adoption:** A ward of Ambedkar Harijan colony was adopted by NSS units to extend our community services.

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

Physics and Zoology department collaborated with KSCSTE, an autonomous undertaking of Govt. of Kerala, for carrying out their projects and observing various important days like Science day, World Environment Day etc.

**42. Action Taken Report on the AQAR of the previous year: Not applicable**

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

1. Prominent alumni invited to interact with students to inspire and motivate them.
2. Publication of annual newsletter-Impressions- to highlight the activities among the stakeholders (attached herewith)

## Section C

### Outcomes achieved by the end of the year

1. Achievement of 100% results in Chemistry and Zoology disciplines and more than 90% in 3 other disciplines out of 7.
2. Students belong to SC/ST/OBC (NCL) and minorities were supported financially through a variety of scholarship schemes
3. Maximum financial support was made available to economically weaker students through fee concessions and scholarships.
4. Remedial teaching resulted in the better performance of students in University examinations.
5. Career oriented and soft skill training programmes enhanced the employability of students.
6. Better fellowship and companionship among students belonging to economically, socially and politically divergent group of students made the proper ambience for learning.

## Section D

### Plans of the HEI for the next year

1. 100% computer literacy and promotion of the use of ICT techniques in classes
2. Workshop on ICT assisted teaching for teachers
3. Workshop on Informatics to teachers by availing fund from Kerala higher education council
4. Encourage the submission of project proposals to various funding agencies to bring funds to the institution, by arranging a workshop on funding agencies and writing of a proposal
5. Conduct of three National seminars by the departments of Physics, Commerce and Zoology with the financial support of UGC
6. Conduct of foundation course in Human Rights Education by the Department of Economics by utilizing the funds from UGC
7. Academic extension programmes to senior secondary students of nearby schools
8. Strengthen the placement cell to place at least 25 students
9. Invited talks to strengthen the curriculum transaction in all disciplines
10. Academic enrichment programme-2011-12 based on a common theme
11. Waste disposal programmes by installing bio gas plant at college canteen
12. Students' Projects on bio-gas plant
13. Motivation class to teachers by IQAC for carrying out research activities
14. Counselling to parents to get aware of various schemes carried out in the institution by the funding of UGC and Govt.
15. Conduct of short term/certificate courses in the centralized computer center
16. Counselling on solar energy utilization, plastic waste management etc

17. Collaborative programmes with other institutions like NIT, Calicut, KILA, Trichur
18. Publication of a multidisciplinary research journal

**Name &Signature of the  
Director/Coordinator,**

**Name & Signature of the  
IQAC Chairperson, IQAC**