

**NIRMALA COLLEGE, MUVATTUPUZHA**  
**ANNUAL QUALITY ASSURANCE REPORT 2011-12**

**PART A**

*Plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year*

The academic year commenced with a staff meeting in which the Principal presented the action plan formulated at the end of the last academic year. The action plan was circulated to all departments for detailed discussion. The final draft was prepared by the IQAC incorporating department level modifications.

The Action Plan for the academic year 2011-12 in respect of the seven criteria was as under.

**i Curricular aspect**

- To take follow-up actions for sanctioning the new courses already applied
- To ensure participation of teachers in the PG curriculum restructuring workshops conducted by the university
- To organize demonstration lectures
- To conduct Cultural Exchange Programme.
- To provide an orientation programme to the students
- To organize Seminars on new developments in Folklore and cultural Study
- To prepare teaching plan
- To carry out PG student project in other institutions/departments
- To continue the existing certificate courses and add-on courses.
- To start Certificate Course in Field Ornithology, Spoken Hindi, Analysis of Natural Resources.
- To continue tutorship

- To continue training in Statistical Packages such as Minitab, Personality Development and Communication Skills
- To continue Coaching Classes for Entry in Services, Remedial classes.
- To continue ICWAI course
- To organise Interdisciplinary programmes

### **ii Teaching, learning and evaluation**

- IQAC shall evolve mechanisms and procedures to improve the academic and administrative performance of the institution by:
  - Developing quality benchmarks for the various academic and administrative activities.
  - Disseminating information on various quality parameters of higher education.
  - Documenting various programmes.
  - Preparing Annual Quality Assurance Report and Re - accreditation Report.
  - Introducing innovative methods of teaching, learning and evaluation
- Evaluation of teachers by students will be conducted at different times and will be intimated personally.
- Human Resource Development Training for students (HRD Training)
- Training in ICT enabled teaching and learning
- To conduct the annual exhibition by incorporating hobby collections and projects of students.
- Conduct remedial classes for weak students
- Provide opportunities for experiential learning
- Teachers Dairy, Tutorial and Mentoring for effective TLE.
- ICT enabled, student centred teaching.
- Continuous evaluation through assignments, seminars and project work, two internal examinations in each semester and regular monitoring of attendance.
- Teacher evaluation by structured questionnaire,
- Alumni, PTA and peer team feed back.
- More collaboration with Alumni Association for providing training to students.

- To organize National and international level seminars/ symposium/conferences
- To continue the Computer awareness classes

### **iii Research, consultancy and extension**

- To continue the activities of the Research and Development Cell
- Periodic meetings of the research scholars for research evaluation.
- Apply for more major/minor research projects to various funding agencies
- Establish / continue collaborative Programmes with national and International Agencies/ Universities.
- Organize Inspire Internship programme
- Provide Consultancy services such as DRC testing, Mushroom cultivation, Data analysis etc.
- Mass education programme *Golden Lecture Series* in association with Victor Channel of Government of Kerala.
- To continue the practice of Friday food collection for the poor.
- To organize extension activities in collaboration with LSGIs, NGOs
- Organise Medical camp and construct a house for the poor
- Assistance to 'Providence Home' is to be continued.

### **iv Infrastructure and learning resources**

- Submit application to UGC/state government to strengthen the indoor sports facilities
- Ensure the involvement of students, staff and other stakeholders in keeping the campus clean and eco-friendly.
- Purchase more Computers and UPS for various subunits of the College.
- Purchase modern lab equipments with the UGC grant
- Strengthen the central computer lab facilities by installing more number of terminals
- Purchase more laptops
- Purchase more books, journals and CDs/DVDs to the library.
- To purchase more books to the departmental libraries.
- Inaugurate the new MCA block.

- Install more Solar Lamps in the campus
- Complete the solid waste management project.
- Ensure annual maintenance of buildings and roads within the campus.

#### **v Student support and progression**

- To organise National Integration Camp for NCC Cadets all over India
- Involving the final semester Degree and P. G. students in the Alumni Day celebrations and conduct their induction to the alumni.
- Continue the practice of Talent Day including awarding of Gold medals to Rank Holders.
- To inform the students about the counselling facilities, various scholarships and awards instituted by the college and other well-wishers.
- To continue the best user library award with the help of Alumni Association.
- Encourage students to undergo NET training and coaching classes for entry in services.
- Progression and Placement data to be updated every year
- Strengthen the career guidance and placement cell to facilitate the students for various job opportunities
- UGC INFLIBNET facility is made available to the new comers of the college.
- A series of training programmes are planned in collaboration with the Alumni Association.
- To encourage students to participate intercollegiate quiz and other events
- To encourage students to participate in the activities of NSS/NCC/Clubs & forums etc.
- To organize regular PTA meetings.
- To initiate steps for Student Internships

#### **vi Governance and leadership**

- Initiate steps for NAAC re-accreditation during the current academic year.
- To continue the functioning of various committees to ensure transparency in all activities
- To continue the functioning of IQAC for quality sustenance and quality enhancement

- Celebrate days of national importance
- Continue the periodical departmental/ general staff meetings.
- To strengthen the grievance redressal mechanism by incorporating a complaint and suggestion box.
- To continue the practice of Annual budgeting and income and expenditure account system
- To organize intercollegiate fests
- Training programme for non teaching staff in file management, clerical and secretarial works.
- To conduct internal and external academic audits.

#### **vii Innovative practices**

- Introduce innovative and unique practices by each department for the welfare and academic excellence of the students
- Keep the campus clean as part of the association activity
- Regular upgradation of college website.
- Publish manuscript magazines by Associations.
- Training for students in experiential learning methods like editing and publishing of newsletter, Short film making, production of documentaries on socially relevant issues and Campus Radio.
- To continue
  - training in soft skill, personality development and life skills
  - Endowment lecture series
  - ‘Meet the Prominent Alumnus’ programme
  - *Shrudaya koottam and Ezhuthukoottam*

## **Part B**

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

#### **i. Curricular activities**

This year the college secured nine ranks in the university. Results of University Examinations March/April -2011

Subject	Distinction	I Class	% of pass	Rank
M.Sc. Statistics	6	8	100	I,III
M.Sc. Chemistry		7	70	
M.Sc. Zoology		9	75	
M.A. Economics	1	9	82.35	II
M.Com.	3	14	100	II
M.A. Hindi		12	80	
M.A. Malayalam	1	11	84.61	I
MCA	Result awaited			
BCA	1	33	54	
B.Sc. Mathematics	18	15	95.74	III
B.Sc. Physics	5	14	87.88	III
B.Sc. Physics (Voc.)	3	11	70	
B.Sc. Chemistry	10	15	91.16	
B.Sc. Botany	2	16	100	
B.Sc. Zoology	2	20	96.77	
B.A. Economics		16	100	
B.Com.		46	78.4	
B.Com (Voc.)		29	86.4	
B.A. Hindi		6	95.83	
B.A. Malayalam	2	16	100	III
B.A Comm. English		18	97.14	III

- Visited commission from MGU for sanctioning of new programmes- B.Com Travel and Tourism, M. Sc. Botany with bio technology specialisation, M. Sc. Applied Physics and M. Sc. Mathematics.

- Conducted
  - Value education classes
  - Orientation Seminars
  - National/International Seminars and Conferences
  - Invited talks/endowment lectures
- Continuous Evaluation through
  - Seminars, Assignments, Internal Examinations, Viva voce and regular monitoring of attendance

### **Details of seminars/Workshops/Conferences organized by the Departments**

#### ***Department of Hindi***

Invited lecture on *Transmission of values through literature* on 30/09/2011 by Dr. Vanaja K, Cochin University of Science and Technology.

#### ***Department of Malayalam***

1. State level seminar on *Sustainable Construction* by Padmasree G Shankar on 2-11-2011
2. State level seminar on *Ezhuthinte Vazhikal* by N. Prabhakaran on 08-12-2011

#### ***Department of Physics***

1. The dept of Physics conducted a “*National Symposium on Nanoscience and Technology- NANOSTECH 2011*”, during 1-2 Sept.
2. *INSPIRE INTERNSHIP* programme organized by the college from 29 Nov- 3<sup>rd</sup> Dec 2011 with the assistance of Dept. of Science & Technology, Govt. of India for attracting young talents to study Basic Science. The programme was inaugurated by Padmabooshan

Prof. Yashpal former UGC chairman. Padmabooshan Prof. Madhav Gadgil also participated in the programme.

3. Prof. Joe Jacob, Dept. of physics, Newman College, Thodupuzha, delivered a lecture on '*Radio Astronomy*' on 18/8/2011 .

4. Prof. Babu Joseph (former VC, CUSAT), delivered a lecture on "*Introduction to quantum Mechanics*" on 30-09- 2011 as part of *Golden Lecture Series*.

#### ***Department of Chemistry***

Sl.No	Seminar/ Lecture	Topic	Resource person	Date
1.	One day seminar	Nano Technology	Dr. Thresiamma George	14/7/2011
2.	Endowment Lecture	Isolobal concept	Prof. Dr. M. Padmanabhan	12/11/2011
3.	Seminar	Significance of International year of Chemistry	Prof. C.P. Aravindakshan	1/12/2011
4	Seminar	Inspiration from the life of Madam Curie.	Prof. S. Shivadas	2/12/2011

#### ***Department of Botany***

1. Two-day International Seminar on Cell and Molecular Biology conducted on 16 and 17<sup>th</sup> December 2011.

Sl. No.	Resource Person/Institution	Topic
1	Dr. Elena Ivanova-University of Geneva Switzerland.	Alu RNP modulated protein synthesis in eukaryotes by affecting 48S initiation complex formation.
2	Dr. Szydlowski N, University of Geneva Switzerland.	Starch granule initiation in Arabidopsis.



3	Alexis Jourdain, University of Geneva Switzerland.	Dual-targeting of the stress protein FASTK to cytosol & mitochondria.
4	Svetlana Boycheva, University of Geneva Switzerland.	PDX1.1 and PDX1.3 genes, involved in the biosynthesis of vitamin B6 have similar but not redundant function.
5	Sebastien Gentina, University of Geneva Switzerland.	Nematode and the application in the study of anoxia.
6	Dr. Joerg Morf, University of Geneva Switzerland.	Application of high-throughput sequencing to the study of a circadian RNA-binding protein.
7	Kim Schneider, University of Geneva Switzerland.	Rhythmic gene expression
8	Dr. Shirly George Panicker, Loyola College, Chennai.	Primary Congenital glaucoma a Childhood Blinding Disease-the Indian Scenario.
9	Mr. Swaroop S. Kumar, UniBiosys Biotech Research Labs, Cochin	Introduction to Bioinformatics and Introduction to Biological Databases

### *Department of Zoology*

Topic	National/State	Resource persons	Date
International Year of Forests	State	Dr. Priyadarshan D.R, ATREE, Bangalore	11-07-2011
Nanostech (UGC, DST, KSCSTE)	National	Prof. Ramachandran Thekkadath, VC, CUSAT et al.,	1-09-2011 to 2-09-2011
Inspire Internship (DST)	National	Padmabhusan Prof. Yashpal, Padmabhusan Madhav Gadgil et al.,	29-11-2011 to 03-12-2011
Responsible Tourism- Conservation and Economics (World Challenge, Dept. of Tourism, Kerala) <i>(in collaboration with Dept. of Economics)</i>	International	Hon. Min. Forest Sri B. Ganeshkumar, Prof. Dr. Rajan Gurukkal V.C, M.G. University, Adam Dickinson (World Challenge) et al.,	5-12-2011 to 7-12-11

***Department of Statistics***

Conducted 2 day workshop on ***Basic Computer Awareness and Internet*** for women SHG during the first week of December, 2011.

***Department of Economics***

<b>Topic</b>	<b>Level</b>	<b>Resource Persons</b>	<b>Date</b>
Local Self Governance: Fiscal and Service Delivery Dimensions	National	Prof. M A Oommen <i>Emeritus Prof., ISS, New Delhi</i> , Prof. D Narayana, <i>CDS, TVM</i> , Prof. Pinaki Chakraborty, <i>NIPFP, New Delhi</i> , Dr. K Gayithri, <i>ISEC, Bangalore</i> , Dr. Devendra Babu, <i>ISEC, Bangalore</i> , Dr. Jose Sebastian, <i>Gulati Institute of Finance and Taxation, TVM</i>	5-6 Nov. , 2011
Responsible Tourism: Current Perspectives in Conservation & Economics <i>(in collaboration with Dept. of Zoology)</i>	International	Prof. P M Rajan Gurukkal, <i>Vice Chancellor, MGU, Kottayam.</i> Mark Brough, Bristol, UK, Sanjayakumar IFS, <i>Dy. Director, Periyar Tiger Reserve, Thekkady.</i> Prof. Francis Xavier, <i>Kerala Veterinary and Animal Sciences University, Mannuthy, Thrissur.</i> .Adam Dickinson, <i>Expedition Leader, 'World Challenge' Australia</i> , Cheryl Anne Linford, <i>Institution Leader, 'World Challenge', Australia</i>	5-7 Dec., 2011
5 Day Workshop on Econometric Methods	College	Dr. Vinish Kathuria, <i>Faculty, IIT –Bombay</i> Dr. Rajesh Raj SN, <i>Faculty, CMDR, Dharward</i>	24-28 Nov., 2011

***Department of Commerce***

1. ***Personality development and motivation*** class organized jointly by Malayala Manorama & ICWAI cochin chapter and department of commerce, inaugurated by Shanker P Panicker(Chairman, ICWAI).The resource persons were M.E.S Menon & Anil Xavier, M.D., Cochin Stock exchange, on 18-06-2011.
2. ***Career awareness programme*** for B.Com students. Talk delivered by Mr. Vinay Sood, Newsland on Career awareness in higher education and Mrs. Haripriya Vijay on career opportunities and services on 13-07-2011.
3. Seminar by the Institute of Company Secretaries of India on 19-07-2011.
4. Conducted ***Entrepreneurship Awareness Campaign*** by KIED inaugurated by Smt. V. K Beenakumari (Executive Director, KIED) & Talk delivered by Prof. K.M.H Ekbal on 24-08-2011.
5. Organized ***personality development programme*** for B.Com Vocational by Mr. Ginto Mathew (Race Solutions Pvt. Ltd. Ernakulam) on 24-08-2011.

***Department of Computer Science***

Topic	National/State Level	Resource Person	Date
Orientation Program for I BCA	College	Mr. Sooraj Abraham, Chief Trainer, Career. Com, Aluva	3/08/11
Orientation Program for I MCA	College	Mr. Sooraj Abraham, Chief Trainer, Career. Com, Aluva	18/08/11 & 19/08/11

**Details of seminars/Workshops/Conferences attended by faculty members in other institutions.**

**A. International**

- *Dr. Shaju Thomas* , Dept. of Zoology attended *Colorado Conference on Earth System Governance* ,17-20 May, 2011 Colorado State University, Colorado , USA
- *Dr. Johny Scaria and Dr.Seetha Lekshmi,V.* , department of Statistics attended *XXXI Annual convention of ISPS and International conference on Statistics , Probability and related areas* on 19-22 December 2011 organized by Dept. of Statistics CUSAT Cochin in association with MOSPI, Govt . of India and UGC

**B. National**

- *Dr. C. Viswanathan*, department of Hindi attended National Seminar on “*Open and Distance Learning in General and its impact on Kerala in particular*” at IGNOU Reginal Centre Trivandrum on August 5 and 6, 2011
- *Prof. Susan Varghese*, department of Physics participated in the two day national seminar on *Energy and Environment* at BCM College Kottayam, during 16-17 June 2011.
- *Dr. Shaju Thomas*, Department of Zoology attended National Level workshop on *Alternative to the use of Animals in Life Science Education*, 25-26, Nov 2011, Stella Maris College, Chennai
- *Dr. Gigi K. Joseph*, Department of Zoology attended *Modern Trends in Biodiversity Conservation*, Devamatha College, Kuravilangad during 18 &19 August 2011

- **Dilmol Varghese**, Department of Zoology attended seminar on **Threats to Biodiversity**, at Sacred Heart College Chalakudy in collaboration with River Research centre Thrissur on 13-14 October 2011
- **Leena John.**, Department of Botany attended two-day UGC –Sponsored National Seminar on **Biodiversity and Conservation**, organized by the Department of Botany, St.Joseph’s College, Irinjalakuda.
- **Dr.Sr Tessy Joseph**, Department of Botany attended Two day UGC sponsored National Conference on **Biodiversity and Bioprospecting with Reference to Plants and Microbes** on 8<sup>th</sup> and 9<sup>th</sup> Dec.2011 organized by department of Botany St.Albert’s College Ernakulam.
- **Jose Augustine**, department of English attended National level Conference on **American Studies** at St. Thomas College Palai on July 27 and 28, 2011.
- **Nibu Thomson**, department of English attended National level Conference on **American Studies** at St. Thomas College Palai on July 27 and 28, 2011

The faculty of Department of Economics participated in the following seminars.

Name of the Faculty	Nature	Name of the program	Date	Venue	Institution
J Georgi Neernal	National Workshop	Econometrics	1-6 March, 2011	St. Theresa’s College, EKM	Indian Econometric Society
Jenni K Alex	National Workshop	Econometrics	1-6 March, 2011	St. Theresa’s College, EKM	Indian Econometric Society
Emmanuel Thomas	National Seminar	The Emerging Trends in the Capital Market in India	20-21 Oct. 2011	St. Paul’s College, EKM	St. Paul’s College, EKM

The faculty of Department of Computer Science participated in the following seminars.

Name of the Faculty	Nature	Name of the Program	Date	Name of the Institution
Mr. Sherin Mathew G.	National Conference	Computing & Communication	26, 27 May 2011	School of Computer Science, MG U, Kottayam
Ms. Smitha M	National Workshop	Workshop on LaTeX	22/07/2011	FISAT Angamaly
Ms.Jiss Kuruvilla	National Workshop	Workshop on LaTeX	22/07/2011	FISAT Angamaly

### C. State level

- **Dr. C. Viswanathan** , Department of Hindi, attended Seminar on *Decentralisation* at KILA, Govt. of Kerala, Thrissur, on October 24, 2011
- **Dr. Julia Emmanuel**, Department of Hindi, attended NSS Training programme at Rajagiri College, Kalamassery from 26 Sept. to 1 October 2011.
- **Smt. Rageena Joseph**, Department of Physics, attended 2 days *Curriculum workshop in Physics* held at MG university at Kottayam, during 11-12 Aug 2011
- **Sri Aloysius Sabu N**, Department of Physics, attended 2 days *Curriculum workshop in Physics* held at MG university at Kottayam, during 11-12 Aug 2011
- **Dr. Thomas Varghese**, Department of Physics, participated in the state level UGC sponsored “*Workshop on Electronic Instrumentation*”, at Morning Star College, Angamali, on 21 July, 2011.

- **Sunny Joseph**, Department of Physics, participated in the state level UGC sponsored “**Workshop on Electronic Instrumentation**”, at Morning Star College, Angamali, on 21 July, 2011.
- **Ansy P.S.**, department of Botany attended **Two**-day State-level workshop on **CBCSS Botany Curriculum Review**, on 21<sup>st</sup> & 22<sup>nd</sup>, July, 2011 at Mahatma Gandhi University, Kottayam.
- **Dr. Gigi K. Joseph**, department of Zoology attended Seminar on **Biodiversity at Risk- An Indian Perspective** during 28 &29 Sept 2011.
- **Dr. Gigi K. Joseph**, department of Zoology attended UGC sponsored workshop on **Modern Biological Techniques and Bioinformatics –with special reference to restructured syllabus** during 11-13 August 2011
- **Anu Anto**, department of Zoology attended Value @ Amrita, Workshop on **Virtual Labs**, 24<sup>th</sup> Sept, 2011
- **Anu Anto**, department of Zoology attended Workshop on **Modern Biological Techniques & Bioinformatics –with special reference to restructured syllabus** during 11-13 August 2011
- **Mary P C**, department of Zoology attended workshop on **CBCSS Zoology Curriculum Review for zoology Teachers** Conducted by M G University
- **Dr.Mathachan Pathiyil** , **department of Statistics** Participated in the curriculum restructuring workshop for M.Sc. Statistics by M.G. University at St. Thomas College Palai on 12-14 December 2011

- **Dr. Johny Scaria**, Department of Statistics Participated in the curriculum restructuring workshop for M.Sc. Statistics by M.G. University at St. Thomas College Palai on 12-14 December 2011
- **Prof. Thomas Lazar** Department of Commerce participated the two day **CBCSS curriculum Review workshop for commerce teachers** held at CMS college Kottayam 14-15 Sept 2011
- **Prof. K.M George** Department of Commerce participated in three day workshop on **designing Post Graduate programme in Commerce under credit & semester system** on 12-14 December 2011 at S.B college Changanacherry organized by MGU.

The faculty of Department of Chemistry participated in the following seminars.

Sl.No	workshop	Institute	Name of faculty	Dates
1.	Two day Curriculum review workshop	M.G. University Kottayam	Sri. Majo V. Kuriakose	20-21 June 2011
2.	Two day Curriculum review workshop	M.G. University Kottayam	Smt. Mercyamma Jacob	20-21 June 2011

The faculty of Department of Economics participated in the following seminars.

Name of the Faculty	Nature	Name of the program	Date	Venue	Institution
Jenni K Alex	University Workshop	Curriculum Review Workshop	8 <sup>th</sup> August, 2011	MG University, Kottayam	MG University, Kottayam
Emmanuel Thomas	University Workshop	Curriculum Review Workshop	8 <sup>th</sup> August, 2011	MG University, Kottayam	MG University, Kottayam



J Georgi Neernal	University Workshop	Curriculum Review Workshop	8 <sup>th</sup> August, 2011	MG University, Kottayam	MG University, Kottayam
Jenni K Alex	Life Skill Education	Training for Trainers	23-25 Sept. 2011	Maria Rani Training Centre, Trivandrum	Kerala State Aids Control Society

### **Annual Science, Art and IT exhibition**

The college conducted the National level IT fest, Cameo '12 on 21<sup>st</sup> December 2011. The fest was inaugurated by Dr. T.M Joseph, Principal, Newman College, Thodupuzha. There were 169 participants from 24 different colleges. The fest comprised of five events, the Technical Quiz, Coding, Web Designing, Word Hunt, and Treasure Hunt. Rajagiri College of Social Science, Kalamassery got the Overall Championship.

### **Ø Teacher Quality**

#### **Faculty as Resource Persons**

- Sr. Biji M.P.**, department of Malayalam was resource person in the Seminar on *Straina Mudrakalude Veendeduppu* Organized by Students Christian Movement Kerala Region at UC College Aluva on 18-12-2011
- Dr. Thomas Varghese**, department of Physics delivered a talk on “*Nanophysics: An Overview*” in a seminar on Electronic instrumentation at Morning star Home science college, Angamaly on 20-07-2011.
- Dr. Thomas Varghese**, department of Physics is a resource person of Kerala Public Service Commission.

- **Dr. Sankararaman S** , department of Physics Conducted lectures in collaboration with Victers channel, Govt. of Kerala
- **Josekutty J Ozhukayil** , department of Chemistry has served as Resource person on a seminar on Art of Parenting at Jai Rani Public school Thodupuzha, Idukki , on 19 November 2011.
- **Dr. Shaju Thomas** , department of Zoology was the resource person for **Coursework Talk- Methods in Biology**, School of Biological Sciences MG University On 7<sup>th</sup> July 2011
- **Dr. Shaju Thomas**, department of Zoology was the resource person for talk on **New Biology**, Dept. of Zoology, Devamatha College, Kuravilangad on 4th August 2011
- **Dr. Shaju Thomas**, department of Zoology was the resource person for **Inspire Internship** Talk- Nirmala College, 29<sup>th</sup> Nov.2011
- **Dr. Gigi K. Joseph**, department of Zoology was the resource person for “**Modern Trends in Biodiversity Conservation**”, at Devamatha College, Kuravilangad , on 18 &19 August 2011
- **Dr. Shaju Thomas**, department of Zoology was the resource person for **International Conference on Responsible Tourism** 5-7 Nov.2011
- **Dr. Gigi K. Joseph**, department of Zoology was the resource person for **National Seminar on Biodiversity** , PG Dept. of Zoology, Alphonsa College, pala,15<sup>th</sup> Dec. 2011.

- **Dr. Gigi K. Joseph**, department of Zoology was delivered a talk on “Kerala – A Biodiversity Perspective” in *National Integration Camp* organised by NCC, in Nirmala College Muvattupuzha on 24<sup>th</sup> December 2011.
- **Dr. T. M. Jacob**, Department of Statistics was resource person “*Teaching on SPSS*”, Christ College, Irinjalakkuda, Aug. 20, 2011
- **Dr. T. M. Jacob**, Department of Statistics was Resource person “Teaching on SPSS”, IGNOU centre, Cochin
- **Rev. Dr. Vincent Joseph**, Department of Malayalam was Resource person in the *refresher course for special teachers* in Nirmala Sadan Training College for Special Education on 17/10/2011 to 21/10/2011.

Faculty members of the department of Economics acted as resource persons in the following programmes

Faculty	Programme	Topic	Organised by	Venue	Date
J.Georgi Neernal	Training of Higher Secondary School Teachers	Field level training of Higher Secondary School Teachers	Idukki District	GHSS Thodupuzha	December 2011
JenniK Alex	Orientation class for NSS volunteers	Creation of positive energy	NSS unit Newman College , Thodupuzha	Govt. Polytechnic Muttom	04-09- 2011

- Faculty members of the department of Commerce acted as resource persons in the following programmes

Name	Topic	Place	Date
Prof. Thomas Lazar	Research Methods	Mar Elias College Kottapady	10-12-2011
	Career Guidance	St Josephs HSS Karimanoor	16-12-2011
	Modern Interview Techniques	Govt. Polytechnic College, Vennikulam	17-11-2011
Dr. GireeshKumar G.S	India-Global economic crisis	S.S.V college Perumbavoor	22-08-2011
	Impact of global financial crisis on Indian economy	Yeldo Mar Baselious college Kothamangalam	16-09-2011
	Quality culture and accreditation	St.Thomas College,Pala	19-09-2011
	Corporate governance	Shadwell International Bsiness school, cochin	10-11-2011
	Internet banking-Global trends and Indian experience	St.Gits Institute of Management Kottayam	12-11-2011

### Faculty Improvement

Smt. Ramani Ammal A. and Smt. Subi Baby were awarded Ph. D. during this year. Smt. Rani Mathew, Dept. of English submitted the thesis to the University. Smt. Rageena Joseph, Dept. of Physics participated in the refresher course in physics at ASC, University of Kerala, from 1-21 November 2011.

## Publications

### a. Books

#### *Hindi*

- *Dr. Suja C.*, published *Uthat Aupaniveshik Vimarsh aur Hindi Kavitha*, Adhar Prakashan Hariyana, 2011.
- *Dr. Suja C.*, published *Kavitha Ka Varthaman*, Vani Prakashan, New Delhi, 2011.

#### *Physics*

- *Thomas Varghese*, *Nanotechnology: An introduction to synthesis, properties and applications of Nanomaterials*, ISBN: 978-81-269-1638-2, Atlantic Publishers, New Delhi, (2011)

#### *Chemistry*

Name of Book	Name of faculty	Publisher	Dates
PET-SWNT Nanocomposites through Melt Compounding Preparation and crystallisation characteristics	Prof. Dr. Thomas Francis, Prof. Lissamma Joseph, Dr. Marthakutty Joseph	NARP	November 2011

#### *Botany*

- *Seminar Proceedings-State Level Workshop on Mushroom cultivation* October 8<sup>th</sup> & 9<sup>th</sup> 2010. Chief Editor Dr. Sr. Tessy Joseph. Co-Editors Ms. Ansy P.S., Ms. Philomina T.V. and Ms. Rani John. Published by Principal Nirmala College Muvattupuzha.

## *Zoology*

- *Shaju Thomas, Gigi K. Joseph et. al . Environmental Biology, Toxicology & Disaster Management –The fundamentals for Undergraduate Students .2011, Published by Greenleaf Publications, Kottayam, Kerala*
- *Shaju Thomas and Sajan Jose K. 2011. Meliponiculture- A Hand Book for Farmers. Published by the Authors*

### **b. Book Chapters**

## *Physics*

- Anu Tresa Sunny, *Sunny Joseph*, Thresiamma George, Sabu Thomas, and Suresh Mathew in ‘Polymers for Advanced Nanomaterials: Synthesis Properties and Applications’ (ed. Amar Singh) (2011) Ch. 14, pp. 307-364, Studium Press, New Delhi.
- *Thomas Varghese*, Sukirtha and *Sunny Joseph*, Biosensors Based on nanomaterials, Studium Press (India), New Delhi (2011) (In Press)

### **c. Articles**

## *English*

- *Rani Mathew . Revision as Medium, Science and Society. Vol.9 (2), July- Dec 2011*

## *Physics*

- Suprabha T., *Sunny Joseph* and Suresh Mathew in Nanotitania for photocatalytic applications: Encyclopedia of Semiconductor Nanotechnology (ed. Ahmed Umar), American Scientific Publishers, California, (2011) V. 5, pp 1-33.

- Thresiamma George, **Sunny Joseph**, Anu Tresa Sunny and Suresh Mathew, 'Visible-light photocatalytic activities of  $\alpha$ -AgVO<sub>3</sub> nanorods and BiVO<sub>4</sub> nanobars', International Journal of Nanotechnology, (2011) V.8, Nos.10/11/12, pp. 963-978.
- **Sunny Joseph**, Anu Tresa Sunny, Thresiamma George, Rajan Jose, Thomas Varghese, K.C. George and Suresh Mathew 'Soft Chemical Synthesis and Structural Characterisation of Nanophase Zinc Orthophosphate: Effect of Mn<sup>2+</sup> on its Photoluminescence', Proceedings of NANOSTECH 2011, Science and Society, (2011) 9/2, 219-226

#### **Botany**

- **Sr. Tessy Joseph et al**, "Delicious recipes of Mushroom" published in proceedings of state level workshop on Mushroom Cultivation.
- **Sr. Tessy Joseph et. al.** "Mushroom cultivation" published in proceedings of State Level Workshop on Mushroom Cultivation.

#### **Zoology**

- **Shaju Thomas**. 2011, "Linking Natural and Social Sciences for Earth System Governance– A Case Study from the Western Ghats, India" *Web. Proceedings - Colorado Conference on Earth System Governance: crossing boundaries and building bridges*, Colorado State University, USA: 17-20<sup>th</sup> May 2011
- **Gigi K. Joseph**, 2011, Feeding Ecology of Lion tailed macaque (*Macaca silenus*) in Silent Valley National Park, Kerala, India, *Science and Society* 9 (1).2011.
- **Shaju Thomas and Sajan K. Jose**, Stingless beekeeping in Kerala. *Proceedings of the National Seminar on Harmful/Beneficial Insects of Agricultural*

*Importance*, 17-18 Feb. 2011, PG and Research Dept. of Zoology, St. Joseph's College, Devagiri College, Calicut, Kerala

### ***Statistics***

- ***Johny Scaria and Biju Thomas*** (2011). Concomitants of order statistics from Bivariate Cambanis Family. *Science & Society* 9(1).
- ***Gijo, E. V and Johny Scaria*** (2011). 'Application of Taguchi method to optimize the characteristics of green sand in a foundry', *International Journal of Business Excellence*, 4(2), 191-200.
- ***Gijo, E. V and Johny Scaria*** (2011). Application of Six sigma Methodology to reduce Defects of a grinding process. *Quality and Reliability Engineering International*. DOI; 10.1002/qre.1212.

### ***Economics***

- Emmanuel Thomas (2011), Adult Mortality in Indian States, Southern Economist, pp. 34-38.

### **Paper Presentations**

#### ***Malayalam***

- ***Sr. Biji MP***, paper presentation on *Straina Mudrakalude Veendeduppu* in the seminar Organized by Students Christian Movement Kerala Region at UC College Aluva on 18-12-2011

#### ***Botany***

- ***Leena John*** presented a paper on "*Palynological Studies on the South Indian Onagraceae*" in a Two-day UGC-Sponsored National Seminar



on Biodiversity and Conservation, organized by the Department of Botany, St. Joseph's College, Irinjalakuda.

- **Leena John** presented a paper on “*Palynology – an overview*” in the International Seminar on Cell and Molecular Biology, organized by the Department of Botany, Nirmala College, Muvattupuzha on 16 to 17<sup>th</sup> December 2011.
- **Dr. Sr. Tessy Joseph** presented a paper on “*Antidiarrheal activity of the leaf of Barringtonia Acutangula Barringtonia*” in the International Seminar on Cell and Molecular Biology, organized by the Department of Botany, Nirmala College, Muvattupuzha on 16 to 17<sup>th</sup> December 2011.
- **Dr. Sr. Tessy Joseph** presented a paper on “*Mushrooms for healthy and wealthy life*” in a Two day UGC sponsored National Conference on Biodiversity and Bioprospecting with reference to Plants and Microbes on 8<sup>th</sup> and 9<sup>th</sup> Dec.2011 organized department of Botany, St. Albert's College Ernakulam.

### **Zoology**

- **Dr. Shaju Thomas**. “Linking natural science and social science for earth system governance”, Colorado Conference on Earth System Governance, 17-20 May, 2011 Colorado State University, Colorado , USA
- **Dr. Shaju Thomas** , Man and Nature -Inspire Internship Talk. Organised by Nirmala College, Muvattupuzha, November 29 to December 3, 2011.

- **Dr. Gigi K. Joseph**, *Lion-tailed macaque (Macaca silenus) as a flagship species for the biodiversity conservation efforts in Silent valley National park, Kerala* State level Seminar on Biodiversity at Risk- An Indian Perspective organized by Bharta Mata College Thrikkakara, Kochi. during 28 &29 Sep 2011
- **Dr. Gigi K. Joseph**, *Solid Waste Management*. UGC sponsored workshop on Modern Biological Techniques and Bioinformatics –with special reference to restructured syllabus organised by The Department of Zoology, Baselius College, Kottayam during 11-12 &13 August 2011
- **Dr. Gigi K. Joseph**, *Modern Trends in Biodiversity Conservation- A Case study from Periyar Tiger Reserve, Kerala*, organised by Dept of Zoology, Devamatha College, Kuravilangad during 18 &19 August 2011.

### **Statistics**

- **Dr. Johnny Scaria:** *Concomitants of Records from Bivariate Cambanis Family*, XXXI Annual convention of ISPS and International conference on Statistics , Probability and related areas on 19-22 December 2011 organized by Dept. of Statistics CUSAT Cochin in association with MOSPI, Govt . of India and UGC
- **Dr. Seetha Lekshmi V:** *On Generalized Poisson Processes* XXXI Annual convention of ISPS and International conference on Statistics , Probability and related areas on 19-22 December 2011 organized by Dept. of Statistics CUSAT Cochin in association with MOSPI, Govt . of India and UGC

### **Commerce**

- **Dr. Gireesh Kumar G.S** presented a paper on *Internet Banking –Global trends and India’s experience* at St. Gits Institute of management on National seminar on banking and finance on 12-11-2011.
- **Dr. Gireesh Kumar** presented a paper on *Topic Global financial crisis-How India weathered the storm* at National Seminar in Christ College Banglore on 29-11-2011.

### **Physical Education**

- **Santhosh J.** presented a paper on *Effect of selected core power, Iron yoga practices on strength, flexibility and vital capacity among football players* at national conference organised by St Aloysius college Edathua on 15 to 17<sup>th</sup> Dec 2011.

#### **Ø Co-curricular and extra curricular activities**

- Dr. V.C. James, department of Hindi officiated as National Shooting Team Coach, for the international competition held in Germany in May 2011.
- All the faculty members are involved in co curricular and extra curricular activities of the college as coordinators of various clubs and forums and members of various committees.

#### **NSS Activities**

- **Free Tuition: East High School Muvattupuzha**

As part of the free tuition programme, NSS volunteers of Nirmala College Muvattupuzha gave an orientation class to the students of East High School, Muvattupuzha on 27<sup>th</sup> September 2011. The volunteers conducted classes on

Study skills, speaking skills, soft skills, observation skills and various higher education opportunities.

- ***Aids Day***

The N.S.S unit Nirmala College Muvattupuzha conducted the AIDS day celebration as part of the World AIDS day on 1 December 2011. Prof. N. Joy, Principal, gave the anti-AIDS message. Pamphlets on anti-AIDS were distributed among the volunteers and anti-AIDS day pledge was taken. The pamphlets were also distributed among all students in the college.

- ***Medical Camp***

National service scheme Nirmala College, Muvattupuzha conducted a one day medical camp on 11<sup>th</sup> December 2011 for the categories E.N.T, Eye and Ortho. A group of 20 doctors and Assistants from MOSC Medical College Kolenchery attended the patients. Five hundred people from the neighbourhood community attended the camp and benefited from it.

#### ***NCC Activities***

- Organised National Integration Camp conducted by 18 (K) Bn NCC Muvattupuzha, Kottayam Grp HQs was hosted in Nirmala College during 23<sup>rd</sup> Dec., 2011 to 3<sup>rd</sup> January, 2012. 660 cadets attended the camp. Union minister of Home Affairs, Prof. K. V. Thomas inaugurated the camp. Sri P. J. Joseph, Hon. Minister for Irrigation, Kerala state inaugurated the closing ceremony on 2/01/2012.

- Inauguration of the project – Youth for Nation Building – launched by Nirmala College NCC unit 30/06/82011.
- Abraham Kochikunnel of BCA got selected to YEP ( Youth Exchange Program) CADET to represent India at Singapore.
- Seven students attended National Integration Camp
- 47 qualified ‘B’ Certificate and 20 students qualified ‘C’ Certificate examination
- A seminar on Anti Drug Drive was organised on 18/07/2011 by NCC unit in corportation with the Central Excise Department. Resource persons were Adv. Charlie Paul and Lt. Col. Madhusudhanan G. CO of 18 (K) Bn NCC.
- A cultural event “Jazz 2011”was organised by the Nirmala college NCC unit on 13 December, 2011. Lt. Col. Rakesh Sinha, CO, 18(K) Bn NCC Bn Muvattupuzha was the chief guest.

#### **Ø Staff Development Programmes**

- College organised two international seminars/conference during this year.
- Science departments organised a national symposia on Nanotechnology on 1-2 Sept. 2011.
- Faculty attended workshops and seminars organised by various agencies.
- Department of Economics Started a ‘Teacher Advancement Programme’ (TAP) under which the following programmes were organised.

<b>Topic</b>	<b>Resource Persons</b>	<b>Date</b>
<i>'The Changing Facets of Higher Education in India and the Challenges before Student and Teacher Community'</i>	<b>Abraham Kurien IPS</b> <i>Former DGP, Uttar Pradesh</i>	<b>22-July-2011</b>
<i>'The Winning Edge'</i>	<b>M.A.S. Menon</b> <i>Leading Trainer</i>	<b>27-July-2011</b>

- Fifteen Faculty members from various disciplines participated in curriculum revision/restructuring workshops organised by MGU.
- College organised two day orientation programme for staff members.
- College organised invited/endowment lectures on topics of contemporary relevance.

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

- Thirteen ***Open Courses*** are introduced in the UG programme.
- Started certificate course in ***Field Ornithology*** by the Department of Zoology.
- Thirteen ***Choice based Courses*** are introduced in the UG programme.

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

At the beginning of the academic year staff meeting is held to prepare curriculum plans. Department level staff meetings are held to discuss the improvements to be made in teaching and learning. Yearly evaluation of the performance of all departments is conducted. Assignment, seminars, viva-voce and internal examinations as part of continuous evaluations are also conducted.

- Centralised Allotment Process for the UG and PG admission
- Students of Communicative English with the guidance of the teachers, bring out a model newspaper, short films and radio programmes.
- College provides training programmes through Departments of
  - Statistics
    - § Statistical Packages like Minitab, R
    - § SPSS
    - § SAS
  - Computer Science
    - § Personality Development
- Value addition through orientation programmes, value education classes and tutorial system.
- Organises state, university, national, international level workshops/symposium
- Endowment lectures on topics of contemporary relevance.
- Various departments follow curriculum transaction methods like
  - Interactive sessions
  - Inter Disciplinary approaches
  - Audio visual means
  - Field Trips
  - Industrial visits
- Academic Review and Performance Evaluation
  - Internal academic audit for the academic year was conducted during 10-14<sup>th</sup> November 2011 under the initiative of IQAC. The IQAC subcommittee visited all the departments, verified all the documents and interacted with the faculty members.

- An external academic audit for the academic year was conducted on 23<sup>rd</sup> November 2011 by a peer team lead by Dr. Jacob John Kattakkayam.

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

- Thirteen Open Courses started and the certificate courses offered in the college are interdisciplinary in nature.
- Continued ICWAI Intermediate course.
- Continued Add-on Course in Information Technology

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

- Online downloading of hall tickets
- Online submission of internal marks to the university
- § Continuous evaluation process as part of CBCSS
- § CV camp centre in the college
- § Printed booklets for internal examinations
- § Oral evaluation for examinations of Common Course English Paper I.
- § Organised orientation/awareness programmes on CBCSS grading and evaluation for the students.

6. ***Candidates qualified: NET/SLET/GATE/CAT/MAT/ISS/ICWAI/IFS etc.***

***Malayalam***

Arathy P Nair	NET	2011
Neena Thomas	NET	2011

***Chemistry***

Vivek B.	JRF	2011
Anjana B.N.	NET	2011



***Statistics***

Anilakumari T. Indian Statistical Service      2011

***Economics***

Sruthy KN                      UGC-NET                      2011

Alphonsa K Joy              UGC-NET                      2011

Shiji K                              UGC-NET                      2011

***Commerce***

Binoy Chacko                  JRF                                  2011

Parvathy Mohan,              NET                                  2011

Anu mol Antony,              NET                                  2011

Sheeba Joseph,                NET                                  2011

Sajeev A.M                      NET                                  2011

Reena Joseph,                 SET                                  2011

Divya James                    SET                                  2011

Rahul Sunny                    ICWAI                              2011

**7. Initiative towards faculty development programme :**

- **Prof. Rani Mathew** submitted Ph.D. thesis to Sree Sankara University, Kalady.
- Prof. J. Georgi Neernal** continued FIP in School of Gandhian Thoughts, M.G. University, Kottayam.
- Smt. Rageena Joseph** participated in the refresher course in physics at ASC, University of Kerala, from 1-21 November 2011.
- Dr. Julia Emmanuel**, Department of Hindi, attended NSS Training programme at Rajagiri College from 26 Sept. to 1 October 2011. All the faculty members attended seminars/workshops organised by the college.

8. **Total number of seminars/workshops conducted: (Nos.)**

- a. International : 2
- b. National : 3
- c. State level: 18

9. **Research projects a) Newly implemented: b) Completed:**

Name of Faculty	Dept	Funding Agency	Am	Nature	Topic	Status
			(Rs)			
Dr. Seetha lakshmi V.	Statistics	UGC	1,25,000	Minor	Discrete Laplace Distribution and its Generalizations-Application in Reliability Analysis and Financial Modeling	Ongoing
Dr. Sr. Tessy Joseph	Botany	UGC	90,000	Minor	Pharmacognosy	Completed
Dr. James George	Hindi	UGC	90,000	Minor	Study of Hindi as second language in Colleges-Impact, Problems and Solutions.	Completed
Dr. Sanish P.B.	Sanskrit	UGC	65,000	Minor	Cultural Influence of Koodiyattam in the formation of Kerala social life A cultural study	Ongoing
Dr. Beenamma Mathew	Malayalam	UGC	540,000	Major	Cultural Heritage of Kodungalloor	Ongoing

Dr. Marthakutty Joseph	Chemistry	UGC	1,05,000	Minor	Analysis of soil samples from Rubber and Pineapple cultivation in different region	Completed
Jose Karikunnel	Chemistry	UGC	85,000	Minor	Investigation of Various Chemical Factors Affecting Tea Flavour	Ongoing
Lizamma Abraham K.	Economics	UGC	25,000	Minor	Socio-Economic Problems of Hill Tribes -A Case Study of Kuttampuzha	Completed
J Georgi Neernal	Economics	UGC	30,000	Minor	Implications of Ageing and Socio-Economics Problems of Old Aged in Kerala - A micro level study in Idukki and Ernakuar District of Kerala	Ongoing
Emmanuel Thomas	Economics	UGC	30,000	Minor	Human Development Index of Dalits in Kerala - A Case Study of Idukki District	Ongoing
Rev. Dr. T.M. George	Economics	UGC	8,39,700	Major	Impact of the Economic Status of the Students on their Value Formation in Higher Education	Completed
Dr. Thomas Varghese	Physics	UGC	Rs. 1,49,000	Minor	Synthesis and Application of Nanocrystalline Metal Oxides	Ongoing

Dr. Shaju Thomas	Zoology	UGC	Rs. 150,000/-	Minor	“Molecular Systematics and Ecology of Stingless bees ( <i>Trigona iridipennis</i> ) of Southern Western Ghats	Ongoing
Seema Joseph	Malayalam	UGC	1,00,000	Minor	Muduyar, Kurumbar ennavarute jeevithavum kalaparambaryavum	Ongoing
Biji M.P.	Malayalam	UGC	60,000	Minor	Feminine Spirituality in the works of Sarah Joseph	Ongoing
Annie Thomas	Malayalam	UGC	80,000	Minor	Bhavukathua Parinamam:MT-yude Thirakkathakalil	Ongoing
Dr. Mary Chandrika and Remaniammal .A	Hindi	UGC	7,35,800	Major	A critical evaluation of the current pedagogical means and ends on the backdrop of the ethical legacy of Kabir Das and Thulsidas	Ongoing
Rev. Dr. Vincent Joseph	Malayalam	UGC	80,000	Minor	A research about the X'tian contribution to the language and culture to the Kerala society based on the historical documents in the ancient churches of middle Kerala	Newly implemented

Dr. Thomas Varghese	Physics	KSCST E	12.1 lakhs	Major	Synthesis, Characterisation and Applications of Nanocrystalline Metal Oxides	Newly implemented
Vasudevan Namboori K.R.	Librarian	UGC	50000	Minor	Impact of Internet on the information use patterns of Science Teachers in Kerala	Newly implemented-
Dr.Sr.Tessy Joseph	Botany	UGC	2,00000	Minor	Capacity Building Training in mushroom for INFAM and SHG members	Newly implemented

10. *Patents generated, if any: Nil*

11. *New collaborative research programmes:*

- Faculty of Malayalam department has collaboration with Herman Gundert Foundation Stuttgart Germany for research.
- Nano Research group of department of Physics has a collaborate work with the department of studies of physics of Mangalore University, Karnataka
- The department has also taken initiative in the mass education programme in association with Victor Channel of Government of Kerala. The academic lectures delivered in the INSPIRE programme were recorded and edited with the help of faculties of the department. The Victor Channel is telecasting the classes on every Friday 7 pm and Monday 10.30 am. Dr. S. Sankararaman is coordinating the programme.

- Department of Zoology has collaborating with NCBS, Bangalore, ISSAC, New Jersey and with Prof. John Cairns , University of Virginia, USA and Earth System Governance Project

12. **Research grants received from various agencies:**

Rs.13,20,000/-

13. **Details of research scholars:**

- Hindi** : Full Time: 7 , Part Time: 6, Total :13
- Malayalam**: Full Time: 1 , Part Time: 20, Total: 21
- Statistics**: Full Time: 0 , Part Time: 3, Total: 3
- Commerce** : Full Time: 10 , Part Time: 14, Total: 24

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

Sl.No	Name of the Faculty	Name of Journal	Citation Index	Impact factor
1	Sunny Joseph	International Journal of Nanotechnology	428	1.329
2	Johny Scaria	Quality and Reliability Engineering International	580	0.429

15. **Honors/Awards to the faculty:**

- Ms. Ramani Ammal A., Faculty member, dept. of Hindi has awarded Ph.D. from Mahatma Gandhi University.
- Ms. Suby Baby, faculty member, dept. of Commerce has awarded Ph.D. from Mahatma Gandhi University.

- Dr. V.C. James, Dept. of Hindi was the National Coach for the India Shooting team in Germany, May 2011.
- UGC Travel Grant to Dr. Shaju Thomas, Faculty member of Zoology to attend an International Conference.
- Prof. N. Joy, Principal was got selection to the Advisory Board of NSS of Mahatma Gandhi University
- Dr. Gireesh Kumar G.S- Article titled “Impact of Recession on bank Merger Valuation” was selected as one of the most 10 Popular articles by Social Science Research Network (SSRN).

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

Internal resources to the tune of Rs. 7,00,000/- has been mobilised by the college from the parents and utilised for infrastructural developments. In addition the departments collect funds for Association activities around Rs. 2,00,000/-

**17. *Details of departments getting SAP, COSIST(ASSIST)/DST. FIST, etc.***

***assistance/ recognition:***

- College organised INSPIRE Internship Science camp from 29-11-2011 to 03-12-2011 for Plus one and Plus Two students from the schools all over Kerala with DST assistance of Rs. 9,75,000/-. 150 students participated in the camp.
- The college conducted a “*National Symposium on Nanoscience and Technology- NANOSTECH 2011*”, during 1-2 Sept. with DST assistance of Rs. 75,000/-.

- Dr. Thomas Varghese, dept. of Physics, got major research project on Synthesis, Characterisation and Applications of Nanocrystalline Metal Oxides, with KSCSTE assistance of Rs. 12.1 lakhs.

18. *Community services:*

*Faculty*

- Resource Person to cultural and Academic Institutions.
- Gives talks in Local TV and in All India Radio Thrissur & Kochi.
- Faculty attended the socio economic and caste census 2011
- *Dr. Shaju Thomas*
  - Member of the Master Plan Committee of Muvattupuzha Municipality and provides consultancy to the municipality on matters related to environment and solid waste management.
  - Associates with Dept. of Forests, Govt. of Kerala for “Celebrating International year of Biodiversity” for School Students
  - Advisor to “SEED Project”- an E E initiative of Mathrubhumi Daily, Labour India and Environment Protection Forum, Alwaye.
- *Dr. Gigi K. Joseph*
  - Associate member of the Zoo Outreach Organization, Coimbatore and involves in a number of environment education programmes for different target groups.
  - Associate with Periyar Foundation and Kerala Forest Department in various training programmes especially in biodiversity conservation.



- Resource person for the teacher training programmes organized by WWF-Kerala.

• ***Dr. Gireesh Kumar G.S***

- Associated editor/ editorial board member of International journal of research in management, Science & Technology, Indian journal of multidisciplinary research, Science & Society (NARP), Indian commerce Bulletin, The Journal of Social Welfare and Management and Business Digest.

• ***Prof. Thomas Lazar***

- Master Trainer, Socio Economic Caste Census 2011
- Resource person for career guidance and information bureau, MGU, Kottayam, Finishing school, Govt. Poly technique college Vennikulam, Pathanamthitta, Career Expo 2011”organized by EduSys technologies, Bangalore.

***College:***

- The staff and students of Economics Department joined hands in extending their whole hearted support by giving aid in cash and kind to Providence Home. Students and teachers visit and spend time with them.
- BCA students visited “Divyarakshalayam”, the orphanage at Painkulam, and contributed Rs. 9000/-.
- College continues the practice of ‘Friday food and cash collection’ for helping the poor.

- The blood group of all students were identified and awareness about the importance of blood donation was created among the students.
- Legal awareness class organized by Nirmala College jointly with Kerala State Legal Service Authority (KELSA).
- The NSS unit continued programmes in the adopted village. The volunteers of NSS arranged free tuition for the students of nearby High School. They are also organizing orientation programmes for the students of the school to improve their academic excellence and personality.
- The NSS maintains a herbal garden with 150 plants.
- Greening Muvattupuzha Municipality, Restoration of *Santhkadu Sacred Grove*

### ***Consultancy***

<b>Department</b>	<b>Field or Area of consultancy</b>	<b>Name of the faculty</b>
Chemistry	DRC testing of natural rubber	Mercyamma Jacob
Chemistry	Water quality analysis	Josekutty J Ozhukayil
Chemistry	Soil analysis	Dr. Marthakutty Joseph
Commerce	Income tax consultancy services to faculty members of the college	Sri K M George
Mathematics	Income tax consultation to the teachers and non teaching members of the college.	Sri. Saji Joseph
Zoology	Consultancy services to Kottancherril Pharmaceuticals for the development of herbal medicines.	Shaju Thomas
Botany	Consultancy services to Nirmala College of Pharmacy for identification of plants.	Philomina T V
Statistics	Consultancy for research data analysis	Dr. T M Jacob

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

Faculty for self financing courses and guest/adhoc - 16

**20. *Teaching - Non-teaching staff ratio:***

122: 59

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

- New Books including Braille books are bought in the Library
- Department Book Bank strengthened
- INFLIBNET facility to all students and staff.
- Internet browsing and e- learning facilities improved
- Purchased new educational CDs

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

- 9,857 new books were purchased during 2011-12 for Rs. 10, 80, 290/-.
- 170 journals were subscribed during 2011-12 at a cost of Rs. 1,50,040/-

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

Student assessment of teachers continued for UG and PG courses based on a well-structured evaluation Performa. A consolidated score sheet is prepared with the help of experts and given to faculty members individually with suggestion for improvement wherever necessary.

**24. *Unit cost of education***

The unit cost of education including salary component is Rs. 56898/- and excluding salary component is Rs.22595/-

## ***25. Computerization of administration and the process of Admissions and***

### ***Examination results and issue of certificates***

- Fully computerized Office.
- Fully computerized library with OPAC.
- Admission process with the help of computer.
- Online registration of students with the university.
- Online submission of internal marks.
- Online downloading of the hall tickets.
- Internal Marks evaluated and published using Computers.

### ***26. Increase in the infrastructural facilities***

- Inaugurated the new MCA block
- Construction of recording and editing room for *Campus Radio* broadcasting.
- Renovated
  - Women's hostel
  - Roads in the campus.
  - College buildings by painting works
  - Women's Cell Office
  - Health Centre
- Equipments purchased
  - UV spectrophotometer
  - Visible spectrophotometer
  - Nine laptops
  - Two LCD projectors
  - Green magnetic boards
  - Fume cupboard
  - Incubator
  - Distillation unit
  - Eighty five computers

## ***27. Technology upgradation***

- Short film production and campus radio broadcasting.
- Faculty make use of computers, LCDs, CDs etc. for supporting lecture classes.
- Power point presentations are made use of by the teachers/resource persons
- Video conferencing facility in internet labs
- INFLIBNET facility
- ICT enabled teaching – learning process

## ***28. Computer and Internet access and training to teachers and students.***

- All departments have internet facility.
- Five computer labs with 230 computers and three internet labs with 50 computers.
- College provides training programme in website upgradation for faculty members.
- Training given to students in the use of internet
- Statistics department provided training in SAS , SPSS and Matlab softwares
- Certificate course in Dot NET, J2EE etc.

## ***29. Financial aid to students:***

The college helps/facilitates students by providing

- ‘Merit cum means scholarships’ to minorities of Rs. 20,000 each.
- Georg Kraus Scholarship, Hagen. Germany of Rs. 14,000 each for twenty students.
- University sports scholarship.
- Financial aid of Rs. 1,20,000/- via SAI extension centre for twenty students
- Kerala State Higher Education scholarship.
- Kerala State Suvarna Jubilee Merit Scholarships of Rs. 10,000 each.
  - University Merit Merit scholarship.
  - Muslim girls Scholarship.
- 410 students have obtained KPCR fees concession.

- Three PG students have got single girl child scholarship.
- In addition the institution gives away 110 endowment awards instituted by the former faculty, alumni and benefactors of the College.
- Golden jubilee gold medals for the *Best Outgoing Student* and gold medals for the nine university rank holders.
- Free noon meals are provided from the student's aid fund.
- Free food and accommodation to students in sports hostel.
- Adequate financial support is given to students participated in the intercollegiate programmes.
- Finance facilities are provided to students to participate in the inter departmental competitions.
- Fee concession provided to the eligible (economically backward) students

**30. Support from the Alumni Association and its activities:**

The Alumni Association of our College was very active and organized various programmes. Important among them were Meet a prominent Alumnus programme. Honouring of our rank holders was conducted and the alumni day will be celebrated on 14<sup>th</sup> January 2012. Batch wise meetings were used to be held in many departments.

- The members of Chemistry Alumni association gathered on 13/11/2011.
- The Botany department alumni association meeting was held on the Diwali day.
- The Zoology alumni meet was held on Mahanavami Day.
- The Statistics Alumni meeting will be held on 14<sup>th</sup> January 2012.
- Prize money sponsored by Alumni for Cameo 2012, an Intercollegiate IT Fest.
- Scholarships and awards are sponsored by foreign chapters of alumni.
- Started a new Training Programme Series, '*rEturN*' for the benefit of students.

Members of Alumni Association are the resource persons.

### ***31 Support from the Parent-Teacher Association and its activities:***

Nirmala College is blessed with an effective and active Parent Teacher Association and is very supportive for the smooth functioning of the College. From the General body the PTA executive was elected and the executive used to meet regularly. Sri Iype John Kallumkal is the new PTA Vice president and Vice Principal to continue as the secretary. The feedback of the Association and financial contribution helps in improving the facilities and services in the College.

### ***32. Healthy prtactices:***

- Health centre is functioning well with the service of a doctor
- Medical inspection is conducted for all students.
- Classes are given on hygiene and cleanliness.
- Blood group identification was conducted with the involvement of Blood Donation Club.
- Group accident policy to all students and staff.

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

Dept of physical education organized and conducted various competitions and training programmes for the students of the college and for others along with our prestigious intercollegiate football championship (49<sup>th</sup> Msgr Thomas Nedumkallel Memorial) and Prof George Paul Memorial Intercollegiate Volley Ball Tournament during the year 2011-12. The department arranged training for football, volleyball, handball, basketball, cricket, best physique, chess and athletics. Our football team came out victorious and the handball team secured runner up position in M G University championships.

- Eleven students are selected to the University Foot ball and Hand ball teams.
- Open course in Physical education started.
- **Foot ball** - Inter S A I (south zone) Winner, M G University Winner.
- **Hand ball**- M G University Runner up.
- **Volley ball** -M G University (North zone) Fourth Position.
- *Sports Teams* Participated in M G Uty competitions-Badminton, Basket ball, Cricket, Best Physique, Chess and Athletics.
- Outstanding sports students are provided boarding and lodging(35 students)
- Keeping the students identification and progress report up to date.
- Continue the extension centres of S A I and Sports Council.
- UGC sanctioned Rs. Seventy Lakhs for the construction of sports indoor stadium and Rs. Five Lakhs for the purchase of sports equipments.

**34. *Incentives to outstanding sportspersons:***

- Medals were given to outstanding sports persons during Talent Day.
- The outstanding sports persons are given free boarding and lodging in the sports hostel.
- College gives help and proper guidance to the top class players to get placement.
- College arranges meetings to felicitate and honour sports teams when they come with laurels.
- Endowments/ cash awards are given to the top performers.
- College conducts annual sports meet, All Kerala Intercollegiate Volleyball and Football Tournament every year.

**35. *Student achievements and awards:***

- Eleven students got NET, two got JRF, two got SET and one secured ISS and one passed ICWAI final.
- Nine students bagged university ranks in the examinations held during March 2011.
- Two Students won the Indian Academy of Science's Summer Research Fellowship.



- A team consisting of Mr. Annoon P Basil Raj , Akhil Jose and Jithu John won more than 16 Prizes in intercollegiate business events.

**36. *Activities of the Guidance and Counseling cell:***

Guidance and Counselling Cell is functioning effectively in the College. Academic and personal counselling are given through the Mentoring Programme. Students in distress are given special care and are provided with expert help.

**37. *Placement services provided to students:***

In association with the Career development cell students are made aware of the job opportunities. Arranged campus recruitment programs and directed the students to participate in recruitment programmes. *StratAgile* Pvt. Ltd organized campus recruitment on Aug 26, 2011 and Anil Mani was selected as Business Analyst. The College provides training to improve the soft skills of the students through a number of serious and continuous training programmes. Students are encouraged to write tests and attend interviews. Students are encouraged to appear bank test & PSC examination.

Pre-placement training to MCA students on every Thursday and Friday in collaboration with Career Com, Aluva. One supporting staff is appointed for strengthening the activities of the career guidance and placement cell in addition to the faculty coordinators entrusted for the same. The cell helps the students by providing the information like upcoming placement drives, referential placements etc by the use of batch wise group mails. Also college conducts placement drives for the students.

**38. *Development programmes for non-teaching staff:***

One professional development programmes is conducted during the current year.

**39. *Best practices of the College***

- Newsletter, Campus Radio, Short film Making and production of Documentaries
- Organising seminars and talks on emerging topics and conducts exhibitions/fests.
- Environmental awareness programme for the public
- Teacher's diary- Tutorial System and Mentoring.
- Use of ICT in teaching
- Remedial coaching to slow learners
- Feedback mechanism

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

- ***Rev. Dr. Vincent Joseph*** - International Collaboration with Herman Gundert Foundation Stuttgart Germany
- ***Dr. Shaju Thomas***- 1) International collaboration for Conservation Education, Environmental Ethics and Sustainable Development- with Prof. John Cairns, Virginia Tech. USA. International Institute for Scientific & Academic Collaboration, (IISAC) Inc. New Jersey, USA.  
2) National Center for Biological Research (NCBS) Bangalore, IHDP- Earth System Governance, Lund University, Asia-Pacific Network for Global Change Research (APN)

***Dept. of Economics*** - Collaborated with Gulati Institute of Finance and Taxation, Thiruvananthapuram to organise a National Seminar on Local Self Governance: Fiscal and Service Delivery Dimensions.

***Dept. of Economics and Zoology*** - Collaborated with 'World Challenge' UK, District Tourism Promotion Council and Kerala Tourism Development Corporation to organise an International Conference on Responsible Tourism.

***Dept. of Commerce*** – Collaborated with Industries Department, Govt. of Kerala (ED Club), ICWAI Cochin chapter for conducting Foundation and intermediate courses in ICWAI examination

*Dept. of Botany* – collaborated with Department of Botany, University of Pune and organised an International seminar on Cell and Molecular Biology.

**41. Any other relevant information:**

- Sunanda S. Pallath a former student of the college got Aspire Internship of Rs. 4000/- for doing project work under Dr. C. Viswanathan, Dept. of Hindi(from SSUS Kalady – 2011)
- The Department has launched three series of programmes. *Masters Series* is intended to bring distinguished scholars to the campus. *Teacher Advancement Programme (TAP)* has been introduced to facilitate continuous learning of teachers. '*rEturn*' is a unique programme initiated by the department in collaboration with Alumni Association. Under this series, students are given training in soft skills by the alumni.
- During the year 2011-12 one research scholar Mr. John K Mathews was awarded Ph.D. from the research centre of Commerce and another research scholar submitted her thesis and expecting her open defence in January 2012.

## Part C

### *Details of plans of the institution for the next year*

- Collaboration with leading Media Groups in India to facilitate Internships and Placements of Communicative English Students
- Conduct inter language workshop on literature
- Concentrate on Research and Documentation of Folk Art Forms in Ernakulam District.
- Conduct Cultural Exchange Programme.
- Start Certificate course on DTP(Mal)
- Produce Documentary on Centers of Cultural Importance in Ernakulam District
- Project works and Publications beneficial to local people and betterment of the Society.
- Organize more collaborative research activities with reputed researchers from India and abroad.
- To provide training to CA entrance test (CPT).
- To start coaching for ICWAI final

Sd/-

*Name and Signature*

*Chairman IQAC:* Prof. N. Joy

Sd/-

*Name and Signature*

*Coordinator IQAC:* Jose Karikunnel