

ANNUAL QUALITY ASSURANCE REPORT

[AQAR]

Submitted to

NAAC

UNIVERSITY GRANTS COMMISSION

Submitted by



IQAC

NEHRU ARTS & SCIENCE COLLEGE, KANHANGAD

Affiliated to KANNUR UNIVERSITY & NAAC Accredited with A Grade

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YEAR OF REPORT: 2012-'13



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Name of the Institution:

NEHRU ARTS & SCIENCE COLLEGE, KANHANGAD

Year of Report:

2012-2013

PART A

The 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.

Nehru Arts & Science College, Kanhangad, located in the backward district of Kasaragod, is one of Government aided post graduate colleges under private management that provides a unique blend of traditional and new programs in the streams of Sciences, Humanities and Commerce. The college was re-accredited by the NAAC with A grade in May 2012. As such concerted effects have been made by the management, staff and students to maintain the grade during this year. Action plan chalked by the IQAC in the beginning of 2012-'13 and the outcome achieved are listed below.

a. To appoint permanent faculty members in the departments, that have guest faculty at present.

Of late, the government has lifted the ban on appointment of permanent staff in aided colleges. As a result the management was able to appoint 10 teaching staff in various departments and 5 staff in the non-teaching category. The college has 7 more permanent vacancies of teaching staff. Government sanction for posting has already been obtained. Procedures for making posting against these vacancies are in the road and we anticipate the posting within short time.

b. To install a multi-gym in the college.

The college has only a limited facility for weight training that is arranged at present in the sports pavilion in college ground. Establishment of multi-gym in the college is a long standing demand from the part of the students. The institution could not take up this proposal this year as well, owing to lack of sufficient space and room for establishing the same.

- c. To receive feedback on curriculum on regular basis from students, alumni, parents and employers and to take initiative to revise curriculum based on feedbacks.*

Knowing ones strength as well as weakness is very crucial in attaining the goal in any venture. With this end as well as for knowing the problems faced by the students and their suggestions, questionnaires were handed out to them at the end of every semester for all the core subjects. The questionnaires were collected department wise and thoroughly analysed to ensure student involvement in course structuring. Every department has separate Alumni Association and during their annual meeting, formal feedback, regarding the curriculum was obtained. Class wise PTA meetings were held every semester to evaluate the progress of the students individually. At its meetings, parents were asked to give their feedback on the curriculum. However the institution is yet to begin the practice of collecting feedback on curriculum from employers. Feedbacks received from the stakeholders were analyzed at departmental staff meetings. The fact that our departments have at least one member on the BoS ensured our suggestions were put forth to the University while updating and revising the curriculum.

- d. To encourage and promote research culture in the institution through projects, publications, conference presentations, collaborations, guideships, more recognized research centers etc.*

The research and publication committee of the college has been vibrant during last year that motivated the faculty to carry out research and co-ordinated research activities of various departments. The committee promoted among teachers major and minor research projects offered by UGC/DST/KSCSTE etc and the effort found successful realization. Many staff members had publications in peer-reviewed journals with good impact factor. Three teachers are serving as reviewers of international journals. Teachers are encouraged to take guideship and pursue research work. At present five teachers have guideship. Teachers never spared the opportunity to attend seminars/workshops/conferences to keep pace with the developments in the subject. The department of Physics organized a two week refresher course in “Statistical Physics” sponsored by Indian Academy of

Sciences, Bangalore, Indian National Science Academy, New Delhi the National Academy of Sciences, India, Allahabad.

- e. To organize more seminars/conferences/workshops etc. with funding from other sources.*

Malayalam department under the aegis of 'Sahithya Vedi' organized a number of seminars/workshops during the year 2012-'13. The Department of History organized three seminars, the Department of mathematics organized one seminar, the Department of Botany organized two seminars, the Department of Zoology organized one seminar and the Department of Physics organized a two week refresher course. Various clubs and committees functioning in the college too organized a good number of seminars/workshops during the current year.

- f. To improve the physical facilities of the campus such as vehicular parking, general ambience etc.*

College management, with the help of PTA makes all effort to improve the physical facilities in the college. The newly built auditorium has given a face lift to the college. The beautification in the campus also has moved far ahead. The management has spent ₹4.00 lakhs to improve the facilities in the girls' hostel. The management has also purchased a generator for the use of the girls' hostel.

- g. To start coaching classes for NET for SC/ST/OBC & Minorities.*

Competitive examinations have always been a stumbling block for our students. In order to remedy this situation, financial assistance of ₹ 7.5 lakhs was sought from the UGC, culminating in the recent establishment of SC/ST/Minority coaching center for the National Eligibility Test conducted by the UGC. Training was given in four streams viz. History, English, Physics and Statistics. Out of our trainees, four students got through the NET exam in the current year.

- h. To procure more computers to our computer lab under UGC Network Resource Centre Scheme.*

The computer browsing facility in the library was enhanced by installing four more terminals with browsing facility.

- i. To implement as many beneficial schemes as possible to differently-abled students of our college to bring them to the main stream of the institution.***

Differently-abled students were supported by our institution to empower and bring them to the main stream. Dr. T. Vijayan of Statistics department is serving as the co-ordinator to implement the scheme. The scheme is in the process of installation. The Enabling Unit would provide guidance and counseling to differently-abled students. Our institution would strive to treat them equally with other students so that they do not feel alienated.

- j. To rejuvenate the activities of the Centre for Career Information and Guidance (CCIG) of our college for better career achievements and progression of our students.***

The Centre for Career Information and Guidance (CCIG) has been functioning in the college for many years, providing career information, counseling services and training to the students throughout the year. V. Vijayakumar of Commerce department co-ordinates the programme.

- k. To establish an Equal Opportunity Centre in the college to oversee the effective implementation of policies and programmes for SCs, STs, Woman, OBC, Minorities and Physically Challenged persons.***

Dr. T. Vijayan of Statistics department was appointed as co-coordinator. The scheme is in the initial stage of implementation.

- l. To continue all other projects and programmes, begun in the yester years for our institution to take longer strides.***

All projects and programmes started in the previous year's continued this year as well with due importance. The Choice-based Credit and Semester System in UG level, that was started a couple of years back, has already taken roots. Remedial Coaching and Coaching into entry in services for SC/ST and Minorities were continued in the current year with the assistance of the UGC. The college successfully implemented in the current year, all the other programmes/projects initiated by UGC/Govt. /Management/PTA/Alumni Associations in the past.

PART B

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

The college strives to help every student,

- To provide quality higher education without barriers of caste, religion, sex and economic disparities.
- To help develop a spirit of patriotism and secularism.
- To celebrate and preserve the unique cultural heritage of the area with special emphasis on its diverse linguistics forms and folk traditions.
- To create a body of socially aware students, who are awake and alert to challenges in society such as communalism, social fragmentation etc.
- To stimulate interaction of the student community and society through programmes of specific social benefit.

With the vision of 'Education for all and for all round development', the institution made its foray into the realm of education, seeking consciously to improve literacy proceeding from the understanding that there was a need to provide space for quality education taking the intellectual, social and ethical values behind it seriously. The goals and objectives of the institution were always reflected in the variety of programmes in the streams of science, humanities and commerce offered by the college. Students were provided avenues for holistic development, once admitted. Several strategies were evolved to cater to the needs of students of differing interests and aptitudes. The preparation of teaching plan and methodology hand out was comprehensive for our students to gauge the broad areas and key issues of the syllabus. The institution always took pride in our effective and lively tutorial systems, providing a perfect platform for critical evaluation and taking stock of problems of academic and personal nature. The Examination book serves as a transparent record to monitor the students' progress. A lively NSS/NCC/Sahithya Vedi/History club/English club/Science club/Value club and a whole range of other committees and clubs provided a common platform for students of diverse streams to converge and unlock their creative, intellectual, artistic and sporting talents apart from standing united to reach out to the local community at large. These forums have seen the

college leave an indelible mark in the fine arts festival of the University, sporting events, promotion of local language and dialect, nurturing promising budding writers, championing the cause of environmental issues and in the college magazine that has bagged many coveted prizes.

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

Being an affiliated college, no autonomy was enjoyed by the institution to start new programmes. The college has already initiated to start M. Com programme in the current year and based on our application, expert committee from Kannur University visited our college for overseeing the facilities for the course. The expert committee recommended the course to the Government for its sanction. Efforts to introduce BA in Malayalam are also in the road. It is anticipated that these courses will be started during the next year, raising the college to the status of having 5 PG courses and 10 degree courses. The college has also applied to start a distance education centre of IGNOU, which, if sanctioned, will be a boon to the students of the district where the number of colleges and number of seats in colleges are much less than the demand.

3. *Innovations in curricular design and transaction*

The Choice-based Credit and Semester System (CCSS), which came into vogue in 2009, offered a number of options, providing academic flexibility. The CCSS has afforded students with choices of courses which were inter and multi disciplinary. The academic flexibility through the open courses under CCSS has provided students with avenues to move from one course to another. Thirty one out of 67 permanent faculty members served as chairman/member of UG/PG Boards of Studies, playing a key role in the curriculum development process.

4. *Inter- disciplinary programmes started*

A switch from the annual system to the CCSS in the UG programmes of the institution has resulted in a blurring of boundaries between subjects with much greater academic flexibility than before.

5. *Examination reforms implemented.*

Each department of the college adopted its own mechanism of continuous assessment of students by means of assignments, seminars, test paper, viva, group discussion etc.

Evaluation methods were communicated to the students through the college calendar issued to the students at the beginning of a semester.

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

Departments having PG course.	Candidates qualified: NET/SLET/GATE etc
English	4
History	Nil
Statistics	Nil
Physics	Nil

We have established a SC/ST/Minority Coaching Centre for various competitive examinations recently and under its aegis, the formal coaching to our students was begun quite recently only. We are hopeful of getting a positive result in year or two.

7. Initiative towards faculty development programme.

Dr. P. V. Reeja, Department of Mathematics and P. Prabhakaran, Department of History, who had undergone research under FDP of UGC were awarded Ph. D. during 2012-'13. Three teachers K. Pradeep Kumar of Physics Department, K Radhakrishnan Nair of Statistics Department and C, Manjula of Botany Department, who did research work under FDP, have submitted their Ph. D theses and are expected to acquire the Ph.D Degree soon. K.V Murali of Physics Department, who availed the FDP scheme, has almost completed his research work.

As the FDP of UGC under plan XI is yet to be launched, there are no teachers doing full time research in the college. Some teachers are in pursuit of part time research work leading to Ph. D Degree. They are

1. R K Satheesh, Department of Physics.
2. P. V. Sidharthan, Department of Physics.
3. V Karunakaran, Department of Chemistry.

4. K R Indulekha, Department of English.

5. M K Rukhaya, Department of English.

8. Total number of Seminars/Workshop conducted.

Seminar/Workshop conducted by	Number
Department of History	3
Malayalam department	8
Mathematics department	1
Physics department	1 (*1)
Botany department	2
Zoology department	1
Total	16

*1. National: A two week refresher course in “Statistical Physics” sponsored by Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi the National Academy of Sciences, India, Allahabad in collaboration with Nehru Arts and Science College, Kanhangad from May8 to May 21, 2013.

9. Research Projects a) Newly implemented. b) Completed.

a) Newly implemented

Nil

b) Completed projects in 2012-'13

Project title	Outlay	Principal Investigator & Department	Funding Agency
Synthesis of some analogues carrying 1, 2, 4-triazole moiety	₹1, 40, 000/-	Dr. A. Muralidharan Department of	UGC

		Chemistry	
Commodity Price stability under Globalisation : Case of Indian Plantation Crops	₹ 70, 000/-	M Anoopkumar Department of Economics	Ministry of Commerce, Govt. of India
Study of Bose-Einstein condensation in harmonic oscillation potential	₹ 95, 000/-	Dr. K. M. Udayanandan Physics department	UGC
“studies on the Ecophysiology of Brachuriyan Crab”	₹87,625/-	Dr. V. P. Syama, Department of Zoology.	UGC

10. Patents generated, if any.

Nil.

11. New collaborative Research Programme.

A few staff members collaborated with scientists from institutions of national repute, quite recently. The Statistics Department has collaborated with the Kerala State Rubber Board in their studies on Socio-Economic Conditions of Rubber Cultivators. The department has also conducted the data analyses in connection with many research works leading to Ph.D Degree.

12. Research grants received from various agencies.

Nil

13. Details of Research Scholars

1. Statistics department of the college is an approved research centre of Kannur University. Two research scholars (Geetha Antony Pullen, Associate Professor,

Marymatha College Mananthawadi and Binu Divakaran) of the department were awarded Ph. D Degree during the academic year 2012-13.

2. Statistics department has six research scholars doing Ph. D programme.

Sl. No.	Name of the Research Scholar	Research Guide
1	V. K. Sreejaya	Dr. M Kumaran
2	A. Nisanth	Dr. S. Jayadevan
3	K. P. Nijesh Sadasivan	Dr. S. Jayadevan
4	Brijesh Sathyan	Dr. S. Jayadevan
5	Praseeda	Dr. M Kumaran
6	Bindu	Dr. M Kumaran

The institution has five approved research guides in various subjects in research centers inside and outside the college, under whom students have registered for Ph. D programme of Kannur University.

SI No	Name of research guide & department	Number of research scholars, who got Ph. D registration
1	Dr. M. Ambikasuthan (Malayalam department)	2
2	Dr. K. M. Udayanandan (Physics department)	5

14. Citation index of faculty members and impact factor.

➤ **M Anoopkumar, Department of Economics**

- “FDI and Development in India – Experience of India in the Post Liberalisation Period”. Accepted for publication in the Journal, Perspective in Social Sciences.

- “Developmental Impact of FDI in India in the Globalisation Period”, appeared in the book India – Economic Development Issues edited by Vipin Chandra, 2012.
 - “Commodity Price Instability Under Globalisation – A Study of Indian Plantation Crops”, appeared in NRPPD 2012.
- **M K Rukhaya, Department of English** Published over 300 critical analyses 180 which are editorially reviewed, in addition to the ones listed below
- Books entitled “Inklinks, A literary companion to Indian writing in English” is in the press and will be published within a short while. .
 - Edited the National collection of poems Inklinks that includes the poems of A. P. J Abdul Kalam, Ruskin Bond, Gulzar, Ibrahim Ashk and Irshad Kamil. Inklinks. Allahabad: Cyberwit. ISBN 978-81-8253-371-4, 2013 .
 - Edited all the issues of “The Discourse” (ISSN 2278- 0920) quarterly bilingual refereed research journal of humanities and social sciences from April 2012.
 - Book in press Indian Writings in English: A Literary Companion. ISBN 978-81-7273-761-0 to be published by Authorspress India, New Delhi.
 - Ongoing project Twentieth Century American Poetry: Roads Not Taken with Authorspress, New Delhi.
 - M. K. Rukhaya. “Babri.” The Poetry of War and Peace: Brian Wrixon and a World of Friends. San Francisco : Blurb Inc, 2012 .
 - M. K. Rukhaya. “Carcinogenic”. Inklinks. Allahabad: Cyberwit. ISBN 978-81-8253-371-4, 2013 .
 - M. K. Rukhaya. “Cast-Out Outcaste.” Words on the Winds of Change. San Francisco : Blurb Inc, 2012 .
 - M. K. Rukhaya. “Dad”. Inklinks. Allahabad: Cyberwit. ISBN 978-81-8253-371-4, 2013 .

- M. K. Rukhaya. "Dairy of a First Wife." The Youth Express. 7 April. 2012. Web. 23 Jan 2013.
- M. K. Rukhaya. "Destabilizing Foundations in Alan Sillitoe's Loneliness of the Long Distance Runner." Glimpses– An International Journal of Multi Disciplinary Research. ISSN 2250-0561.
- M. K. Rukhaya. "Destabilizing Hierarchies in Mahesh Dattani's Plays." Theatrical Presentations in the Plays of Mahesh Dattani. New Delhi: Authorspress, 2013 .
- M. K. Rukhaya. "Dowry." Words on the Winds of Change. San Francisco : Blurb Inc, 2012 .
- M. K. Rukhaya. "Feminism in Girish Karnad's Nagamandala" in the journal Galaxy: International Multidisciplinary Research Journal ISSN 2278 (2012) : n. pag. Web. 20 August.
- M. K. Rukhaya. "Glasshouse." Sticks and Stones. Cardiff, UK: DestinyPublications, 2012 .
- M. K. Rukhaya. "Goodbye." All the Lonely People:Poetry Anthology by People From Around the World . Plum Tree Books.
- M. K. Rukhaya. "Ground Zero." Just a Dream. Cardiff, UK: Destiny Publications, 2012 .
- M. K. Rukhaya. Haikus. Poets International Haiku 2012. No. 4. Vol. 29. Bangalore: Poets International, 2012.
- M. K. Rukhaya. "Harold Pinter's Homecoming: The Return to Roots." Criterion: An International Journal ISSN 0976-8165 (2013).
- M. K. Rukhaya. "Hatred." Demons and Angels, Cardiff, UK: Destiny Publications, 2012.
- M. K. Rukhaya. "Identity Crisis in Girish Karnad's Flowers." Expressions ISBN: 81-7276-365-3 (2012): 107-110.

- M. K. Rukhaya. "Identity Crisis in Kamala Das's Poems." *Galaxy: International Multidisciplinary Research Journal* ISSN 2278 – 9529(2012) : n. pag. Web. 20 August 2012. <http://www.galaxyimrj.com/V1/n2/Rukhaya.pdf>
- M. K. Rukhaya. "Last Canvas." *The Big River Poetry Review*. n. p. 23 June 2012. Web. 23 Jan 2013. Online.
- M. K. Rukhaya. "Mahesh Dattani's Tara: The Other Side." *Mahesh Dattani: His Stagecraft in Indian Theatre* Ed. Dr. Vishwanath Bite. New Delhi: Authorspress India. ISBN-978-81-7273-737-5, 2013 .
- M. K. Rukhaya. "Mom." *Musings: A Mosaic*. Bangalore: On Fire . ISBN:978-93-5067-860-2, 2012 .
- M. K. Rukhaya. " Mum's the Word." *The Youth Express*. 4 May. 2012. Web. 23 Jan 2013.
- M. K. Rukhaya. "On Valentine's Day." *Napalm and Novocain*. n. p. 28 Feb 2013. Web. 2 March 2013.
- M. K. Rukhaya. "Plague." *In Your Own Words*. San Francisco : Blurb Inc, 2013.
- M. K. Rukhaya. "Porcupine." *Camel Saloon*. n. p. 16 Dec 2012. Web. 23 Jan 2013.
- M. K. Rukhaya. "Sister." *In Praise-In Memory-In Ink: Poet with Voices Strong*, San Francisco : Blurb Inc, 2012 .
- M. K. Rukhaya. "Spaceless Flight." *Tripping Over Boundaries:A Literary Atlas*. San Francisco: Blurb Inc, 2012 .
- M. K. Rukhaya. "Sometimes." *Puppet on a String*. Cardiff, UK: Destiny Publications, 2012 .
- M. K. Rukhaya. "The Poems of Robert Frost: Connotations more than Denotations." *The Discourse*. ISSN 2278- 0920. 2012. A bilingual refereed research journal.

- M. K. Rukhaya. "The Second Half." *Acerbic Anthology: Protest Poetry and Short Fiction against Gender Violence and Rape*. Ed. Sunil Sharma and Mutiu Olawuyi. CreateSpace. ISBN/ EAN13: 1482329468/ / 9781482329469, 2013 .
 - M. K. Rukhaya. "The Sound of Music." *Ekphrasis India*. n. p. 3 April 2012. Web. 23 Jan 2013. Online.
 - M. K. Rukhaya. "The Stoning of Man." *Reflections on a Blue Planet*, San Francisco : Blurb Inc, 2012 .
 - M. K. Rukhaya. "Windows 2012. a Computer Addict." *Once Upon A Time*. Cardiff, UK: DestinyPublications, 2012.
 - M. K. Rukhaya. "You are." *Love in Verses*. Allahabad: Cyberwit. ISBN: 978-8182532762, 2012 .
 - M. K. Rukhaya. "Raining Poems." *Ruminations Journal*.
- **P M Sithara, Department of English** Published two poems and 2 articles during the year 2012-13.
- P M Sithara, 'Masque' , *Inklinks*, Allahabad: Cyberwit, ISBN 978-81-8253-371-4, 2013.
 - P M Sithara, 'Empty Words', *Inklinks*, Allahabad: Cyberwit, ISBN 978-81-8253-371-4, 2013.
 - P M Sithara, 'Talking Back to the Male Empire: A Brief Study of Postcolonial Indian Feminism with Special Reference to Taslima Nasrin's 'French Lover', ' Perspectives on Postcolonial Literatures' ISBN 978-93-5087-032-3, 2012.
 - P M Sithara, Nayantara Sahgal's 'The Day in Shadow', ' Perspectives on Postcolonial Literatures' ISBN 978-93-5087-032-3, 2012.
- **K R Indhulekha, Department of English**, published four articles during the year 2012-'13.

- K R Indhulekha, ‘Enmakaje: Prathirodhathinte Sookshmakyenengel’ in Sargasudha, Malayalam Magazine Vol. 2, Issue2-Feb/2013.
- K R Indhulekha, ‘Constructive Curriculum: Changing Paradigm’ in Envisioning a bi-annual research journal by UGC Academic Staff College, University of Calicut (June 2012 issue)
- K R Indhulekha, ‘Learning Second Language: Affective Cultural Factors in classrooms of Kerala’ in The English Classroom, a bi-annual journal by RIESI, Bengaluru. June 2012 issue.
- K R Indhulekha, ‘Puthu Kaalam Puthu Kavitha’ Chandrika Malayalam Weekly, April 2013.
- **Dr. P Prabhakaran, Department of History** edited the book titled “Symposia on Dalits”
- **Dr. P T Sebastian, Department of History** published the book titled “History of Modern West Asia”
- **Dr. M. Ambikasuthan, Department of Malayalam** published 3 books, edited 2 books, published 5 stories, published 3 articles in journals and 11 articles in periodicals.
 - Dr. M Ambikasuthan, ‘Valillatha Kindi’ 2nd edition, June 2012.
 - Dr. M Ambikasuthan, ‘Kunnukal Puzhakal’ 2nd edition, May 2012.
 - Dr. M Ambikasuthan, ‘Enmakaje’ 6th edition, September 2012.
- **T. Dinesh, Department of Mathematics**
 - Paper entitled “Labelling Matrices and Index Matrices of a Graph Structure” has been accepted for publication in the International Journal – Algebra and Discrete Mathematics.
- **R. K. Satheesh, Department of Physics**

- R. K. Sathish and K. M. Udayanandan “A simple method to find the thermodynamics of harmonic oscillator,” International journal of Applied Physics Vol. 2 No. 3, pp 137-140 (2012)
- R. K. Sathish, P. V. Sidharthan, K. M. Udayanandan and Vinod Kumar T “Ideal extreme relativistic gas in three ensemble in statistical mechanics” IAPT Bulletin, February 2012 pp 35-38
- R. K. Sathish and K. M. Udayanandan “Gibbs Paradox in Grand Canonical Ensemble” Lat. Am. J. Phys. Educ. Vol. 6. No. 1 March 2012 pp 78-81
- Prarbita. V V, Vibha A V, R. K. Sathish and K. M. Udayanandan, “Thermodynamics Planck oscillator in microcanonical ensemble” Lat. Am. J. Phys. Educ. Vol. 6No. 2 june 2012
- R. K. Sathish P. V. Sidharthan, K. M. Udayanandan “Particle in a box - A treasure island for under graduates” BRENNEN journal of multidisciplinary studies” Vol. 7 2012 (ISSN 2231-5489)
- R. K. Sathish and K. M. Udayanandan A. Augustine “Exact statistical mechanics of particle in a box using canonical ensemble” Physics Education Vol. 28 No. 4 Article Number 3 October-December 2012

➤ **Dr. K. M. Udayanandan, Department of Physics**

- R. K. Sathish and K. M. Udayanandan “A simple method to find the thermodynamics of harmonic oscillator,” International journal of Applied Physics Vol. 2 No. 3, pp 137-140 (2012)
- R. K. Sathish, P. V. Sidharthan, K. M. Udayanandan and Vinod Kumar T “Ideal extreme relativistic gas in three ensemble in statistical mechanics” IAPT Bulletin, February 2012 pp 35-38
- R. K. Sathish and K. M. Udayanandan “Gibbs Paradox in Grand Canonical Ensemble” Lat. Am. J. Phys. Educ. Vol. 6. No. 1 March 2012 pp 78-81

- Prarbita. V V, Vibha A V, R. K. Sathish K. M. Udayanandan
“Thermodynamics Planck oscillator in microcanonical ensemble” Lat. Am. J. Phys. Educ. Vol. 6 No. 2 June 2012
- R. K. Sathish, P. V. Sidharthan, K. M. Udayanandan “Particle in a box-A treasure island for under graduates” BRENNEN journal of multidisciplinary studies” Vol. 7 2012 (ISSN 2231-5489)
- R. K. Sathish, K. M. Udayanandan and A. Augustine “Exact statistical mechanics of particle in a box using canonical ensemble” Physics Education Vol. 28 No. 4 Article Number 3 October-December2012
- **Pradeep Kumar K, Department of Physics** published the paper entitled ‘Synthesis of Superheavy Elements’ in the proceedings of the DAE Symposium on Nuclear Physics,Delhi,India Vol 57(2012) P 314.
- **K. V. Murali, Department of Physics**
 - **K. V. Murali**, A. J. Ragina, K. C. Preetha, K. Deepa, T. L. Remadevi, “Wet chemical synthesis of quantum confined nanostructured tin oxide thin films by successive ionic layer adsorption and reaction technique”, Materials Research Bulletin, 48 (2013) 3009–3016.
 - **K. V. Murali**, A. J. Ragina, K. C. Preetha, K. Deepa, T. L. Remadevi, “Influence of ammonia, lithium hydroxide, and hexamine on ZnO films synthesized by successive ionic layer adsorption and reaction technique”, Journal of Materials Science 48 (2013) 1852–1861.
 - A. J. Ragina, **K. V. Murali**, K. C. Preetha, T. L. Remadevi, “UV irradiated wet chemical deposition and characterization of nanostructured tin sulfide thin films”, J Mater Sci: Mater Electron, 23 (2012) 2264-2271
 - K. C. Preetha, **K. V. Murali**, A. J. Ragina, K. Deepa, T. L. Remadevi, “Effect of cationic precursor pH on optical and transport properties of SILAR deposited nano crystalline PbS thin films”, Current Applied Physics 12 (2012) 53-59

- A.C Dhanya, K. C. Preetha, A. J. Ragina, **K. V. Murali**, K. Deepa, T. L. Remadevi, “Effect of deposition time on optical and luminescence properties of ZnS thin films prepared by photoassisted chemical deposition technique”, *Materials Science in Semiconductor Processing*, 16(2013) 955-962.

➤ **Dr. K. Naseema, Department of Physics.**

- K. Naseema, K. B. Manjunatha, K. V. Sujith, G. Umesh, Balakrishna Kalluraya, Vijayalakshmi Rao “Third order optical nonlinearity and optical limiting studies of propane hydrazides”, *Optical Materials*, 34, 2012, pp 1751–1757.

➤ **A. J. Ragina, Department of Physics**

- **A. J. Ragina**, K. V. Murali, K. C. Preetha, T. L. Remadevi, “UV irradiated wet chemical deposition and characterization of nanostructured tin sulfide thin films”, *J Mater Sci: Mater Electron*, 23 (2012) 2264-2271
- K. C. Preetha, K. V. Murali, **A. J. Ragina**, K. Deepa, T. L. Remadevi, “Effect of cationic precursor pH on optical and transport properties of SILAR deposited nano crystalline PbS thin films”, *Current Applied Physics* 12 (2012) 53-59
- A.C Dhanya, K. C. Preetha, **A. J. Ragina**, K. V. Murali, K. Deepa, T. L. Remadevi, “Effect of deposition time on optical and luminescence properties of ZnS thin films prepared by photoassisted chemical deposition technique”, *Materials Science in Semiconductor Processing*, 16(2013) 955-962.

➤ **K Radhakrishnan Nair, Department of Statistics**, published the paper entitled “On Selection of Covariance Structure in Modelling of Longitudinal Data” (2012), in the book ‘Applications of Reliability Theory and Survival Analysis’, Eds: Navin Chandra and G. Gopal, Bonfring Publication, Coimbatore, India.

15. Honours/awards to the faculty.

- The following faculty members were awarded Ph. D degree during 2012-'13.
- Reeja P. V, Department of Mathematics on 05-10-'12.
 - K P Sheeja, Department of Malayalam, 16-11-'12.

- P Prabhakaran, Department of History. 19-01-'13.
- The following faculty members were awarded M. Phil degree during 2012-'13.
 - K. B. Anitha, Department of Physics.
 - M. Anoopkumar, Department of Economics
- **Dr. M. Ambikasuthan mangad, Department of Malayalam** received the P. K. Rajan Memorial Excellence Award for Best Teacher of Kannur University in 2012.
- **Dr. T. Dinesh, Department of Mathematics**, has served as referee for the Journal - Annals of Fuzzy Mathematics and Informatics.
- **Dr. T. Dinesh and Dr. P. V. Reeja, Department of Mathematics and K V Murali, Department of Physics** served as reviewers of the Journal - American Mathematical Society and has reviewed 2 papers each during the period.
- **M. K. Rukhaya, Department of English** is serving as Editorial Board member of the national journal – Discourse and Insignia.
- **M. K. Rukhaya**, Department of English, won first prize in the international versification competition conducted by Ekphrasis.
- **M. K. Rukhaya** was chosen one of the top 1000 voices on Yahoo for the years 2011 and 2012 on an international level for critical writing; currently features as their Top 500.
- A seminar paper was presented on **M. K. Rukhaya's** poems by Prof. Yahiya Ibrahim at Sido Kanhu Murmu University, Dumka, Jharkhand under the subtheme 'Women Writers Today'; the title of the paper-“ Jigsaw Pieces, Mere Verbalizing or Strong Social Statements.”

16. Internal resources generated.

The voluntary donation to the tune of ₹ 5 lakhs was received by the college PTA of the college this year. The amount was used to organize welfare measures and programmes for the students that include scholarships to poor students, organizing and training in fine arts programmes, release of college magazine, training in sport events, organizing

sports meet, support to college management in paying the salary to guest faculties, etc. The alumni association of the college and its UAE chapter also make similar activities. In the report year, an amount of ₹ 45,000 was used by the alumni organizations for aiding poor students and disbursing scholarships.

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

Nil.

18. Community Services

During the current year, organizations like NSS, Sahithya vedi etc did a lot of services to the society. The ‘Sahithya vedi’ under the aegis of the Malayalam Department strived tirelessly to tranquilize the unfortunate victims of ariel spray of endosulfan. It took lead in bringing the matter to the purview of the government and succeeded in persuading the government to initiate rehabilitatory measures and to give treatment and financial aid to the victims. The sahithya vedi organized a hunger strike in this regard. The works of the organization in alleviating environmental problems of the district are widely appreciated. The Sahithya vedi has completed the construction of the second and third house to two hapless victims, incurring no cost at all to the beneficiaries. Besides being a boon to the beneficiaries, the venture helped to nurture wells of kindness and helpfulness among the students. The vedi also erected sculptures of ‘Valmeki’, ‘Upanishad’ and the great Malayalam poet P. Kunhiraman Nair in the campus.

The NCC Cadets of our institution actively participated in the social activities and greatly involved in community service. For helping the poor patients useable medicines were collected by fixing a Medicine Box near the college office from the students and staff and distributed to the patients in collaboration with the Pain and Palliative Care centre, Nileshwar from July 2012 to May 2013. On 10 November 2012 NCC cadets cleaned the College premises. On 14 November 2012 a program titled ‘Desharaksha Jyothi’ was organized to promote the feeling of nationalism and patriotism. Principal Dr M K Abdul Khader inaugurated the programme by lighting ‘Desharaksha Jyothi’. On 31 May 2013 Anti- tobacco day was observed. The principal Dr. A Muralidharan inaugurated the function. Health Worker Sri Rameshan handled anti-tobacco class to create awareness among the students. N.S.S. units of

our college have undertaken programmes like Clean Campus, Anti Drugs Day, Legal Awareness Class, distribution of preventive medicine to students of the college, World Aids Day celebration, UN Day celebration, blood donation awareness class, Making Green Campus programme, Village Adoption Programme, celebration of World Women Day etc. In addition, we have carried out Agriculture Development Programme undertaken by Government of Kerala. A procession has been conducted to create awareness among people about the importance of the preservation of water in the present period.

The Alumni Association of the college has decided to start NET/SET/ Asst Prof coaching classes at NAS College from January 2013 to June 2013. The NET/SET coaching classes was inaugurated on 05-02-2013. ₹ 10000/- from the profitable amount from the coaching classes was donated to one old student of NAS College who underwent bypass surgery at Sreechithra Institute of Medical Sciences, Thiruvanthapuram. ₹ 9000 was distributed to the meritorious students of NAS College as scholarship.

19. Teachers and officers newly recruited:

Number of Teachers recruited = 7

Number of Non-teaching staff appointed = 5

New teachers appointed

Sl. No.	Name of the teacher	Department	Date of Joining
1	V. Vijayakumar	Commerce	04-06-'12
2	P. K. Ratheesh	Economics	04-06-'12
3	M. Anoop Kumar	Economics	04-06-'12
4	P. M. Sithara	English	09-08-'12
5	M. K. Rukhaya	English	09-08-'12
6	K. R. Indulekha	English	09-08-'12
7	C. P. Rajeevan	English	09-08-'12

New non-teaching staff appointed

Sl. No.	Name of the staff	Designation
1	K.V. Jayasree	Library Assistant
2	P.N. Hareesh	Library Assistant
3	P. Sunil Kumar	Office Attendant
4	M. Srilatha	Office Attendant
5	Rejitha Vengalat.	Office Attendant

20. Teaching/Non-teaching Staff ratio.

Permanent Faculty Members	67
Guest Lecturers	9
Non-Teaching Staff	22

21. Improvement in the library service.

The Library was automated with the open software 'koha', during 2012-'13. Four more computer terminals were installed in the library for browsing the internet. Also a toilet facility was newly introduced inside the library. A terminal of PAS was also installed. Library purchased 126 numbers of books worth ₹ 39,539 for the year 2012-'13. An amount of ₹70,816/- has been spent for purchasing new journals and magazines, numbering thirty four. Newly arrived books are kept separately to familiarize the students and staff with the new books.

22. New books and journals subscribed and their cost.

Subject	Books added	Cost (₹)
Physics	34	16655
History	2	6318

English	7	1598
Malayalam	58	7312
Mathematics	3	356
Economics	11	3678
Commerce	11	3622
General	95	Gift
Total	221	39539

New journals added in 2012-'13

Sl.No	Journal	Cost in ₹
1	Asian Journal of chemistry	5000
2	Banking Finance	750
3	Biblio : A Review of Books	800
4	Business India	290
5	Chip	1200
6	Civil Services Chronicle	850
7	Competition Affairs	650
8	CSIR News and Science Reporter	700
9	Down to Earth	650
10	E Gov and Digital Learning	1800
11	Economic and Political Weekly	3000
12	Economic Challenger	1000
13	EFY, Open source for you and facts for you	1490
14	Employment News	350
15	Frontline	729

16	IAS Journals (11 journals)	4800
17	IJSA&IJSS	7500
18	India Green file and corporate environment inc	4550
19	Indian Historical Review, South Asia Research and Studies in History	6400
20	Indian Journal of Finance	1600
21	Indian Journal of Heterocyclic chemistry	2000
22	Indian Journal of Pure and Applied Mathematics and Indian Journal of History of Science	2100
23	Journal of Indian Statistical Association,	1000
24	Journal of Indian writing in English	600
25	Lab Experiments	600
26	Literary Criterion	500
27	Littcrit	800
28	National Geographic magazine	2875
29	Outlook, Outlook Traveller and Careers 360	2797
30	OPSEARCH	2750
31	Pachhakuthira	140
32	Productivity	2300
33	PSC Bulletin	100
34	Reader's Digest	475
35	Sanctuary Magazine	575
36	Sankhya	400
37	Sargasudha	200
38	Social Scientist	600
39	Southern Economist	1500
40	Time	2646

41	University News	950
42	Week	699
43	Yojana	100
	Total	70816

23. Courses in which student assessment of teachers are introduced and action taken on student feedback

As identifying the strength and weakness is crucial in any endeavour to improve quality, the college gives top priority to the feedback from the students. Feedback are collected from the students regularly at the end of every year. Students are briefed about the necessity of providing free and honest responses. To ensure quality of the responses their identity of the respondents are kept confidential. The committee constituted for the purpose collects the feedback that includes the responses, experiences, suggestions, difficulties etc of students, analyses it and submits the report to the principal and to the concerned departments. They are then discussed in the department meetings convened by the principal. Necessary actions are taken to improve the quality of teaching and to improve the facilities in the light of the suggestions evolved in the deliberations in this meeting.

The feed backs are obtained from the parents as well. They are usually obtained during the regular class wise PTA meetings organized by the departments. The feedbacks go through the similar processes as in the case of those of the students.

24. Unit cost of education

<i>Source</i>	<i>Expenditure (₹)</i>
Management Contingency Expenses	2, 50, 000
PTA contribution towards salary of sweepers	18, 000
UGC - PG Development	21,696.
State Government (Salary)	5, 26, 25, 004

Govt. Scholarships & stipends	4, 68, 500
Total	5,33,83,200
Number of students enrolled (2012-'13)	1153
Unit cost(Amount per year per student)	46, 299

25. Computerization of administration and process of admissions and examination results/ issue of certificates:

The administration process of the college is totally computerized. The preparation and submission of salary bills and all files are done with the help of computer programs and software. The Service Payroll Administration Repository for Kerala (SPARK) is made use of for such services. The admission process is completely computerized. The issues of all kinds of certificates are done using computer software. Students use the online facility to surf the examination results, submission of various applications to the university etc. free of cost.

26. Increase in the infrastructural facilities

The Department of Physical Education purchased one tread mill (₹ 30, 000/-), one Orbi Truck (₹ 10, 000) and one Gym Ball (₹ 1000)

27. Technology upgradation

Most of the departments use LCD projector for teaching.

28. Computer and Internet access and training to teachers & students.

The college maintains a well equipped computer centre in the name of its founder president late C K Nair since 1997. The centre provides ample facilities to the students and the staff. Internet access is free to the students and staff. Students with research interest have the facility for on line reference of e-journals, e-books and database. Printouts of referable materials are made available at nominal cost. Need based basic training as well as assistance for computer usage is given free of cost for students and staff. For staff internet access is provided in their departments and office as well so that they can meet all their IT needs there itself.

29. Financial aid to student.

The following is the list of scholarships and cash awards, given away during 2012-'13.

Sl. No	Particulars	No. of Beneficiaries	Amount (₹)
1	Management & PTA cash awards to rank holders (PG)	3	5500
2	Management & PTA cash awards to rank holders (UG)	9	13500
3	PTA cash awards to top scorers	4	4000
4	PTA cash award to best library users	2	1750
5	PTA cash award to best student	1	1000
6	PTA scholarships	47	47000
7	NASCA scholarships	9	9000
8	NASCA-UAE chapter scholarships	39	25000
9	Endowments	18	14050
10	Govt. scholarships	10	4,68,500

30. Activities and Support of Alumni Association.

The association has organized various programmes beneficial to the regular students, alumni, the college and the society as a whole in the academic year 2012-2013.

The association organized a farewell function in honour of the retiring professor, Dr. C. Balan on 30-06-2012 at the college seminar hall.

The association conducted the SET examination coaching classes from July to September 2012. Classes were arranged for Economics and Commerce subject paper and general paper. For economics 65 percentage and for commerce 60 percentage of

the participants successfully cleared the SET examination and qualified for appointment as higher secondary teachers (while the state average was 3% for commerce and 4% for economics).

On 29- 09-2012, a get together of the alumni was organized with the title 'poorva vidhyarthi sangamam', in connection with the annual general body meeting. New office bearers and an executive committee comprising 33 members were elected on the day.

In the months of November and December 2012 the association visited the homes of alumni. It helped to interact with the alumni of NAS College living in different parts of the district. The logo of the mega family get together was designed by the famous artist Rajashilpi Prabhan Nileshwaram. Prof C K Narayanan (Former Principal) released the logo on 31-12-2013 at his residence at Kannur by receiving it from Sri Achuthan Raghavan, the first batch student of NAS College. An 'Advocates Meet' was conducted on 04-01-2013 by inviting the advocates who studied in NAS College before joining for LLB or BL. More than 20 advocates attended and the programme. On 06-01-2013 'Leaders Meet' was organized with the participation of the student union office bearers of NAS College from 1968 at NAS College Seminar Hall.

The mega family get together of the alumni of NAS College with the title 'NAS'TALGIA 13 was conducted in a grand manner on 13-01-2013 in the college auditorium. Alumni from different walks of life attended the program and participated in batch wise interaction. Smt. Marry George, the admission number one of NAS College felicitated the morning session. The session was inaugurated by famous writer and old student of our college Sri Satheesh Babu Payyanur. It was followed by batch wise interaction session. The alumni actively participated in the interaction and it gives a nostalgic feeling to all the participants. Lunch was served to 1000 participants of the program including alumni and their family members, volunteers and professors. It was followed by cultural programs by the alumni and family members and formal inauguration and honouring the retired professors entitled 'Gurupooja'. The program was inaugurated by the Kanhangad MLA Sri E Chandrasekharan in the absence of Sri K. P. Mohanan, Kerala Agricultural Minister

who earlier accepted the invitation for the inauguration. Alumni association members honoured the retired professors in the 'Gurupooja' session.

The Association decided to start NET/SET/ Asst Prof coaching classes at NAS College from January 2013 to June 2013. The NET/SET/ Asst Prof coaching classes was inaugurated on 05-02-2013. ₹ 10000/- from the profitable amount from the coaching classes was donated to one old student of NAS College who underwent bypass surgery at Sreechithra Institute of Medical Sciences, Thiruvanthapuram. ₹ 9000 was distributed to the meritorious students of NAS College as scholarship.

On 25-03-2013 Farewell Function was organized in honour of retiring professors- Dr. Kochuthresyamma Andrews, Prof K. Narayanan, Prof. Luckose Jose, Prof. P. Prabhakaran, and Prof. Malathy Rajagopal.

A Felicitation Function was organized to honour Dr. M.K. Abdul Khader, the Honorable Vice Chancellor, Kannur University and former Principal of NAS College on 08-05-2013. The program was inaugurated by the Honourable Union Minister of State for Civil Aviation Sri. K. C. Venugopal. Sri. M. Kunhiraman Nambiar Ex MLA, Manager, NAS College, presented memento to Sri. K. C. Venugopal. The Alumni association honoured Dr. A. Muralidharan, old student of NAS College, who was appointed as the Principal of NAS College.

The Alumni association donated ₹ 50000 as the first installment of the college stage renovation fund and the second installment will be handed over in the month of July 2013.

31. Support from the PTA and its activities.

We have a very strong PTA that contributes significantly to all the activities of the students, staff as well as the management of the college. The PTA increased its scholarship to students from ₹ 47,000/- to ₹ 1,05,000/-. It decided to construct a 'Women's Centre' for the girls students and lady staff. Spending an amount of 58,304/-, the PTA installed a Napkin Vending Machine and a Napkin Destroying Machine in the girls' room. The PTA also decided to write off the advance given to college magazine, as there is little possibility to receive the same from the government account. The PTA also pay ₹ 1,500/- per month to the sweeper as a consolation for the heavy duty. The PTA has also resolved to bear half the salary of the Guest Faculty

in the Department of Hindi. An amount of ₹ 50,000/- has been set aside for the beautification of the college campus. It was also resolved to pay an amount of ₹ 2,500/- per seminar organized in the college. As the fine arts activities of the students incurred an excess amount of ₹ 25,000/- than the allotment during the year, the association resolved the bear this additional expense.

32. Health Services

Medical check-up for 1st semester degree and PG students are conducted regularly. A health club was functioning in the college that arranged seminars to create awareness among students on health aspects in general.

33. Performance in Sports Activities.

Students of our college put up a good performance in the intercollegiate sports and games competitions 2012-'13.

Event	Position in the University	No. of players selected to University team
Kho-Kho (Women)	Winner	Captain
Basket ball (Men)	Winner	Captain
Kabaddi(Women)	Runner up	Captain
Kabaddi(Men)	Winner	Captain
Hand Ball(Women)	Runner up	
Cricket (Women)	Third Place	
Kho-Kho (Men)	Third Place	
Athletics (Women)		
Athletics (Men)		
10000 Mts	Second Place	
5000 Mts	Second Place	

400 Mts	Third Place	
200 Mts	Second Place	
Javelin Throw	Third Place	

- One of the students was selected to Senior State Women Kabadi Team.
- Two students were selected to Junior State men Kabadi Team.
- A total of 29 students were selected to various University teams.

34. Incentives to outstanding Sports persons.

Out of the 60% seats under merit quota, one seat is reserved for candidates with outstanding records in sports and games. Candidates claiming reservation should have participated in the University/State/National level sports/games and have to attach attested copy of certificates of participation. Students, recommended by the Kerala Sports Council, are also admitted over and above the sanctioned strength subject to the concurrence of the University. The college also runs a sports hostel for basket ball players, which is sponsored by Kerala Sports Council.

35. Students achievement and awards during the current academic year

The current academic year has seen our college bagging 2 University ranks in the UG and 3 in the PG programmes.

Sl. No.	Programme	Name of the student	Mark/Grade	University rank
1	B. Sc. (Polymer Chemistry)	Manzoora Madambillath	3.73	I Rank
		Neethu P V	3.72	I Rank
		Akhil Raj K	3.67	I Rank
2	B. Sc. (Plant Science)	Deepa A V	3.75	I Rank
		Linu Thomas	3.55	II Rank
		Anju M	3.5	III Rank
3	B.Sc. (Statistics)	Manjusha	3.58	I Rank
		Poornima shenoy	3.57	II Rank
4	M.Sc. (Statistics)	Reshma K	1203	I Rank
		Gopika P	1199	II Rank

Fine Arts

In the Kannur University Fine Arts Festival, in which more than 100 colleges participate, our college always stands either first or second. In the report year the college received runners up trophy with 160 points. We stood first in English poem writing, Hindi screen play writing, English screen play writing, Hindi screen play (feature) writing, English recitation, Urdu recitation, kathakali, kolkali, paricha muttu, group dance men, group dance women, folk song group, and moplia pattu, second in Kannada essay writing, Kannada recitation, western music, Hindi drama, Malayalam skit, margam kali and Malayalam group music, and third in Kannada story writing, debate in Malayalam, Sanskrit recitation, jazz, and monoact,

Achievements in NCC

Varun is selected to attend the Army Attachment Camp at Indian Military Academy, Dehradun, a prestigious camp in the direction of selecting in the Military Officer cadre. Varun is the only cadet selected from the NCC Kozhikode Group (Comprising the area from Palakkad to Kasaragod). He along with five cadets from Kerala-Lakshadweep Directorate attended the Army Attachment Camp at Indian Military Academy, Dehradun from 16 June 2013 to 30 June 2013.

Akhil A R successfully completed the SSB selection and is now undergoing training at Officers Training Academy, Chennai. Akhil A R and Ajay Sekhar were awarded Sahara Scholarship worth ₹16000 each.

We presented 47 Cadets for the 'B' certificate examination and achieved 100% result in the examination. 33 Cadets out of 35 Cadets passed the 'C' certificate examination.

Other achievements

Bijin, English, won 2nd place at the district level university quiz competition conducted by Kasaragod Sports Council

Bijin, English, won 2nd place at the All Kerala University Level quiz competition conducted by Doordarshan, Kozhikode.

36. Activities of the Guidance and Counselling Cell.

Guidance and counselling to our students were achieved mainly through the tutorial system. The tutor in charge of a class, acted as a mentor and counsellor. The tutorial meetings were held regularly. Apart from this system, the college has a separate counseling centre that took care of students, needed of special attention and counselling. Need based counselling is given to students. If found necessary service of professional counselors are made available.

37. Placement services provided to students

Centre for Career Information and Guidance (CCIG) is a vital unit in college, which caters placement services to our students. During 2012-'13, our thrust was to prepare the students for selecting best professional career and creating awareness about various professional institutions in India and abroad for pursuing professional studies leading to placement. Career journals and magazines were subscribed for creating awareness on employment opportunities. Programmes undertaken by various governmental and non-governmental organizations to equip the students to face interviews and to access various job opportunities were organized. The South Indian Bank conducted campus recruitment programme in our college and the selection process is going on positively.

38. Development programmes for Non-Teaching Staff.

The computer centre of the college gives training on usage of computer software and office automation for the non-teaching staff of the college. Almost all office works, including preparation of salary bills, issuance of various certificates etc are completely computerized.

39. Best practices of the institution.

Best practices started /followed in 2012-'13 are as follows.

- Usage of examination books for internal assessment, which served as transparent record of the progress of students.
- Office automation with the new software “fedena”.

- Revision of feedback forms on curricular aspects.
- Purchase of more teaching aids like LCD projectors, CDs etc. to keep pace with technological developments.
- Encouraging more number of teachers to do research activities.
- Sharing of institutional resources, building, furniture, playground etc for the general public and other educational institutions.
- Accommodating a few girl students of Central University of Kerala in our ladies' hostel.
- Providing more toilet facilities to our girl students
- Running UGC NET coaching center for SC/ST/Minorities.
- Providing spacious car parking area for staff members
- Institutional initiative to build houses for the endosulfan victims of kasargod district.

40. *Linkages developed with National/ international/ academic / research bodies.*

Faculties of various departments individually developed linkages with professors of IITs/institutions of national repute for their research activities.

41. *Any other relevant information.*

(i) Participation / Presentations in Orientation/Refresher Courses Seminars/ Conferences/Workshops by faculty

Department of Botany

- C. Manjula presented the paper on “Morphological and molecular characterization Kuttiadi ecotype of coconut” at the Swadesi Science Congress conducted by the CPCRI, Kasargod on 06-11-'12.
- C. Manjula, participated in the Training cum Awareness Programme on “Protection of plant Varieties and Farmers Right Act” held at CPCRI, Kasaragod on 23rd March 2013.
- C. Manjula Participated International conference on “Coconut Biodiversity for Prosperity”. Conducted by CPCRI kasaragod on 25-28 September 2012.

- C Manjula attended the National seminar on ‘Current Development in Biology’ at Government College, Kasaragod on 13-03-12 Sponsored by Department of Collegiate Education Government of Kerala.
- P. K. Prajith attended Orientation Programme conducted ASC, Kannur University during November 2102.

Department of Economics.

- M. Anoopkumar presented the paper entitled “Price Instability of Plantation Crops” in the National Seminar at CDS Thiruvananthapuram on 22nd September 2012.
- P. K. Ratheesh presented paper entitled “ Role of Kudambasree in Financial Inclusion” in the National Seminar conducted by Bishopmore College, Mavelikkara in 2012.

Department of English.

- M. Vidya, chaired a technical session of the national seminar on English Language and Literature in the eEra organised by Department of English, Payannur College, Payannur in association with English Language Teacher’s interaction Forum at Payannur College on 4th January 2013.
- M. Vidya and O. Shayini attended a workshop on P G Syllabus Revision at Kannur University
- O. Shayini and N. C. Biju attended a workshop of Higher Education council on Additional Skill Acquisition Programme (ASAP) ON 4- 3- 2013
- Namratha Manoharan, presented a paper titled –“Fictionalizing History: A New Historicist reading of Dickens” at the National seminar on Charles Dickens and Victorian England: What the Dickens? organised by the dept of English, St Aloysius College, Mangalore on 14& 15 Dec 2012
- Namratha Manoharan attended a National workshop at the Central University of Kerala, Kasargod from 5th-10th Nov. 2012 on ‘Preparation of Scholarly Articles’ organized by the Library and Information Sciences Department.

- Namratha manoharan Presented a paper titled ‘Mode of Resistance in Mylamma at a National Seminar sponsored by the DC conducted by the PG and Research Department of English at KMMGWC on 14th and 15th Feb, 2013.
- N. C. Biju presented a paper titled ‘An Alternative View of Writing and Learning as a Social Practice’ at Madayi College Organized by Kerala State Higher Education on 8. 02. 2013 and 9. 02. 2013
- P. M. Sithara presented a paper titled ‘The Body as a Weapon Against Patriarchy: A Study of Kamala Das’s ‘My Story’ and Nalini Jameela’s ‘The Autobiography of a Sex worker’ at a National Seminar on Contemporary ‘Feminisms’ in India conducted by the Postgraduate Department of English, St. Aloysius College, Mangalore on 23rd January 2013
- K. R. Indulekha, presented a paper titled ‘Death of an English Classroom: Paradigm Shifts in SLA’ in the two day seminar on Teaching and Learning of English as Second Language: New Perspectives, sponsored by KSHEC and organized by Co-operative Arts and Science College, Madayi.
- K. R. Indulekha, presented the paper entitled ‘An Eco critical Reading of Enmakaje’ in the national Seminar on ‘Literary Theory and Practice: Changing Perceptions’, at Government College, Kasargod.
- K. R. Indulekha, presented the paper entitled ‘Engaged Pedagogy and English Classrooms’ in the international Seminar on ‘Second Language Education – Issues and Solutions’, conducted by Department of Education Kerala Governemnt and SSA, held at Trichut on 31-03-2013.
- M. K. Rukyaya presented a paper entitled “Feminism in Girish Karnad’s Nagamandala” organized by Post Graduate Department of English, Aloysius College, Mangalore, Karnataka, 23 January 2013.
- M. K. Rukyaya presented a paper entitled : “Mahesh Dattani’s Tara: The Other Side” in the Tow Day National Conference on ‘Minor Subjectivities: Paradigms of Representation and Discourse’ organized by Department of English, Kannur University. 27-28 February 2013.

- M. K. Rukyaya presented a paper entitled “An Eco-critical Perspective on Arundhati Roy’s The God of Small Things” in the National Seminar on ‘Literary Theory and Practice: Changing Perceptions’ sponsored by the DCE, Kerala Govt. organized by Govt. College, Kasargod, 29 January 2013.

Department of Mathematics

- Dr. T. Dinesh attended the National seminar on ‘Number Theory and its Applications’ at K. K. T. M. Government College, Pullut, Kodungallur on 10-12-12 and 11- 12- 12.
- Dr. Dinesh T. attended the UGC sponsored 3 day workshop on Discrete Mathematics at Dept. of Mathematics, Central University of Kerala, Kasaragod during 09- 01-13 to 11- 01- 13.
- Sajitha K. M. attended the National Seminar on ‘Ramanujan’s Delightful Pursuits’ at Government College, Kasaragod on 01- 11- 12 and 02-11-12.
- Dr. Reeja P. V. attended the UGC sponsored 3 day workshop on Applied Analysis at Dept. of Mathematics, Central University of Kerala, Kasaragod during 28- 02-13 to 02-03-13.

Department of Physics

- R. K. Sathish presented the paper “Gibbs paradox for harmonic oscillators” in the National conference on Emerging trends in theoretical and experimental physics Sept 26-27, 2012
- R. K. Sathish presented the paper “Extensivity of entropy in grand canonical ensemble for Classical Harmonic Oscillator.” in the 27th annual IAPT convention Nov 2-4, 2012
- R. K. Sathish presented the paper “A study of nature of entropy of classical and quantum harmonic oscillator in grand canonical ensemble” in the Kerala science congress 2013.
- Dr. K. Naseema attended a two week refresher course in “Statistical Physics” sponsored by Indian Academy of Sciences, Bangalore, Indian National

Science Academy, New Delhi the National Academy of Sciences, India, Allahabad in collaboration with Nehru Arts and Science College, Kanhangad from April 29 to May 12, 2012.

- Dr. K. Naseema participated in the National Seminar on “Recent Trends in condensed matter physics” conducted by the Physics department, Government Brennen College, Tellicherry on 25th January, 2013.
- Dr. K. Naseema participated in the “Special lectures on Thermal analysis and NMR spectroscopy” conducted by the School of Chemical Sciences, Kannur University on 29th November, 2012.

Department of Statistics.

- Dr. T M Surendranath participated in the national seminar conducted by the Department of Statistics, CUSAT during February 11-13,
- Dr. T M Surendranath participated in the national seminar conducted by Department of Education and centre for Gandhian studies, Kerala University during March 11-13, 2013.
- Mr. K Radhakrishnan Nair Presented a research paper entitled “A relative Comparison of Covariance Patterns in Modelling Longitudinal Data” in the National conference on Statistics for Twenty-First Century– 2012 (NSCST - 2012) organized by the Department of Statistics, University of Kerala during 10-12 December, 2012.
- Mr. K Radhakrishnan Nair served as Resource person for one day workshop on ‘R Programming’ organized by Sir Syed College, Thalipparamba, conducted on 20-10- 2012.
- Mr. K Radhakrishnan Nair served as Resource person for DCE (Govt. of Kerala) sponsored two day workshop on ‘R Programming’ organized by Govt Arts & Science College, Calicut on 5th & 6th November 2012.
- Mr. K Radhakrishnan Nair delivered invited talk on the DCE (Govt. of Kerala) sponsored two day workshop on ‘Statistical Software Packages’ organized by

The Post Graduate Department of Statistics, GPM Govt. College, Manjeshwaram on 22nd & 23rd January 2013.

- Mr. K Radhakrishnan Nair served as a resource person for the two day workshop on ‘Computational Statistics’ organized by The Department of Statistics, MES Asmabi College, Kodungalloor on 15th & 16th February 2013.
- Mr. K Radhakrishnan Nair delivered Invited talk in the One day Seminar on ‘Data Analysis Using SPSS’ organized jointly by the Department of Statistics and Department of Commerce, of Safi Institute of Advanced Studies, Vazhayoor on 22nd February 2013.
- Mr. K Radhakrishnan Nair participated a National Level NAAC sponsored one day workshop on “Revised methodology 2012: In Assessment and Accreditation by NAAC” conducted by the M S Ramaiah College of Arts, Science and Commerce, Bangalore on 16-04-2013.

Department of Zoology

- Mr. K Narayanan Participated in the NEAC 2012 two day workshop on ‘Biodiversity Conservation and solutions for environmental pollutions’ organized by, Department of Molecular biology, Kannur University, held during 2nd-3rd November, 2012.
- Dr. V. P. Syama participated in the Cluster Seminar ‘Biology to new biology: the paradigm shift organized by, School of Biological sciences Central University of Kerala, on April 10-11. 2012.
- Dr. V. P. Syama participated in the NEAC 2012 two day workshop on ‘Biodiversity Conservation and solutions for environmental pollutions’ organized by, Department of Molecular biology, Kannur University, held during 2nd-3rd November, 2012.
- Dr. V. P. Syama participated in the National seminar on Biodiversity Conservation : Prospects and challenges’ organized by, research Department of Zoology, Govt. College, Kasaragod, held on 11 and 12 december, 2012.

- Dr. V. P. Syama participated and presented a paper on “Fluctuations in the secretion of the Mandibular organ related to reproduction in a continuously breeding Mangrove Crab, *Sesarma Quadratum* (Decapoda)- an ultrastructural study” in the Biological Conference 2013, organized by the Department of Zoology, University of Calicut, Kerala during March 11-13, 2013.
- The department Organized a poster presentation competition on biodiversity for B Sc students of the college was conducted on 23rd March 2013.

(ii). Activities of the departments for the year 2012-'13 are as follows.

Department of Botany

The OISCA club of the college, which is co-ordinated by Dr. Agretious Thomas of the department planted seedlings of many fruits, herbals and trees.

The Department took initiative for the cultivation of mushrooms as part of the project work of III B.Sc. Plant Science students.

A class on “Environmental Awareness” by Dr. Ambikasuthan Mangad, was given to the students on 12-09-'12.

The students of the department were taken to the Central Plantation Crops Research Institute, Kasargod, from where they got a demonstration class and training on mushroom cultivation.

The students of the department took the challenge of production of jam and squash, the inauguration of which was done on 07-02-'13.

A Workshop on ‘Campus Plant Identification’ was conducted on 13-03-'13. Dr. Subrahmanya Prasad, Sir Syed College Thaliparamba was the resource person.

The department conducted a seminar on 28-02-'13. Prof. G M Nair, Dean of Biological Sciences, Central University of Kerala delivered invited talk on “Genetically Modified organism-Prospect & Problems”, and Dr. R. Sujatha, Department of Biotechnology, College of Agriculture, Padannakad delivered invited talk on “Advancements in Genomics and Proteomics”.

Department of English

Conducted a 21-day residential training cum selection for Skill Development Executives as part of the Additional Skill Acquisition Programme, a joint initiative of Higher Education & General Education Department, Govt. of Kerala. N C Biju was the Course Director and O Shayini and Namratha Manoharan were Master Trainers

O. Shayini, N. C. Biju and Namratha Manoharan, Attended a four day residential training camp of ASAP- 'TRAINING PARTNER SCHEME-TRAIN THE TRAINER' – at Maria Rani Training Centre, Trivandrum from April 3, 2013- April 6, 2013.

N C Biju – was a member of the interview panel for the recruitment of students from Eleritattu Govt. College under ASAP- THOUSAND SPLENDID STARS

Namratha Manoharan. Member of the interview panel for the recruitment of students from Kasaragod Govt. College on 16th Jan 2013 under ASAP- THOUSAND SPLENDID STARS

Department of History

Conducted Nation Seminar on "History and Society" on 30-06-2012. Conducted National Seminar on "Nationalism, Peasant Movements and Social Changes on 23-12-12. The renowned play back singer Smt Vani Jayaram inaugurated the 20th anniversary of History Club on 9 July 2012. On 11 July 2012, Population awareness talks were delivered by Anoop Kumar M and Ratheesh P K. History Theatre was inaugurated on 13 July 2012 by Sri P V K Panayal. On 6 August 2012, we had the Hiroshima Nagasaki Day observation which was inaugurated by Sri E Chandrasekharan M L A.

Quit Pesticides programme was conducted on 9 August 2012 by creating Human Wall by students and teachers. Captain Lakshmi Sehwal Memorial Talk was delivered by Sri Vasu Cherod. On 28 September 2012 PSC Coaching to the students of NAS College was inaugurated by Dr Giovindan (Dean, Agricultural University, Nileswar campus) Students for the programme were selected through

entrance test and 400 students attended. Handled 20 classes within a span of 2 months.

The department conducted a Gandhi photo exhibition on 8 October 2012

A Talk on Space, a audio-visual program was conducted on 9 October 2012 by Sri Sreejith M, scientist VSSC, TVM

‘Talk on Eric Hobsbwam’ was conducted in memory of in memory Eric Hobsbwam. Students presented Seminar papers on Eric Hobsbwam on 12 October 2012.

History Alumni get together was organized on 13 October 2012 . Seminar on Local History was inaugurated by Prof K. P. Jayarajan (Former Controller of Examination, Kannur University and present Controller of Examinations, Yenapaya University) by presenting a paper on “The role of Nileshtar in the Independence Movement”. Sri K. Balagopalan Master presented a paper on “Nileshtar Rajavamsam”.

On 2 November 2012, the department conducted an audio-visual program in memory of late famous film actor Sri Tilakan.

On 1 Jan 2013, the department organized a procession in protest against the attack on women in the context of the Delhi incident. All the students of NAS College participated in the procession.

Training programme for Global competence and Cultural Commitment in collaboration with World Malayalee Council and ALTIUS was organized at NAS College on 19 Jan 2013. Students from different colleges of Kasaragod district participated in the One day programme.

National Seminar on Nationalism, Peasant Movements and Social Change in honour of retiring professor Dr P Prabhakaran on 23 March 2013. The Program was inaugurated by Dr K K N Kurup, Former Vice Chancellor of Calicut University.

Department of Malayalam

The department conducted a large number of debates, seminars and discussions that played significant role in moulding the personality of the students. On 07-07-'12 an interaction session with the novelist Subaida was organized. On 25-09-'12, the Sahithya Vedi organized a programme to commemorate the famous Malayalam actor Thilakan, On 09-10-12, a discussion with the famous cinema director Madhu Kaithapram was organised. A poets meet was organized on 12-10-'12, which was inaugurated by the poet Karivellur Murali. On 12-11-'12 a discussion session was organized in connection with the World Malayalam Day. On 13-11-2013 a seminar entitled 'polindra' which explored the myths behind the national festival onam was conducted. A training programme for elocution and debate was conducted on 18-01-13. Mr. Rubin Joseph was the resource person. The first death anniversary of the famous writer, critique, teacher and public speaker Prof. Sukumar Azhikode was observed on 30-01-13. A discussion on contemporary short stories was conducted on 11-02-13. On 01-02-13 a film show of the cinema whose story, screen play and directions was done by the alumni of the college P Murali was conducted. The film was on the ever increasing suicidal tendency. A programme to commemorate the famous Poet D. Vinayachandran was conducted on 12-02-13. On 01-03-2013 a felicitation programme to the winners of off stage items in the university arts festival was conducted. This year, the college had secured second place in the festival, in which more than 100 colleges competed. The sahithya vedi organized a three day discussion programme during 14-16 March 2013, in which the poems of our students in the areas environment, feminism, dalith movement and local languages were presented.

The two day workshop on 'literature' was yet another commendable programme that the vedi organized. 35 famous Malayalam writers participated in the programme. Famous writer M. Mukundan inaugurated the workshop on 16-02-2013. The programme was attended by selected students from all colleges of the Kannur University.

Sahithya vedi released two publications during the year. They are 'Hajar Pusthakam' which contained writings of 12 famous writers who are alumni of the college, and 'Anish vengatinte kavithakal', which is a collection of poems by the

former secretary of Sahithya Vedi, Anish Vengat. It also conducts discussion on creations of the students and debates on burning topics regularly. Dr. M Ambikasuthan Mangad, Associate Professor of Malayalam and environmentalist is the impetus behind these activities. He was also the leader of the strike against the poison edosulfan that caused widespread damages to the humanity of the district.

Department of Mathematics

One day seminar on Vedic Mathematics & Learning Aids in Mathematics conducted by the Mathematics Club on 20-09-12.

Department of Physics

The Department of Physics conducted a two week refresher course in “Statistical Physics” sponsored by Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi the National Academy of Sciences, India, Allahabad in collaboration with Nehru Arts and Science College, Kanhangad from May8 to May 21, 2013.

Department of Statistics

The department celebrated the National Statistics Day on 29-06-2012. As a part of the celebration a quiz competition was conducted for the B. Sc Statistics students.

To create awareness about the need and importance of population control the department conducted a programme on 11-07-12. District Public Relation and Information Officer, K Abdul Rehman was the chief guest for the programme.

The department observed the World Food Day on 16-10-12. Prof. K Narayanan delivered a talk on the food problem on the day.

The Department conducted university level U S Nair memorial quiz competition on 02-02-13. Manjusha and Poornima Shenoy, III BSc Statistics students of the department secured second prize in the competition.

The department won the first place in the Kannur university regional level inter collegiate quiz competition conducted by the Alumni, Cochin University of Science and Technology.

Department of Zoology

An environmental quiz was conducted for B Sc students on 11-06-2012. Conducted a field trip to Theerthankara to study the Ecosystem 12-07-2012. Conducted study Tour during 08. 10. 12 – 114. 10. 12. Visited institutes such as M S Swaminathan Research Institute and Spices Board, Wyanad, Pasteur Institute, Coonoor, Ooty, CMFRI, Kochi, and other areas of ecological interest.

Annual Alumni meet was held at the department on 10-11-2012. Alumni awards were distributed to the top scorers in the three classes. The Zoology Association was inaugurated on 07-01 -2012 with a Seminar on stress management. Jc. Thomas Jose was the resource person. A one day seminar on “Conservation Beyond Protected” was conducted on 22. 03. 2013. Dr. P A Sinu, the Dept. of Animal Sciences, Central University of Kerala, Kasaragod was the resource person.

Department of Physical Education

Our college teams participated in 18 University intercollegiate team championship, 3 all Kerala invitation tournaments and one district league championship during 2012-13. We were winners in 4 items, runners up in 2 items and third place in two items. 4 of our students were selected as captains of different university teams. In cricket (Men), we were C Zone winner. In athletics we won two second places and three third places.

One of the students was selected to Senior State Women Kabadi Team, Two were selected to Junior State Men Kabadi Team, and 29 students represented University teams. The only one Basket ball ground in the district is in our college. We give training to local people as well as students of the Rajah's High School, Nileshwar. This year the department enhanced the facility by purchasing one tread mill, one orbis truck and one gym ball.

The department organized the Kannur University Inter-Collegiate Kabadi Tournament and hosted the following events.

1. District Senior League Men Basket Ball Tournament.
2. District Senior League Men Basket Ball Tournament.

3. District Junior League Men Basket Ball Tournament.
4. District Sub-Junior League Men Basket Ball Tournament.
5. District School Junior Boys and Girls Men Basket Ball Tournament.

NCC

A unit of Senior Division NCC (Infantry) consisting of 107 cadets is attached to the College. The cadets had performed well and had considerable achievements during the year 2012-13.

The NCC cadets of our institution attended Annual Training Camp, Combined Annual Training Camps, Army Attachment Camp, Rock Climbing Training Camp, Trekking Camps and National Integration Camps. 1 NCC Cadet of our institution attended the Rock Climbing Training Camp at Gwalior from 07-11-2012 to 17-11-2012 at Gwalior. 6 NCC Cadets of our institution attended the National Integration Camp from 26-06-2012 to 05-07-2012 at Shahiabad. 2 NCC Cadets of our institution attended the Combined Annual Training Camp from 24-01-2013 to 02-02-2013 at Pandikatt.

2 NCC Cadets of our institution attended the National Integration Camp at Kalpakkam from 18-12-2012 to 27-12-2012. 1 NCC Cadet of our institution attended the National Integration Camp from 22-12-2012 to 31-12-2012 at Kollam. 21 cadets of our institution attended the Combined Annual Training Camp from 21-07-2012 to 29-07-2012 at Kozhikode. 6 NCC Cadets of our institution attended the Combined Annual Training Camp from 26-06-2012 to 05-07-2012 at Mavoor, Kozhikode. 5 NCC Cadets of our institution attended the Combined Annual Training Camp from 25-08-2012 to 03-09-2012 at Koothuparamba, Kannur. 17 NCC Cadets of our institution attended the Combined Annual Training Camp, Mavoor, Kozhikode from 21-07-2012 to 29-07-2012. 6 NCC Cadets of our institution attended the Combined Annual Training Camp from 15-09-2012 to 24-09-2012 at Mavoor, Kozhikode. 5 NCC Cadets of our institution attended the Combined Annual Training Camp from 28-06-2013 to 07-07-2013 at Kozhikode. 5 NCC Cadets of our institution attended Army Attachment Camp from 11-06-2012 to 20-06-2012 at Secunderabad. 03 NCC Cadets of our institution attended the Kerala Trekking Camp, Aluva from 23-12-2012

to 30-12-2012. 3 NCC Cadets of our institution attended the Trekking camp from 06-05-2012 to 16-05-2012 at AP Trek. 2 NCC Cadets of our institution attended Trekking camp from 02-12-2012 to 12-12-2012 at Bihar Trek.

NCC Cadet Varun attended 5 Pre Republic Day Camps at Kozhikode. He attended Group Competition held at Kozhikode and selected for the last Pre Republic Day Camp at Thiruvananthapuram. Varun is selected to attend the Army Attachment Camp at Indian Military Academy, Dehradun, a prestigious camp in the direction of selecting in the Military Officer cadre. Varun is the only cadet selected from the NCC Kozhikode Group (Comprising the area from Palakkad to Kasaragod). He along with five cadets from Kerala-Lakshadweep Directorate will attend the Army Attachment Camp at Indian Military Academy, Dehradun from 16 June 2013 to 30 June 2013.

Independence Day ceremonial parade was centrally organized at Kasaragod and a contingent of 31 cadets commanded by Senior Under Officer Sribin C took part in the parade.

Akhil A R successfully completed the SSB selection and now undergoing training at Officers Training Academy, Chennai. Akhil A R and Ajay Sekhar were awarded Sahara Scholarship worth ₹16000 each.

A contingent of 31 cadets of this institution commanded by Senior Under Officer Sribin C participated in the centrally organized parade held at Kasaragod to celebrate the Republic Day. The contingent of this institution was selected as the best contingent among the participants and received the winner's trophy from the honourable minister Sri M K Muneer.

We have presented 47 Cadets for the 'B' certificate examination and achieved 100% result in the examination. 33 Cadets out of 35 Cadets passed the 'C' certificate examination.

The NCC Cadets of our institution actively participated in the social activities and greatly involved in community service. 120 period classes and parades were arranged to the Cadets from August 2012 to January 2013 on Saturdays. The cadets got classes

on weapon training, first aid, disaster management, personality development, leadership, map reading, and national integration.

For helping the poor patients useable medicines were collected by fixing a Medicine Box near the college office from the students and staff and distributed to the patients in collaboration with the Pain and Palliative Care centre, Nileshtar from July 2012 to May 2013. The program was inaugurated by the Principal Dr. Kader Mngad. On 10 November 2012 NCC cadets cleaned the College premises. NCC Officer Lt. Nandakumar Koroth inaugurated the programme. On 14 November 2012 a program titled 'Desharaksha Jyothi' was organized to promote the feeling of nationalism and patriotism. Principal Dr Khader Mangad inaugurated the programme by lighting 'Desharaksha Jyothi'. On 31 May 2013 Anti- tobacco day was observed. The principal Dr. A Muralidharan inaugurated the function. Health Worker Sri Rameshan handled anti-tobacco class to create an awareness among the students.

National Service Scheme

Nehru Arts and Science College N.S.S. units (no.4 & 5) are functioning under the supervision of two Programme Officers, Dr. T.M. Surendranath (Statistics Department) and Dr. Muralidharan Nambiar M. (Politics Department). The current strength of the N.S.S. is 200; out of which 136 are girls and 64 boys. N.S.S. units of our college have undertaken programmes like Clean Campus, Anti Drugs Day, Legal Awareness Class, distribution of preventive medicine to students of the college, World Aids Day celebration, UN Day celebration, blood donation awareness class, Making Green Campus programme, Village Adoption Programme, celebration of World Women Day etc. In addition, we have carried out Agriculture Development Programme undertaken by Government of Kerala.

The five day annual camp was held at Government Higher Secondary School, Periya during the Christmas vacation. The camp was attended by 100 students from both units under the supervision of the two programme officers.

A procession has been conducted to create awareness among people about the importance of the preservation of water in the present period. Haritha G. (III B.Sc. Statistics) has been selected the best volunteer at the Kannur University level. N.S.S. volunteers participated in camps in the University and State level.

Bio-Diversity Club

The Bio-Diversity Club celebrated the World Environment Day On 05-06-2012 by planting saplings of a number of trees in the campus. The saplings were planted in the protected area called 'Shanthistal', which is a project of the Kerala State Bio-Diversity Board, the only one project of its kind in the district. A large number of shrubs and trees are grown here. The area is covered with an organic fence. The National Environmental Awareness Programme 2012-'13 was conducted with the aid of the Ministry of Forest and Environment, Govt. of India on 16-10-'12. An essay competition was conducted on 31-10-'12 and a workshop was organized on 03-11-'12 in this connection. A demonstration of Pipe Compost was also conducted on 03-11-'12.

The Lahari Virudha Vedi

The vedi celebrated the World Anti Drugs day by releasing a wall news paper 'Margadepam' on 26-06-12. It also released the magazine 'Thiri' on 07-09-'12.

PART C

Detail Plans of the Institution for the next year

The plan of action for the year 2012-'13 was chalked out as :

- a. To conduct a State level seminar "on enhancement of quality in colleges".
- b. To enhance the botanical garden of the college as an extension of the Plant Science department.
- c. To upgrade the department of Chemistry as a Research Centre under Kannur university.
- d. To start M,Com degree course and BA in Malayalam by the next academic year and raise the college to the status of having 10 UG courses and 5 PG courses.
- e. To conduct more short term computer courses under the aegis of C.K.Nair Computer Centre.
- f. To help our students to speak English fluently with the help of the Language Laboratory in the college.
- g. To encourage the students and teachers towards ICT learning.

- h. To widen the activities of History Club and bring out a publication of the club on local history.
- i. To organize more literary camps/workshops under the umbrella of 'Sahithya Vedi'.
- j. To bring experts to have a face to face interaction with the students so as to acquire more knowledge.
- k. To establish a multi-gym.
- l. To conduct a National Level Seminar on recent advances in Physics.
- m. To produce more Ph.Ds in the coming year from our Research Centre in Statistics.
- n. To develop a biodiversity forum in the college and to establish an "eco-park".
- o. To purchase more teaching aids to keep pace with technological advancement.

K Radhakrishnan Nair
Co-ordinator, IQAC

Dr. AMuralidharan
Principal & Chairman, IQAC