



KAMARAJ COLLEGE::THOOTHUKUDI

Tamilnadu - Pin- 628003

Ph: 0461 – 2375988, Tele fax: 0461 - 2376790

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Dr D. NAGARAJAN M.Sc., M.Phil. Ph. D.,
Principal

To

The Director,
National Assessment and Accreditation Council,
P.O. Box No. 1075, Nagarbhavi,
Bangalore – 560 072

Dear Sir,

Sub: Submission of Self Study Report (SSR) to NAAC - reg.

I am happy to present the Self Study Report of our College for the Second Cycle of accreditation by NAAC.

I request your goodself to kindly arrange for the peer-team visit to our College as early as possible.

Thanking You,

Yours Sincerely,

Thoothukudi
12.08.2015

(Dr D. NAGARAJAN)
PRINCIPAL

SELF STUDY REPORT

(SSR)

Submitted to

**National Assessment and
Accreditation Council**

(NAAC)

Bangalore-560 072



By

KAMARAJ COLLEGE

THOOTHUKUDI - 628003

TAMIL NADU

AUGUST 2015

www.kamarajcollege.ac.in

kamarajcoll@dataone.in

KAMARAJ COLLEGE

THOOTHUKUDI-628003

IQAC – STEERING COMMITTEE

SELF STUDY REPORT - 2015

Dr D.Nagarajan	Principal & Chairperson
Dr G.Narayanasamy	IQAC Co-ordinator
Dr A.Kanthasamy	Member
Prof V.Shunmugaraja	Member
Prof M.Muniasamy	Member
Dr A.Sivadhas	Member
Ms S.Sugirthadevi	Member
Dr V.Arinathan	Member
Dr R.Sornaraj	Member
Dr V.Josephraj	Member
Dr S.Kannan	Member
Ms M.Rajeswari	Member
Dr C.Thangaraja	Member
Mr T.Balasingh	Member
Mr T.Tamilarasan	Member
Mr K.Manoharan – Supdt.,	Member
Mr.R.Rajan (Susee Auto)	Member
Mr R.Muthuselvam (College Committee member)	Member

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EXECUTIVE SUMMARY

The College named after **Bharat Ratna Shri. K. Kamaraj** as a tribute to the invaluable service rendered by him to our nation, particularly to the cause of education to the downtrodden in Tamilnadu was founded in 1966 by the Tuticorin Education Society with Mr. A.M.M.S. Ganesan as founder Patron of the college. At present, Mr. A.M.M.S.G. Kathiresan B.E., as the Patron and Mr V.Ilango, as the president lead the Institution successfully following the footsteps of his forerunners.

The college was affiliated to Madurai Kamaraj University, Madurai till 1990 and now affiliated to Manonmaniam Sundaranar University, Tirunelveli. The College is non-communal, non-sectarian and has paramount objectives to give higher educational facilities to the students of southern districts of Tamilnadu.

As the institution enters into the Golden Jubilee year 2015-2016, this introspection bears testimony to our renewed commitment to excellence and quality in education. At this historic juncture, we are very much pleased to enter into the second phase of accreditation by NAAC. We strongly believe that introspection of our growth after the first cycle assessment in 2004 will reaffirm our commitment to quality of education for the local community. The experience underwent from the first cycle assessment, the interaction with the peer team and its report gave us an impetus to diversify our activities. NAAC has been a guiding force for the present and future programmes, functions and activities. As per the suggestions of the peer team, the College has taken steps to enhance the quality of higher education.

The College has been recognized by UGC under section 2(f) and 12(b). It offers eighteen under-graduate courses, ten post-graduate courses, three M.Phil., and two Ph.D. programmes. Besides, two diploma courses and one PG diploma course are also offered. It has two research centres in mathematics and Zoology.

In the past five years under-graduate programmes in B.Com., B.Com., (Computer Applications), B.Com. (Corporate Secretaryship), B.A. in English and post-graduate programmes in M.Com., (Computer Applications), M.Sc. Chemistry, M.A. English,

M.A. History and M.Phil., courses in Commerce with Computer Application, Mathematics and Zoology were started under self supported programmes. The Department of Mathematics was upgraded as a Research Centre.

The College follows the curriculum of Manonmaniam Sundaranar University, Tirunelveli. To address the concerns on environmental awareness among the students which is one of the urgent agenda of our country's development, course on "Environmental Studies" was introduced as a compulsory subject for all the U.G. students. Normally the curriculum is revised once in three years taking into consideration of the emerging new trends in the academic upliftment and the need of the local community.

'Choice Based Credit System'- CBCS has been introduced in the College as per the direction of the Manonmaniam Sundarnar University, Tirunelveli. Regarding the admission of students, the Government norms are followed maintaining complete transparency. The recruitment of teachers is made on merit basis. Student services are taken care of systematically. Grievances related to examinations, issue of certificates and testimonials, employment verifications are attended to with utmost seriousness.

A Language Laboratory caters to the needs of the students for developing their communication skills. The College has constructed toilets for differently-abled students and a restroom for women. There is a UGC Network Resource Center which supports internet facility to the faculty members and research scholars. One major research project supported by DST and two minor research projects from UGC are in progress now.

The College has seven NSS units, two NCC units (Army and Naval Wings). Various Committees have been constituted for curricular, co-curricular and extra-curricular activities like Quiz club, Yoga Club, Environment club, Photographic club, Electronic club, Humour club, Creative Writing and Elocution club, Music, Dance and Theatre Arts club, Drawing, Painting, Rangoli and Kolam Club, Journalism Club, Salesman Club, Consumer Club, Red Ribbon Club and a Placement Cell. The College is interested in promoting sports and games and the management liberally gives funds for sports activities.

The “Blood Donors’ Club” is doing yeoman service by encouraging students for blood donation to the needed community on emergency response and create awareness among them on blood donation.

The College gets University ranks every year. A student advisory system is functioning in the College. The advisor is in charge of a class and he maintains close contact with the students and their parents. He looks after the welfare of his wards in academic and personal matters throughout the course. The service is extended even after the completion of the course.

The College Committee issues policy direction to the College. The IQAC plays a vital role in quality assurance. The advisors with the help of the Students’ Redressal Cell settle the grievances of the students, if any. The Women’s Welfare Committee takes care of the women related activities. A conducive atmosphere for learning prevails in the College.

The College has opted for subjecting itself for re-accreditation. A Committee is formed with the leadership of the Coordinator of IQAC to prepare the NAAC Re - accreditation Report. The SSR is prepared on the basis of the AQARs and other documented information. The SSR is submitted to NAAC and the College awaits the visit of the peer team.

SWOC ANALYSIS OF THE INSTITUTION

STRENGTHS

- Kamaraj College, a service oriented educational institution with spacious campus is dedicated to the rural people in and around Thoothukudi, has grown tremendously in the last four years
- Competent and committed faculty with a single minded devotion for the welfare of students.
- Representation of Faculty in the academic bodies of the parental University and autonomous colleges
- Highly placed alumni in various fields at the regional, national and international levels and their interaction for the upliftment of Institution

- Due attention to student enhancement programmes in acquiring the study of the discipline
- Employment of updated methods and tools and ICT enabled teaching-learning ambience
- Continuously updated and automated Library with rich reference and research volumes with e-resources
- Appreciation of brilliant and commendable students by Management and Staff
- Attention to slow learners by remedial classes and encouragement of advanced learners to participate in seminars and conferences
- Close teacher-student relationship as well as faculty-administration
- Creative and personalized student accompaniment programmes
- Transparency in the evaluation of internal assignments
- Good academic performance with University ranks (37 in the last four years)
- Well-equipped Laboratory for all science departments.
- Creation of awareness towards employment in both public and private sectors to the students by conducting coaching classes for competitive examinations.
- Increase in the number of girl students in the College every year, inspite of the availability of three Women Colleges in the City.
- Achievements in Sports
- Golden Jubilee College.
- Conducting classes for Yoga, Personality development and Communication Skill.

WEAKNESSES

- Communication skills of the students are not very encouraging and many students have poor command over English language
- As most of the students are first generation rural learners, it becomes very difficult to train them to develop their soft skills.
- Very difficult to avoid absentees in the classes.
- Dependence of University for academic activities
- Improper ratio of students and staff.

- No separate boys' rest room.
- No audio visual room.
- Insufficient transport facilities. We provide only one bus for transport.
- Student strength increased to 2000 but the seating capacity available in the auditorium is not sufficient.
- Salary burden on management for temporary staff.
- No UG & PG programme in management and administration.
- Delay in providing permanent vacancies in office of the Principal by the Government leads to delay in day-to-day affairs.
- Water problem persists.
- No students union.
- Lack of proper motivation among many students
- Lacks of encouragement towards getting research grants from funding agencies in spite of many faculties with Ph.D.
- Deficiency in faculty/student publications.
- Lack of dissemination lectures of research findings by the staff and the students
- Less interdisciplinary and multidisciplinary
- Inadequacy of fund to conduct various programmes and activities
- Limited job opportunities for students

OPPORTUNITIES

- Our College is having an area of 50 Acres. At present we are using only 30 to 40% of the total area. The remaining vacant space is enough to add further educational infrastructure. Hence there is a great scope for starting new courses.
- UGC, DST and NAAC, which motivate the teachers to apply for grants to conduct seminars and also to apply for major and minor projects.
- UGC grants for conducting NET coaching classes and competitive examinations, helps the teachers to focus on training the students.
- Adequate recognition and rewards to the students for their activities in curricular and co-curricular activities.

- Enrichment of subject knowledge by organizing more seminars / workshops.
- Most of our alumni are doing business in and around Thoothukudi. An activity of alumni has strengthened the infrastructure of the College, which leads to developmental activities.

CHALLENGES

- Inability to start Aided Courses both at the UG and PG levels.
- Inability to get motivated students because of the plethora of Engineering Colleges.
- Lack of interest in pursuing higher education and career advancement due to rural background.
- Increasing competition from nearby Colleges.
- Achieving academic brilliance.
- Inspiring the Faculty members to gear up its changing and progressive paradigm in Higher Education.
- Majority of students hail from low socio-economic background and some are first generation learners.
- Seek autonomy in curriculum designing and student evaluation processes.
- Build competencies in the students for more effective community engagement
- Enhance employability
- Facilitate the interaction with the community on a weekly basis and integrate the classroom lessons to the community.
- Diversify the levels of involvement and methods of interventions to make the extension activities creative and exciting for all the stakeholders.
- Integrate research to the extension involvements whereby studying the community becomes integral to the activities undertaken there.
- Strengthen the existing community involvement by broadening its scope and heightening its intensity
- Build skills for creative outlook on current and live issues in society.

I. PROFILE OF KAMARAJ COLLEGE

1. Name and address of the College:

Name	:	Kamaraj College						
Address	:	482, Tiruchendur Road Thoothukudi – 628003						
City	:	Thoothukudi	District	:	Thoothukudi	State	:	Tamil Nadu
Pin code	:	628 003						
Website	:	www.kamarajcollege.ac.in						
E-mail	:	kamarajcoll@dataone.in						

2. For Communication:

Designation	Name	Tel. with STD Code	Mobile No	Fax No.	E-mail
Principal	Dr D. Nagarajan	0461-2376340	9994025952	0461-2376790	kamarajcoll@dataone.in
Vice-Principal	-	-	-	-	-
Steering Committee Coordinator	Dr G. Narayanasamy	-	9443471943	-	iqac1966@gmail.com

3. Status of the Institution:

- i. Affiliated College
- ii. Constituent College
- iii. Any other (specify)

4. Type of Institution:

- a. By Gender
- i. For Men (UG only)
- ii. For Women
- iii. Co-education (PG & UG)
- b. By Shift
- i. Regular
- ii. Day
- iii. Evening

5. Is it a recognized minority institution? Yes No

6. Sources of funding:

- Government
- Grant-in-aid
- Self-financing
- Any other

7. a) Date of establishment of the College :

Date	Month	Year
14	06	1966

b) University to which the College is affiliated:

Manonmaniam Sundaranar University
Tirunelveli

c) Details of UGC recognition:

Under Section	Date, Month & Year	Remarks (if any)
2 (f)	07-11-1988	---
12 (B)	07-11-1988	---

Certificate enclosed – (Annexure 1)

d) Details of recognition/approval by statutory/regulatory bodies other than UGC:

Under Section/ Clause	Recognition/Approval details Institution/Department Programme	Day, Month and Year	Validity	Remarks
AICTE	MCA	04-06-2014	2014-15	Renewed every year

Certificate enclosed – (Annexure 2)

8. Does the affiliating University Act provide for conferment of Autonomy (as recognized by the UGC), on its affiliated Colleges? Yes No

If yes, has the College applied for autonomy? Yes No

9. Is the College recognized

a) By UGC as a College with Potential for Excellence (CPE)? Yes No

b) For its performance by any other governmental agency? If yes, has the College applied for autonomy? Yes No

10. Location of the Campus and area in sq.mts:

Location	Rural
Campus area in sq.mts	2,00,482.1 Sq.mts
Built up area in sq.mts	15,150 Sq.mts

11. Facilities available on the campus:

- Auditorium/ Seminar Complex with infrastructural facilities
- Sports facilities:
 - Play ground
 - Outdoor games

- Foot ball court - 1
- Volley ball court - 1
- Kabbadi court - 2
- Cricket pitch with nets - 1
- Outdoor badminton court in Hostel - 1
- Basket ball court cement - 1
- 200 Meter standard track 6 lanes - 1

○ **Indoor Games**

- Table tennis - 1
- Physical Fitness & weight training - 1
- Carom - 1
- Store room - 1

➤ **Boys Hostel**

- Number of hostel - 1
- Number of inmates - 15
 - Facilities: Safe drinking water, recreation and sports facilities, reading room, audio visual equipments, etc. are available

➤ **Girls Hostel**

➤ Our College has separate hostel facilities for girls.

- Number of hostel - 1
- Number of inmates - 28
- Facilities: Safe drinking water, recreation and sports facilities, reading room, audio Visual equipments, internet, etc. are available

➤ **Residential facilities for**

- Teaching Staff : Nil
- Non-Teaching Staff : Nil

➤ **Cafeteria:** Canteen is functioning in the College campus.

➤ **Health centre:** Our College has tie up with M/S. Rajam Clinic, M/S. Thanga Kanniha Hospital and AVM Hospital, which is situated near our College. The hospital provides all emergency treatments to our students.

The Physical Director has a first aid kit in his room. The sportsmen and other students can avail the facility.

○ **Health centre staff:**

Qualified doctor	Full Time	<input type="text" value="-"/>	Part Time	<input type="text" value="-"/>
Qualified nurse	Full Time	<input type="text" value="-"/>	Part Time	<input type="text" value="-"/>

➤ **Facilities like banking, post office and book shops:**

Tamilnad Mercantile bank has a branch with ATM in the College premises.

Book depot is available.

➤ **Transport facilities to cater to the needs of students and staff:**

Government buses and private buses are available sufficiently. Apart from that, our College management is plying one bus for the girl students and women teachers.

➤ **Animal house:**

The Institution has no separate animal house in the campus.

➤ **Biological waste disposal:**

There is no source for hazardous biological waste in our institution. The non hazardous biological wastes are disposed properly as compost.

➤ **Generator or other facility for management/regulation of electricity and voltage:**

The College office, Physics and MCA Departments have generator facility to use during power cut. UPS facility is available in department of Computer science for uninterrupted power supply for the students' laboratory practical.

➤ **Solid waste management facility:**

Nil

➤ **Waste water management:**

Waste water generation is very low due to strict adherence in its maintenance and if present it is used in the Garden.

➤ **Water harvesting:**

Provisions are made for Rain Water Harvesting in all the college buildings. A portion of the collected rain water is used by the Chemistry and Botany students for their practicals instead of distilled water. A Green House Spray unit is functioning in our College campus with rain water harvest system. A large underground tank is also constructed in the Botanical Garden which is used for rain water harvesting.

12. Details of programmes offered by the College for 2014-2015:

S. No.	Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of Instruction	Sanctioned Student Strength	Number of students admitted
Aided Courses							
i)	Under-graduate	B.A. Economics	3	+2	Tamil	40	40
		B.A. History	3	+2	English	50	44
		B. Com	3	+2	English	60+4	64
		B.Sc. Mathematics	3	+2	English	40	40
		B. Sc Physics	3	+2	English	32	32
		B. Sc Chemistry	3	+2	English	40	40
		B.Sc. Zoology	3	+2	English	32	32
		B.Sc. Botany	3	+2	English	32	32
		B. Sc. Computer Science	3	+2	English	24	24
ii)	Post-graduate	M.A. Economics	2	B.A. Economics	English	20	14
		M.Sc. Mathematics	2	B. Sc. Mathematics	English	20	20
		M.Com.,	2	B.Com	English	25+5	30
Unaided Courses							
iii)	Under-graduate	B.A. English	3	+2	English	60	56
		B.Sc. Physics	3	+2	English	32	31
		B.Sc. Chemistry	3	+2	English	24	24
		B.Sc. Computer Science	3	+2	English	24	24
		B. Sc. Microbiology	3	+2	English	24+8	31
		B.C.A.	3	+2	English	24	24

		B.Com.	3	+2	English	40+10	49
		B.Com (Corporate Secretaryship)	3	+2	English	40+10	50
		B.Com (Computer Applications)	3	+2	English	40+10	50
iv)	Post-graduate	M.A. History	2	B.A. History	English	30	Nil
		M.A. English	2	B.A. English	English	30	25
		M.Sc., Zoology	2	B.Sc. Zoology	English	16	Nil
		M.Sc. Microbiology	2	B.Sc. Microbiology	English	16	Nil
		M.Sc. Chemistry	2	B.Sc. Chemistry	English	12	7
		M.Com (Computer Applications)	2	B.Com (CA)	English	25	21
		M.C.A (AICTE Approved)	3	B.Sc. Comp. Sci./ B.C.A	English	30	12
		P.G.D.C.A	1	Any Degree	English	24	Nil

13. Does the College offer self-financed programmes?

Yes	✓	No	
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If yes, how many?

17

14. New programmes introduced in the College during the last five years, if any?

Yes	✓	No		Number	6
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B.A. (Eng)
 B.Com. (C.A.)
 M.Com. (C.A.)
 M.Sc., (Chemistry)
 M.A. (History)
 M. A. (English)

15. List the Departments:

Faculty	Departments	UG	PG	Research
Aided Courses				
Science	Mathematics, Physics, Chemistry, Zoology, Botany and Computer Science	6	1	2
Arts	History and Economics	2	1	-
Commerce	Commerce	1	1	-
Any Other		-	-	-
Unaided Courses				
Science	Physics, Chemistry, Zoology, Mathematics, Microbiology, B.C.A. and Computer Science	5	4	-
Arts	English and History	1	2	-
Commerce	Commerce , Corporate secretaryship, Computer Applications	3	1	-
Any Other	P.G.D.C.A		1	

16. Number of Programmes offered under:

- a. Annual system
- b. Semester system
- c. Trimester system

29

17. Number of Programmes with:

a. Choice Based Credit System	29
b. Inter/Multidisciplinary Approach	-
c. Any other	-

18. Does the College offer UG and/or PG programmes in Teacher Education?

Yes		No	✓
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19. Does the College offer UG or PG Programmes in Physical Education?

Yes		No	✓
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20. Number of teaching and non-teaching position in the Institution:

Positions	Teaching Faculty						Non-teaching Staff		Technical Staff	
	Professor		Associate Professor		Assistant Professor		Male	Female	Male	Female
	Male	Female	Male	Female	Male	Female				
Sanctioned by the UGC/ University/ State Government Recruited	-	-	26	4	12	18	12	-	9	2
Yet to recruit	-	-	-	-	8	4	-	-	-	-
Sanctioned by the Management / society or other authorized bodies Recruited	-	-	-	-	13	47	14	8	6	2
Yet to recruit	-	-	-	-	-	-	-	-	-	-

21. Qualification of the teaching staff:

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent Teachers							
D.Sc./D.Litt.	-	-	-	-	-	-	-
Ph.D.	-	-	20	2	4	10	36
M.Phil.	-	-	2	2	7	8	19
P.G. / U.G	-	-	4	-	1	-	5
Temporary Teachers							
Ph.D.	2	3	-	-	-	-	5
M.Phil.	6	35	-	-	-	-	41

P.G./U.G.	5	9	-	-	-	-	14
Part-time Teachers							
Ph.D.	-	-	-	-	-	-	-
M.Phil.	-	-	-	-	-	-	-

22. Number of Visiting Faculty/Guest Faculty engaged with the College:

Nil

23. Students admitted to the College during the last four academic years:

Categories	2010-2011		2011-2012		2012-2013		2013-2014	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	41	48	68	65	58	68	49	42
ST	-	-	-	-	-	-	-	-
OBC	292	261	292	293	247	258	284	265
General	3	8	6	4	5	3	6	5
Others	-	-	-	-	-	-	-	-

24. Details on students enrollment in the College during the current academic year:

Type of students	UG	PG	M.Phil.	Ph.D.	Total
Students from the same state where the College is located	1820	221	-	-	2041
Students from other states of India	-	-	-	-	-
NRI Students	-	-	-	-	-
Foreign students	-	-	-	-	-
Total	1820	221	-	-	2041

25. Dropout rate in UG and PG (average of the last two batches):

UG

3.9 %

PG

Nil

26. Unit Cost of Education:

(Unit cost = Total annual recurring expenditure (actual) divided by total number of students enrolled)

1	Including the salary component	Rs 27,165/=
2	Excluding the salary component	Rs 1,268/=

27. Does the College offer any programme/s in distance education mode (DEP)?

Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
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28. Provide Teacher – student ratio for each of the programme / course offered:

S. No	Courses	Ratio
1	B.A. Economics	1:17.5
2	B.A. History	1:18.8
3	B.Com.	1:34
4	B.Sc. Mathematics	1:17.4
5	B.Sc. Physics	1:13.8
6	B.Sc. Chemistry	1:17.8
7	B.Sc. Botany	1:12.9
8	B.Sc. Zoology	1:13.2
9	B.Sc. Computer Science	1:12.7
10	B.Sc. Microbiology	1:12
11	BCA	1:4.3
12	B.Com	1:22
13	B.Com.(Corporate Secretaryship)	1:21
14	B.Com.(Computer Application)	1:23
15	M.A. Economics	1:4.3
16	M.A. English	1:7.6
17	M.Com	1:9.2
18	M.Com(Computer Application)	1:4.1
19	M.Sc. Mathematics	1:6.2
20	M.Sc. Chemistry	1:1
21	M.Sc. Zoology	-
22	M.Sc. Microbiology	1:1
23	M.A. History	-
24	P.G.D.C.A	-

29. Is the College applying for:

Accreditation: Cycle 1 Cycle 2 Cycle 3 Cycle 4

Re-Assessment

30. Date of accreditation:

Cycle 1: 12-11-2004 Accreditation Outcome / Result: “B+” Grade

31. Number of working days during the last academic year:

180 days

32. Number of teaching days during the last academic year:

180 days

33. Date of establishment of Internal Quality Assurance Cell (IQAC):

Date	Month	Year
26	06	2005

34. Details regarding submission of Annual Quality Assessment Reports (AQAR) to NAAC:

- i. AQAR 2006-2007 Submitted on 03/05/2010
- ii. AQAR 2007-2008 Submitted on 03/05/2010
- iii. AQAR 2008-2009 Submitted on 03/05/2010
- iv. AQAR 2009-2010 Submitted on 29/07/2012
- v. AQAR 2010-2011 Submitted on 29/07/2012
- vi. AQAR 2011-2012 Submitted on 13/06/2015
- vii. AQAR 2012-2013 Submitted on 13/06/2015
- viii. AQAR 2013-2014 Submitted on 22/06/2015
- ix. AQAR 2014-2015 Submitted on 12/08/2015

35. Any other relevant data (not covered above) the College would like to include (Do not include explanatory / descriptive information).

- One Major and two Minor Research Projects funded by UGC and DST are in progress.
- Forty one teachers are Ph.D. holders and fourteen Ph.D. holders are research guides.
- Totally 35 scholars, mostly part-time, are doing Ph.D. under the supervision of our research guides.

2. CRITERIA–WISE INPUTS

CRITERION I: CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

1.1.1 **The vision, mission and objectives of the institution – the way in which these are communicated to the students, staff members (teaching and non – teaching) and other stakeholders.**

Vision

Established with a view to spread the significance of higher education, our institution works hard for academic excellence, ensuring, strong morality and a gentle vision as the foundation of culture aimed at emerging as a leading institution offering need-based and livelihood oriented Education.

Mission

The College, which is a non-communal, non-sectarian, has its principal object to train the students to be high-quality citizens and to give higher educational facilities to the downtrodden students of southern districts of Tamilnadu. Our College motivates the students to develop their self confidence and shape their own future according to their ambitions. Our institution provides value-based education and quality-centered research programmes at affordable cost.

Objective

The objective of the college is to convey knowledge, skill and values to the rural youth.

- i) On the very first working day, the class advisors explain the vision and the mission of the college to the first year students, and the Principal also speaks to the parents and the students underlining the vision and the mission of the college in addition to the rules and regulations of the college.
- ii) The vision and mission of the college are also given in the college website.
- iii) The objective of our college is incorporated in the college emblem itself.

1.1.2 Action plans developed and deployed for effective implementation of the curriculum. - Details of the process.

The Principal conducts the meeting of HOD's at the beginning of every semester and whenever it is necessary the action plans are discussed for the effective implementation of the curriculum of the concerned semester. The Department-wise meetings are also conducted by the Principal to frame the plan of action for the semester. Optional papers, Non-Major Elective papers for the semester will be finalized. Subject allotment for the teachers will be finalized. Teachers will chart out their own plans in such a way that the syllabus is covered in three phases. At the end of each phase an internal assessment test will be conducted and assignments are also given to assess the in-depth knowledge of the students. In case of PG classes, the students are encouraged to take seminar in their classes on a particular topic, which develops the self confidence of the students.

At the beginning of every year, the officers in-charge of NCC, NSS and Sports visit each and every first year UG class and explain the merits of the related programmes and stimulate the students to join any one of the above programmes. The students are given freedom to select the programme on their own accord without any compulsion.

Some of our teachers are members of the Board of Studies of our University. The faculties are attending meetings conducted by the university regarding the changes in the curriculum.

1.1.3 Type of support (procedural and practical) the teachers receive (from the University and/or institution) for effectively translating the curriculum and improving teaching practices.

The management feels that no class should suffer for want of teachers, so apart from the permanent Staff members they appoint teachers temporarily in the place of retired teachers to handle these classes. In addition to this, the management provides funds for the purchase of new books and equipments,

and to conduct seminars / workshops. Our management also provides funds for purchasing three interactive boards which is very helpful to improve the quality of teaching, at the same time minimize the work of the teacher. It also enhances the understanding capacity of the students.

1.1.4 Initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency.

The management encourages the faculty to attend seminars and conferences to enrich their knowledge in their respective field. The management provides sufficient infrastructural facility and funds for the effective delivery of curriculum. The college faculties are given training to use the computers, internet, LCD projectors, interactive boards etc. in order to supplement their class room lectures. In addition to the regular subject classes, the Departments organize special lectures by inviting experts from various fields to share their knowledge with the students. The College also organizes special Personality Development Programmes for the students. The students are also taken out for educational tours and industrial visits to gain experience on their related subjects. For the effective delivery of curriculum the following measures are taken by the faculties:

- Time table is prepared by the Heads of the departments in consultation with other members well in advance and the same is informed to the students. A copy of the departmental time table and individual time tables are submitted to the office of the Principal.
- Department meetings are conducted to know the status of the completion of the syllabus.
- Three internal tests are conducted by the departments for each semester.
- Feed back is obtained from the students about the attitude of teachers in completion of the syllabus and in maintaining a cordial relationship with the students.

- Students are encouraged to use the photo copying facilities available in the Library and the Book depot by paying a minimum charge.
- MOUs are signed with the respective industries by the college for student training.

1.1.5 Institution network interaction with beneficiaries such as industry, research bodies and the university in effective operationalisation of the curriculum.

Senior faculties of our College are serving as the members of the Board of Studies of M.S.University. Through the Board of studies, our college teachers interact with the University regarding the curriculum. They also provide valuable inputs to the University through the members of the Curriculum Development Cell. Study tour is a part of the curriculum in some subjects. Through the study tours the students have linkage with the industries by way of field visit. In our college the Department of Tamil, Commerce, Economics, Physics, Chemistry and Computer Science are not Research Centres but many of our faculty of the above departments are guiding research scholars for Ph.D., and thereby developing good relationship with the faculties of other Research centres and Universities.

1.1.6 Contributions of the institution and/or its staff members to the development of the curriculum by the University.

OUR FACULTY AS MEMBERS/CHAIR PERSONS IN BOARD OF STUDIES

Sl.No	Name and Designation	University Position	Year
1	Dr.A.Kanthasamy Asso. Prof of Tamil	Member of the Board of studies of Part-1 Tamil , M.S.University, Tirunelveli	2012-2015
2	Dr.C.Thangaraja, Associate Prof of Economics	Chairman, Board of Studies, U.G. Economics , M.S.Univeristy, Tirunelveli	2011-2015
3	Mr. M. Muniasamy, Associate Prof of Mathematics	Member , Board of Studies, P.G .Mathematics, V.V.V. College for Women (Autonomous), Virudhunagar	2012-2015
4	Mrs. G. Ramalakshmi Associate Prof of	Member of the Board of studies in St.Mary's College (Autonomous), Thoothukudi.	2012-2015

Sl.No	Name and Designation	University Position	Year
	Mathematics		
5	Dr. P. Densingh Associate Prof of Zoology	Member, Board of Studies, Zoology (UG), M.S. University, Tirunelveli Member, Board of Studies, Zoology (M.Phil), M.S. University, Tirunelveli	2012-2015
6	Dr.V. Josephraj, Associate Prof of Computer Science	Member, Board of Studies, Computer Science (UG), M.S. University, Tirunelveli Chairman, Board of Practical Examinations in Computer Science, M.S. University Convener, Doctoral committee, Sathyabama University, Chennai Member of M.S. University Standing Committee for Academic Affairs (SCAA), Advisory Body for Academic Affairs of the University Dec. Member, Adhoc Board of Studies in B.A. and M.A. Tamil with Computer Applications, M.S. University Member, Adhoc Board of Studies in B.A. and M.A. English with Computer Applications, M.S. University Member, Adhoc Board of Studies in B.A. History with Computer Applications, M.S. University Member, Adhoc Board of Studies in M.Sc. Mathematics with Computer Applications, M.S. University Member, Board of Studies in Post Graduate Computer Science, M.S. University Member, Board of Studies in in M.Sc IT and Networking, Subbalakshmi Lakshmipathy College of Science, Madurai Kamaraj University	2012-2015 Dec. 2001 – Present Jan 2006 – Present 2001 – Dec. 2004 & Dec. 2012 – Dec 2015 June 2012 June 2012 June 2012 June 2012 May 2012 – May 2015 April 2014 – April 2019
7	Dr. S. Kannan Associate Prof and Head, Dept of Commerce	Member, Board of Studies, Commerce (PG), M.S. University, Tirunelveli.	2012-2015
8	Dr R.Sornaraj Head and Associate Prof of Zoology	District Coordinator, National Children Science congress, Thoothukudi District Since 2010 Chairman of UG Board of studies, Chairman of question setting board for BSc Zoology, MS University, Tirunelveli from the academic year 2013 Question papers setter, Scott Christian	2010-2015 2013-2015 2010-2013

Sl.No	Name and Designation	University Position	Year
		College (Autonomous), Nagercoil 2010-2013	
		Annamalai University Question papers setter for PG Zoology and UG Question papers setting Board Chairman from 2010.	2010-2014
		Chairman, UG Board of examinations, Manonmaniam Sundaranar University, Tirunelveli from 2013 onwards	2013-2015

Dr V. Arinathan, Associate Professor and Head of the Department of Botany has been serving as the Senate member of Manonmaniam Sundaranar University, Tirunelveli from the year 2013-14 onwards. He has served as an expert committee member for major Forestry Project in Kalakadu: Mundanthurai Tiger Reserve Forest (KMTRF).

Feedback

The feedback regarding the curriculum is collected from the students as well as the teachers. Suggestions based on the feedback regarding the curriculum, are conveyed to the University through the members of the Board of studies, Senate members and our Syndicate member of the University. If need be, direct formal representation is made to the university through the Principal.

1.1.7 Development of curriculum by the institution for any of the courses offered (other than those under the purview of the affiliating university) by it.

Since our college has no autonomy, there is no necessity for developing a curriculum.

1.1.8 Ensuring that the stated objectives of curriculum are achieved by the institution in the course of implementation.

1. Three internal assessment tests are conducted to know the understanding level of the students about the subjects taught by the teachers.

2. Assignments are given to the students on the particular topic for the purpose of testing the involvement of the students in the relevant topic.
3. Group projects are given to the students to develop the attitude of research. Each group consists of five students.
4. In PG classes, students are encouraged to take seminar on a topic selected by them.
5. The active participation of the students in various cultural competitions, quiz programmes is ensured besides getting students feedback.

1.2 Academic Flexibility

1.2.1 Goals and objectives of the certificate/diploma/ skill development courses etc., offered by the institution.

- To impart quality higher education to the students, the institution offers the following certificate/diploma courses:
- Certificate and diploma course in “Gandhian Thought” to inculcate Gandhian values.

1.2.2 Programmes offered by the Institution that facilitate twinning /dual degree.

Nil

1.2.3 Details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability.

Range of Core / Elective options offered by the University and those opted by the college. The details of elective options offered by the university and opted by the college for the year 2014 – 2015 are given below:

Programme	Optional	Elective offered by the University	Elective opted by our College
B.A. Eng (III Year)	Optional 1	One act Plays & Short Stories, Comparative literature, Journalism	One Act plays & Short Stories
	Optional 2	History of English language Mass communication Commonwealth Literature	Commonwealth Literature
	Optional 3	Theories of Translation, Indian Writing in English, Canadian Literature	Indian Writing in English
	Optional 4	African Literature, Indian Classics in English Translation, Texts and their Words I	Texts and their Words I
B.A Eco (III Year)	Optional 1	Public Finance, Research Methodology, History of Economic Thought	Research Methodology
	Optional 2	Entrepreneurial Development, Computer Fundamentals, Demographic studies in India	Demographic studies in India
	Optional 3	Labour Economics, Development Economics, Tamilnadu Economy	Labour Economics
B.Sc Maths (III Year)	Optional 1	Astronomy I, Combinatorial Mathematics, Fuzzy Algebra	Combinatorial Mathematics
	Optional 2	Number Theory, Coding Theory, Programming in C	Number Theory
	Optional 3	Project, Optional Research, Astronomy II, Mathematical Programming using JAVA	Project
B.Sc Phy (III Year)	Optional 1	Opto electronics, Mathematical Physics, Bio Physics	Opto electronics
	Optional 2	Classical mechanics, Communication Electronics, Spectroscopy	Spectroscopy
B.Sc Chem (III Year)	optional 1	Polymer Chemistry, Dairy Chemistry, Medicinal Chemistry	Polymer Chemistry, Dairy Chemistry
	Optional 2	Project, Industrial Chemistry, Analytical Chemistry	Project
B.Sc Zoo (III Year)	Optional 1	Sericulture, Economic Entomology, Dairy farming	Sericulture
	Optional 2	Apiculture, Food and Food Processing Technology, Poultry Science	Apiculture
B.Sc Comp Sci (III year)	Optional 1	Micro Processor, System Programming, Embedded system	System programming
	Optional 2	Artificial Intelligence, Mobile Communication, Data Mining	Artificial Intelligence
B.Com (III Year)	Optional 1	Income Tax II, Introduction to Internet and HTML, Entrepreneurship Development, Services Marketing Insurance and Risk Management	Income Tax II
	Optional 2	Project, Industrial Marketing, Introduction to RDBMS, Retail Management	Project
B.Com (C.A)	Optional 1	Operating system, Principles of E-commerce, Software Engineering Concept	Principles of E-Commerce
	Optional 2	Project, Creativity, Innovation and Product Development, JAVA, Retail Management	Project
M.Sc Maths (I year)	Elective 1	Programming with C++	Programming with C++

	Elective 2	Programming with C++ and MS Office - Practical, Combinatorial Mathematics	Programming with C++ and MS Office – Practical
M.Sc Maths (II year)	Elective 1	Graph Theory, Partial differential equations, Advanced Topology	Graph Theory
M.Sc Zoo (I Year)	Elective 1	Biosystematics and Biodiversity, Nanoscience and Technology	Nanoscience and Technology
	Elective 2	Population Ecology and Animal Behaviour, Entomology	Entomology
	Elective 3	Research Methodology, Bioinformatics	Research Methodology

Choice Based Credit System and range of subject options

The Choice Based Credit System was introduced by M.S.University, Tirunelveli in the year 2008 – 2009 which includes optional, non major elective and skill based papers. The departments have the freedom to choose one optional paper out of three optional papers offered by the University. The option is given to all the U.G. students of all the departments to choose the non-major elective subjects offered by the other departments.

Credit transfer and accumulation facility

- Credit transfer is possible when moving from one institution to the other if it is within University
- All UG and PG students can study certificate /diploma course in Gandhian Thought.

1.2.4 Offering self financed programmes by the Institution- The way in which they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.

The institution offers the following self financed programmes.

B.A. English,
 B.Sc. Physics,
 B.Sc. Chemistry,
 B.Sc. Microbiology,
 B.Sc. Computer Science,
 B.C.A.,
 B.Com,
 B.Com Corporate Secretaryship,

B. Com with Computer Application,
M. Sc Chemistry,
M. Sc Zoology,
M.Sc. Microbiology,
M.Com with Computer Application,
M.A. English,
M.A. History,
M. Phil. Commerce,
M. Phil. Zoology,
M. Phil Mathematics and
P.G.D.C.A

Admission

The students are admitted as per the Government norms (90% merit and 10% management quota) for the aided programmes. For self- financed courses 50% of the seats are filled by the norms fixed by the Government and the remaining 50% of the seats are filled by the management as per the reservation policy of the Tamil Nadu Government.

The curriculum for both the streams is prescribed by the Manonmaniam Sundaranar University. Qualification, salary and Fee structure for the Aided stream is as per the norms fixed by the UGC. For the self-financing stream the norms are fixed by the Management.

1.2.5 Additional skill oriented programmes relevant to regional and global employment markets. – List of programmes and the beneficiaries.

Our institution provides the following additional skill oriented programmes to upgrade the students' knowledge to the regional employment market.

- Our college has conducted various coaching programmes during the last five years to all the UG and PG students for competitive examinations with the help of the funds provided by UGC under Merged Scheme.
- Our college conducted coaching classes for NET and SET examinations with the help of the funds provided by UGC under the merged scheme to all the PG students.

1.2.6 The flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice.

Nil.

1.3 Curriculum Enrichment

1.3.1 Efforts made by the institution to supplement the University's Curriculum to ensure that the academic programmes and Institution's goals and objectives are integrated.

For the purpose of creating social awareness, extension activities are conducted by NSS, NCC and RRC. Celebration of 'THAI PONGAL' develops the feeling of oneness among the students. In order to achieve the objective of the Institution several clubs are organized like Yoga Club, Humor club, Blood Donation club and the like.

1.3.2 Efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market.

Nil

1.3.3 Efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum.

Gender

In our College there is a Women Welfare Committee headed by Prof M.Rajeswari, Head, Department of History, assisted by Dr P.Sivakami, Asso. Prof. of Maths, Dr K.Bhanumathi Asst. Prof of Zoology and Dr J.Poongodi Asso. Prof of Physics, which looks into the problems faced by the girl students and take necessary steps to solve those problems. Tmt. Rajam Devadass, a lawyer from outside is playing a vital role in giving necessary advice to this Women Welfare Committee.

Climate Change

The Department of Physics conducted a two day National Seminar on “Climate Change Impacts on Environment” on 4th & 5th April, 2013.

Environmental Education

In our college we have Environmental Studies as one of the compulsory subjects to all UG classes. This enables the students to know more about the environmental issues.

ICT

In our college we have a language laboratory with all the facilities to enable the students to develop their communication skills. Internet facilities are available in all the departments and in General library for the students and the faculty. IT related subjects are incorporated in M. Sc Mathematics. Smart class room is available in our college in which all the technologies are used by the faculty for effective teaching. We have more than 100 computers, 20 printers, and 5 LCD projectors. The members of the staff can access the e-Journals from UGC N-List programme and use the Internet facility in the library during the working hours on all the working days.

1.3.4 The various value-added courses/enrichment programmes offered to ensure holistic development of students.

Moral and ethical values

Social Value Education is taught to all the under graduate students in order to create social awareness. Instead of value based education, the subject “MANAVALAKKALAI YOGA” is taught to the first year students of B.Com., B.Sc Physics, Maths and Botany. Meditation classes are also handled for these students. Simplified Kundalini Yoga is also practiced by the students, which promotes the moral and ethical values in them.

Employable and life skills

Coaching classes for competitive examinations are conducted for the final UG and PG students by Dr P.Densingh, the then Head of the department of Zoology for imparting knowledge on test of reasoning and other skills.

Better career options

The Career Guidance and Placement Cell of our college help the students to identify career options. Further advertisements regarding job opportunities are displayed in the library notice board.

Community orientation

NCC, NSS, and RRC help the students to have close contact with the society and render service to them. The blood donation is carried out by the Blood Donors club. Each and every year the number of Blood donors is considerably increasing. Whenever the NSS special camps are conducted in the nearby villages a blood donation camp will also be organized.

The Red Ribbon club renders life saving services to the people of the surrounding area by conducting AIDS awareness programmes. The Road Safety Patrol helps the people by regulating and managing the crowd during the local festivals and other occasions.

These programmes create social awareness, leadership quality, social responsibility and understanding among the students. Increased healthy bondage between the students and the society enhance the overall personality of the students.

Personality Development

In the curriculum itself “Personality Development” as a subject is included. Guest lectures are arranged on personality development.

1.3.5 The extent of use of the feedback from stakeholders in enriching the curriculum.

Whenever a change in the syllabus is made by the M.S.University, the senior faculties of our College who are the members of Board of studies of the University give suitable suggestions for enhancing the quality of the syllabus. Our college has six faculties who are the members in various Boards of studies and one senate member. Students are the best judges for evaluating the teachers.

For the purpose of improving and developing the quality of teaching, a feedback is received from the III year UG and II year PG students through a printed questionnaire. Suitable analysis is made on the feedback given by the students and necessary developments are made in the teaching methods during the following semester. (Enclosed in Annexure – III)

1.3.6 Monitoring and evaluating the quality of enrichment programmes by the Institution.

Our college has a Convener for each and every committee with three other members. This committee meets at regular intervals and makes necessary arrangements for guest lectures in the related field. After the completion of the guest lectures, a feedback is collected from the student participants. Based upon the feedback given by the students necessary efforts will be taken for changing the resource person or for changing the theme of the guest lectures.

1.4 Feedback System

1.4.1 The contributions of the institution in the design and development of the curriculum prepared by the University.

Whenever a change in the syllabus is made by the M.S.University, the senior faculties of our College who are the members of Board of studies of the University give suitable suggestions for enhancing the quality of the syllabus. Our college has six faculty members in various Boards of studies of M.S.University, Tirunelveli and one Senate member.

1.4.2 Formal mechanism to obtain feedback from students and stakeholders on Curriculum. The way in which it is communicated to the University and made use internally for the curriculum enrichment by introducing changes / new programmes.

It is our usual procedure to receive the feedback of the students while they are receiving their transfer certificates after completing their third year UG and second year PG classes. Suggestions received from the students are discussed in the respective department meetings and they are communicated to the university, if necessary, through the members of the Board of Studies.

1.4.3 New programmes / courses were introduced by the institution during the last four years. - The rationale for introducing new courses / programmes.

B.A. (Eng) – For the purpose of developing the knowledge of English Literature among the students.

B.Com. (C.A.) – For the purpose of developing the knowledge of Information Technology among the students.

M.Com. (C.A.) - For the purpose of developing the knowledge of Information Technology among the students

M.Sc.,(Chemistry)- For the purpose of developing the research attitude of Chemistry students.

M.A. (History) – For enabling the students to have an in-depth study of historical events of India and other countries.

1.4.4 Any other relevant information regarding curricular aspects which the college would like to include.

➤ **Three INSPIRE Science Camps- 2012, 2013, 2014**

➤ Department Of Science & Technology, New Delhi has sanctioned Rs 9,75,000 to organize **INSPIRE – Science Camp** held during Nov – 2012, 2013 and 2014 at Kamaraj College, Thoothukudi. Nearly 190 Higher secondary students with high score (> 95%) in 10th standard participated in each camp.

CRITERION II: TEACHING - LEARNING AND EVALUATION

2.1 Student Enrollment and Profile

2.1.1 Ensuring publicity and transparency in the admission process by the college.

The students are admitted in UG and PG as per the Tamilanadu Government norms (90% merit and 10% management quota) for the aided programmes. For self- financed courses 50% of the seats are filled by the norms fixed by the Government and the remaining 50% of the seats are filled by the management as per the reservation policy of the Tamil Nadu Government.

2.1.2 The criteria adopted and process of admission.

- Admissions are made as per the guidelines of the Government of Tamil Nadu as stated below:
- 10% of the seats are reserved as management quota.
- The remaining 90% of the seats are filled on the basis of merit and the communal reservation policy as prescribed below
- Open Competition (OC) - 31%
- Backward Class (BC) - 30%(3.5%for Muslims)
- Most Backward Class (MBC) - 20%
- Scheduled Caste (SC) - 18%
- Scheduled Tribe (ST) - 1%

Certain seats are reserved for special categories as detailed below:

- ✓ Sports Quota U.G. - 3% of the total seats.
- ✓ P.G. - 2% of the total seats.
- ✓ Physically Handicapped UG - 3% of the total seats.
- ✓ Ex-servicemen quota UG - 6 seats.
- ✓ For candidates of the Union Territories of Andaman and Nicobar: U.G. - 2 seats.

Our college adopts open counselling system for admitting new entrants. After receiving the filled in application forms for all courses, a rank

list for each course is prepared after scrutiny. While receiving the application forms, candidates are provided with written information about the date and time of counselling for admission. Those candidates who have sent their applications by post are informed of the counselling details by post. Counselling is conducted for two days viz., the first day for the Commerce, Maths and History discipline and the second day for the other Arts and Science disciplines.

The Committee headed by the Principal, concerned Department Head, and other staff members will invite the candidates as per their rank and government reservation policy. Candidates, if selected for more than one courses, can opt for the course of their preference. The selected students will be issued admission card on the spot by the Principal.

2.1.3 The minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.

No.	Programme	Year	Aided	
			Minimum	Maximum
1.	B. A. History	2011 – 2012	41.75	85.92
		2012 – 2013	42.75	89.58
		2013 – 2014	39.5	89.75
		2014 - 2015	41.67	87.25
2.	B. A. Economics	2011 – 2012	40	85
		2012 – 2013	45.42	82.25
		2013 – 2014	41.58	89.08
		2014 - 2015	44.25	86.58
3.	B. Sc	2011 – 2012		
	Mathematics	2012 – 2013	50.75	91.75
		2013 – 2014	60.25	90.83
		2014 - 2015	61.75	95.33

4.	B. Sc	2011 – 2012	52.67	73.58
	Physics	2012 – 2013	48.67	82.42
		2013 – 2014	53.25	86.67
		2014 - 2015	44	82.17
5.	B. Sc	2011 – 2012	57	79.6
	Chemistry	2012 – 2013		
		2013 – 2014	57	93.25
		2014 - 2015	58.75	88.2
6.	B.Sc	2011 – 2012	45	75.6
	Botany	2012 – 2013	46.3	72.7
		2013 – 2014	44	92
		2014 - 2015	45.7	77.5
7.	B. Sc	2011 – 2012	43	74.4
	Zoology	2012 – 2013	50	78
		2013 – 2014	40.8	77
		2014 - 2015	43.5	80.3
8.	B. Sc	2011 – 2012	56.7	88.2
	Computer Science	2012 – 2013	60.9	91.8
		2013 – 2014	55.3	83
		2014 - 2015	44.8	90.8
9.	B. Com	2011 – 2012	56.5	92.7
		2012 – 2013	58.8	94.3
		2013 – 2014	47.9	91
		2014 - 2015	49.8	92.8
10.	M. A. Economics	2011 – 2012	1140	1583
		2012 – 2013	1199	1600
		2013 – 2014	1153	1446
		2014 - 2015	1326	1646
11.	M. Sc Maths	2011 – 2012	1045	2069

		2012 – 2013	1220	2025
		2013 – 2014	1351	2011
		2014 - 2015	1354	1793
12.	M.Com	2011 – 2012	1099	1976
		2012 – 2013	1474	2162
		2013 – 2014	1444	2040
		2014 - 2015	1211	2481

2.1.4 Mechanism in the institution to review the admission process and students profiles annually. - Outcome of such an effort and contribution to the improvement of the process.

Our college admission committee reviews the admission process after the admission is over. In addition to that, Joint Directorate of Collegiate Education verifies the admission process of our college.

2.1.5 Strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion

a) SC / ST

Free application is issued to the students belonging to SC/ST category.

Government norms on reservation policies are strictly followed. (18% for SC and 1% for ST) One senior member from the SC/ST community is included in the admission committee to ensure that no students are deprived of their privileges.

b) BC / MBC

Government policy is strictly followed

c) Women

Boys and Girls are admitted in UG and PG courses. There is no separate reservation for girl students. The details are given below:

Year	Men	Women
2010 – 2011	866	762
2011 – 2012	948	851
2012 – 2013	1033	877
2013 - 2014	991	951
2014 – 2015	1048	997

d) Differently – abled

As per the reservation policy of the Government, eligible differently-abled candidates are admitted. Reservation quota is followed during counselling itself.

e) Economically weaker section

There are no criteria for admitting economically weaker students. Since the college is located in a rural area, most of the students are from economically weaker sections.

f) Minority community

As per the Government norms, 3.5% of the seats are allotted to minority community (Muslims) within the quota reserved for BC.

g) Sports Personnel

As per the reservation policy of the Government, students with meritorious sports background are given admission under sports quota. (3% for UG and 2% for PG). Our Management provides funds to the sportsmen to pursue their studies.

2.1.6 Various programmes offered by the institution during the last four years – trends - Reasons for increase / decrease and actions initiated for improvement.

Programmes	Academic year	No.of Applications Received	No. of Students Admitted	Demand Ratio
B.A Economics	2011-12	90	40	1:2.3

	2012-13	111	38	1:2.9
	2013-14	124	40	1:3.1
	2014-15	191	40	1:4.9
B.A History	2011-12	82	44	1:1.9
	2012-13	111	42	1:1.6
	2013-14	144	45	1:3.2
	2014-15	176	44	1:4
B.Com	2011-12	388	64	1:6
	2012-13	497	62	1:8
	2013-14	478	64	1:7.5
	2014-15	543	64	1:8.5
B.Sc Maths	2011-12	137	39	1:3.5
	2012-13	139	38	1:3.7
	2013-14	155	40	1:3.9
	2014-15	201	40	1:5
B.Sc Physics	2011-12	90	30	1:3
	2012-13	93	31	1:3
	2013-14	155	32	1:4.8
	2014-15	143	32	1:4.4
B.Sc Chemistry	2011-12	148	44	1:3.4
	2012-13	192	36	1:5.3
	2013-14	189	38	1:5
	2014-15	333	40	1:8.3
B.Sc Advanced Zoology & Biotechnonology	2011-12	59	32	1:1.8
	2012-13	89	31	1:2.9
	2013-14	116	32	1:3.6
	2014-15	141	32	1:4.4
B.Sc Plant Biology & Bio Techonology	2011-12	59	32	1:1.8
	2012-13	53	29	1:1.8
	2013-14	79	32	1:2.5
	2014-15	114	32	1:3.6
B.Sc Comp. Sci	2011-12	151	24	1:6.3
	2012-13	187	24	1:7.8
	2013-14	163	24	1:6.8
	2014-15	181	24	1:7.5
M.A Economics	2011-12	31	15	1:2
	2012-13	26	15	1:1.7
	2013-14	22	14	1:1.6
	2014-15	14	14	1:1

M.Sc Maths	2011-12	35	20	1:1.8
	2012-13	51	20	1:2.6
	2013-14	43	19	1:2.3
	2014-15	50	20	1:2.5
M.Com	2011-12	108	30	1:3.6
	2012-13	99	30	1:3.3
	2013-14	101	30	1:3.4
	2014-15	81	30	1:2.7
Unaided Courses				
B.A English	2011-12	100	64	1:1.6
	2012-13	80	64	1:1.25
	2013-14	52	43	1:1.2
	2014-15	75	56	1:1.3
B.Sc Physics	2014-15	40	32	1:1.3
B.Sc Chemistry	2011-12	32	24	1:1.3
	2012-13	35	24	1:1.5
	2013-14	25	22	1:1.13
	2014-15	40	24	1:1.7
B.Sc Microbiology	2011-12	-		
	2012-13	10	8	1:1.25
	2013-14	30	27	1:1.1
	2014-15	45	31	1:1.5
B.Sc Comp. Sci	2011-12	32	24	1:1.3
	2012-13	42	24	1:1.75
	2013-14	27	22	1:1.22
	2014-15	40	24	1:1.7
B.Com	2011-12	92	49	1:1.9
	2012-13	84	50	1:1.7
	2013-14	98	45	1:2.2
	2014-15	86	50	1:1.7
B.Com (Corporate)	2011-12	45	31	1:1.5
	2012-13	63	50	1:1.6
	2013-14	55	44	1:1.25
	2014-15	61	50	1:1.2
B.C.A	2014-15	34	24	1:1.4
B.Com (CA)	2011-12	98	64	1:1.5
	2012-13	57	48	1:1.9
	2013-14	54	43	1:1.3
	2014-15	69	50	1:1.4
M.Sc Zoology	2011-12	13	13	1:1
	2012-13	12	12	1:1

M.Sc Microbiology	2010-11	6	6	1:1
M.C.A	2011-12	17	17	1:1
	2012-13	10	10	1:1
	2013-14	7	7	1:1
	2014-15	12	12	1:1
M.Com (CA)	2011-12	30	30	1:1
	2012-13	9	9	1:1
M.Phil Commerce	2012-13	12	11	1:1
M.Phil Maths	2012-13	13	13	1:1

Overall, there is no significant change in the demand ratio. The ratio in some of the courses is less than one, since the Government of Tamil Nadu Admission Policy for admission is followed. As per the policy of the Government of Tamil Nadu applicants have to submit only one application stating the preference of the course. Hence, the applications for Economics are less than the selected candidates. The applicants who applied for B.Com/B.B.A courses join B.A Economics course since they didn't get seats in B.Com/B.B.A courses.

2.2 Catering to Student Diversity

2.2.1 The way in which the institution caters to the needs of differently-abled students and ensure adherence to Government policies in this regard.

The class room in the first floor will be shifted to the ground floor to facilitate differently-abled students, even if there is only one such student. Other students are asked to help the differently-abled students inside the class room, college and in the hostel. The institution ensures the adherence to Government policies with regard to differently-abled students by assisting them to get Government scholarships.

2.2.2 Assessing the students' needs in terms of knowledge and skills before the commencement of the programme.

Admission of students for UG classes is made on the basis of marks secured in the Higher Secondary class. If the department feels that the students are very poor in the grasping power the faculties will come to the level of the students and explain the subjects in a very simple manner.

2.2.3 Strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/ Add-on/Enrichment Courses, etc.) to enable them to cope with the programme of their choice.

Bridge course

Kamaraj College is situated in the most backward area of the Southern districts of Tami Nadu. To cater to the needs of the education backward students from the schools, the Dept. of English has ventured into commencing the English course by offering a Bridge course in the 1st week of the academic year. This course is common to all the 1st year students of Kamaraj College.

Aims and objectives:

- The bridge course concentrates to make the students strong in reading and understanding listening and understanding English.
- It helps the students to express their ideas in English language meaningfully in a practical manner.
- It helps them achieve competence in the basic four skills-listening, reading, speaking and writing.

Every day the students are to attend 3 Hrs of English language classes. During this week only the English teachers from the Department of English handle the classes exclusively. The whole course consists of 15 units. (3 units per day for 5 days). During the course the students are given special training in the area of conversational practice intonation practice, stress in English language, comprehending a passage and bits of basic Grammar.

The bridge course facilitates an enjoyable language learning experience to students without the pressure of the examinations. It is an ice-breaking ceremony for both the students and teachers to work for 2 yrs with every batch in a cordial way.

A second Orientation programme focusing on the use of Library, sports facilities, NCC, NSS, is conducted within ten days of their

joining the college.

Remedial courses

Remedial classes are conducted for the slow learners and under achievers in all the departments with the help of the UGC fund under Merged Scheme.

2.2.4 Sensitizing the staff and students by the Institution on issues such as gender, inclusion, environment etc.

Gender

In our College there is a Women welfare committee headed by Prof M.Rajeswari, Head, Department of History, assisted by Dr P.Sivagami, Asso. Prof of Maths, Dr K.Bhanumathi Asst. Prof of Zoology and Dr J.Poongodi, Asso. Prof of Physics, which look into the problems faced by the girl students and take necessary steps to solve those problems. Tmt Rajam Devadass, a lawyer from outside is playing a vital role in giving necessary advice to this women welfare committee.

Environment

In our college, we have environmental studies as a subject to teach the students about environmental issues.

2.2.5 Identifying and responding to special educational/learning needs of advanced learners by the Institution.

Advanced learners are identified by the teacher in-charge of the various classes and they are advised and encouraged to score high marks in the university examinations for getting university ranks. The advanced learners in PG classes are encouraged to appear for NET/SLET and CSIR examinations.

2.2.6 The method in which the institute collects, analyzes and uses the data and information on the performance (through the programme

duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided).

For each U.G. class, a teacher in-charge is nominated by the department Heads. The teacher in-charge is responsible for the development of the students in that class. Usually a bio-data form is supplied to all the first year students and the filled bio-data form is collected back and filed properly by the teacher in-charge. The advisor plays the role of a parent, teacher and counsellor. He has personal and constant touch with the students and offers guidance and counselling to them, both in their academic and personal matters.

2.3. Teaching-Learning Process

2.3.1 Planning and organizing the teaching, learning and evaluation schedules. (Academic calendar, teaching plan, evaluation blue print, etc.)

In our College at the beginning of every year the academic calendar is prepared taking into account the number of working days, holidays, the reopening day and the last working day. The number of working days per semester is ninety days as per the direction of the Government. The general time tables are prepared by the experienced senior most teachers. The specific time tables are prepared by the respective Heads of the department in consultation with other faculty members. Department meetings are conducted at regular intervals and teachers are asked to complete the syllabus in three phases.

2.3.2 Contribution of IQAC to improve the teaching – learning process.

Nil.

2.3.3 Student-centric learning - the support structures and systems available for teachers to develop skills like interactive learning, collaborative

learning and independent learning among the students.

Interactive learning

Interactive learning is effected through Question answer sessions, problem solving. Interaction with senior students is done by getting study materials and clarifying doubts with faculty formally and informally outside the classroom.

Collaborative learning

Collaborative learning is effected through Group discussion, Case study Debate, Association activities in all the departments, group project in the final semester for all the UG courses, field and industrial visit by NSS units, by NCC Army and Navy, Youth Red Cross, Yoga Club, Blood donation club, Humour club and Creative writing and Elocution Club.

Independent learning

Independent learning is effected through Assignments, seminars in every subject for all PG courses, individual projects for all the PG courses and by the practical work done in the laboratories for all science subjects and Mathematics and acquisition of language skills in the English Language Lab. Students are encouraged to participate and present papers in conferences and workshops organized by our College and by other institutions. Home exercises are given to the students especially for problem oriented subjects. Students are encouraged to make use of the internet facilities and to learn through open study resources.

2.3.4 Nurturing critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators.

Enthusiastic participation of the students in the college magazines,

campus news, hostel, manuscript, magazines and participation in literary and cultural competitions are encouraged to promote critical, creative and innovative thinking.

2.3.5 The technologies and facilities available and used by the faculty for effective teaching. - Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.

In our college we have a language laboratory with all the facilities which enables the students to develop their communication skills. Internet facilities are available in all the departments and the General library for the students and the faculty. IT related subjects are incorporated in M. Sc Mathematics. Smart class room is available in our college in which all the technologies are used by the faculty for effective teaching. We have more than 178 computers, 12 printers, and 5 LCD projectors. The members of the staff can access the e-Journals from UGC N-List programme and use the Internet facility in the library during the working hours on all the working days.

2.3.6 Exposure of the students and faculty to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.).

All the faculty members are encouraged to participate in seminars, symposia, conferences, Orientation/Refresher courses, organise seminars/workshops and arrange guest lectures in order to cope up with recent developments. In all these seminars, workshops and guest lectures, students participate in large numbers.

The details of the seminars and conferences organized in our college and attended by our college teachers from 2011 to 2015 are given below:

Academic year	Number of seminars /Workshops/Conferences conducted in our College	Number of Seminars/ Workshops/ Conferences attended by Faculty
2011-12	Nil	17
2012-13	Nil	17
2013-14	1	41
2014-15	Nil	18

We have Research departments in Mathematics, Zoology. In all the other UG Departments and Tamil department, part-time research scholars are being guided by our research guides. Fourteen faculty members of our college are guiding 42 Ph.D., scholars.

2.3.7 Process and the number of students benefitted on the academic, personal and psycho-social support and guidance services (professional counseling/mentoring/academic advice) provided to students.

In our College we have been following Teacher in-charge system in which all the teachers in-charge are playing the role of advisers in solving the problems of students in the concerned classes. In addition to that we have Career Guidance cell, Placement Cell and Grievance Redressal Cell in our College.

2.3.8 Innovative teaching approaches/methods adopted by the faculty during the last four years - The efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning.

Innovative Teaching

Innovative teaching is ensured through power point presentations using LCD projectors, Group discussions, seminars, quiz and the like.

Efforts taken by the institutions

The following efforts have been taken by the institution to adopt new and innovative approaches:

- Availability of five LCD projectors
- Internet connection to all the departments and library.
- Well equipped language laboratory
- Smart class room

Impacts

The innovative practices have made the following impact on the students:

- Overall personality of the students has been enhanced.
- The skills which are essential for increasing the employability of the students have been developed.

2.3.9 Usage of library resources to augment the teaching- learning process.

- The Library is kept open on all working days from 9.00 A.M to 4.30 P.M.
- From 9.00 A.M to 4.30 P.M on examination days and during summer vacation.
- Staff can access the e-Journals from UGC N-List programme and use the Internet facility in the library during the working hours of all working days free of cost.
- Every year the Librarian gives orientation to all the First Year Degree students about the facilities and function of the Library.
- News paper clippings / cuttings on Higher Education, Appointments, etc., are put up in the Library Notice Board for students' reference.
- In addition, Newspaper Clippings File is maintained in the Library for ready reference.
- The Librarian displays the book Jackets that are recently purchased and include it in the Library collection to motivate the students to see the new arrivals, etc.

Library Automation and Internet Facility:

- ❖ At present, Library is fully automated with the help of new software called “LIBRARY MANAGER”.
- ❖ The services like the issue, collection and searching of books are done with the help of computers.
- ❖ One computer has been kept in Stack room for reference with *OPAC (Online Public Access Catalogue)*.
- ❖ The periodicals and research journals available in the library help the students to present papers in seminars, conferences, etc. This also activates the research work of the faculty members and the students.

2.3.10 Challenges faced by Institution in completing the curriculum within the planned time frame and calendar.

The problem of not completing the curriculum within the stipulated time did not arise at all.

2.3.11. The method of monitoring and evaluating the quality of teaching learning.

Quality of the teaching, learning process is monitored and evaluated through the performance of the students in the internal tests, seminars, assignments and university examinations.

The final year PG and UG students of our college are given a form in which they have to express their feedback about the effectiveness of the teaching in writing. The feedback form is prepared on the basis of the suggestions and recommendations of NAAC.

During the social break-up function organized by the final year PG and UG students almost all the students feel free to express their opinion about their classmates and the teachers too. It is an appreciable thing that they always talk without any hesitation about the merits and demerits of the facilities available in the College. They are not reluctant to convey their opinion regarding some facilities which are not available in the College. All

these things will lead to the improvement in the attitude of teachers and the development of new facilities in the College campus.

2.4. Teacher Quality

2.4.1 Strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum.

Highest Qualification	Associate Professor		Assistant professor		Total
	Male	Female	Male	Female	
Permanent Teachers					
Ph.D	20	2	4	10	36
M.Phil	2	2	7	8	19
PG	4	-	1	-	5
Others	-	-	-	-	-
Temporary teachers					
Ph.D	-	-	2	3	5
M.Phil	-	-	6	35	41
PG	-	-	5	9	14
Others	-	-	-	-	-
Part-time teachers					
Ph.D	-	-	-	-	-
M.Phil	-	-	-	-	-
PG	-	-	-	-	-
Others (Lawyer)	-	-	-	-	1

Recruitment of Teachers

The teachers are appointed for the aided courses on merit basis as per the norms fixed by the UGC and State Government. The roster system as prescribed by the State Government is strictly followed. A selection committee, as given below, is constituted as per the UGC norms.

- i) Chairperson of the Governing Body of the college or his/her nominee to be the Chairperson of the selection committee.
- ii) The Principal of the concerned college
- iii) One senior teacher/Head of the department (of the concerned subject) preferably having not less than 10 years of service as a teacher.
- iv) Two nominees of the Vice Chancellor of the affiliating university of whom one should be a subject expert.
- v) Two subject experts not connected with the college to be nominated by the chairperson of the Governing Body out of a panel of names approved by the Vice Chancellor.

Self- financed courses and ad-hoc appointment

The candidates are called for an interview through newspaper advertisement. On the basis of the performance in the interview appointment is made by the management committee.

Retention of Teachers

The following measures are taken by the management for the retention of the teachers:

- ❖ The management motivates the teachers to apply for minor and major projects from various funding agencies like UGC, DST and Tamil Nadu State Council for Science and Technology.
- ❖ Management provides all the necessary infrastructural facilities for setting up research centre proposed by various teachers. Our management has provided a separate, well equipped room for the major projects of Dr. G.Vanmathi, department of Chemistry.
- ❖ Study leave is granted to faculty members, as soon as they are selected to pursue their research degrees.

- ❖ The management encourages the staff members to attend orientation/refresher courses. Seventeen faculty members have attended refresher courses and nine members have attended orientation courses.
- ❖ The management also offers support to teachers to organize national/International seminars/conferences /workshops to equip the teachers to meet the changing needs of the curriculum.

2.4.2 Efforts made by the institution to cope up with the growing demand/ scarcity of qualified senior faculty to teach new programmes/ modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)

Nil

2.4.3 Staff development programmes during the last four years - strategies adopted by the institution in enhancing the teacher quality.

a) Nomination to staff development programmes

Academic Staff Development Programmes	Number of Faculty Nominated
Refresher courses	3
HRD Programmes	-
Orientation Programmes	4
Staff training conducted by the University	-
Staff training conducted by other institutions	-
Summer / winter schools, workshops, etc.	7

b) Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning

Nil

c) Percentage of faculty

Faculty as resource person in seminars organized by the external

professional agencies

Year	Total No. of faculty	No. of faculty as resource persons	Percentage
2011 – 12	55	2	3.63
2012 –13	55	5	9.09
2013 – 14	54	8	14.81
2014 – 15	60	6	10

Resource Persons 2011-2012

Sl. No	Date	Staff Name	Topic	Venue
1.	29.07.2011	Dr.A.Kanhasamy, HOD of Tamil dept.	Dept. of Tamil	Dept. of Tamil,Aditanar college
2.	28.09.2011	Dr.A.Kanhasamy, HOD of Tamil dept.	Dept. of Tamil	Dept. of Tamil,Aditanar college
3.	24.08.2011	Dr.C.Thangaraja Associate Professor & Head	Guest Lecture on The Trend of Indian Economy	Aditanar college
4.	30.08.2011	Dr.G.Narayanasamy, Associate Professor Dept. of Physics	Gust lecture on Basic Engineering Association	Jayaraj Annapackiam Polytechnic college
5.	10.10.2011	Dr.T.Balasubramanian, Associate Professor of Mathematics	P.G. Department of Mathematics Association meeting delivered a lecture.	PG Dept of Maths, ANJA College, Sivakasi
6.	22.02.2012	Dr.T.Balasubramanian, Associate Professor of Mathematics	Secondary School Teachers meeting - delivered a lecture.	Caldwell Higher Secondary School
7.	29.02.2012	Dr.T.Balasubramanian, Associate Professor of Mathematics	Secondary School Teachers meeting - delivered a lecture.	Caldwell Higher Secondary School

Resource Persons 2012-2013

Sl. No	Date	Staff Name	Topic	Venue
1.	13-03-2013	Dr A.Asok Asso.Prof of Economics	Seminar on “Union budget 2013-2014” at Aditanar College of Arts and Science, Tiruchendur	Aditanar College of Arts and Science, Tiruchendur

2.	27-12-2012	Dr A.Kandasamy Asso. Prof of Tamil	Guest lecture to the officers of the Thoothukudi District at Subbiah Vidyalaya Hr. Secondary school for girls, Thoothukudi	Director of Tamil development, Thoothukudi
3.	03-10-2012	Dr C.Thangaraja Asso. Prof of Economics	State level seminar on “Nehru and India” at Wavoo Wajeetha Women,s College of Arts and Science , Kayal patnam	Wavoo Wajeetha Women,s College of Arts and Science Kayal patnam
4.	18-01-2013	Dr G.Subramanian Asso. Prof of Commerce	Guest lecture delivered Soonsered by TNSCST at Sri KGS arts College Srivaikuntam	Sri KGS arts College Srivaikuntam
5.	21-09-2012	Dr J.Poongodi Asso. Prof of Physics	Study on Engineering Materials of Applications	Infant Jesus College of Engineering, Keela vullanadu

Resource Persons 2013-2014

Sl. No	Date	Staff Name	Topic	Venue
1.	04.09.2013 to 05.09.2013	Dr.D.Kanagavel, Assistant Professor of Chemsitry	Content Enrichment Training for Post Graduate Teachers	Thoothukudi District Institute of Education and Training (DIET)
2.	26.02.2014	Dr.G.Vanmathi, Assistant Professor of chemistry	Seminar on “Green Chemsitry : Perspective and Challenges”	Popes College, Sawyerpuram
3.	26.08.2013 to 27.08.2013	Dr.J.Muralitharan, Associate Professor of Commerce	Content Enrichment Training for Post Graduate Teachers	Thoothukudi District Institute of Education and Training (DIET)
4.	02.09.2013 to 03.09.2013	Dr.J.Poongodi, Assistant Professor of Physics	Content Enrichment Training for Post Graduate Teachers	Thoothukudi District Institute of Education and Training (DIET)
5.	26.08.2013 to 27.08.2013	Dr.M.Thatchinamurthy, Associate Professor of Commerce	Content Enrichment Training for Post Graduate Teachers	Thoothukudi District Institute of Education and

				Training (DIET)
6.	29.08.2013 to 30.08.2013	Dr.T.Balasubramanian, Associate Professor of Mathematics	Content Enrichment Training for Post Graduate Teachers	Thoothukudi Venue District Institute of Education and Training (DIET)
7.	29.08.2013 to 30.08.2013	Mr.Muniasamy, Associate Professor of Mathematics	Content Enrichment Training for Post Graduate Teachers	Thoothukudi District Institute of Education and Training (DIET)
8.	02.09.2013 to 03.09.2013	Mrs.S.Kanagaprabha, Associate Professor of Physics	Content Enrichment Training for Post Graduate Teachers	Thoothukudi District Institute of Education and Training (DIET)

Resource Persons 2014-2015

Sl. No	Date	Staff Name	Topic	Venue
1.	17.04.2015	A.Kanthasamy, HOD of Tamil	One day Seminar Organized by Tamil Department	G.V.N. College, Kovilpatti
2.	26.03.2015	Dr. C. Thangaraj, Asso. Prof. and HOD of Economics	Resource Person in the National Seminar on “ Indian Economy –Issues & Impacts”	St. Mary’sCollege, Thoothukudi
3.	16.02.2015	Dr. K. Arun Prasath Lingam, Asst. Prof. Of Chemistry	One day Seminar on “Analytical Techniques in Chemistry”	Annai Velankanni College
4.	13, 14.10.2014	Dr.J.Muralitharan, Associate Professor in Commerce	Enrichment training for P.G. Teachers	District Institute of Education and Training
5.	15, 16.10.2014	Dr.J.Pongodi, Assistant Professor in Physics	Enrichment training for P.G. Teachers	District Institute of Education and Training
6.	14.10.2014	Dr.T.Balasubramaniam, Associate Professor of Mathematics	Enrichment training for P.G. Teachers	District Institute of Education and Training

Percentage of faculty participated in workshop / seminar / conferences

Year	Total No. of faculty	No. of faculty participated	Percentage
2011 – 2012	55	17	30.09
2012 – 2013	55	17	30.09
2013 – 2014	54	41	75.92
2014 – 2015	60	19	31.66

2011 – 2012

Sl. No.	Date	Name & Designation	Topic	Venue
1.	25th & 26th July 2011	Dr.G.Vanmathi Assistant Professor Dept.of Chemistry .	Participated in the National Conference on Role of Chemists in Advanced Chemistry	DST –FIST Dept. of Chemistry, Ayya Nadar Janaki Ammal College
2.	29.07.2011	Mrs.R.Prabhavathy Assistant Professor, Dept. of Economics	Participated in UGC Sponsored National level Seminar on Micro Finance – a Tool to Eradicate Poverty	Dept. of Economics, N.M.S.S.Vellaichamy Nadar College,
3.	22&23 September2011	Dr.C.Thangaraja Associate Professor & Head	Attended the seminar	ST.Mary’S college
4.	22&23 September2011	Mrs.T.Jackuline Brindha, Assistant Professor, Dept. of Economics	Attended the seminar	ST.Mary’S college
5.	22&23 September2011	Mrs.R.Prabhavathy Assistant Professor, Dept. of Economics	Attended the seminar	ST.Mary’S college
6.	12& 13 October 2011	Dr.M.Navaneethakrishnan, Assistant professor in Maths	Attended Seminar on Recent trend in Mathematics	Dept. of Mathematics, A.P.C Mahalakshmi college
7.	21&22 October 2011	Mrs.X. Helan Flora, Assistant professor in Physics	Paper presentation on Characterization of polymer electrolyte	Paper presented in Department of physics Mannar Thirumalai Naicker college
8.	29.02.2012	Mrs.S.Kanagaprabha, Assistant Professor, Dept. of Physics	Participated in National Conference on Application of Irradiation Techniques in Science, Engineering	Kamaraj college of Engineering & Technology, Virudhunagar

			& Medicine fields	
9.	15th & 16th March 2012	Dr.C.Thangaraja Associate Professor & Head	Participated in National Conference on Social Discrimination Power Equations and Politics	Dept. of Economics M.S. University
10.	15th & 16th March 2012	Dr.C.Mathana Kamaraj, Asst. Professor, Dept of Economics	Participated in National Conference on Social Discrimination Power Equations and Politics	Dept. of Economics M.S. University
11.	16th March 2012	Mrs.S.Kanagaprabha, Assistant Professor, Dept. of Physics	Participated in National level Conference on Computational Methods in Physics	Dept. of Physics, N.M.S.S. Vellaichamy Nadar college
12	16.03.2012	Dr.A.Kanthasamy, HOD of Tamil dept.	Attended Seminar	Dept. of Tamil, Arul Migu Palani Andavar Kalai Panpaddu college
13	21st & 22 March 2012	Mrs.G.Ramalakshmi Assistant Professor Dept. of mathematics	Participated in National Conference on Frontiers or Pure and Applied Mathematics	The Madurai Diraviyam Thayumanavar Hindu College, Tirunelveli
14	13.03.2012	Mr.V.Shanmugaraja, Associate Professor, Dept. of English	Attended in one day Workshop on Translation Programme	Department of English, M.S.University
15	09.03.2012	Mr.S.Senthil, Assistant Professor, Dsept. Of Computer Science,	One day Workshop on WEKA	Computer Science Research Centre, St. Xavier's College
16	24 & 25 Feb. 2012	Dr.G.Vanmathi Assistant Professor Dept.of Chemistry .	Participated in the Annual Workshop on Advanced Materials -2012	Centre for Scientific and Applied Research , PSN College of Engineering and Technology, Tirunelveli
17	28th & 29th July 2011	Mr.S.Senthil, Assistant Professor, Dsept. Of Computer Science,	Workshop on Recent Trendds in Image Processing	Department of Computer Science & Engineering, Udaya School of Engineering,

2012 – 2013

Sl. No.	Date	Name & Designation	Topic	Venue
1.	12-0-2012	Dr A.Asok Asso.Prof of Economics	National conference on “ Micro credit- A tool to eradicate poverty in rural areas”	Department of Economics, Aditanar College of Arts and science, Tiruchendur
2.	21-2-2012	Dr D.Nagarajan Asso. Prof of Zoology	State level conference on “Establishment of Entrepreneurship Development cells in Higher Education Institution in Tamilandu” at Chennai Trade Centre, Chennai	Entrepreneurship Development Institute, Chennai
3.	01-10-2012 to 03-10-2012	Prof S.Kanagaprabha Assitant Prof of Physics	International conference on ”research in condensed matter physics”	University of Madras
4.	20-02-2013 to 22-02-2013	Dr D.Kangavel Assistant Professor of Chemistry	International Conference on “biological Inorganic chemistry” at Periyar University, Salem	Periyar University, Salem
5.	14-03-2013 to 15-03-2013	Dr C.MathanaKamaraj Asso.Prof of Economics	National Conference on coastal region development and environment	M.S.University
6.	07-02-2013 to 08-02-2013	Dr C.MathanaKamaraj Asso.Prof of Economics	National Conference on coastal region development and environment	M.S.University
7.	15-02-2013 to 16-02-2013	Dr J.Poongodi Asso. Prof of Physics	UGC sponsored National Conference on “Advanced materials” at St Mary’s College, Thoothukudi	St Mary’s College, Thoothukudi
8.	14-03-2013 to 15-03-2013	Dr C.Thangaraja Asso. Prof of Economics	National Conference on coastal region development and environment	M.S.University
9.	07-02-2013 to 08-02-2013	Dr C.Thangaraja Asso. Prof of Economics	National Conference on coastal region development and environment	M.S.University
10.	17-03-2013	Dr A.Asok Asso.Prof of Economics	ANOs conference at 3(TN) Naval Unit NCC, Thoothukudi	3(TN) Naval Unit of Thoothukudi
11.	12-10-2012	DR R.Prabavathy Asso. Prof of Economics	National conference on “ Micro credit- A tool to eradicate poverty in rural areas”	Department of Economics, Aditanar College of Arts and science, Tiruchendur
12.	18-02-2013 to 20-02-2013	Dr G.Vanmathi Assitant Prof of Chemistry	State level three days work shop on “Modern Analytical Techniques” at National College, Tiruchy	National College, Tiruchy
13.	22-02-2013 to 22-02-2013	Dr G.Vanmathi Assitant Prof of Chemistry	State level two day Lecture workshop on “modern Tends in Chemistry” at Vivekananda College, Madurai	Vivekananda College, Madurai

14	08-02-2013 to 09-02-2013	Prof S.Senthil Assistant Prof of Comp. Science	National Level Hands on Workshop on “ANDROID- application and velopment” at Sri Vidya College of Engineering, Virudhunagar	Sri Vidya College of Engineering, Virudhunagar
15	14-02-2013 to 16-02-2013	Prof S.Kanagaprabha Assitant Prof of Physics	State level workshop on “Advances in Computational Physics – 2013” at Central University, Tiruvarur	Central University, Tiruvarur
16	23-01-2013 to 24-01-2013	Prof S.Sugirtha Devi Asso. Prof of Chemistry	Science Academie’s Lecture workshop on “recent advances in chemistry” at MS university, Tirunelveli	M.S.University
17	27-02-2013 to 28-02-2013	Prof S.Senthil Assistant Prof of Comp. Science	Two days workshop “ Research data Analysis SPSS packages”	M.S.University

2013 – 2014

Sl. No.	Date	Name & Designation	Topic	Venue
1.	17.08.2013	Dr.A.Asok, Associate Professor of Economics	Seminar on “CRM in Commercial Banks in the era of Globalisation”	Aditanar College of Arts & Science, Tiruchendur
2.	17.08.2013 & 18.08.2013	Dr.M.Thatchinamurthy, Associate Professor of Commerce	Seminar on “CRM in Commercial Banks in the era of Globalisation”	Aditanar College of Arts & Science, Tiruchendur
3.	17.08.2013 & 18.08.2013	Dr.J.Muralitharan, Associate Professor of Commerce	Seminar on “CRM in Commercial Banks in the era of Globalisation”	Aditanar College of Arts & Science, Tiruchendur
4.	17.08.2013 & 18.08.2013	Dr.R.S.Thangeswari, Assistant Professor of Commerce	Seminar on “CRM in Commercial Banks in the era of Globalisation”	Aditanar College of Arts & Science, Tiruchendur
5.	21.08.2013	Dr.D.Kanagavel, Assistant Professor of Chemistry	Seminar on “Recent Trends in Chemistry”	V.O.C. College, Thoothukudi
6.	06.09.2013	Mrs.G.Ramalakshmi, Assistant Professor of Mathematics	Seminar on “Emerging trends in Graph Theory and Fuzzy Mathematics”	A.P.C.Mahalaxmi College for Women, Thoothukudi
7.	06.09.2013	Mrs.A.Kalaiyarasi, Assistant Professor of Mathematics	Seminar on “Emerging trends in Graph Theory and Fuzzy Mathematics”	A.P.C.Mahalaxmi College for Women, Thoothukudi
8.	18.09.2013	Dr.K.Bhanumathi, Assistant Professor of Zoology	Seminar on “Marine Conservation”	A.P.C.Mahalaxmi college for Women, Thoothukudi.
9.	25.09.2013 to 27.09.2013	Mrs.S.KanagaPrabha, Assistant Professor of Physics	2nd National Seminar on New Materials Research and Nano- technology (NSNMRN 2013)	Government Arts College, Ooty.
10.	27.09.2013	Dr.A.Asok, Associate	Seminar on “Economic	Aditanar College of Arts

		Professor of Economics	Empowerment of Rural Women through SHGs”	& Science
11.	23.10.2013	Mr.M.Rajeswari, Associate Professor of History	One Day International Seminar on “India through Ages”	A.P.C.M.College, Thoothukudi.
12.	03.01.2014	Dr.R.Prabhavathy, Assistant Professor of Economics	Seminar on “MGNREGP – Challenges, Problems, and Remedies”	Aidtanar College, Tiruchendur
14.	03.01.2014	Mrs.T.JackulineBrindha, Assistant Professor of Economics	Seminar on “MGNREGP – Challenges, Problems, and Remedies”	Aidtanar College, Tiruchendur
15.	25.01.2014	Mr.V.Shunmugaraja, Associate Professor of English	State Level Seminar on “Higher Education – Futuristic Perspective”	MTN College Madurai.
16	25.01.2014	Mr.T.alesan, Associate Professor of Economics	State Level Seminar on “Higher Education – Futuristic Perspective”	MTN College Madurai.
17.	25.01.2014	Dr.A.Sivadhas, Associate Professor of Physics	State Level Seminar on “Higher Education – Futuristic Perspective”	MTN College Madurai.
18.	25.01.2014	Dr.G.Narayanasamy, Associate Professor of Physics	State Level Seminar on “Higher Education – Futuristic Perspective”	MTN College Madurai.
19.	25.01.2014	Dr.P.Chendurpandy, Associate Professor of Botnany	State Level Seminar on “Higher Education – Futuristic Perspective”	MTN College Madurai.
20.	25.01.2014	Dr.V.Seenivasan, Associate Professor of Commerce	State Level Seminar on “Higher Education – Futuristic Perspective”	MTN College Madurai.
21.	25.01.2014	Mr.V.Vijayakumar, Associate Professor of Commerce	State Level Seminar on “Higher Education – Futuristic Perspective”	MTN College Madurai.
22.	25.01.2014	Dr.G.Kasirajan, Associate Professor of Commerce	State Level Seminar on “Higher Education – Futuristic Perspective”	MTN College Madurai.
23.	25.01.2014	Dr.R.Sornaraj, Associate Professor of Zoology	State Level Seminar on “Higher Education – Futuristic Perspective”	MTN College Madurai.
24.	27.01.2014	Mrs.A.Kalaiyarasi, Assistant Professor of Mathematics	Seminar on “Latest Development in Mathematics”	WavooWajeethaWomens College, Kayalpatnam.
25.	31.01.2014	Dr.R.S.Thangeswari, Assistant Professor of Commerce	Seminar on “Issues and Challenges in Commerce in the Present Global Scenario”	GVN College of Kovilpatti
26.	31.01.2014 to 01.02.2014	Dr.D.Nagarajan, Associate Professor of Zoology	Seminar on “Institutional Quality Improvement : Role of information and Communication Technology	IQAC, St.Mary’s College, Autonomous.
27.	07.02.2014 to 08.02.2014	Dr.M.Navaneetha Krishnan, Associate Professor of Mathematics	Seminar on :Current Trends on Mathematics”	SBK College, Aruppukottai.

28.	12.02.2014	S.REMONA, Assistant Professor of English	Seminar on Travel writing through the ages	SadakathullaAppa College
29.	28.02.2014	Dr.K.Bhanumathi, Assistant Professor of Zoology	One day seminar on “Bio Today”	Aditanar College of Arts & Science, Tiruchendur
30.	07.03.2014	Dr.C.Thangaraja, Associate Professor of Economics	Seminar on The Recent Economic Issues in India.	SadakathullaAppa College, Tirunelveli
31.	07.03.2014	Dr.C.MathanaKamaraj, Associate Professor of Economics	Seminar on The Recent Economic Issues in India.	SadakathullaAppa College, Tirunelveli
32.	14.03.2014	Mrs.T.JackulineBrindha, Assistant Professor of Economics	Seminar on “Environment Nexus Development Issues and Challenges”	Pope’s College, Sawayerpuram
33.	24.03.2014	Mrs.A.Shanti, Assitant Professor of English	International Seminar on English Literature Across Cultures	Aditanar College of Arts &Science.
34	21.01.2014	Dr.C.MathanaKamaraj, Associate Professor of Economics	Workshop on “E-Governance”	ManonmaniamSundaranar University, Tirunelveli
35	16.12.2013 to 20.12.2013	Dr.K.Suyambulingam, Associate Professor of Economics	Workshop on “Entrepreneurial Development”	Pope’s College, Sawyerpuram
36	05.10.2013	Dr.A.Asok, Associate Professor of Economics	Workshop on “Basic Statistical Analysis”	WavooWajeehaWomens College, Kayalpatnam.
37	22.01.2014 to 24.01.2014	Mr.M. Muniasamy, Associate Professor of Mathematics	Three Day workshop on Algebraic Graph Theory and Mathematics Curriculum 38enrichment.	ManonmaniamSundaranar University, Tirunelveli
38	16.12.2013 to 20.12.2013	Mr.P.Periasamy, Assistant Professor of Mathematics	W39orkshop on “EntrepreneurialDevelopment”	Pope’s College, Sawyerpuram
39	22.02.2014 to 24.02.2014	Dr.D.Kanagavel, Assistant Professor of Chemistry	3 days workshop on “Curriculum Development”	ManonmaniamSundaranar University, Tirunelveli
40	25.02.2014 to 26.02.2014	Dr.D.Kanagavel, Assistant Professor of Chemistry	Workshop on “Synthesis and Characterisation of Nano materials”	VOC College, Thoothukudi.
41	16.12.2013 to 20.12.2013	Dr.D.Nagarajan, Associate Professor of Zoology	Workshop on “Entrepreneurial Development”	Pope’s College, Sawyerpuram

2014 – 2015

Sl. No	Date	Name & Designation	Topic	Venue
1	15.09.2014	A.Shanthi, Assistant Professor in English	International conference on impact and Influence of E –	Department of English, Sarah Tucker College,

			communication on English	Tirunelveli
2	26.03.2015 and 27.03.2015	Dr. A. Devaraj, Asst. Prof. Of History	Attended the National Conference on “Higher Education in India: Emerging Needs and Challenges”	Kulapathy A.P.C. Veerabahu Centenary Committee V.O.C. College, Thoothukudi
3	26.03.2015 and 27.03.2015	Dr. G. Kasirajan, Asso. Prof. Of Commerce.	Attended the National Conference on “Higher Education in India: Emerging Needs and Challenges	Kulapathy A.P.C. Veerabahu Centenary Committee V.O.C. College, Thoothukudi
4	29.01.2015 & 30.01.2015	Dr. J. Poongodi, Asso. Prof. Of Physics	Conference on “Renewable Energy for Green Future”	Department of Physics, Pope’s College
5	26.02.2015	Dr. J. Poongodi, Asso. Prof. Of Physics	State level Seminar on “ Energy Physics”	Department of Physics, Aditanar College of Arts and Science
6	26.03.2015	Dr. K. Suyambulingam, Asso. Prof. of Economics	National Seminar on “ Indian Economy – Issues & Impacts Level Seminar	St. Mary’s College, Thoothukudi
7	08.08.2014	Dr.A.Ashok, Associate Professor in Economics	UGC Sponsored National Seminar on Degradation of Ground water quality and its impact on Coastal area	Popes College, Sawyerpuram
8	24.10.2014	Dr.A.Asok, Associate Professor in Economics	State level seminar on Role of Micro, Small, Medium Enterprises – Challenges and Remedies	Department of Economics, Aditanar College, Tiruchendur
9	04.09.2014 and 05.09.2014	Dr.G.Vanmathi, Assistant Professor in Chemistry	National conference on Materials for Energy Storage and Conversion	PSN College of Engineering and Technology, Melathediyyur
10	27.08.2014	Dr.K.Arunprasath Lingam, Assistant Professor in Chemistry	National seminar on Current Trends in Chemistry	Department of Chemistry, VOC College, Thoothukudi
11	08.08.2014	Dr.T.Jaculine Brindha, Associate Professor in Economics	UGC Sponsored National Seminar on Degradation of Ground water quality and its impact on Coastal area	Popes College, Sawyerpuram
12	19.02.2015 to 20.02.2015	M. Navaneetha Krishnan, Asso. Prof. in	National Seminar on “Recent Trends in Topology”	Department of Mathematics, Kongu Engineering

		Mathematics		College
13	26.02.2015	R. Prabhavathy, Asso. Prof. of Economics	State level Seminar on “Women Empowerment in Indian Scenario”	PG & Research Department of Economics , The M.D.T. Hindu College
14	12.02.2015 and 13.02.2015	T. Ponrathi, Asst. Prof. Of Botany	Seminar on “Plant Genetic Resources: Utilization and Conservation”	PG & Research Department of Botany, V.O.C.College
15	16.09.2014	T.Balasingh, Director of Physical education	Selection Committee – Men & Women Chess team	Manonmaniam Sundaranar University
16	09.01.2015 to 11.01.2015	Dr. K. Arun Prasath Lingam, Asst. Prof. Of Chemistry	Lecture Workshop on “Emerging Trends in Chemistry”	St. Xavier’s College, Palayamkottai
17	09.01.2015 to 11.01.2015	G. Ragukumar, Asst. Prof. Of Chemistry,	Workshop Entitled “Emerging trends in Chemistry”	St. Xavier’s College, Palayamkottai
18	20.03.2015	T.Jackuline Brindha, Asst. Prof. Of Economics.	One day UGC Sponsored workshop on “Statistical Tools and uses of SPSS in Research”	St. John’s College, Palayamkottai,
19	16.12.2014	Dr. D. Nagarajan, Asso. Prof Of Zoology.	Workshop on “ Virtual Dissection”	St. Xavier’s College. Palayamkottai

Percentage of faculty presented papers in workshop / seminar / conferences

Year	Total No. of faculty	No. of faculty Presented	Percentage
2011 – 2012	55	-	-
2012 – 2013	55	3	5.5
2013 – 2014	54	5	9.2
2014 – 2015	60	4	6.7

2.4.4 Policies/systems followed to recharge teachers. - providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes industrial engagement etc.

- ❖ The management motivates the teachers to apply for minor and major projects from various funding agencies like UGC, DST and Tamil Nadu State Council for Science and Technology.
- ❖ Management provides all the necessary infrastructural facilities for setting up research centre proposed by various teachers. Our management has provided a separate, well equipped room for the major projects of Dr. G.Vanmathi, department of Chemistry.
- ❖ Study leave is granted to faculty members, as soon as they are selected to pursue their research degrees.
- ❖ The management encourages the staff members to attend orientation/refresher courses. Sixteen faculty members have attended refresher courses and nine members have attended orientation courses.
- ❖ The management also offers support to teachers to organize national/International seminars/conferences /workshops to equip the teachers to meet the changing needs of the curriculum.

2.4.5 The number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years.

Nil

2.4.6 Evaluation of teachers by the students and external Peers. – Use of evaluation for improving the quality of the teaching-learning process.

Quality of the teaching-learning process is monitored and evaluated through the performance of the students in the internal tests, seminars, assignments and university examinations. .

The final year PG and UG students of our college are given a form in which they have to express their feedback about the effectiveness of the teaching in writing. The feedback form is prepared on the basis of the suggestions and recommendations of NAAC.

During the social break-up function organized by the final year PG and UG students almost all the students feel free to express their opinion about

their classmates and the teachers too. It is an appreciable thing that they talk without any hesitation about the merits and demerits of the facilities available in the College. They are not reluctant to convey their opinion regarding some facilities which are not available in the College. All these things lead to the improvement in the attitude of teachers and the development of new facilities in the College campus.

2.5 Evaluation process and reforms

2.5.1 Ensuring that the stakeholders of the institution especially students and faculty are aware of the evaluation processes.

Since the first year UG students are coming from higher secondary schools, they are unaware of the mechanism of the semester system. Hence the teacher in-charge of the first UG class will explain the valuation methods available in the semester pattern such as internal test and assignments. For first PG students, in addition to the internal test and assignment, seminar will be taken by each and every student.

The schedule of internal tests will be informed to the students well in advance so as to enable them to prepare for the tests. The pattern of question paper is also informed to the students. In our college several teachers are involved in the valuation of the university examination papers.

2.5.2 The major evaluation reforms of the university that the institution has adopted and the reforms initiated by the institution on its own.

Evaluation reforms initiated by the university

- University Examination timetables are displayed in the College notice board as soon as it is received from the university. University examinations are conducted as per the schedule given by the University.

- The university has made a special arrangement for conducting supplementary examinations for those students who have failed in only one paper in the last semester. This system enables them to go for higher studies immediately, without losing one academic year.
- Re-examinations are conducted separately for the sports/NCC/NSS/ students who are away on other duty during the university examination by Manonmaniam Sundaranar University.
- Retests are also conducted for the students who could not write the test because of their participation in cultural festivals.

Evaluation reforms initiated by our college

As our college is an affiliated college, reformation in evaluation process in the University examination is not possible. But in the university ‘internal tests’ we have made changes. The internal tests are conducted department-wise.

2.5.3 Ensuring the effective implementation of the evaluation reforms of the university and those initiated by the institution on its own.

Implementation of the evaluation reforms by the university

- The university has made a special arrangement for conducting supplementary examinations for the students who have failed in only one paper in the last semester. This system enables them to go for higher studies immediately, without losing one academic year.
- Further, Sports / NCC / NSS students are informed about the special examination through the respective officers.
- Revaluation applications are immediately forwarded by the Principal to the university.
- Records regarding the university result of the students, their revaluation details and supplementary and special examination details are effectively maintained in our college.

Implementation of the evaluation reforms initiated by our college

The dates of the three Internal Assessment Tests are mentioned in the College handbook. In our College the internal tests are conducted for the different majors by the respective departments on these dates. In each and every department there will be a teacher in-charge of these internal tests. He/She will be collecting the question paper from all the members of concerned departments.

2.5.4 Details on the formative and summative assessment approaches adopted to measure student achievement.

- Internal tests, assignments, seminars, university examinations and class tests are conducted to measure students' academic achievements.

2.5.5 Significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioural aspects, independent learning, communication skills etc

A separate register is maintained in all the departments to record the internal marks. Internal marks are announced to the students before they are sent to the university. If there is any discrepancy in the internal evaluation, students can represent it to the teacher concerned. Further, for the first year UG students, in Part II- English, an internal viva voce is conducted to test their communication skills.

Behaviourial aspects of the students are judged by their participation in external activities (Part - V) and one credit is given to them.

2.5.6 The graduate attributes specified by the college/ affiliating university.

The graduate attributes are ensured through effective teaching of a paper on Social Value Education for the first year students.

2.5.7 Mechanisms for redressal of grievances with reference to evaluation both at the college and University level.

- The students have the facility to apply for revaluation if they are not satisfied with the marks obtained in the university examinations.
- Students can represent to the teacher or the advisor if there is any discrepancy in the marks awarded in the internal tests.

2.6. Student performance and Learning Outcomes

2.6.1 Clearly stated learning outcomes- Details on how the students and staff are made aware of these.

The college has clearly stated learning outcomes. The students and staff members are made aware of the learning outcomes in the following manner:

The university syllabus itself exhibits the expected learning outcomes. The learning outcomes are explained to the first year students by the concerned teacher in-charge on the first day of the class.

2.6.2 Monitoring and communicating the progress and performance of students through the duration of the course / programme. - An analysis of the students results/achievements (Programme / course wise for last four years) and the differences.

Methods of monitoring the progress of students:

The performances of the students are assessed through department-wise internal assessment tests. The performance of the students in co-curricular activities during the course of study is regularly monitored by the staff in-charge of the respective clubs / NSS / NCC, etc.,

Result analysis for four years

Programme	April 2012	April 2013	April 2014	April 2015
Aided Courses				
B. A Economics	56.25	44.10	38.90	93.10
B. A History	75.00	58.80	76.50	66.66
B. Sc Maths	75.00	70.20	65.70	83.33
B. Sc Physics	66.67	42.30	40.00	72.41
B. Sc Chemistry	94.28	60.60	78.90	69.70
B. Sc Zoology	68.75	62.50	48.00	80.76
B.Sc. Botany	61.11	57.70	65.20	57.89
B. Sc Computer Science	95.80	72.20	90.50	81.81
B.Com	82.80	62.30	68.80	70.68
M. A Economics	100.00	83.30	100.00	100.00
M. Sc Mathematics	72.20	60.00	57.10	82.3
M.Com	86.70	96.00	100.00	100.00
Selffinancing Courses				
B.A. English	-	54.50	45.40	22.40
B.Sc. Physics	-	-	-	-
B.Sc. Chemistry	88	85.70	66.60	43.50
B.Sc. Microbiology	83	87.50	-	62.50
B.Sc. Computer Science	75	22.20	73.90	47.40
B. Com	68	100.00	21.00	36.40
B.Com Corporate	50	64.3	33.30	53.80
B.Com CA	-	100	19.00	51.00
M.Sc. Microbiology	100	-	90.90	100
M.Sc. Zoology	80	61.5	-	-
M.C.A	100	100	100	90.00
M.Com CA	47	100	41.7	83.30
M.Phil Commerce	-	100	-	-
M.Phil Mathematics	-	66.7	-	-

Most of the students of our college come from the Tamil medium schools of rural areas and most of them are first generation learners. After the publication of university results, an analysis of the results is made by the HOD's in consultation with other members of concerned departments. The reasons for their failures are discussed and remedial actions are taken.

2.6.3 Structuring the teaching, learning and assessment strategies of the institution to facilitate the achievement of the intended learning

outcomes.

The following have been adopted by the institution to facilitate the achievements of the intended learning outcomes:

1. Our College management appoints the adequate teachers against the approved strength. When a vacancy arises, the management appoints temporary teachers, till the approval is received from the Government.
2. A Smart class room is available in our college in which all the technologies are used by the faculty for effective teaching. We have 178 computers, 12 printers, and 5 LCD projectors. Independent learning is encouraged through seminars and assignments.
3. For the purpose of assessing their academic performance, department-wise internal tests are conducted.
4. Individual care is taken by the teacher in-charge to overcome their personal problems.
5. Through various clubs of our college the histrionic skills of our students are developed.

2.6.4 The measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered.

To enhance the social and economic relevance of courses, the following measures have been taken by the institution:

- Our college has a separate Career Guidance cell and a Placement Cell. The placement cell has arranged for several campus interviews for the final year students with the officials of various industries nearby.
- Our college NSS Units / Road Safety Patrol / Blood Donors club and Red Ribbon Club are doing a lot of social service like blood donation, crowd management and traffic regulation in the nearby temples during

festival seasons, and awareness rallies.

NSS Programme awards : Nil

NSS volunteer award & achievement: Nil

NCC Awards: Nil

YRC : Dr. A.Kansasamy Head & Associate Professor of Tamil, received the award for the best Performance in YRC Movement for the year 2013-2014

2.6.5 Collecting and analyzing the data on student performance and learning outcomes and use it for planning and overcoming barriers of learning.

- After the publication of university results, an analysis of the results is made by the HOD's in consultation with other members of concerned departments. The reasons for the failures are discussed and remedial actions are taken.

2.6.6 Monitoring and ensuring the achievement of learning outcomes.

The learning outcomes are monitored and ensured through internal tests, class tests, model examinations, seminars, assignments, and literary and cultural competitions.

Further, university examination results are also used as an indicator for ensuring the achievement of learning outcomes.

2.6.7 Use of assessment evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning by the Institution and individual teachers.

The institution and individual teachers have methods to evaluate students' performance.

1. Class tests are conducted regularly by the concerned subject teachers.
2. Special skills of the students are assessed with the help of the bio-data, which is filled in by the first year UG and PG students in the beginning of the first semester
3. Personal care is taken by the teacher in-charge for solving the personal problems of the students.
4. The seating arrangement of the students made in alphabetical order. Inculcates the quality of mingling with others. The teacher in-charge plays a very important role in developing the qualities like punctuality and hard work friendliness unity. These work as a team.

Any other relevant information regarding teaching learning and evaluation which the college would like to include.

1. 100% transparency is maintained in the admission process.
2. Language laboratory is used to develop communication skills in English.
3. Internal tests are conducted department-wise. Total transparency is maintained in the evaluation of internal tests, seminars and assignments.
4. Personality development courses are conducted for the students by our teachers, by inviting experts from outside.

CRITERION III

RESEARCH, CONSULTANCY AND EXTENSION

3.1. Promotion of Research

3.1.1 Recognized research centre/s of the affiliating University

The Department of Mathematics and Zoology are recognized research centres affiliated to Manonmaniam Sundaranar University, Tirunelveli.

3.1.2 Research committee to monitor and address the issues of research-composition and Recommendations.

Our college has a Research committee with Dr. R.Sornaraj, Head & Associate Professor of Zoology as the Convener and all the recognized research guides of our college as the members. The main activity of the committee is to promote research activities. Application forms for applying to various funding agencies for minor/major research projects are downloaded and circulated to all the staff members. By the motivation and encouragement given by the research committee over a period of time, so far we have got five major research projects, and two minor research projects.

As a recognition to the successful completion of the previous project by Dr M.Sakthivel, the DST, New Delhi has now sanctioned a research grant of Rs.17,63,100 (Rupees Seventeen Lakhs Sixty Three Thousand and One Hundred) only towards the implementation of his research proposal titled “A portable FRP Carp Hatchery Technology: A successful adoption in adopted villages in Tuticorin District”

The objective of his previous project on Lobster Fattening was to popularize the fattening technology and to make use of the juvenile lobsters for growing them in glass tanks at home. The MPEDA (Marine Product Export and Development Authority of India) is giving 50 to 60% subsidy to the installation of these marine tanks at home to improve the socio – economic condition of unemployed women in the coastal villages.

The main objective of the second project on portable FRP Carp Fishery Technology is to popularize the idea of using the FRP tank instead of glass tanks with the dual purpose of using the same unit for growing food fishes during rainy seasons and for growing live feeds and ornamental fishes during off seasons, ie., dry seasons.

3.1.3 Measures taken by the institution to facilitate smooth progress and implementation of research schemes/ projects.

- The Principal Investigator has full freedom to carry out the research work in the college.
- The College provides laboratory facilities with adequate infrastructure to carry out the research work successfully.
- They are free to use the available lab assistants and office assistants.
- Sufficient research journals and books are available in the library for reference.

3.1.4 Efforts made by the institution in developing scientific temper and research culture and aptitude among students.

AS per the norms framed by Manonmaniam Sundaranar University Group projects for U.G. students and individual projects for P.G. students are given to create a research attitude in them. Students are motivated to make use of the library resources, laboratory and other infrastructural facilities.

Second year PG students of Mathematics department are encouraged to attend PhD viva-voce examination which has been conducted in our College. This attempt develops the research attitude of PG students.

3.1.5 Details of the faculty involvement in active research.

Leading Research Projects of the faculty

Major Research Projects funded by UGC, DAE, Earth science

No	Name of the Faculty	Title of the Project	Period	Amount Sanctioned (Rs.)

1	Dr M.Sakthivel	Faltering of lobster juveniles for technology demonstration at selected coastal villages in Gulf of Mannar	2009 – 2012	Rs.18, 58,196
2	Dr J.Mohanraj	Development of Technologies for hatchery production of Marine gastropods in Gulf of Mannar Island	2007-08 to 2011-12	Rs65,39,763
3	Dr G.Vanmathi	Studies on Development of Electron Beam Treated Heterogeneous Catalysts suitable for Organic Synthesis	May 2012 – Mar 2015	Rs.23 Lakhs
4	Dr J.Mohanraj & Dr J.Poongodi	Monitoring and dissemination of data from the wave rider buoy and compare the physiochemical parameters along the Tuticorin coastal water.	2014-2017	Rs 12,03,840/=
5	Dr M.Sakthivel	A portable FRP Carp Hatchery Technology: A successful adoption in adopted villages in Tuticorin District	2014-15	Rs 17,63,100/=

Minor Projects:

No.	Name of the Faculty and funding agency	Title of the Project	Period	Amount Sanctioned (Rs)
1.	Mrs S.Kanagaprabha	Investigation of Electronic, mechanical and elastic properties of some hydrogen storage materials	2013-215	Rs 4,25,000
2.	Dr J.Poongodi	Physio-chemical studies on molecular interaction of binary liquid mixtures at different temperature	2013-2015	Rs1,81,000

Details of Ph.D. Awarded to our Faculty

S.No.	Name	Department	Title	Year
1	Dr. C. Kasthuri	Assistant Professor of Tamil	நன்னூலும் ஒன்னூல் விளக்கமும் - ஒப்பாய்வு	2011
2	Dr. K. Suyambulingam	Associate Professor of Economics	Working Conditions of marine fishing workers in Thoothukudi District	2012
3	Dr. R. Prabhavathy	Associate Professor of Economics	An Economic analysis of micro finance for women upliftment in	2013

			Thoothukudi District of Tamilnadu	
4	Dr. X.Helan Flora	Assistant Professor of Physics	Preparation and characterization of (PAN/PMMA)blend solid polymer electrolytes	2013
5	K. Arun Prasanth Lingam	Assistant Professor of Chemistry	Synthesis and synthetic transformations of oxindole upended vinyl cyclopropanes and viny Aziridines	2014

Research Guides of our college

S.No	Name	Designation
1	Dr. A.Kanthasamy	Head and Associate Professor of Tamil
2	Dr. M. Sivapackiam	Associate Professor of Tamil
3	Dr. A.Asok	Associate Professor of Economics
4	Dr. S.Durairaj	Associate Professor of Mathematics
5	Dr. M.Navaneethakrishnan	Associate Professor of Mathematics
6	Dr. T.Balasubramanian	Associate Professor of Mathematics
7	Dr. G.Narayanasamy	Associate Professor of Physics
8	Dr. G.Vanmathi	Assistant Professor of Chemistry
9	Dr. D.Kanagavel	Assistant Professor of Chemistry
10	Dr. V.Arinathan	Head & Associate Professor of Botany
11	Dr. S.Periyanan	Associate Professor of Botany
12	Dr. R.Sornaraj	Head & Associate Professor of Zoology
13	Dr J.Mohanraj	Associate Professor of Zoology
14	Dr. D.Nagarajan	Associate Professor of Zoology
15	Dr. K.Bhanumathi	Assistant Professor of Zoology
16	Dr. V.Josephraj	Head & Associate Professor of Computer Science
17	Dr. S.Kannan	Head & Associate Professor of Commerce
18	Dr V.Seenivasan	Associate Professor of Commerce
19	Dr. G.Kasirajan	Associate Professor of Commerce

Number of Ph.D awarded (2011-2015) and scholars doing Ph.D. under the guidance of our faculty members as guide / co-guide

S.No.	Name	Department	Awarded	Doing
1	Dr. A.Kanthasamy	Head and Associate Professor of Tamil	7	7
2	Dr. M. Sivapackiam	Associate Professor of Tamil	-	1

3	Dr. A.Asok	Associate Professor of Economics	1	6
4	Dr. S.Durairaj	Associate Professor of Mathematics	1	5
5	Dr. M.Navaneethakrishnan	Associate Professor of Mathematics	-	7
6	Dr. T.Balasubramanian	Associate Professor of Mathematics	1	1
7	Dr. G.Narayanasamy	Associate Professor of Physics	-	2
8	Dr. G.Vanmathi	Assistant Professor of Chemistry	-	-
9	Dr. D.Kanagavel	Assistant Professor of Chemistry	-	3
10	Dr. V.Arinathan	Head & Associate Professor of Botany	-	-
11	Dr. S.Periyanan	Associate Professor of Botany	-	2
12	Dr. R.Sornaraj	Head & Associate Professor of Zoology	9	5
13	Dr J.Mohanraj	Associate Professor of Zoology	-	-
14	Dr. D.Nagarajan	Associate Professor of Zoology	-	1
15	Dr. K.Bhanumathi	Assistant Professor of Zoology	-	2
16	Dr. V.Josephraj	Head and Associate Professor of Computer Science	2	8
17	Dr. S.Kannan	Head & Associate Professor of Commerce	2	4
18	Dr V.Seenivasan	Associate Professor of Commerce	-	2
19	Dr. G.Kasirajan	Associate Professor of Commerce	-	-
20	Dr. C. Mathana Kamaraj	Associate Professor of Economics	-	-
	Total		23	56

Project Guidance:

All the faculty members are engaged in guiding the group projects for the UG students and individual/group project for the PG students.

Collaborative Research activities

The Department of Atomic Energy (DAE-BRNS) Mumbai, has sanctioned Rs.23 lakh for executing research activities to G. Vanmathi, Assistant Professor of Chemistry, Kamaraj College, Tuticorin.

The objective of the project is to synthesize and modify various chemicals and life saving pharmaceutical drugs using microtron beam treated catalysts. It also aims to modify the process of synthesizing life-saving drugs.

Dr. Ganesh Sanjeev, Director, Microtron Centre, Mangalore University, Mangalore is the principal collaborator in the research programme. On the industries side, U.P. Senthil Kumar, senior vice-president, Research and Development, Orchid Chemicals and Pharmaceuticals Limited, Chennai interacted in the programme.

The Commerce Department is maintaining a link with the Research centre in Commerce, Scott Christian College, Nagercoil, for carrying out research.

The Department of Zoology has a link with the Research department of Zoology, V.O.C.College, Thoothukudi.

The department of Physics has a link with the Research department of Physics, St. Xavier College, Palayamkottai to do research.

3.1.6 Details of workshops/ training programmes/ sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbining research culture among the staff and students.

The Research committee and IQAC motivated our faculty members to apply for major and minor research projects. UGC has sanctioned two minor research projects in the last four years.

3.1.7 Details of prioritized research areas and the expertise available with the institution.

The details of the research areas of recognized research supervisors by M.S.University, Tirunelveli are given below:

S.No.	Name	Department	Research Area
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1	Dr. A.Kanthasamy	Head and Associate Professor of Tamil	Ethic Life
2	Dr. M. Sivapackiam	Associate Professor of Tamil	Sangam Literature
3	Dr. A.Asok	Associate Professor of Economics	Agri Economics
4	Dr. S.Durairaj	Associate Professor of Mathematics	Stochastic Process
5	Dr. M.Navaneethakrishnan	Associate Professor of Mathematics	Topology
6	Dr. T.Balasubramanian	Associate Professor of Mathematics	Sequence Sseries
7	Dr. G.Narayanasamy	Associate Professor of Physics	Non Linear Optics
8	Dr. G.Vanmathi	Assistant Professor of Chemistry	Catalysis & Organic Synthesis
9	Dr. D.Kanagavel	Assistant Professor of Chemistry	Co-ordination Chemistry Environmental Chemistry
10	Dr. V.Arinathan	Head & Associate Professor of Botany	Ethno Botany
11	Dr. S.Periyanan	Associate Professor of Botany	Photo Biology and Molecular Biology
12	Dr. R.Sornaraj	Head & Associate Professor of Zoology	Environmental Toxicology
13	Dr J.Mohanraj	Associate Professor of Zoology	Marine Fisheries
14	Dr. D.Nagarajan	Associate Professor of Zoology	Marine Fisheries
15	Dr. K.Bhanumathi	Assistant Professor of Zoology	Aquaculture
16	Dr. V.Josephraj	Head and Associate Professor of Computer Science	Neural Network
17	Dr. S.Kannan	Head & Associate Professor of Commerce	Marketing
18	Dr V.Seenivasan	Associate Professor of Commerce	Personnel Management
19	Dr. G.Kasirajan	Associate Professor of Commerce	Finance

3.1.8 Efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students.

The institution renders support to attract the researchers of eminence to visit the campus and interact with the teachers and students by arranging guest lecturers of eminent personalities.

3.1.9 Percentage of Sabbatical Leave utilized by the faculty for research activities.

Sabbatical leave is not applicable to the Aided college teachers. But using UGC Faculty Development Program, faculties are encouraged to do

Ph.D. research work.

3.1.10 Details of the initiatives taken up by the institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community (lab to land)

The first INSPIRE Internship program at Kamaraj College, Thoothukudi-628003 was successfully conducted during Nov 29 to Dec 3, 2012. The second INSPIRE Science camp was conducted in our college during Nov 28 to Dec 2, 2013. The Inspire Internship program – 2014 was sanctioned to Kamaraj College, Tuticorin in July – 2014 with the support and goodwill of Department of Science And Technology, New Delhi, Govt. of India. The fund was released by DST in August 2014. Dr. G.Vanmathi, Asst. Prof of chemistry, Kamaraj College was the Organizer of this Science Camp too. The third INSPIRE Science camp – 2014 was conducted at Kamaraj College, Thoothukudi during Nov 27 to Dec 01, 2014. The objective of this camp is to attract the talented youth to the excitement and study of science at an early age and to help the country build the required critical resource pool for strengthening and expanding the Science & Technology system and Research & Development base. The timely fund release by DST and the active support by the Management of Kamaraj College, Thoothukudi, played a vital role in the conduct of this science camp. The participants were taken to the following Research Laboratories:

1. Central Marine Fisheries Research Institute, Thoothukudi.
2. NFC Zirconium Plant – Pazhayakayal, Tuticorin.
3. Research Laboratories in Kamaraj College, viz., Dept. of Zoology, Chemistry, Botany, Earth science and Maths.

The students gained a rare insight into the vistas of science through interaction with the eminent personalities directly. This has really inspired them towards Science and Research.

A Science and research motivation programme,” **Young student Scientific Programme**” was conducted for 20 days ,from 07-05-2014 to 26-

05-2014. This programme was sponsored by Tamil Nadu State Council for Science and Technology (Sanction order No. TNSCST/YSSP/VR/2013-2014 dated on 19.12.2013) The programme was organized by Dr. J. Nagarajan, Assistant Professor, Department of Zoology. Under this motivation programme 40 IX *th* Standard students from Government Panchayat schools and others schools, located in rural areas of Ramanathapuram and Thoothukudi Districts were selected, based on their performance in Science subject. They were given special training on science subjects such as physics, chemistry, mathematics, biology, environmental sciences and computer sciences by highly qualified faculty members of various colleges. The students were given theoretical instruction during morning sessions and the afternoons spent on practical work, where they allowed to work independently and field trip to different scientific institutions. During the end of the programme the participated students were divided into groups and made to work on special science and technology project in different disciplines.

Dr J.Poongodi, Associate Professor, Department of Physics organized a national seminar on “ Climate Change Impacts on Environment” on 4th and 5th April 2013 sponsored by Ministry of Earth science, New Delhi. This seminar creates awareness to the participants that Thoothukudi being a coastal area has potential for the production for the tidal energy than other places. In that seminar eminent researchers have submitted papers on the impact of various climatic changes on the environment.

Botany Department is organizing one day study tour for their students every year to visit Tropical Botanical Garden and Research Institute (TBGRI), Palode, Trivandrum to enhance their practical knowledge in the field of Tissue culture, Biotechnology and Medicinal plants.

3.2 Resource Mobilization for Research

3.2.1 Percentage of the total budget is earmarked for research.

Details of major heads of expenditure, financial allocation and actual utilization.

Our college contributes Rs. 5,000 every year for getting free access to UGC N - LIST e - resources to all our faculty members. Three percent of the total budget is allotted for the conduct of seminars to promote research climate. Rs.5,000/ is spent for the purchase of research journals every year.

3.2.2 Provision in the institution to provide seed money to the faculty for research. The amount disbursed and the percentage of the faculty that has availed the facility in the last four years.

Nil

3.2.3 The financial provisions made available to support student research projects.

Nil

3.2.4 Interaction of various departments/units/staff of the institute in undertaking inter-disciplinary research.- Successful endeavors and challenges faced in organizing interdisciplinary research.

Nil

3.2.5 Optimal use of various equipment and research facilities of the institution by its staff and students.

- a) Our college provides free access to UGC N-LIST e- resources which are used by our faculty.
- b) The staff members and the students are utilizing the equipments and the infrastructure facilities for the research work.
- c) Research journals in the Library are used by the students and the staff members.
- d) Uninterrupted power supply is provided for the smooth progress of research.

3.2.6 Special grants or finances from the industry or other beneficiary agency for developing research facility.

Nil

3.2.7 The support provided to the faculty in securing research funds from various funding agencies, industry and other organizations-Details of

ongoing and completed projects and grants received during the last four years.

By the efforts taken by the Research Committee, the following Major and Minor research projects were got by our college:

Major Research Projects funded by UGC, DAE, Ministry of Earth science

No	Name of the Faculty	Title of the Project	Period	Amount Sanctioned
1	Dr M.Sakthivel	Faltering of lobster juveniles for technology demonstration at selected coastal villages in Gulf of Mannar	2009 –12	Rs18, 58,196
2	Dr J.Mohanraj	Development of Technologies for hatchery production of Marine gastropods in Gulf of Mannar Island	2007-08 to 2011-12	Rs65,39,763
3	Dr M.Sakthivel	A portable FRP Carp Hatchery Technology: A successful adoption in adopted villages in Tuticorin District	2014-15 to 2016-17	Rs.17,63,100
4	Dr G.Vanmathi	Studies on Development of Electron Beam Treated Heterogeneous Catalysts suitable for Organic Synthesis	May 2012 – Mar 2015	Rs.23 Lakhs
5	Dr J.Mohanraj & Dr J.Poongodi	Monitoring and dissemination of data from the wave rider buoy and compare the physiochemical parameters along the Tuticorin coastal water.	2014-2017	Rs 12,03,840/=

Minor Projects:

No.	Name of the Faculty and funding agency	Title of the Project	Period	Amount Sanctioned (Rs)
1.	Mrs S.Kanagapraba	Investigation of Electronic, mechanical and elastic properties of some hydrogen storage materials	2013-15	Rs 4,00,000
2.	Dr J.Poongodi	Physio-chemical studies on molecular interaction of binary liquid mixtures at different temperature	2013-15	Rs1,81,000
3.	Dr M.Sakthivel	Fattening of Lobstar	2009-10	Rs 2,00,000

		Juveniles for technology demonstration at selected coastal villages in gulf of Mannar	2010-11 2011-12	
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3.3 Research Facilities

3.3.1 Research facilities available to the students and research scholars within the campus.

In our College, two departments namely Mathematics and Zoology are recognized research centres for Doctoral studies. In all the other UG Departments and Part-I Tamil department part-time research scholars are being guided by our research guides. Nineteen faculty members of our college are approved guides for PhD research work by M.S.University, Tirunelveli. 26 Ph.D, scholars are being guided by these approved guides. Two separate rooms are allotted for doing major research projects in our College. Internet facility is provided to these rooms. The library is equipped with research journals, Back volumes and e-Journals. Our college provides free access to UGC N-LIST e- resources to all our research scholars.

3.3.2 Institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research.

The institution plans, upgrades and creates infrastructural facilities to meet the needs of the researchers.

Plan

Our institution plans to upgrade PG Departments into Research Centres. Already the PG Department of Chemistry has applied for recognition as research centre for PhD programmes. Now they are awaiting the intimation from the MS University, Tirunelveli. There is also a plan to exalt the PG Commerce Department as a research centre.

Upgradation

The Department of Mathematics was upgraded into a Research Centre during the year 2014-2015.

Creation

For the major research project of Dr. G.Vanmathi, Assistant Professor of Chemistry, a separate air conditioned room with all necessary facilities is given. For the major project of Dr. J.Mohanraj, Associate Professor of Zoology, a separate room is allotted near the Principals' office and all the necessary facilities are provided in that room.

3.3.3 Special grants or finances received from the industry or other beneficiary agency for developing research facilities.

	Name of the faculty	Project Major/ Minor	Project Title	Agency	Year	Amount Rs in Lakhs
1	Dr J.Poongodi	Minor	Physico – Chemical studies on molecular interactions of binary liquid mixtures at different temperature	UGC	2013-15	2.0
2	Tmt S.Kanagapraha	Minor	Investigation of Electronic, mechanical and elastic properties of some hydrogen storage materials	UGC	2014-16	4.25
4	Dr G.Vanmathi	Major	Studies on Development of Electron Beam Treated Heterogeneous Catalysts suitable for Organic Synthesis	DAE-BRNS	2012-15	23.0
5	Dr M.Sakthivel	Major	Fattening of lobster juveniles for technology demonstration at selected coastal villages in Gulf of Mannar	DST - SEED	2009-12	18.6
6	Dr J.Mohanraj	Major	Development of Technologies for hatchery production of Marine gastropods in Gulf of Mannar Island	MES	2007-12	65.4
7	Dr M.Sakthivel	Major	A portable FRP Carp Hatchery Technology: A successful adoption in adopted villages in Tuticorin District	UGC	2014-15	17.6
8	Dr J.Mohanraj & Dr J.Poongodi	Major	Monitoring and dissemination of data from the wave rider buoy and compare the physiochemical parameters along the Tuticorin coastal water.	INCOIS	2014-17	12.03

3.3.4 The research facilities available to the students and research scholars outside the campus / other research laboratories.

All the Departments have linkages with other research centres, institutes and laboratories and are made available to the students and research scholars.

The Chemistry Department maintains a link with the School of Chemistry, Madurai Kamaraj University.

Collaborative Research activities

The Department of Atomic Energy (DAE-BRNS) Mumbai, has sanctioned Rs.23 lakh for executing research activities to G. Vanmathi, Assistant Professor of Chemistry, Kamaraj College, Tuticorin.

The objective of the project is to synthesize and modify various chemicals and life saving pharmaceutical drugs using microtron beam treated catalysts. It also aims to modify the process of synthesizing life-saving drugs.

Dr. Ganesh Sanjeev, Director, Microtron Centre, Mangalore University, Mangalore is the principal collaborator in the research programme. On the industries side, U.P. Senthil Kumar, senior vice-president, Research and Development, Orchid Chemicals and Pharmaceuticals Limited, Chennai interacted in the programme.

The Commerce Department is maintaining a link with the Research centre in Commerce, Scott Christian College, Nagercoil, for carrying out research.

The Department of Zoology has a link with the Research department of Zoology, V.O.C.College, Thoothukudi.

The department of Physics has a link with the Research department of Physics, St. Xavier College, Palayamkottai to do research..

A major project titled as “Monitoring and dissemination of data from the wave rider buoy and compare the physiochemical parameters along the Tuticorin coastal water” sanctioned to the Department of Zoology. Dr J.Mohanraj, Department of Zoology is the Principal Investigator & Dr J.Poongodi, Department of Physics is the co-investigator of this research project, which is carried out with a panel of advisory committee from INCOIS. The names of focal persons are given

below.

1. Dr T.M.Balakrishnan Nair, Head, Information Services and Ocean Sciences Group(ISG), INCOIS, Ocean Valley, Pragathi Nagar, Hyderabad-500 090
2. Dr R.Harikumar, Scientist-C, Information Services and Ocean Sciences Group(ISG), INCOIS, Ocean Valley, Pragathi Nagar, Hyderabad-500 090

3.3.5 Details on the library/ information resource centre or any other facilities available specifically for the researchers.

Library Resources

Details of Research Journals, Back volumes and Dissertations

S. No.	Nature of Resource	Nos.
1	Research Journals	57
2	Back Volumes	2661
3	Dissertations	275
4	Periodicals	139

Other facilities

- Very good laboratories and sophisticated instruments for doing research.
- Freedom to research scholars to come and work at any time.

3.3.6 The collaborative research facilities developed/ created by the research institutes in the college For ex. Laboratories, library, instruments, computers, new technology etc.

Collaborative Research activities

The Department of Atomic Energy (DAE-BRNS) Mumbai, has sanctioned Rs.23 lakh for executing research activities to G. Vanmathi, Assistant Professor of Chemistry, Kamaraj College, Tuticorin.

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The Department of Zoology has a link with the Research department of Zoology, V.O.C.College, Thoothukudi.

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- Dr R.Harikumar, Scientist-C, Information Services and Ocean Sciences Group(ISG), INCOIS, Ocean Valley, Pragathi Nagar, Hyderabad-500 090

3.4 Research Publications and Awards

3.4.1 Publication of research journal by the institute.

No.

3.4.2 Details of publications by the faculty and students:

➤ Publication by the faculty

Details of publications by our faculty, and publications listed in international database are given below:

Year	Total No. of faculty	No. of publications			Publication per faculty	No of publications listed in International Database
		National	International	Total		
2011 - 12	57	19	9	28	0.48	9
2012 - 13	56	24	15	39	0.7	15
2013 - 14	60	31	13	44	0.73	13
2014 - 15	62	10	5	15	0.24	5

Details of publications of our faculty with impact factors, h-index, and ICV are given below:

Year	No of Publications	No of Publications
		with Impact Factor
2011 – 12	28	2.0
2012 – 13	39	2.4
2013 – 14	44	2.8
2014 – 15	15	3.8

➤ Books Edited

S.No	Title of the Book	Editors / Author / Co author	Publishers	ISBN/ Month
1	Mathematical Physics –Part -1	Dr. J. Poongodi, Associate Professor of Physics	Tamilnadu Councils for Higher Secondary Education	-
2.	புழந்தமிழரின் பழக்கவழக்கங்கள்	Dr. A. Kanthasamy, Associate Professor and Head of Tamil	International Institute of Tamil Studies	No. 753, 2013
3.	Ecology and Conservation of Tropical Marine Faunal Communities	Dr. R. Sornaraj, Associate Professor and Head of Zoology	Private circulations	2013 Chapter 19

3.5 Consultancy

3.5.1 Details of the systems and strategies for establishing institute-industry interface.

- Third year UG and PG commerce students are taken to the industrial visit every year through which they are gathering the practical knowledge about various processes in an industry, personnel management and computer applications in Businesses.
- Third year Botany students are taken for study tour in which collection of different variety of plants is made which is very much useful for their laboratory experiments.
- Third year Zoology students are taken to ecologically important places for the purpose of studying the environmental conditions of the particular area and also to study the various types of eco-system. They are also taken to the poultry farms in order to study the architecture of the poultry, the varieties of birds reared in the farms, the different appliances employed in the farms, the various growing stages of both the layers and broilers.
- All the Physics students are taken to District Science Centre, Tirunelveli in which they understand many fundamental concepts of Physics.

3.5.2 Utilization of the Staff expertise and available facilities for consultancy services

Our college has a Consumer Club headed by Dr A.Asok, Associate Professor of Economics. This club has made an impression to the consumers that whenever they face a problem, the faculty of Kamaraj College may be consulted at any time free of cost.

3.5.3 Broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

Since the consultancy service is rendered by our College faculty at free of cost, there is no possibility for revenue generation. Further paid consultancy

service rendered by an aided college faculty is strictly prohibited by the Government

The consultancy offered by our college faculty is given below:

- i) Consultant for the maintenance of accounts in business establishments using Computerized accounting package (Tally 9.0)
- ii) Expertise of our college faculty has been used in the planning and development of various infrastructure of our entire sister institutions. Our teachers have helped in the establishment of laboratory in our sister school run by our management.
- iii) Parents living in and around Thoothukudi are getting expert advice from our College faculties for the higher studies of their children after completing Higher Secondary class.

3.5.4 The policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development

Nil

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 Promoting the institution-neighbourhood- community network and student engagement, contributing to good citizenship, service orientation and holistic development of students by the Institution.

Our College has seven NSS units enrolled with 700 student volunteers. The NSS programme officers used to arrange for a seven day special camp in the nearby villages. The students taking part in the special camps will be engaged in various social developmental activities like educating the illiterates, cleaning the canals, formation of roads etc. In the late evenings the students conduct cultural programmes which develop the communal harmony, national integration and abolition of drugs usage.

3.6.2 Institutional mechanism to track students' involvement in various social movements / activities which promote citizenship roles.

In our college there are 7 NSS units, two NCC units (Army wing and Naval wing), 1 Red ribbon club, 1 Blood donors club and 1 Road Safety patrol. The students enrolled in the above programmes are engaged themselves in various social activities like

- i) Traffic regulation during festivals.
- ii) Helping police and revenue officials during election.
- iii) Blood donation – Voluntary blood donation for inpatients.

3.6.3 Soliciting stakeholder perception on the overall performance and quality of the institution.

Informal feedback is received through various organizations connected with the college and management.

3.6.4 The extension and outreach programmes planned and organized by the institution. Budgetary details for last four years - the major extension and outreach programmes and their impact on the overall development of students.

Our college has seven NSS units in which there are 700 student volunteers. The NSS Programme Officers used to arrange for a seven day special camps in the nearby villages. The students taking part in the special camps will be engaged in various social developmental activities like educating the illiterates, cleaning the canals, formation of roads etc. Everyday night during these days students are conducting cultural programmes which will develop the communal harmony, national integration and abolition of drugs abuse.

3.6.5 Promoting the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/International agencies.

Each and every first year UG student is advised to take any one of the programmes like NSS, NCC (Navy), NCC (Army), RRC, YRC and Yoga prescribed by MS University, Tirunelveli in part five compulsorily. OD facility is provided to the teachers and students who are engaging themselves in the social developmental activities.

3.6.6 Details on social surveys, research or extension work undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society.

- The institute has made a conscious effort to promote social justice as a value in learning process and administrative interactions.
- The NSS programme officers used to arrange for a seven day special camp in the nearby villages. The students taking part in the special camps will be engaged in various social developmental activities like educating the illiterates, cleaning the canals, formation of roads etc.
- Every night the students conduct cultural programmes which will develop the communal harmony, national integration and abolition of drugs abuse.
- Students along with the college faculty have visited the orphanage, blind home etc.,

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution- the values and skills inculcated.

- The students are motivated to understand the present condition of the society with the help of extension activities.
- Students understood and realize their social responsibilities.
- Various training programmes organized by the programme officers have made an influence on the academic learning experience of the students.
- The communication skill, technical knowledge, leadership quality,

managerial skill, organizational skill and interpersonal relationship are enhanced among the students.

3.6.8 Involvement of the community in the reach out activities of the Institution - contribution to the community development. The initiatives of the institution that encourage community participation in its activities.

- The NSS volunteers of our college join hands with the nearby temple authorities in managing the crowd during major festival times.
- The NCC cadets of our college help the people during election time by collaborating with the local police.
- The teaching and non-teaching staff have rendered their services as Presiding Officers and Polling Officers during the public election.
- The college promotes community oriented programmes through NCC, NSS, YRC, RRC and RSP.
- TNPSC examinations are conducted in our college.
- AIDS awareness programme was conducted by NSS units.

The management has taken initiatives to achieve the following collaborative activities in extension services:

The local community is benefitted by the programmes conducted by NSS, NCC, YRC, RRC, RSP, and other forums. Some of the benefits are:

- a. Regular blood donations, Regular medical checkup, Traffic regulation during local festivals and Tree plantation.
- b. Local school boys are benefitted through the INSPIRE camp conducted by Dr G.Vanmathi Assistant Professor of Chemistry.

3.6.9 Details on the constructive relationships forged with other institutions of the locality for working on various outreach and extension activities.

The constructive relationship forged by our college with other

institutions for various extension activities are given below:

S. No.	Date	Extension Activity	In collaboration with
1	28.01.14	first aid and Anti plastic	NSS Unit of Kamaraj College
2	25.03.14	Campus Cleaning activities	NSS Unit of Kamaraj College
3	27.06.2014	Blood donation	Government Hospital, Thoothukudi
4	17.07.2014	Blood donation	Government Hospital, Thoothukudi
5	25.07.2014	Blood donation	Rengasamy Hospital, Thoothukudi
6	07.08.2014	Blood Doner's Day Rally	Thoothukudi
7	08.08.2014	Blood donation	Arulraj Hospital, Thoothukudi
8	09.08.2014	First aid one day camp	Kamaraj College
9	22.08.2014	Blood donation	Deiva Nursing Home, Thoothukudi
10	10.09.2014	Blood donation	Thoothukudi blood bank
11	24.09.2014	Blood Donation camp	Thoothukudi Medical College
12	02.10.2014	Field work at Sivan Temple	NSS Unit of Kamaraj College
13	15.10.2014	Rally on disaster Management	3(TN) Naval Unit NCC Tuticorin
14	25.10.2014	Voters awareness rally	Revenue Department, Thoothukudi
15	03.01.2015	Blood donation	AVM Hospital, Thoothukudi
16	06.01.2015	Blood donation	Government Hospital, Thoothukudi
17	13.02.2015	Blood donation Camp	Government Hospital ,Thoothukudi
18	14.02.2015	Visit for the Orphanage Home Children	NSS Unit 146 of our College
19	02.03.2015	Firing Camp	Aditanar College, Thiruchendur
20	06.03.2015	Women's Rally	Thoothukudi
21	18.03.2015	Blood donation	Veeramani Hospital

The above programmes induced the students to develop the social awareness, leadership quality and social responsibility. Finally it leads to the overall development of personality of the students.

3.6.10 Details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

NSS Programme awards

Nil

NSS volunteer award & achievement

Nil

NCC Awards

1. P.Jensi (TN/SW/B/38008) of unit 3 (TN) NU NCC, II place in Ship Modeling held at Naval Base , Karwar from 21 Dec 2014 to 1 Jan 2015.
2. J.Jenita (TN/SW/13/38007) Rank LC, of 3 (TN) Naval Unit NCC, won First Place in Drill Competition during the All India Annual Training camp for SW Naval cadets held at Indian Naval Academy Ezhimala, Kannur from 10 Dec to 21 Dec 2014.

3.7.1 Collaboration and interaction with research laboratories, institutes and industry for research activities.

Our college interacts with the following research laboratory, institutes and industries for research activities.

- V.O.C College, Thoothukudi
- Aditanar College of Arts and Science, Tiruchendur
- Manonmaniam Sundarnar University, Tirunelveli
- Alagappa University, Karaikudi
- Scott Christian College, Nargeroil
- Central Marine Fisheries Research institute, Thoothukudi
- Fisheries College and Research Centre, Thoothukudi
- Microtron radiation facility of Department of Atomic Energy at Mangalore University Dr. Ganesh Sanjeev, Director, Microtron Centre, Mangalore University, Mangalore.
- U.P. Senthil Kumar, senior vice-president, Research and Development, Orchid Chemicals and Pharmaceuticals Limited, Chennai.

➤ Department of Physics, St. Xavier College, Palayamkottai.

3.7.2 Details on the MoUs/collaborative arrangements with institutions of national importance/other universities/ industries/Corporate (Corporate entities) etc.

3.7.3 Details on the industry-institution-community interactions that have contributed to the establishment / creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories / library/ new technology /placement services etc.

Students of our college donate blood freely to Thoothukudi Government Hospital, AVM Hospital and Thanga Kannika Clinic, Thoothukudi.

3.7.4 Highlighting the names of eminent scientists/participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years.

National Conference organized by our college

Dr J.Poongodi, Associate Professor, Department of Physics organized a national seminar on “Climate Change Impacts on Environment” on 4th and 5th April 2013 sponsored by the Ministry of Earth Science, New Delhi. This seminar creates awareness to the participants that Thoothukudi being a coastal area has potential for the production for the tidal energy than other places. In that seminar eminent researchers have submitted papers on the impact of various climatic changes on the environment.

3.7.5 Linkages/collaborations actually resulted in formal MoUs and agreements. The activities and beneficiaries of the established linkages that enhanced and/or facilitated –

Nil

➤ **Extension**

S. No.	Date	Extension Activity	In collaboration with
1	28.01.14	first aid and Anti plastic	NSS Unit of Kamaraj College
2	25.03.14	Campus Cleaning activities	NSS Unit of Kamaraj College
3	27.06.2014	Blood donation	Government Hospital, Thoothukudi
4	17.07.2014	Blood donation	Government Hospital, Thoothukudi
5	25.07.2014	Blood donation	Rengasamy Hospital, Thoothukudi
6	07.08.2014	Blood Doner's Day Rally	Thoothukudi
7	08.08.2014	Blood donation	Arulraj Hospital, Thoothukudi
8	09.08.2014	First aid one day camp	Our College
9	22.08.2014	Blood donation	Deiva Nursing Home, Thoothukudi
10	10.09.2014	Blood donation	Thoothukudi blood bank
11	24.09.2014	Blood Donation camp	Medical College
12	02.10.2014	Field work at Sivan Temple	NSS Unit of Kamaraj College
13	15.10.2014	Rally on disaster Management	3(TN) Naval Unit NCC Tuticorin
14	25.10.2014	voters awareness rally	Revenue Department, Thoothukudi
15	03.01.2015	Blood donation	AVM Hospital, Thoothukudi
16	06.01.2015	Blood donation	Government Hospital, Thoothukudi
17	13.02.2015	Blood donation Camp	Thoothukudi
18	14.02.2015	Visit for the Orphanage Home Children	NSS Unit 146 of our College
19	02.03.2015	Firing Camp	Aditanar College, Thiruchendur
20	06.03.2015	Women's Rally	Thoothukudi
21	18.03.2015	Blood donation	Veeramani Hospital

3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/ collaborations.

- Our college is trying its level best to arrange for programmes with the collaborators.
- Our college is having two research centres. The available Supervisors acted as Co-guides that had resulted in an increase in the number of presentations and publications of research papers.

CRITERION-IV

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 PHYSICAL FACILITIES

4.1.1 Physical infrastructure and its optimal utilization

Our College has good infrastructure with modern facilities to create an effective teaching and learning atmosphere. Our college management gives utmost importance for the improvement of the infrastructural facilities available in the College campus to the maximum extent possible.

- Our College library is kept open from 9.00 a.m. to 4.30 p.m. on all working days and on summer vacation.
- Our College has one air-conditioned conference hall and an auditorium named as “**KAMARAJAR EDUCATIONAL HALL**” with 400 seating capacity.
- A smart class room with interactive board is available in the College for the interested faculties to handle the classes.
- In order to facilitate the transport for girl students and female Professors hailing from nearby villages one bus is operated by our management.
- A Canteen is available in our campus which fulfills the refreshments needed by the faculties and the students.
- The spacious playgrounds and the sophisticated sports equipment are effectively utilized by the students in the morning and evening.
- A book depot is available in our College to meet the stationery requirements of the students and the staff.
- For residential students Separate hostels with internet facility, TV, sports equipment, reading hall and purified drinking water are available.
- A separate rest room for girl students is available inside the college campus to relax during lunch hours.
- The PTA of our College sponsored for the construction of the vehicle parking facilities earmarked for both the staff and the students.
- A waiting hall for girl students is available in the campus in which the girls assemble together freely before going to the classes.

- Our management has the magnanimity to accept the offer of Our District Collector for the purpose of conducting meetings of various government departments in our College premises.
- Thoothukudi district Collector often use our College auditorium and other class rooms as polling booths for the purpose of conducting local body elections, Tamilnadu Assembly elections and Parliamentary elections
- There is a Vinayaga temple named as “**SHRIMUGA RAJA GANAPATHY**” in our campus.

4.1.2 Initiatives for enhancement of infrastructure to promote teaching-learning environment

The following are the initiatives for the enhancement of infrastructure.

- One smart classroom is available to facilitate effective and interactive learning. It is used for conducting subject-oriented meetings, seminars, conferences, guest lecturers etc.
- The teachers are given adequate training to handle smart classes.
- Kamarajar Educational hall, Airconditioned conference hall, Zoology and Botany laboratories, and the department of commerce are provided with LCD projectors.
- All the departments are provided with internet facilities.
- A public address system (PAS) is available which facilitate the announcement of various programmes easily without sending a circular.
- A generator with 75 KV capacities has been installed to manage the situation during severe power cuts. Further 2KV standby UPS units are installed in the administrative office. A mini generator is available in the department of Physics for uninterrupted teaching and learning.
- All the science laboratories are well equipped with modern sophisticated equipment to cater to the needs of the students and the researchers.
- A UV-Visible Spectrophotometer is available in Chemistry research lab allotted to Dr G.Vanmathi , Assistant Professor of Chemistry DAE-BRNS major research project.
- A Language Laboratory (ELL) is available to sharpen the communication skills in English of the students.
- A dedicated library with all latest general knowledge and competitive

examination reference materials is available.

4.1.3 Departmental Facilities

- All the departments are provided with separate staff rooms.
- The class rooms and the departments are fully furnished with proper lighting and ventilation facilities.
- Each department is provided with computers.
- Library has a reading room for both students and faculties with photo copying facility.
- Physical education department is provided with a staff room and sports equipment.
- Our College has a separate rest room for women teachers.
- A separate room is provided to NCC naval Wing.
- A Separate room is provided to IQAC

4.1.4 Infrastructure facilities for differently abled students

- Proper ramp facilities have been arranged in all the buildings for the convenience of the differently abled students.
- The institution motivates the students to take care of differently abled students in their campus life.

4.1.5 Residential facilities

- There are two separate hostels for girls & boys with modern facilities.
- All the rooms are furnished with electrical fans and cots.
- UGC funded RO facility for drinking water is available in all the hostels.
- Girls' hostel is provided with incinerators for hygienic disposal of napkins.
- The hostel toilets and bathrooms are tiled to ensure better sanitation.
- Details of the hostels and their occupancy are exhibited below

Table 4.1 Residential facilities for Boys and Girls

S.No	Name of the Hostel	UG	PG	Strength
1	Boys	15	-	15
2	Girls	27		27

Recreational Facilities

- Reading rooms with all the leading English and Tamil newspapers and magazines are available in both the hostels.
- Indoor and outdoor game facilities such as Chess, Carom, Table Tennis, Badminton and Volleyball are available.
- Computer system with internet facility is available.

4.1.6 Health Support Services

- Our College utilizes the service of qualified registered medical practitioners of AVM Hospital and Thangakanniga Hospital.
- All the aided teaching and non-teaching staff members are covered under Tamilnadu Government New Health Insurance Scheme.
- Maternity Leave with salary for a period of six months is provided to all women staff members.

4.1.7 Facilities for Sports and Cultural events

Sports facilities

A spacious area is earmarked for sports related activities in the campus. The following are the features of the sports facilities of our college:

- 200 mts standard track with six lanes
- Football ground.
- Basketball court with concrete flooring.
- Two Ball badminton courts
- One Kabaddi court
- One Volleyball court
- Gym with latest equipments.

Initiatives for the promotion of sports

- Sports day is conducted every year in which various competition are conducted for both boys and girls.
- Both teaching and non teaching staff are also encouraged to participate in the sports events.
- Outstanding students in sports and games are honored on the Sports Day.
- Special coaches and experts are arranged to train the students.

Facilities for Cultural Events

- The college has an auditorium named as “**KAMARAJAR EDUCATIONAL HALL**” with a seating capacity of 400. It is also furnished with LCD projector and audio system.

4.2 LIBRARY AS A LEARNING RESOURCE

Our College Library is located at first floor of the administrative building with total area of 5000 Sq Ft. It has sufficient ventilation and lighting. Our College management is taking every possible step to improve the facilities.

4.2.1 Composition of Library Advisory Committee

- The Library Advisory Committee is constituted with Principal as its President, Librarian as the Convener and all HOD’s as its members.
- The Committee gives suggestion for the betterment of our College Library.
- UGC grants for books and Journals for various departments is allocated by the Library Advisory Committee.
- Our College Library has a built up area of 5000 square feet.

4.2.2 Detailed provisions in the Library

- Reading room with spacious and convenient seating arrangement is available for both students and staff.
- A separate reference section is available for both boys and girls.
- The Library is kept open from 9.00 a.m. to 4.30 p.m. on all working days and also kept open during summer vacation.

Access to the library

- Directions are given to the users to access the collection by using Book location table provided in each and every row.
- Open access system is allowed to all the students and research scholars.
- For differently abled students, Our College Library assistants help them to use the Library resources.
- To ensure safety, the library is equipped with fire extinguisher.

Mode of access

- The library maintains a simplified Version of e-catalogue and printed catalogue for easy and convenient book search.
- Each student can borrow a maximum of ten books and retain them for a period of thirty days. If necessary the students are permitted to renew if the book is not reserved by another user. Students are also allowed to borrow a reference book and return the same on the next working day.
- The List of new arrivals is displayed on the notice board for a few days.
- Magazines display rack is available to facilitate the easy accesses of magazines and journals.

4.2.3 Details of the Library holdings

a) Print Holdings

S.No.	Types of holdings	No. Of. Collection
1	Books	41431
2	Magzines	30
3	Bacl volume Journals	Available
4	Journal	10
5	Thesis, Dissertation etc	600

Non-Print

70 CD-ROMS on various subjects are available at our library.

b) E-Resources

- Our College has been a member in the INFLIBNET – N-List Consortium since 12-10-2011.
- All the teaching staff members who are interested to use these facilities are provided with valid username and passwords to access the N-List.
- The teaching faculties of college are so magnanimous to permit the students for using this facility with the help of the password of the teachers.

d) Donated books

- Retired staff members, old students, management committee members and

other philanthropists have donated 1142 books to our Library for access to the students.

4.2.4 Tools deployed in the library

- Online Public Access Catalogue (OPAC).
- Printed catalogue
- Photocopying facility
- Internet facility.
- N-List (E-resources)
- Question bank.
- RO water

4.2.5 Deployment of ICT in the library

- Library is automated to facilitate lending and searching.
- Barcode technology is implemented
- Library has a printer, a scanner and a bar code Scanner.
- UGC –INFLIBNET N-List is available.

4.2.6 Details of usage

- Average number of walk-ins is 150 per day.
- Average number of books issued/returned 80 per day.
- Ratio of library books to students enrolled is 20:1
- Average number of books added per year - 536 books

No. of Books purchased in the last four years

Year	No. Books	Total Amount
2011 - 2012	700	Rs 2,80,050
2012 - 2013	484	Rs 1,53,764
2013 - 2014	245	Rs 1,29,504
2014 - 2015	717	Rs 3,15,681

4.2.6 Specialized services provided by the library

- Reference service.
- Photo copying facility.
- OPAC.

- Internet facility.
- e-resources downloading.
- Educational CDs.
- Bibliography compilation is available as catalogue.
- Guidance service is also given for the compilation of bibliography for research scholars.
- News paper clippings

4.2.7 Annual Library Budget and Expenditure

Library budget for books & printed journals

Year		No.of Books	Amount Rs
2011-12	Text books	687	1,63,700
	Reference Book	47	12,000
2012-13	Text books	601	1,54,139
	Reference Book	200	49,000
2013-14	Text books	1754	3,06,599
	Reference Book	122	36,500
2014-15	Text books	1420	4,14,235
	Reference Book	8	2800

Details of Expenditure on e-journals in Rs.

E-Journal	2011-12	2012-13	2013-14	2014-15
UGC Inflipnet – N-list	5000	5000	5000	5000

4.2.9 Feedback on Library service

- It is a usual procedure to receive the oral feedback from the users of the library about the facilities available, functioning attitude of the library staff. The Librarian gives much importance to these feedbacks and accordingly he makes necessary changes in the Library.

4.2.9 Infrastructural development in the last four years

The library is provided with the following infrastructural facilities:

- OPAC.

- Photo copying facility
- Internet facility.
- e-resources downloading.
- Educational CDs.
- RO water
- Automated software (Library manager)
- Bar-coding facilities.
- Bibliography compilation is available as catalogue.
- Fire extinguisher

4.2.10 Efforts for Better Utilization

Every year the first year UG and PG students are oriented about the Library services and motivated to use the facilities to the maximum extent possible.

4.3 INFORMATION TECHNOLOGY INFRASTRUCTURE

Information Technology (IT) is inevitable for all kinds of organizations. Our institution is also following a very good infrastructure of modern information technology which is very helpful for the innovative teaching and learning.

4.3.1 Comprehensive IT Policy

- Our College has a comprehensive IT policy to facilitate teaching, learning, research and administrative processes.
- The college has a network system throughout the campus with Wi-Fi facility.
- The administrative office is utilizing IT facility for recovery of data.
- Our College has a website which is updated regularly. It contains all necessary information about the courses, faculties and all other programmers. Our website address is www.kamarajcollege.ac.in

4.3.2 Details of the College's Computing facilities (hardware and software)

- Our College administrative office is functioning with seventeen computers and four network printers.

- A fax machine is also available in the Principal's room.
- The Library has four computer systems with library management software system called Library manager ver 7.7.
- The Library has three computer systems for internet browsing.
- Each department has a computer system with internet facility.
- IQAC have a computer system with internet facility and a printer.
- The college has adequate computing facilities to provide the students with hands-on training in computers.
- Separate computer labs are available in the Department of Computer Science, Department of Computer Applications and Mathematics. Totally there are 178 computers in our College.
- Browsing facility is available to the PG students for doing their projects works.
- Computing facility is also given in the IQAC, College office, the library and in the research centers.
- There are five LAN facilities in our College
- Availability of different types of printers is given in the following Table.

S.No	Type of Printer	Numbers
1	Laser	5
2	Dot Matrix	10
3	Colour Laser	1
4	All in one	4
5	Copier	5

LAN facility

- In our College we have five LAN facilities in administrative office, Self Financing office, B.Sc Computer Science Lab, MCA lab and M.Com (CA) lab.
- A total of 178 computer systems are available in the campus.
- 80 computer systems in the campus are equipped with high speed Broad band facilities provided by two BSNL Broad band modem and one AIRTEL modem.

Details of the Licensed Software

- Windows Server 2003 Standard Edition
- Windows XP Professional
- Microsoft Visual Studio 97 professional Edi.,(Version 5).
- Novell Netware 3.12.
- Windows ME.
- Windows 95
- Windows NT server 4.0.
- Microsoft Visual Basic 5.0.
- Microsoft FoxPro.
- Anti-virus software.
- MS office 2003 professional (IMF)
- Windows 2000 server.

Number of nodes / computers with internet facility: 80 Systems

Any other

- Professionally designed software “Library Manager” is used in the Library.
- Our college website is indigenously developed by College web team.
- A Public Addressing System (PAS) is available in all the departments and class rooms, which eliminates the paper work.

4.3.3 Plans and Strategy for deploying IT

- We have planned to provide internet browsing facility with 50 systems which enables the students to browse for their project work.
- There is plan to provide a room with 10 Computers with a motive of educating the non computer students about the usage of computers.
- The available computer systems in all the departments and in the Principal’s office are updated with the latest versions on the request of the concerned Heads of the departments.

4.3.4 Details on the ICT enabled classrooms/ learning

- The institution has one ICT enabled smart classroom and one Air conditioned conference hall.

- Botany and Zoology departments have interactive board facility to enhance creative teaching.
- English Language Lab offers intensive training in communication skills in English.
- Internet connections have been provided to all departments.
- There are five LCD projectors in the college.

4.3.5 Quality of Teaching and Learning with ICT enabled classrooms

- Our College has one ICT enabled smart classroom and one conference hall which make for creative teaching and learning.
- Student centered learning is encouraged using interactive boards.
- Webinars and virtual Labs.
- Online journals.

4.3.6 Training on ICT given to faculty

Nil

4.3.7 Maintenance of Computers and their accessories

All the computer systems, Copier machines, power back-ups, generators, electricity related problems; Complex hardware related problems are maintained by our management through on call system.

4.3.8 Services of National Knowledge Network

UGC-INFLIBNET N-LIST E-RESOURCE

- All our research guides and faculties are using UGC-INFLIBNET for their requirements in research.
- The institution has become a member of UGC-INFLIBNET N-LIST consortium in the academic year 2011-2012.
- The N-LIST provides access to all kinds of resources which include more than 5000 e – journals and more number of e-books by offering individual user ids and passwords.

4.3.9 Annual budget to update, deploy and maintain computers

The institution makes necessary provision of sufficient fund to meet the expenditure related the maintenance of computers every year. All the computer

systems, Copier machines, power back-ups, generators, electricity related problems; Complex hardware related problems are maintained by our management through on call system.

4.4 MAINTENANCE OF CAMPUS FACILITIES

Our College is gifted with good environment and best infrastructure which supports active teaching learning process. Our management is taking special care with enthusiasm for infrastructure maintenance and improvements. The available infrastructures in our College are commensurate with students' need and staff members' necessity. The management takes many initiatives to make every effort for further comprehensive infrastructural development.

4.4.1 Maintenance of campus

- The engineers design the buildings and supervise the construction work.
- Landscape designers look after the beautification of the campus.
- Exclusive gardeners maintain the garden.
- The trees in the campus are tagged with botanical name by the Department of Botany.
- Surveillance cameras are installed in the campus for security.
- College buildings are painted periodically.
- Contract laborers are deployed to maintain the cleanliness of the campus.
- Scavengers recruited by the management keep the campus neat and tidy.
- Fire extinguishers are periodically recharged and maintained for safety purposes.

4.4.2 Maintenance and repair

- Sophisticated Instruments are maintained by service experts on call.
- The institution makes necessary provision of sufficient fund to meet the expenditure related the maintenance of computers and other accessories every year. All the computer systems, Copier machines, power back-ups, generators, electricity related problems; Complex hardware related problems are mended by our management through on call system.

CRITERION-V

STUDENT SUPPORT AND PROGRESSION

5.1 STUDENT MENTORING AND SUPPORT

Our College is dedicated to provide all necessary supports to our students for their comprehensive development. The College has a well structured system for student support and mentoring.

5.1.1 Structure and functional characteristics of student supporting and mentoring system.

- A teacher is a friend, a Philosopher and a guide to the students. Our College has a student support and mentoring system which helps them in their all round development.
- The College Staff Council consists of the Principal as the chair person and all the Heads of the Departments, Librarian, Physical Education Director as members. The office Superintendent represents the non-teaching faculty as one of the members. The Council frequently meets and discusses the issues related to students and also the various supporting services available to the students.
- Senior faculties in each academic department will function as Teacher in-charge for individual classes. Teacher in-charge will look into the problems faced by the students in the concerned class and give proper counseling. They act as the mentor of the particular class.

Organization Structure of the Student Support System of the College:

1. Principal
2. College Council (All Heads of the department)
3. Head of the department
4. Teacher in-charge
5. Students

Whenever student(s) of a particular class encountered with a problem, the concerned teacher in-charge takes all necessary steps to solve the problem by

proper counseling. When the teacher in-charge is not able to handle the situation, he will report the matter to the concerned HOD. The HOD after consulting all other members of the department, will try to solve that problem. If the HOD feels it is not within his purview then the matter will be taken to the Principal. After a thorough discussion in the College staff council, Principal will settle the issues.



The college council apart from the settlement of student issues decides various amenities and facilities to be provided to the students and general policy decisions which is fundamental for creating a favorable teaching learning atmosphere.

The functional characteristics of the Student Support System

The institution provides the following functions towards a strong student support system:

- A Parent - Teachers meeting is conducted on the first day of first year UG students and the rules and regulation of the college towards the students are informed to the parents. After the PTA meeting, the Principal and the heads of the departments interact with the first year UG students and enlighten them the facilities available to them in the College and their departments.
- Orientation meeting for hostel students and parents is organized on the day of admission by the Warden - the Principal and Deputy Warden.
- Our College Librarian also gives orientation to the first year UG and PG students regarding the method of using the facilities available in the Library.
- ID cards are provided to students and they are advised them to wear it during College hours.
- Separate canteen facilities are available for boys and girls.
- In the hostel, students' mess is running under dividing system.
- Necessary assistance is provided to the students in opening accounts in Tamilnad Mercantile Bank situated in the College campus and getting ATM cards.

- Transport facilities to girl students.
- Distribution of various financial support schemes like scholarship and loan scholarships to the students.
- Encouraging the students to organize and participate in cultural programmes in our College and the other Colleges.
- Conducting Remedial Coaching classes, Coaching Classes for Competitive Exams, UGC-NET and CSIR.
- Provision for earning while learning for the benefit of students.

5.1.2 Provisions for academic mentoring

- The teacher in-charge nominated by the department acts as the mentor. He plays a vital role in solving the emotional and academic problems of the students.
- Every department organises a Parent-Teacher Meet at least once in a year, to evolve a rapport with the parents and to keep them informed of the academic performance of their wards.
- The teacher in-charge records the marks obtained by the students in the internal and university examinations. The teacher in-charge assesses the progress made by the students' academically.
- Slow learners are identified and remedial classes are arranged for them to cope with their studies.
- There are separate councils for boys and girls in all the academic departments. They provide counseling to the students for their social and psychological problems whenever there is a necessity. Men and Women Counselors' counsel the students as and when required.

5.1.3 Techniques employed for the enhancement of personality of students

The student support systems of the College offer various avenues for wholesome development of students to make them intellectuals with the aid of following cells:

- Placement Cell
- Career Guidance and Counseling Cell
- Quiz Club
- Yoga Club

- Photographic club
- Electronics club
- Humor club
- Environment club and
- Blood donation club

These clubs contribute to the development of the physical, economical, psychological, social and spiritual dimensions of the students.

Placement Cell

- A Placement Cell with a specially designated Placement Officer is successfully functioning.
- The main aim of placement cell is to improve the placement activities in the campus.
- The Placement Officer takes initiatives to interact with various industries and as a result campus recruitment takes place at regular intervals.
- The Placement Cell also helps the students to participate in various off-campus activities.
- Due to the sustained efforts of the Placement Cell, students' recruitment has improved every year.

Year	Name of the placement	Name of the student	
		M	F
2012-13	Sterlite Lab Technician	5	-
	Sterlite Account Assistant	4	-
	Agsar Paints sales Executive	12	-
	Sri Sai Safety & security service	15	-
2013-14	Sterlite Lab Technician	3	-
	Agsar Paints sales Executive	10	-
	Sri Sai Safety & security service	30	-
2014-15	Sterlite Lab Technician	5	-
	Spic Lab Technician	8	-
	Irusan Contractor Technical supervisor	2	-
	TAC accountants	4	-
	BMC Lab assistant	4	3

Career Guidance and Counseling Cell

1. The career guidance cell has stepped up its activities in the recent times. Induction of career awareness among the students to face the career explosion and empowerment of graduate to cope up with the emerging technological and social upheavals are envisaged in the activities of the cell.

2. The activities are aimed to inform the students about the competitive exams, options in higher education and placement opportunities. Counseling for further studies, seminars, camps and interviews are the features of the cell.
3. The training includes development of communication skills, quantitative aptitude, and problem solving techniques, logical reasoning and analytical reasoning, mock interviews, group discussion and brain Storming skills and imparts training on the skillful preparation of curriculum vitae.

Equal Opportunity Centre

We do not have EOC but the teacher in-charge takes care of the students to get Government scholarships and utilize other Government schemes.

Soft Skills and Personality Development Cell

- It aims at enhancing the soft skills and personality development for placement.
- Soft skills and Personality development programmes are arranged for students periodically.
- The students have soft skill segment such as spoken English, personality development, analytical skill and techniques to succeed in interviews and debate as off-class programmes.

Women Empowerment Cell

- Women Empowerment Cell is established to take care of the gender related issues of the girl students.
- The Cell regularly conducts gender sensitization programmes and counsels the girl students on their rights and privileges. The Cell seeks to instil confidence among the girl students.
- Conducts various Awareness programmes for women protection and guides them in getting Government scholarship.

5.1.4 Prospectus and Handbook - Sources of information

- The prospectus is updated annually and given to the applicants along with the application form.

- The prospectus offers details such as courses available, required qualification for admission, fee structure and the available student support systems.
- The prospectus and application forms are also available on the website, which can be downloaded by the applicants.
- The Handbook is also updated annually.
- In our College hand book the following information have been provided

- ✓ Rules and regulations
- ✓ Anti-ragging measures
- ✓ Important telephone numbers
- ✓ College Crest and Motto, Vision and Mission,
- ✓ History of the College
- ✓ Particulars of Management
- ✓ Faculty members
- ✓ Infrastructure and Learning resources
- ✓ Courses offered, Evaluation system, University examination Fee structures, Scholarships, Research facilities, General discipline, Co-curricular, Extra-curricular activities, Endowments, Department Associations, Hostel facilities,

5.1.5 Scholarships

- The students who do not receive any government scholarships are given financial aid from Students Aid Fund every year by the institution.
- The details of the scholarships given by the college management are furnished

The details of scholarships received for the past four years (2010-14) under various heads are furnished below

Year	Name of the Scholarship	No. of Beneficiaries	Amount (Rs.)
2011 – 2012	MBC.DNC	92	109027
	SC/ST	122	625833
	SC Christian	12	33045
	BC	429	532675
2012 – 2013	MBC.DNC	105	125741
	SC/ST	147	713616

	SC Christian	14	37195
	BC	452	554183
2013 – 2014	MBC.DNC	109	140438
	SC/ST	141	715274
	SC Christian	13	36647
	BC	432	593476
2014 – 2015	MBC.DNC	114	154987
	SC/ST	147	750843
	SC Christian	12	33878
	BC	445	609357

Financial assistance from the government agencies:

- ✓ Our College takes genuine efforts to make available more than 90 % record of the students with financial assistance in one form or other to ease their economic strain.
- ✓ Our College takes all necessary efforts to get scholarships from the Government of Tamil Nadu for all SC/ST students and economically backward BC, MBC and DNC students which are very essential to make them feel easy of learning

Year	Students aid fund		M.S.University Merit		Beedi Scholarship	
	No. of students	Amount	No. of students	Amount	No. of students	Amount
2011-12	29	5075	13	26650	2	6000
2012-13	26	5850	-	-	-	-
2013-14	30	6000	-	-	-	-
2014-15	25	6250	18	2500	-	-

Percentage of the students getting financial assistance from the Institution and Government

Year	Percentage of the students	
	Institution	Government
2011 – 2012	1.63	42.15
2012 – 2013	1.44	42.71
2013 – 2014	1.56	49.39
2014 – 2015	1.22	35.32

5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co- curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.

Our College encourages the students to take part in the extracurricular and co-curricular activities in the following manner.

- i) All the first year U.G. students are encouraged to join the extracurricular activities like NSS, NCC, Sports Youth Red Cross, Red Ribbon Club and Yoga club.
- ii) The students attending, Seminars / Conferences / Competitions are given leave facility and it will be treated as on Other Duty.
- iii) TA & DA will be provided to the students attending inter-collegiate competitions and district/state level tournaments.
- iv) NCC students who attend All India level special camps at New Delhi are appreciated and honoured during the celebration of Republic day in our College.
- v) Students who are the recipients of the best NSS volunteer award are also honoured on the College Day.
- vi) The special Internal Assessment examinations are conducted for the students who participate in extracurricular and co-curricular activities during the time of the Internal Test.

5.1.7 International Student Cell

In our College, we have no International Student Cell.

5.1.8 Support services for students

Support Services for Differently abled Students

- The Differently abled students are given ramp facilities for their class rooms.
- Our College motivates the other fellow students to take care of differently abled students in the College campus.
- Our College arranges differently abled Welfare Scholarships from Commissionerate an amount of Rs. 6000/- per annum, per student.

Support services for SC/ST, OBC and other economically weaker sections

Our College takes all necessary efforts to get scholarships from the Government of Tamil Nadu for BC, MBC, DNC and SC/ST students students which are very essential to ease their economic burden and make them feel easy of learning.

- With the financial aid from the UGC our institution organizes free coaching classes for entry level competitive examinations for Government services to the underprivileged students.
- Free coaching classes for NET/SET are organized under the financial assistance from UGC.
- The institution organises remedial coaching classes for the slow learners off the class hours. The UGC provides funds to support the cause.
- The institution provides the following support services and facilities to the SC /ST, BC and economically weaker students.
- Admission for BC/MBC/DNC and SC/ST/ students is as per the Government reservation Policy. The details of students admitted to the College during the last four academic Years are given below:

Categories	2011-2012		2012-2013		2013-2014		2014-2015	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	66	61	56	62	43	55	43	59
ST	1							
BC	290	285	247	259	285	265	370	320
General	6	2	5	7	6	4	5	10

The institution offers financial support services as student-aid-fund from management fund.

Number of economically weaker students who were given the Institutional and Government scholarship is given below

Type of Scholarship	2011-12	2012-13	2013-14	2014-15
Institutional Scholarship				
Student-Aid- Fund	29	26	30	25
Management Fund				
Government Scholarship				
SC Scholarship	134	161	154	159
BC	429	452	432	445
MBC	92	105	109	114
Indira Gandhi P.G Scholarship for single girl child				
Handicapped				
Beedi Scholarship	2			
Minority Scholarship	-			
Farmer Scholarship				
Chief Minister award scholarship				
TET	-			
MSU	13	7	21	18
UGC XI Plan Merged scheme	-			

Support services for students to participate in various competitions/ conferences in India and abroad

- The students attending Seminars / Conferences / Competitions are given leave facility and it will be treated as on Other Duty.
- Information on students' Competitions/Conferences/cultural events from other Institution is conveyed to students through their departments. It also provides faculty assistant when they participate in the events.

Support services for health care

- Our College provides centralized health services to all teachers and students. A health Centre and doctors on – call service is provided. The College maintains tie up with the nearby hospitals given below.
 1. M/s.Rajam clinic
 - 2.M/s.Thanga kanikka Hospital
 3. AVM Hospital
- Physical Education Department has first aid box for minor ailments.

Support services for skill development

- ❖ The career guidance cell has stepped up its activities in the recent times.

Induction of career awareness among the students to face the career explosion and empowerment of graduate to cope up with the emerging technological and social upheavals are envisaged in the activities of the cell.

- ❖ The activities are aimed to inform the students about the competitive exams, options in higher education and placement opportunities. Counseling for further studies, seminars, camps and interviews are the features of the cell.
- ❖ The training includes development of communication skills, quantitative aptitude, problem solving techniques, logical reasoning and analytical reasoning, mock interviews, group discussion and brain storming skills and imparts training on the skilful preparation of curriculum vitae.
- ❖ The institution has a separate Placement Cell with a placement officer.
- ❖ Language Lab is established for enhancing communicative skill in English
- ❖ The Career Guidance Cell (CGC) of our institution highlights the various avenues for higher education.

Support services for slow learners to avoid dropouts

- Our College has a very less dropout ratio, that too because of getting employment even before the completion of the course. For example appointment of students in Police department, Indian Army, Navy, etc.
- If any student happens to discontinue the study other than the above reasons, the class teacher in-charge provides necessary counseling for making the student to continue the learning.
- For the purpose of creating better understanding, bilingual remedial coaching is given to the slow learners.

Support services to expose the students to other institutions of higher learning

- The CGC encourages the students to take entrance examinations to pursue higher learning in reputed institutions.
- Students are informed about the avenues of higher learning through department associations.
- Post graduate students are encouraged to write Competitive examination to get research scholarships.

5.1.9 Guidance / coaching classes for UGC- NET / CSIR-NET / SET and other Examinations

- Our College organized Coaching classes for UGC/CSIR-NET/SET for PG students with financial assistance from UGC.
- For the purpose of helping the students, preparing for such examinations our College Library makes available plenty of reading materials.
- All the question papers of various competitive examinations are collected and placed in the library for the benefit of the students.
- Our College is very particular in helping the students for the preparation for the competitive examinations and hence a separate a section has been provided in the general library for displaying standard journals and other important magazines
- Free coaching classes are organized by the placement cell for entry level competitive examinations for Government services under the financial assistance from UGC.

Coaching classes for Competitive Examinations 2011-12

S. No	Date	Coaching classes for Competitive Examinations	Total No. of participants
1	02.03.2011 To 08.04.2011	THE CONDUCT OF NET / SLET COACHING TO STUDENTS under U.G.C. XI Plan Merged Schemes	16
2	31.03.2011 To 08.04.2011	THE CONDUCT OF COACHING CLASS FOR ENTRY IN SERVICES FOR SC/ST/OBC (NON-CREAMY LAYER) & MINORITIES under UGC XI-PLAN MERGED SCHEMES	52
3	27.07.2011 To 30.09.2011	THE CONDUCT OF COACHING CLASS FOR ENTRY IN SERVICES FOR SC/ST/OBC (NON-CREAMY LAYER) & MINORITIES under UGC XI-PLAN MERGED SCHEMES	379
4	20.07.2011 To 28.09.2011	THE CONDUCT OF NET / SLET COACHING TO STUDENTS under U.G.C. XI Plan Merged Schemes	14
5	08.09.2011 To 07.10.2011	THE CONDUCT OF REMEDIAL COACHING FOR SC/ST/OBC (Non Creamy Layer) and MINORITIES under U.G.C. XI Plan Merged Schemes	225
6	22.12.2011 To 03.04.2012	THE CONDUCT OF COACHING CLASS FOR ENTRY IN SERVICES FOR SC/ST/OBC (NON-CREAMY LAYER) & MINORITIES under UGC XI-PLAN MERGED SCHEMES	485
7	26.12.2011 To 10.04.2012	THE CONDUCT OF NET / SLET COACHING TO STUDENTS under U.G.C. XI Plan Merged Schemes	118
8	21.01.2012 To 17.04.2012	THE CONDUCT OF REMEDIAL COACHING FOR SC/ST/OBC (Non Creamy Layer) and MINORITIES under U.G.C. XI Plan Merged Schemes	36

Coaching classes for Competitive Examinations 2013-14

S. No	Date	Coaching classes for Competitive Examinations	Total No. of participants
1	19.07.2012 To 12.09.2012	THE CONDUCT OF NET / SLET COACHING TO STUDENTS under U.G.C. XI Plan Merged Schemes	20
2	26.12.2012 To 17.04.2013	THE CONDUCT OF NET / SLET COACHING TO STUDENTS under U.G.C. XI Plan Merged Schemes	20
3	18.02.2013 To 08.04.2013	THE CONDUCT OF REMEDIAL COACHING FOR SC/ST/OBC (Non Creamy Layer) and MINORITIES under U.G.C. XI Plan Merged Schemes	27
4	07.01.2013 To 22.02.2013	THE CONDUCT OF COACHING CLASS FOR ENTRY IN SERVICES FOR SC/ST/OBC (NON-CREAMY LAYER) & MINORITIES under UGC XI-PLAN MERGED SCHEMES	210

Coaching classes for Competitive Examinations 2013-14

S. No	Date	Coaching classes for Competitive Examinations	Total No. of participants
1	24.07.2013 To 08.10.2013	THE CONDUCT OF NET / SLET COACHING TO STUDENTS under U.G.C. XII Plan Merged Schemes	19
2	11.02.2014 To 04.04.2014	THE CONDUCT OF COACHING CLASS FOR ENTRY IN SERVICES FOR SC/ST/OBC (NON-CREAMY LAYER) & MINORITIES under UGC XII-PLAN MERGED SCHEMES	583
3	23.12.2013 To 03.04.2014	THE CONDUCT OF NET / SLET COACHING TO STUDENTS under U.G.C. XII Plan Merged Schemes	35

Coaching classes for Competitive Examinations 2014-15

S. No	Date	Coaching classes for Competitive Examinations	Total No. of participants
1	04.09.2014 To 10.10.2014	THE CONDUCT OF COACHING CLASS FOR ENTRY IN SERVICES FOR SC/ST/OBC (NON-CREAMY LAYER) & MINORITIES under UGC XII-PLAN MERGED SCHEMES	270
2	24.06.2014 To 14.10.2014	THE CONDUCT OF NET / SLET COACHING TO STUDENTS under U.G.C. XII Plan Merged Schemes	20

3	10.09.2014 To 16.10.2014	THE CONDUCT OF REMEDIAL COACHING FOR SC/ST/OBC (Non Creamy Layer) and MINORITIES	15
4	17.12.2014 To 07.04.2015	THE CONDUCT OF NET / SLET COACHING TO STUDENTS under U.G.C. XII Plan Merged Schemes	20

The outcome of these efforts

- Many of our students are appointed by the Commercial Banks and other government departments.
- Many of our students attended Tamil Nadu Common Entrance Test (TANCET) to pursue higher studies in reputed institutions.

5.1.10 Policies for enhancing student participation in sports and extracurricular activities

Physical education director takes utmost care and interest in bringing the students with excellence in sports when they are admitted under sports quota.

Strategy

- Our College gives priority to the students coming from higher secondary classes who have proficiency in various sports activities during admission.
- Our College provides complete academic flexibility for sports students so as to enable them to represent our College effectively in the competitions at various levels.
- Physical education director and his team train the sports persons throughout the year to achieve desired levels of excellence. We list out the achievement of our Players for the past four years.

Sl. No	Level	2011-12	2012-13	2013-14	2014-15
1	Intercollegiate level	100	120	132	140
2	Inter zonal level	22	26	28	20
3	Inter University level	3	5	4	4
4	State Level	1	2	1	2
5	National Level	3	5	4	4

5.1.11 Institutionalized mechanism for placement

- Our College has a Placement Cell.
- It arranges campus interview in which the nearby reputed companies are conducting interview for our students.
- Our students are encouraged to participate in the interviews conducted by other companies outside the College campus.
- The placement cell gives training to our students to prepare well designed curriculum vitae Successful entrepreneurs are invited to share their experiences with our students which motivate them to emerge as entrepreneurs.

5.1.12 Students Placements

Our College takes all necessary efforts through the Placement Cell in giving effective training to the students to get employment in reputed companies. The number of students placed during the campus interviews for the last four years are shown in 5.1.3

5.2 STUDENT PROGRESSION

Our College has very good academic record from the day of inception. New students are coming to our College for admission with so many imaginations about their prosperous future. Our College imparts sufficient coaching to them which leads to the achievement of many ranks in the university level by our College students.

5.2.1 UG and PG pass percentage

- Student progression is monitored by several means. Programme-wise success rate is one such yard stick for measuring the student progression.
- Undergraduate and Postgraduate pass percentage of the students is collected and furnished in the following table with the number of University rank

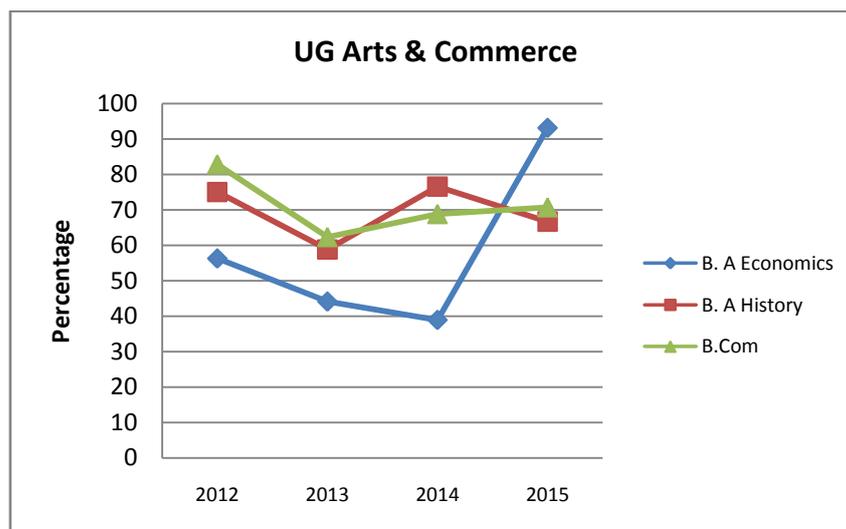
holders.

UG and PG Pass Percentage and University Rank holders in the last FOUR Years

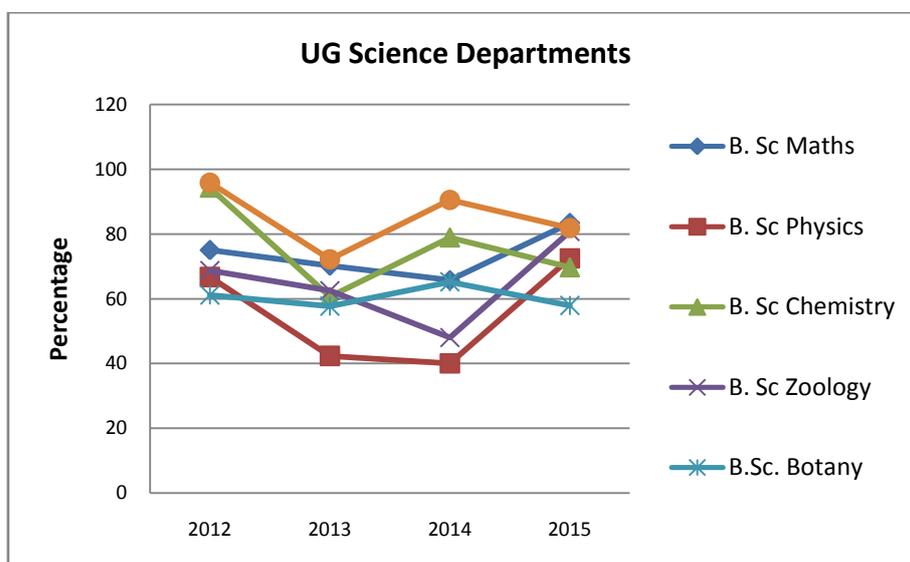
	UG COURSES		PG COURSES	
	Pass %	University rank Holders	Pass %	University rank Holders
2011-2012	74.26	10	83.70	4
2012-2013	65.30	8	84.46	3
2013-2014	55.44	11	81.61	1
2014-2015	54.71	Awaiting	88.88	Awaiting

Programme-wise result analysis for the past Four years is given in the following table.

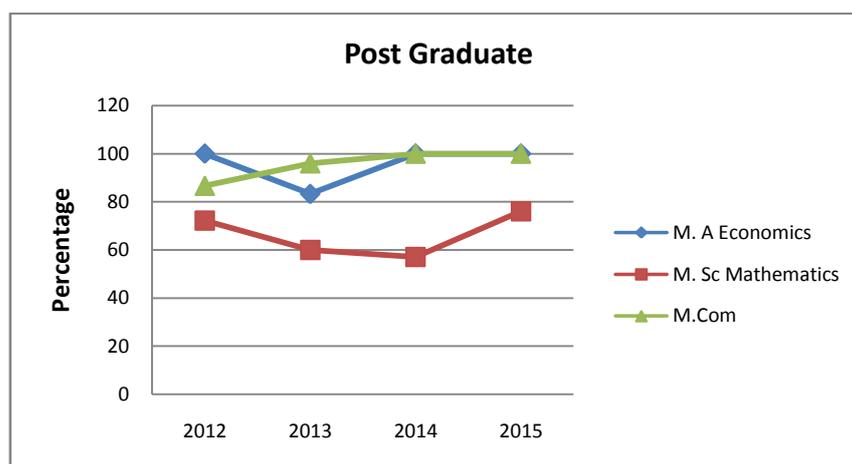
For Arts and Commerce



For UG Science Department

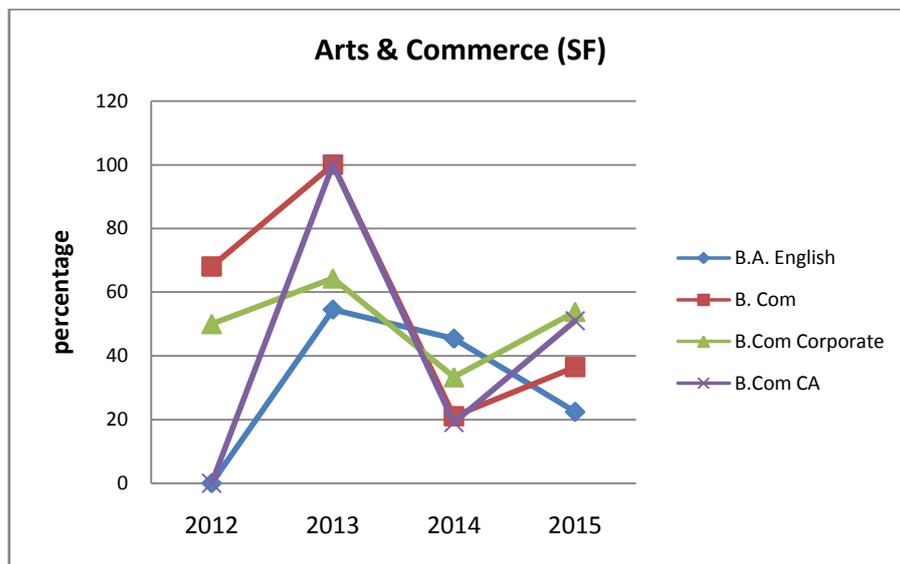


For Post graduate department



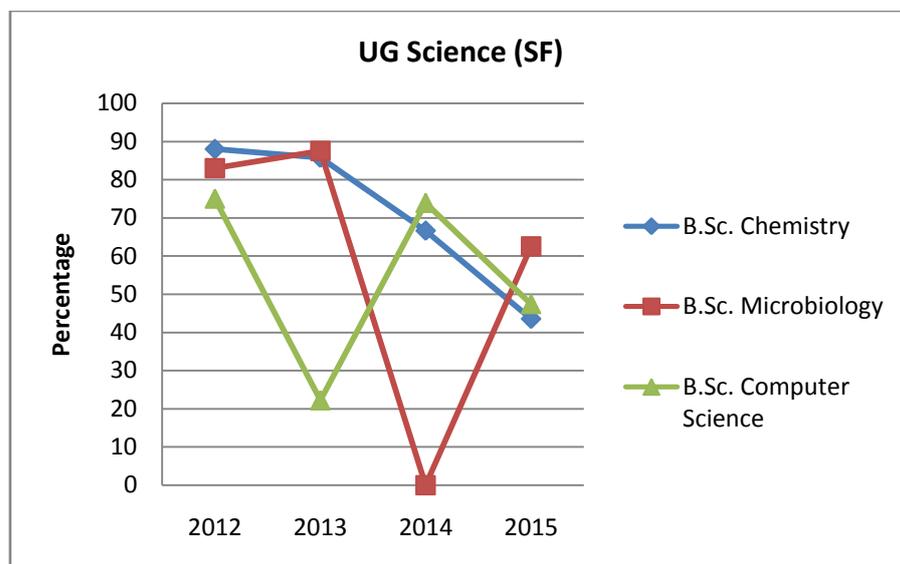
FOR SELF FINANCING COURSES

Arts and Commerce



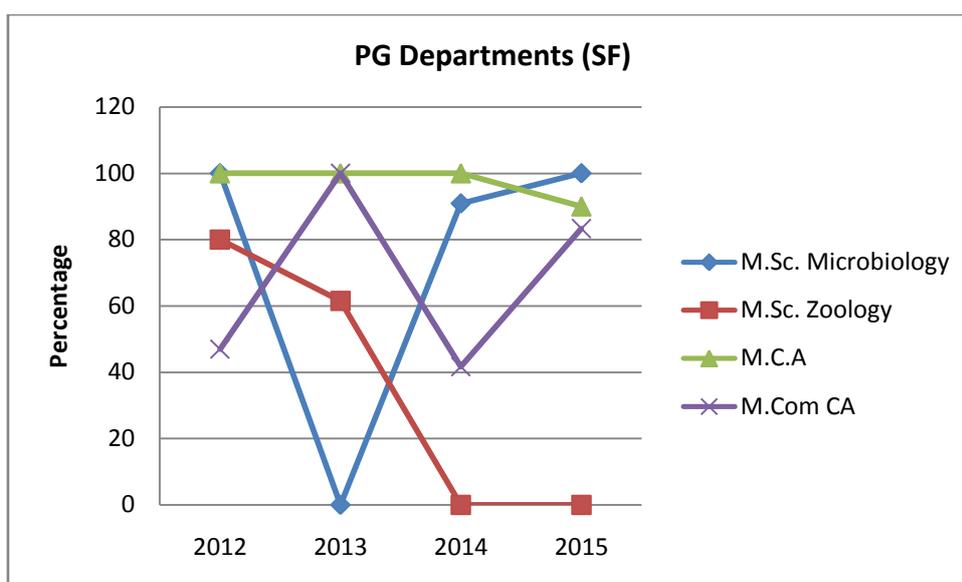
Note: The above graph shows 0% of pass for BA (English) and B.Com (CA) because the number of students in the year 2012 is nil.

For UG science



Note: The above graph shows 0% of pass for B.Sc (Microbiology) because the number of students in the year 2014 is nil.

For PG



Note: The above graph shows 0% of pass for M.Sc (Microbiology) in the year 2013 and for M.Sc (Zoology) in the years 2014 and 2015 because the number of students is nil.

Programme	April 2012	April 2013	April 2014	April 2015
Aided Courses				
B. A Economics	56.25	44.10	38.90	93.10
B. A History	75.00	58.80	76.50	66.66
B. Sc Maths	75.00	70.20	65.70	83.33
B. Sc Physics	66.67	42.30	40.00	72.41
B. Sc Chemistry	94.28	60.60	78.90	69.70
B. Sc Zoology	68.75	62.50	48.00	80.76
B.Sc. Botany	61.11	57.70	65.20	57.89
B. Sc Computer Science	95.80	72.20	90.50	81.81
B.Com	82.80	62.30	68.80	70.68
M. A Economics	100.00	83.30	100.00	100.00
M. Sc Mathematics	72.20	60.00	57.10	82.3
M.Com	86.70	96.00	100.00	100.00
Selffinancing Courses				
B.A. English	-	54.50	45.40	22.40
B.Sc. Physics	-	-	-	-
B.Sc. Chemistry	88	85.70	66.60	43.50
B.Sc. Microbiology	83	87.50	-	62.50
B.Sc. Computer Science	75	22.20	73.90	47.40
B. Com	68	100.00	21.00	36.40
B.Com Corporate	50	64.3	33.30	53.80
B.Com CA	-	100	19.00	51.00
M.Sc. Microbiology	100	-	90.90	100
M.Sc. Zoology	80	61.5	-	-
M.C.A	100	100	100	90.00

M.Com CA	47	100	41.7	83.30
M.Phil Commerce	-	100	-	-
M.Phil Mathematics	-	66.7	-	-

5.2.2 Students progression to higher education or employment

After completing their PG degree course many students do B.Ed, M.Phil., degree courses and some of the students have got placements in various Public or Private concerns. Nearly 10% of the students from UG classes prefer to do PG courses in our College itself.

5.2.3 Programme-wise completion dropout

- Our college has very less dropout ratio, that too because of getting employment even before the completion of the course. For example appointment of students in Police department, Indian Army, Navy, etc.
- The minimum dropout that happens in various courses in the institution is due to reasons other than learning: getting employed, health, marriage, transfer of the jobs of parents etc. The programme-wise details of dropout rate is computed and exhibited in the Table

Courses	2011-12			2012-13			2013-14			2014-15		
	A	L	DR	A	L	DR	A	L	DR	A	L	DR
Aided Courses												
B.A. History	44	10	0.23	42	6	0.14	45	5	0.11	44	1	0.02
B.A. Economics	40	4	0.1	38	2	0.05	40	6	0.15	40	2	0.05
B.Com	64	3	0.05	62	4	0.06	62	-	-	64	-	-
B.Sc. Mathematics	39	4	0.10	38	2	0.05	40	1	0.03	40	1	0.03
B.Sc Physics	30	5	0.17	31	3	0.1	32	4	0.13	32	3	0.09
B.Sc. Chemistry	44	6	0.14	36	3	0.08	38	4	0.11	40	-	-
B.Sc Advanced Zoology & Biotechnology	32	7	0.22	31	5	0.16	32	4	0.13	32	2	0.06
B.Sc Plant Biology & Biotechnology	32	9	0.28	29	10	0.34	32	-	-	32	-	-
B.Sc. Computer Science	24	2	0.08	24	2	0.08	24	1	0.04	24	-	-
M.A. Economics	15	1	0.07	15	1	0.07	14	2	0.14	14	5	0.36

M.Sc. Mathematics	20	1	0.05	20	1	0.05	19	2	0.11	20	-	-
M.Com	30	1	0.03	30	1	0.03	30	3	0.1	30	-	-
Un Aided Courses												
B.A. English	64	9	0.14	50	1	0.02	43	1	0.02	56	1	0.02
B.Sc Physics	-	-	-	-	-	-	-	-	-	32	3	0.09
B.Sc. Chemistry	24	3	0.13	24	1	0.04	22	-	-	24	-	-
B.Sc. Microbiology	-	-	-	8	-	-	27	6	0.22	31	1	0.03
B.Sc. Computer Science	24	1	0.04	19	-	-	22	-	-	24	-	-
B.Com	49	6	0.12	46	2	0.04	48	2	0.04	50	-	-
B.Com Corporate Secretary Ship	31	7	0.23	45	6	0.13	45	-	-	50	-	-
B.Com Comp. Application	64	6	0.09	56	3	0.05	44	1	0.02	50	1	0.02
B.C.A.	-	-	-	-	-	-	-	-	-	24	1	0.04
M.Sc. Zoology	13	-	-	12	-	-	-	-	-	-	-	-
M.Sc. Microbiology	-	-	-	-	-	-	5	-	-	-	-	-
M.C.A.	12	-	-	10	-	-	12	2	0.17	7	1	0.14
M.Com Computer Application	30	2	0.07	9	-	-	6	-	-	21	1	0.05
M.Phil Commerce	-	-	-	11	-	-	-	-	-	-	-	-
M.Phil. Mathematics	-	-	-	13	-	-	-	-	-	-	-	-
M.A. English	-	-	-	-	-	-	-	-	-	25	2	0.08
M.Sc. Chemistry	-	-	-	-	-	-	-	-	-	7	-	-

A- Admitted, L – Left, DR- Dropout rate

1.2.3 Students appeared/qualified for high level examinations (UGCCSIR-NET, UGC- NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central / State services, defense, Civil Services, etc).

Nil

Details regarding the number of Ph.D. theses

- Our College is having recognized research centres in Zoology and Mathematics. Our College feels proud that we have produced 26 Ph.D. in Science and Arts. The details of Ph.D. theses awarded and successfully accepted in the last four years are enumerated below:

- **No. of Ph.D. thesis awarded in the last Four years**

Department	2011-12	2012-13	2013-14	2014-15
Tamil	3	2	2	3
Mathematics	1		-	1
Zoology	5	2	2	2
Economics	-	-	1	-
Computer Science	-	-	1	1
Total	9	4	6	7

1.3 STUDENT PARTICIPATION AND ACTIVITIES

In our College various Associations, Cells and Clubs are working efficiently which encourage the students to take part in co-curricular and extracurricular activities. Our students are very eager and interested in participating in various events at College, University, State and National level.

5.3.1 Student Participation in Physical education

- The students actively participate in various sports and games.
- Our College provides both indoor and outdoor games to our students.
- Indoor games include Chess, Table Tennis and Carom.
- Outdoor games include Track and Field events, Football, Basketball, Kho- Kho, Kabaddi, Ball Badminton, Volleyball and Cricket.
- The institution has produced National, State and District level athletes and players.
- The college helps the District Association in organizing district leagues and Inter-state matches by hosting them.

5.3.2 Student Participation in Extracurricular Activities

- The college encourages the students to organize various cultural events within the college and to participate in competitions outside the college also.

- The college also provides opportunities for the students to expose their various skills such as Folk Arts, Instrumental Music, Literary talents, Classical and Western Dance, etc
- All the students at the UG level join activities like NSS, NCC, Consumer Clubs and Sports to accomplish Part V of the curriculum.
- Consumer club of our college conducts Consumer Rights Protection awareness programme.
- The NCC of our college provides several voluntary and intensive Skill Based programmes to the Cadets.
- Our College has seven NSS units; Five for Boys and Two for Girls. It organizes awareness programmes and cleaning programmes.
- Students are also actively involved in club activities like College Consumers' Club, Red Ribbon Club and Youth Red Cross. Under these forums, many awareness camps, seminars, trainings and blood donation camps are organized.
- Our College Youth Red Cross Society was recognized and awarded for Best Performance in Youth Red Cross Movement by Indian Red Cross Society.

5.3.3 Awards and achievements of students in the last four years

The noteworthy participation of our students in the field of sports and games for the last four years is furnished in the following table.

2011 – 2012

State Players	- C.Rajaguru Vikraman, I.B.Sc. Mathematics - Taekwando
University blues	- V.Francis Wilson, III B.Sc., Computer Science- Basket ball R.Muthu Mariappan, II.M.Com.(CA) – Football. P.Sivagnanavalli – I.M.Sc. Mathematics – Basket ball
District Players	- B.Ravikumar, III.B.Com., - Volleyball M.Saranya – I.B.Com. – Volleyball.

P.Maragatharani – II.B.Sc., Mathematics –
Volleyball.

P.Sivagnanavalli – I.M.Sc., Mathematics –
Basket ball

2012 – 2013

University blues – N. Nanda Pradeesh, II B.Sc (Comp. Science) – Chess

R. Raja Sekar, II M.Com (CA) - Cricket

P. Sivagnanavalli, II M.Sc. (Maths) – Basketball

District Players - B.Ravikumar, I M.Com (CA) - Volleyball

P. Maharaja, II B.A.(Eco) – Volleyball

Samuel Raj, II B.Sc., (Comp. Science) - Volleyball

M. Arulanandam, I B.Sc (Chem) - Volleyball

Saranya, II B. Com - Volleyball

R. Anand, I B.A., (Eco)- Volleyball

2013 - 2014

University blues – K. Samuel Raj, III B.Sc., (Comp. Science) - Volleyball

State Player - K. Jhonson, II B.com- Wrestling

District Players - P. Maharaja, III B.A.(Eco) – Volleyball

P. Samuel III B.Sc., (Comp. Science) - Volleyball

K. Jhoson III B.Com – Kabadi

K. Kannipriya – II B.Sc., (Zoology) - Athletic

- Our students P. Vetriventhan of III B.A Eng and K. Mathan Kumar of II B.Com. (C.A.) won the match in Madurai Kamaraj University ‘C’ Zone Table Tennis Tournament held at K.C.C Kodaikanal(2010 – 11).
- Our College Football team has participated in the Madurai Kamaraj University ‘C’ Zone Football Tournament held at Anandar College, Karumathur.
- D. Arivazhagan of II M.Com. has been selected for Inter-zone (2011-12).
- Our student C. Balaji of III B.Sc. (C.S) selected for south zone Inter-University Tournaments held at Mangalore University, Mangalore (2012 – 13).
- Our College Chess team has participated in the Madurai Kamaraj University

‘C’ Zone Chess Tournament held at Madurai Kamaraj University, Madurai.

- S. Hariharan of I-M.A. English has been selected for Inter-zone Chess tournament (2013-14).
- Our College has conducted Madurai University ‘C’ Zone Sports and Tournaments, Five consecutive times.
- Fine Arts Club motivates and encourages the students to take part in several cultural competitions. They have won many prizes. The students have won as the District level winner for their outstanding exhibition of talents in the University Youth Festival (2013-2014).
- The NSS units of our college are the outstanding performers in Madurai Kamaraj University. A dedicated team of program officers and student volunteers render tireless social service.
- The NCC unit of our college creates an imprint in the track record of our institution.
- The NCC cadets perform impressively at various national level events. Some of them are highlighted below:

Sl. No	Year	Name of the Cadet	Activity	Place
1	2014-15	S. Baskar	All India Trekking	Bihar
2	2014-15	A. Vijayakumar	TSC	New Delhi

5.3.4 Feedback on support services

- The Institution collects feedback from the students through pre-structured appraisal form only from the year 2014-15.
- Feedback forms are collected from the students and analyzed carefully. As a result necessary remedial measures are taken by the Principal in consultation with College staff Council.
- This good practice is followed in the institution to strengthen the commendable services rendered by the student support system in our campus.
- It is also used to rectify the drawbacks, if any, in the student support services and for further improvement.

5.3.5 Feedback from graduates and employers

No such system is followed

5.3.6 Student involvement in publishing College magazine

For the past four years we have not in print the College magazine. But it is necessary to inform you that we published the College magazine up to 2004 every year continuously.

5.3.7 Constitution of Student Council

In our College we have no student Council.

5.3.8 Major activities of Students Council

Any additional information regarding Student Support and Progression

- A prayer song is played in our College by 9.30 am before the commencement of regular classes through a public address system to enhance the spiritual value of the students.
- Students are permitted to use laptops in the campus for the academic purposes denoted by the Tamilnadu Government.
- The campus has a separate Student Canteen which provides quality food at competitive rate.
- Students' Book depot is available in the campus for the supply of stationery to our students.
- Photocopying facility is available in Library for enabling the students to take photocopies within the campus.
- One bus is operated to fulfill the Transport facility of Girl students and women staff members.

CRITERION-VI

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1. INSTITUTIONAL VISION AND LEADERSHIP

Our College has an effective leadership with good qualities and values. Our College takes academic necessary efforts to unite all the stakeholders together for working hard towards the achievement of its vision and mission. It has planned sufficiently to coordinate and implement the academic and administrative activities which pave way to achieve the vision and mission successfully.

6.1.1 Vision and Mission of the college

Vision

Established with a view to spread the benefit of higher education, our institution works hard for academic learning, strong morality and a gentle vision. The foundation to emerge as a leading institution the motto of the teachers offering need based and livelihood oriented education is practically.

Mission

The College, which is non-communal and non-sectarian, has its principal objectivity to train the students to be high-quality citizens. The college offer higher educational facilities to the downtrodden students of southern districts of Tamilnadu. Our College motivates the students to develop self confidence and to shape their own future according to their ambitions. Our institution provides value-based education and quality-centered research programmes at an affordable cost.

6.1.2 Distinctive characteristics of the College.

Serving the underprivileged

Our College is located in a socially backward area. The students hailing from this area are unable to get higher education even at a normal cost. Our College plays a vital role in fulfilling the ambition of the students and parents of this area. We are very proud to say that the number of girls students,

admitted in the various classes are going on increasing every year even though there are two colleges for women in Tuticorin.

Service without bias

As far as admission is concerned, our College is 100% unbiased in following the Govt. norms. Our College finds no partiality among the people belonging to different communities. Since the College has been after the great patriot, great administrator, education at revolutionary in who paved way for midday meal scheme to poor students in elementary schools and introduction of uniform scheme to school children feeling of oneness is cultivated in the minds of the students.

Core values and ethos

Our College is built on the core values of meaningfulness, dutifulness and grace. The core values of our College remaining in serving the poor and needy students belonging to the downtrodden areas, with equality in all academic and administrative affairs.

Sustenance of vision and mission:

Our College makes a continuous effort to accomplish the vision and mission.

- ❖ To improve the quality of teaching and learning processes.
- ❖ To streamline the behavior of our students.
- ❖ To make a change in the outlook and attitude of students.
- ❖ To contribute more and more benefit to the society at large.
- ❖ To ensure through FDP that the teacher is a perennial learner.

6.1.3. Leadership in organizational management system

- ❖ Our College has a well defined participatory management system. The Managing committee is the apex body which gives enlightened leadership to the College.
- ❖ The College Committee which is a statutory body supervises the academic affairs and internal administration of the institution.

- ❖ The College Managing committees consist of the President, Vice-President, Secretary, and Joint Secretary & Treasurer.
- ❖ Apart from the managing committee, our College has a working committee which looks after the day to day affairs of the college.
- ❖ The College Committee, besides the Managing committee members, comprises of the Principal, representative from the University and the two senior faculty members of the College.

Leadership by the officers of the college

- ❖ The college enjoys the collective leadership of dynamic administrative team under the leadership of the Principal, who is the Head of the institution.
- ❖ A council of staff members which includes all the Heads of departments gives the suggestion to the Principal on all academic matters including the maintenance of discipline.
- ❖ The Office Superintendent of the college is in-charge of maintaining the accounts and records of the college.
- ❖ The college has a vibrant **IQAC** with Principal as the chair person. The IQAC takes care of the quality sustenance and enhancement. IQAC is the nerve center in the administration of the institution. The IQAC meets periodically to review the College activities.
- ❖ The curricular and co-curricular programmes of the institution are effectively carried out by a team of dedicated faculty members constituted for the specific purpose.
- ❖ Every year, the Principal constitutes different committees by inducting the faculty members in accordance with their aptitude and expertise. Every permanent faculty member is a member in any one of the committees.
- ❖ Each department is required to makes annual plan at the beginning of every academic year to have a smooth sails.
- ❖ At the end of the year, the implementation of annual plan is thoroughly appraised by the Principal.
- ❖ The management and the Principal provide sufficient sum of money for every department for developmental activities.

- ❖ The faculty members are encouraged continuously to enrich their knowledge through various academic interactions at various levels.

Interaction with stakeholders

- Our College maintains a healthy relationship with all its stakeholders.
- The Management committee maintains a cordial relationship with the faculty Members.
- The Principal takes important decisions in consultation with the College council members.
- Parent-teacher meeting is conducted every year.
- Management committee members, staff members and MUTA unit of our College have endowment funds for giving memorial awards to the rank holders every year at the college day function.
- The alumni association of our College has donated one PAS, our College staff and student Cycle shed. It has also sponsored several prizes to the student volunteers in the NSS special camps.

Interaction with larger society

- Our College always works for the welfare of the students and the society at large. Hence it involves various social welfare activities like blood donation, AIDS awareness programmes, road safety patrol, abolishing the drugs and the voters' awareness rally.
- The Institution arranges INSPIRE programmes sponsored by TNSCST and DST respectively to promote scientific temper among young school students of Thoothukudi District.
- Our NSS units conduct annual special camps in nearby villages to cater to their needs and their expectations.

Reinforcing culture of excellence

Major Activities (2011 – 2012)

- ❖ Our College NCC Army wing is functioning under the leadership Lt.Dr. Helan Flora. 50 cadets participated in Tobacco Prohibition Awareness Rally and Cancer Awareness Rally on 17.11.2011.

- ❖ Our College NCC Navy Wing is functioning under the guidance of Lt. Dr. Asok, 10 cadets attended Blood Donation Camp at Government Hospital, Thoothukudi on 26.08.2011
- ❖ Our College NSS volunteers regulate road traffic in the proximity of our College. Many Seminars, Workshops, Yoga and personality development camps are organized.
- ❖ Voters' day was celebrated by our College NSS units. District Collector Mr. Ashish Kumar, I.A.S., inaugurated the rally of human chain in front of our College. More than 300 NSS Volunteers formed the Human Chain.
- ❖ Yoga club of Kamaraj College in collaboration with Vethathiri Institute for Spiritual and Intutional Education, Azhiyar was inaugurated in our College. This year 157 students belonging to different disciplines enrolled in this club. It is sure that the students have been will certainly become well informed about the life and its association with nature.
- ❖ A subject called "Manavalakalvi Yoga" is taught to the I Year students of Botany, Physics, Maths and Commerce Majors, under the Value based Education scheme with the approval of Manonmaniam Sundaranar University, Tirunelveli. Nearly 210 Students are benefited by this Programme.
- ❖ Career Guidance Cell has arranged 13 programmes such as seminars, workshops and interactive sessions by inviting 20 experts and resource persons to deliver lectures on various topics such as Logistics, career planning, interview skills, communication, sales techniques, attitude development, employment opportunities, resume preparation etc. The final year UG and PG students were benefitted.

Major Activities (2012 – 2013)

- ❖ Our College NCC Army wing is functioning under the leadership of Lt. Dr. Helan Flora. 50 cadets participated in etc.
- ❖ Our College NCC Naval Wings is function under the guidance of Lt Dr. Asok. 15 cadets attended Blood Donation Camp at Government Hospital, Thoothukudi on 02.09.2012 and donated blood.

- ❖ Our NCC Naval Wing cadets attended “Coast Guard Walkathon” programme on 27.01.2013 and donated blood.
- ❖ The Cancer day rally was conducted by our naval wing on 12.02.2013.
- ❖ Our College NSS Volunteers Regulate Road Traffic in the proximity of our College. Many Seminars, Workshops, Yoga and personality development camps were organized. On 28.09.2012 eye donation awareness camp was conducted. Nearly 30 boys and 30 girls participated in that programme.
- ❖ Voters’ awareness day was organized by the District Administration in the presence of our District Collector on 26.02.2013,
- ❖ The employment awareness programme was organized jointly by the Employment officer and District Collector at our College. On 08.03.2013, an eye donation camp was convened in coloboration with Agarwal eye hospital, Thoothukudi.
- ❖ On 16.03.2013, a health awareness camp was convened.
- ❖ The NSS volunteers visited and served the Children in the “Joy to the World of Orphanage Home” Arumuganeri on 02.03.2013.They also visited and served the old people in “Aanamavin Anbu Kapagam” Thoothukudi on 09.03.2013.
- ❖ On 18.01.2013, priceless laptops were issued to the second year students of our College. The District Collector Shri Ashishkumar, I.A.S., presided over the function in the presence of the Thoothukudi city corporation Mayor Tmt. L. Sasikala Pushpa. The Honourable Minister for Labour Welfare Thiru S. T. Chellapandian distributed 600 Laptops
- ❖ On 13.04.2013, priceless laptops were issued to the third year students of our College. The District Collector Shri Ashishkumar, I.A.S., presided over the function. The Honourable Minister for Labour Welfare Thiru S. Chellapandian distributed 320 Laptops.

Major Activities (2013 – 2014)

- ❖ On 10.07.2013, a legal awareness camp sponsored by Lions club, Thoothukudi was organized in which 100 volunteers participated.

- ❖ On 29.09.2013, disaster management camp was organized by Sai-Ram Institution and TVS at Vanathirupathi in which 5 volunteers participated.
- ❖ 100 volunteers participated in the Human chain and rally organized by the District Collector towards the voters awareness day on 04.10.2013.
- ❖ A fire safety and LPG safety awareness camp was organized by M/s. Senthil Murugan Gas Agency. About 50 volunteers participated.
- ❖ On 30.10.2013, a anti corruption camp was organized by the CBI – Inspector Mr. S. Raja, more than 80 volunteers participated.
- ❖ A one day tree plantation camp was organized on 01.02.2014, at Roach park by the District Forest Department.
- ❖ On 25.01.2014, voter’s awareness campaign was organized in our College. More than 100 NSS students participated. In order to create awareness among public human chain programme was organized by our N.S.S. and N.C.C. The district Collector participated in the hhuman chain along with students.

Major Activities (2014 – 2015)

- ❖ A one day first aid camp was organized in our college. More than 50 boys and girls students participated on 09-08-2014.
- ❖ Voters awareness rally was organized by the revenue department under the leadeshship of the Tahsildar, Thoothukudi, More than 60 Boys and Girls participated in the awareness rally on 25.10.2014
- ❖ 10 cadets attended the blood donation camp at Thoothukudi Government Medical College Hospital on 23.09.2014.
- ❖ On 28.01.2015 campus cleaning activities was undertaken by the NSS students.

Science Awareness Prgrammes

Our College **Management** whole heartedly feels that the DST camp has enabled the meritorious students of schools towards the spirit of scientific enquiry & temper ushering a new era of knowledge and foresight. The student will gain a rare insight into the vistas of science through interaction with the

eminent personalities directly. This programme, which has been conducted for the last three years, has really inspired them towards Scientific.

INSPIRE Internship 2012 -2013

Dr. G. Vanmathi, Assistant Professor of Chemistry of our college has organized a Residential Science Camp – INSPIRE Internship – 2012 for Higher Secondary Science Students funded by the Department of Science and Technology, New Delhi during November 29 to December 3, 2012. 175 students from various institutions have participated in the science camp. 15 Resource persons from different fields of science gave lectures in the Camp with practical demonstrations. Most of them were academic fellows and Bhatnagar Awardees.

INSPIRE Internship 2013 -2014

Dr. G. Vanmathi, Assistant Professor of Chemistry of our college organized a Residential Science Camp – INSPIRE Internship – 2013 for Higher Secondary Science Students funded by the Department of Science and Technology, New Delhi during November 28 to December 2, 2014. 180 students from various institutions participated in the science camp. 15 Resource persons from different fields of sciences gave lectures in the camp with practical demonstrations.

INSPIRE Internship 2014 -2015

Dr. G. Vanmathi, Assistant Professor of Chemistry of our College organized a Residential Science Camp – INSPIRE Internship – 2014 for Higher Secondary Science Students funded by the Department of Science and Technology, New Delhi during November 27 to December 1, 2014. 190 students from 35 Schools participated in the Science Camp. 15 Mentors from different fields of sciences delivered lectures in the camp with practical demonstrations.

Quiz Club

The college Quiz club annually conducts inter-collegiate quiz competitions and awards prizes to the winners.

Kamaraj Birthday Anniversary Celebration Quiz

An Inter-Collegiate quiz competition is conducted by the quiz club of Kamaraj College Thiru. K. Kamarajar birth anniversary celebration is a regular annual event and popular competition among the quizers of various Colleges. This inspires and motivates the students of various colleges in this university. As part of the celebration, on 11th July 2014, the quiz team from Govindamal Aditanar College, Thiruchendur won the first prize and the rolling cup. A team from Kamaraj College, Thoothukudi and St. Mary's College, Thoothukudi bagged the second and third position respectively. On 10th July 2015, the quiz team from Kamaraj College, Thoothukudi won the first prize and rolling cup. Teams from G.V.N. College, Kovilpatti and A.P.C. Mahalakshmi College for women, Thoothukudi bagged the second and third prize respectively

6.1.4. Vacancy in Leadership

No leadership position is vacant in our institution.

6.1.5. Vacancy in statutory bodies

All the positions in the various statutory bodies are filled as and when necessary.

6.1.6. Promoting participatory management

- In our college the management is effectively managing the institution by getting all the stakeholders involved in the decision making process.
- The Principal is the head of academic and administrative affairs.
- All the heads of the departments support the Principal in the administration.

- All policy-wise decisions are taken in the College Council only after a thorough discussion.
- During the process of decision making in the administration, the suggestions provided by the staff members are given due importance by the Principal.
- The teaching and non-teaching staffs have been included in different working committees.

6.1.7. Leadership by the University to the College

- ❖ The goodwill of parental University, ie Manonamiam Sundaranar University is always enjoyed by our College. A senior faculty member is elected to represent our college teachers in the senate of the University. The University also deputes a University nominee for all the constituted bodies such as College Committee, Appointment committee and Course affiliation committee.
- ❖ The University offers membership and chairmanship in the Boards of studies and the Examinations.

6.1.8. Grooming the leadership

- ❖ Leadership quality is a fundamental trait which is very much essential for the multidimensional development of all the individuals. Right from the President of our College Management Committee to the Staff, many of them are either office bearers or members of various associations. Our president, Thiru V.Ilango is belonging to a reputed family from which powerful entrepreneurs are coming up in Tuticorin. Actually the grandfather of Sri V.Ilango, Thiru A.M.M.S.Ganesan was the founder patron of Our College. So the leadership qualities are inborn qualities of our President. Really he started his career in the College management committee as Vice President from 30.01.1999 to 20.08.2001 and because of the leadership qualities in him; he has become the President of our College Management Committee from 21.08.2001 till date. During this period he has done a lot in the College for the development of the leadership qualities. Among committee members and the staff of our College.
- ❖ Many of our staff members and Heads of the Departments serve in various capacities in the nearby Autonomous Colleges and Universities.

- ❖ Our College management is so magnanimous to depute the faculty members of all departments to participate in National level seminars/ training programmes for the purpose of strengthening their leadership qualities.
- ❖ A majority of faculty members is willing to accept the responsibility of managing various clubs like Yoga, Blood Donation, Aids awareness, Red ribbon, Youth Red Cross , Photography, Electronics, Environment, Consumer awareness, and the like which leads to the development of leadership qualities.

6.2. STRATEGY DEVELOPMENT

Our College has attained remarkable growth in the past 50 years, since the inception of our College in the year 1966. It has followed well planned strategies which are the foundations for the successful growth of the college.

6.2.1. The perspective plans

Our College management has a perfect and comprehensible vision and strategy in the long-term point of view for the overall development of the institution.

Teaching and learning

- ❖ Our College has already started implementing ICT enabled teaching and learning.
- ❖ The interactive teaching, learning and the curriculum that stimulates leadership qualities and humane in our students is the salient features of our teaching and learning process.
- ❖ Our College continuously strives to secure a higher rate of success in NET, SET, TNPSC, UPSC and other competitive examinations.

Research and Development

- ❖ Our College is well known to the faculties of other Colleges, University and the general public for its research and developmental activities.
- ❖ Our College management motivates all the faculties to pursue research to undertake minor and major research projects.

- ❖ Our College management emphasises all the departments to have atleast one major research project.
- ❖ Our College has planned to convert all the departments into research departments within a few years.
- ❖ In the long run, the institution is planning to have more collaborative research projects and acquire patents to the college.

Community engagement policy

- ❖ Our College has planned to adopt one or two villages as a part of our extension programme in future.

Industry interaction programme

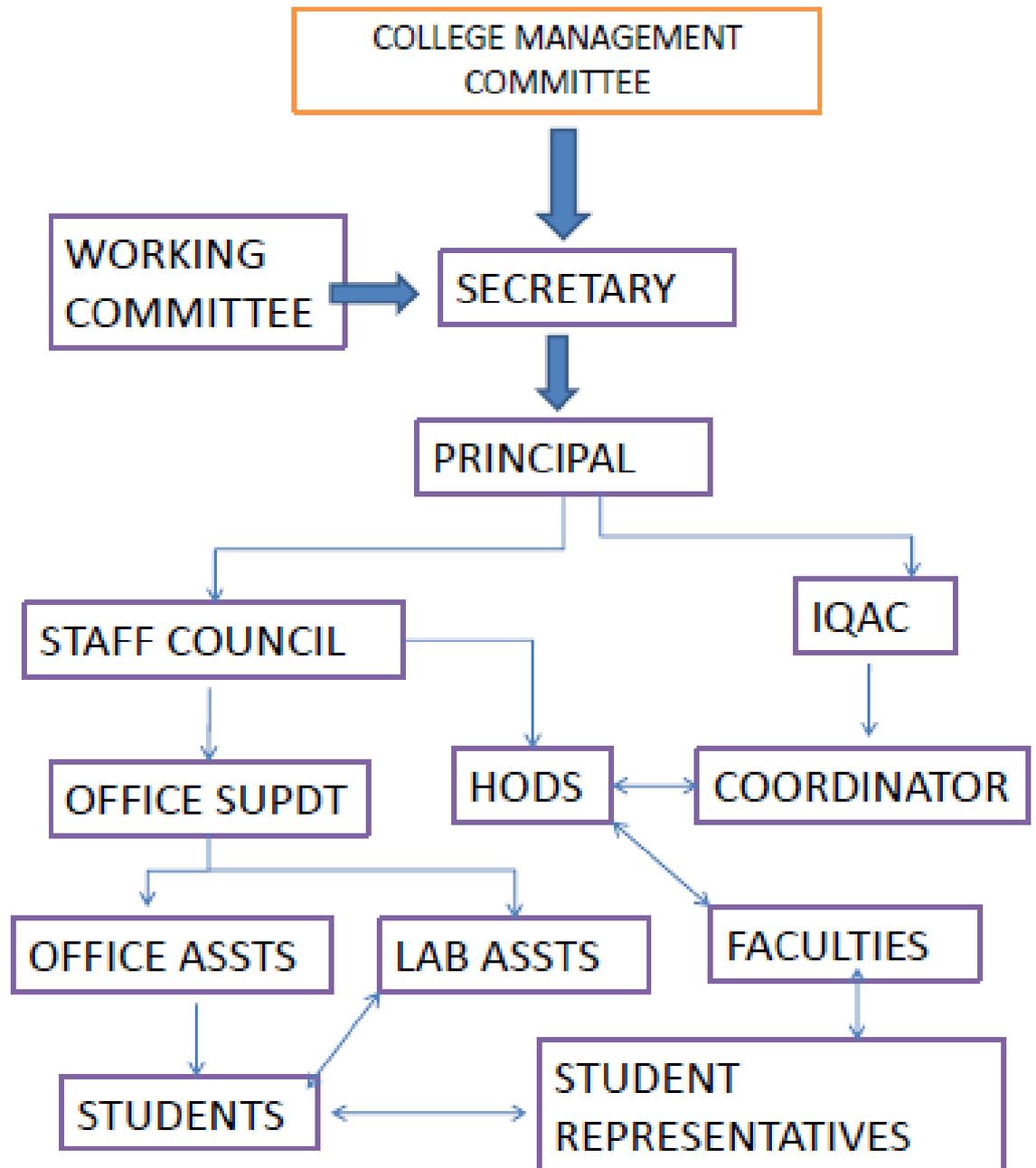
- ❖ The institution encourages Departments to create MOUs with the reputed industries for in-service training and internships. The research department of Zoology has created an MOU with a reputed industry at Tiruvannamalai.
- ❖ Our college has planned to invite more number of successful industrialists to interact with the students to develop the entrepreneurial skills.

Human resource planning and development

- ❖ The College Management takes sincere effort to fill in all the vacancies (Teaching and Non-teaching) to carry on the un-interrupted service to student community.
- ❖ The Management also appoints staff members under management salary in the case of unfilled vacancies, in spite of a huge financial strain, for the welfare students.
- ❖ The teachers are recruited strictly on the basis of merit and as per the government norms.
- ❖ Our College encourages the faculties to utilize the Faculty Development Programs for completing their Ph.D research work.
- ❖ Our College faculties act as resource persons to neighboring schools and colleges for various academic activities.

6.2.2. Internal organizational structure

ORGANIZATIONAL STRUCTURE OF THE COLLEGE



Effectiveness

- ❖ The organizational structure of our College facilitates participatory management.
- ❖ Faculties, Non-teaching staff and student representatives are playing a vital role in the effective management of the institution.
- ❖ The information can flow from top to bottom and from bottom to top in our College organizational structure.
- ❖ Our organizational structure provides both authority and responsibility to the staff.
- ❖ Our College always considers the welfare of all the stake holders of the institution at the time of taking important decisions leading to the welfare of the institution.

6.2.3 Planned proposals initiated and executed

The details of proposals implemented in the last four years are furnished below:

Table 6.1 The plans initiated and implemented in the last four years

Year Plans Implemented

YEAR	PLANS IMPLEMENTED
2010- 2011	<ol style="list-style-type: none">1. Introduced B.A. English under Satellite Courses Affiliation with M.S. University2. Introduced B.Com with Computer Application under Satellite Courses Affiliation with M.S. University3. Introduced M.Com with Computer Application under Satellite Courses Affiliation with M.S. University4. M.Phil Mathematics under Satellite Courses Affiliation with M.S. University5. M.Phil Commerce under Satellite Courses Affiliation with M.S. University6. M.Phil Zoology under Satellite Courses Affiliation with M.S. University
2011-2012	<ol style="list-style-type: none">1. Amount sanctioned through Major Projects Rs 65,39,7652. Amount Received from funding agencies Rs 6,31,101
2012-2013	<ol style="list-style-type: none">1. Amount sanctioned through Major Projects Rs 25,00,0002. Amount sanctioned through Minor Projects Rs 2,00,0003. Amount Received from funding agencies Rs 16,07,825
2013-2014	<ol style="list-style-type: none">4. Introduced M.A. History under Self Financing Courses.5. Introduced B.A. English under Self financing Self Financing Courses.6. Introduced B.Com with Computer Application under Self Financing Courses7. Introduced M.Com with Computer Application under Self Financing Courses.8. The Department of Mathematics of our college has been upgraded as the Centre for Research in Mathematics by the Manonmaniam sundaranar University, Tirunelveli. This Mathematics Research Centre

	<p>was inaugurated on 08.08.2013.</p> <p>9. Amount sanctioned through Major Projects Rs 24,62,000</p> <p>10. Amount sanctioned through Minor Projects Rs 4,25,000</p> <p>11. Amount Received from funding agencies Rs 6,17,500</p>
2014 – 2015	<p>1. M.A. English under Self financing courses.</p> <p>2. M.Sc. Chemistry under Self Financing Courses</p> <p>3. B.C.A under Self Financing Courses</p> <p>4. Amount sanctioned through Major Projects Rs Rs.17,63,100</p>

6.2.4 Quality policy

- ❖ The Vision and mission of our college is well related with the quality policy for which the college was established.
- ❖ Our college focuses on imparting good education at a reasonable cost to the deprived students of this backward rural area without compromising in quality.
- ❖ Our college gives equal priority to both research & extension activities and teaching & learning.
- ❖ Our college is equally committed to teach ethical and moral values to the students' community.
- ❖ These policies are successfully implemented in our college and it is regularly reviewed by the Management, which is ensured by the IQAC.

6.2.5 Grievances redressed and analysis of grievances

- ❖ The institution has an inbuilt mechanism to take remedial measures for the grievances of all the stakeholders in general and the teachers & the students in particular.
- ❖ The teacher in-charge of each and every class will bring the grievances of the students to the notice of the Principal through the concerned Heads of the departments.
- ❖ The Principal and the Management are easily accessible by the staff members for solving any of their problems.
- ❖ Parents feel free to share their grievances with the teachers in the Parent – Teachers Meeting or by getting a special appointment with the Principal or the Head of the Department.
- ❖ During the last four years, Our College has not received any major grievances from the students.

6.2.6 Students' feedback on Institutional performance

- ❖ We have got the feedback from the Students in the year 2014-2015 only.
- ❖ For getting feedback from the students, we used a pre-structured questionnaire. **(Annexure-III)**
- ❖ The questionnaire consists of various aspects related to learning, infrastructure and the student support system.
- ❖ The data collected through the feedback forms are analyzed by the IQAC and the Principal is informed for taking further action.

6.2.7 University Institution Linkage

- ❖ Our college is having a link with UGC, which is coordinated by Manonmaniam Sundaranar University.
- ❖ Our college fully depends on Manonmaniam Sundaranar University, Tirunelveli for our complete educational prototype.
- ❖ The University plays a supporting role for all the educational activities in our college.
- ❖ University deputes their representatives to various statutory bodies of our college.
- ❖ Our faculty members are actively participating in various bodies of the University like senate, syndicate, board of studies, syllabus framing committee, university examination question paper setting & central valuation work etc.

6.2.8 Benefits of College Development Council (CDC)

- ❖ In our College, College council recommends our faculty members for the Faculty Development Programmes.
- ❖ Our College research Committee helps our faculty members in procuring funds under various merged schemes from various funding agencies like UGC and DST.
- ❖ Our College research committee forwards all the research proposals to various funding agencies to get major/minor research projects.
- ❖ On the recommendations of the college council, our principal sends circular on anti -ragging measures, UGC Schemes, scholarships, SC/ST welfare schemes, last date for admission etc., to all stake holders.

6.2.9 Feedback from Non-teaching staff, Teaching staff, Alumni and Parents

- ❖ Feedback from teaching & non-teaching staff is obtained in Staff meeting and College council meeting. Remedial measures have been taken regularly. Parent teachers' meeting is useful to enable our College to establish a good rapport with the parents.
- ❖ The alumni feedback is also collected in the alumni meet and their suggestions are given to the management for implementation.

6.2.10 Department autonomy and accountability

- ❖ Our College Heads of the departments are given freedom to invite academic experts for guest lectures, seminars and conferences. They are given enough academic freedom to conduct quiz program in the Department, sending the students to attend inter-collegiate quiz, organizing educational field trips to industries etc.
- ❖ The Heads of the Departments monitor the completion of the syllabus, correction of answer scripts, submission of marks and other duties entrusted to the faculty members.
- ❖ The Department collects student feedback and acts accordingly.

6.3 FACULTY EMPOWERMENT STRATEGIES

6.3.1 Efforts made by the College to enhance the professional development of teaching and non teaching staff

Our College faculties are permitted to attend orientation programmes, refresher courses, seminars, symposium, workshop and conferences at state, national and international levels and their absence on these days will be treated as on Other Duty.

6.3.2 Welfare schemes available for teaching and non teaching staff

- ❖ Medical Insurance Scheme
- ❖ GPF
- ❖ Housing Loan
- ❖ Vehicle Loan
- ❖ Festival Advance

- ❖ Membership in Teachers' Thrift society is available for teaching and non-teaching staff.

6.3.3 Impact of the University's UGC-Academic Staff College Programmes in enhancing competencies of the College faculty

- ❖ The faculties enhance their teaching methodology after attending various courses of the Academic Staff College of various Universities.

6.4 Financial Management and Resource Mobilisation

6.4.1 Institutional mechanism to monitor effective and efficient use of financial resources

- ❖ Our college is an aided College hence the financial resources are received from the government through the Director of Collegiate Education.
- ❖ The fee prescribed by the Tamilnadu Government is collected from the student every year and deposited under relevant heads at Tamilnad Mercantile Bank by getting a special GO from the Government.
- ❖ For UGC related transactions we have an account with SBI, BazarBranch, Thoothukudi.
- ❖ Receipts and Expenditure accounts are prepared every month and sent to the Director of Collegiate Education. The Director in turn reconciles the figures with Accountant General.
- ❖ The fees collected from the students under various heads such as Union, Games, Magazine, Calendar, etc. are being spent for the purpose for which it was collected based on resolution by the committee formed every year for each head.

6.4.2 Mechanism for internal and external audit and its details.

- ❖ Being a Grade I Aided College, the internal audit is conducted by the statutory auditor of the College every year. The external audit is conducted by the officers of Regional Joint Director of Collegiate Education, Tirunelveli and the Accountant General once in five years.

6.4.3 Audited income and expenditure statement of academic and administrative activities of the previous four years.

All the accounts are audited regularly and so far no major audit objection is raised.

Table 6.2 Audited statement of income and expenditure in Rs.

Sl.	Income	2010 –	2011 –	2012 –	2013 –
1	Academic				
	SF - Fees	363809	371563	365423	381709
	Approved SSA/c.	65877701	60721611	71441295	70013835
	Non-Salary A/c.	806016	832505	1027510	944483
	Scholarship	1025693	1647343	1546865	2968257
	University fees	1943953	2084192	1658481	2176894
	(i) Total	70017172	65657214	76039574	76485178
2	Administrative				
	(ii) SF	5190906	6217578	7888331	8848634
3.	i+ii	75208078	71874792	83927905	85333812

Sl.	Expense	2010 –	2011 –	2012 –	2013 –
1	Academic				
	SF - Fees	251063	478634	315250	314745
	Approved SSA/c.	65877701	60721611	71441295	70013835
	Non-Salary A/c.	881067	622438	987525	994233
	Scholarship	999122	1647743	882308	3676014
	University fees	1971953	2042602	1930071	1946894
	(i) Total	69980906	65513028	75556449	76945721
2	Administrative				
	(ii) SF	3719944	4702356	5114018	6868453
3.	i+ii	73700850	70215384	80670467	83814174

6.4.4 Efforts for resource mobilization

- ❖ Resources are essential to fulfill the vision and mission of the college. Hence our College follows various ways and means to mobilize the resources.
- ❖ The Staff members of our college donate money in the form of endowments and the interest thereon is the source of finance for giving awards to the meritorious students.
- ❖ The interest from the fixed assets is another source of income.
- ❖ The contributions from the alumni and parent Teachers association and other endowments provide financial assistance to the College.
- ❖ Other funding agencies like UGC, CSIR, DST, DRDO, and TNSCST provide funds through various research grants and schemes.

6.4.5 Corpus fund

- ❖ We are collecting corpus funds from the students every year and it is remitted to MS University, Tirunelveli.

6.5 INTERNAL QUALITY ASSURANCE SYSTEM

6.5.1 Conducting Academic Audit

- ❖ The Internal Quality Assurance Cell helps to conduct the academic audit.
- ❖ The Academic Audit aims at assessing the academic activities and identifying the strengths and weaknesses of departments and giving suggestions for improvement.
- ❖ This helps to enhance the synergy of stakeholders of the College.

6.5.2 Specific measures to improving teaching and learning process

The academic audit highlights the best practices and suggests areas of improvement. The process enables the college to take the following specific measures:

- ❖ Imparting ICT enabled teaching.
- ❖ Use of Smart Class room with interactive board for effective teaching.
- ❖ Introducing team teaching strategy in the class room.
- ❖ Encouraging peer learning through seminars and discussions.
- ❖ Updating the library with latest books and journals.
- ❖ Arranging guest lecturers in the emerging areas.

6.5.3 Central body for the review of teaching and learning process

- ❖ The College has an IQAC for the continuous assessment of teaching and learning process. The IQAC comprises of the following members within the College:
- ❖ 1. Principal as Chairman 2. One Coordinator 3. Nine members
- ❖ The IQAC convenes the meeting of the HOD's at regular intervals. In that meeting a healthy discussion will be made about teaching and learning process, the marks scored by the students in internal tests, marks obtained by the students in the university examinations, problems faced by the students, infrastructure facilities which are helpful for enabling a better teaching learning process etc. Remedial measures to be taken by faculty member are also decided in the meetings organized by IQAC. The IQAC carefully watches whether these measures are implemented or not.

6.5.3 The contribution of IQAC

- ❖ The Internal Quality Assurance Cell monitors all the quality parameters.
- ❖ It also acts as a documentation Centre for all the activities of the college.
- ❖ It also ensures that the standards of excellence given in the vision and mission of the college are on the way to fulfillment.
- ❖ The IQAC brings out News Bulletin to disseminate the information regarding the developmental activities that take place in the campus.

6.5.4 Contribution of external members of IQAC

- ❖ There are two External Members in the Internal Quality Assurance Cell (IQAC)
- ❖ They are attending IQAC meetings regularly.

- ❖ They Offer suggestions for the sustenance of quality.

6.5.5 Incremental growth of disadvantaged students

- ❖ IQAC keeps a close watch on semester wise academic progress of students from disadvantaged sections.
- ❖ The IQAC provides many remedial measures in consultation with various department Heads' for the incremental growth of the disadvantaged section.

6.5.6 Policies for periodic reviews of academic and administrative reforms

- ❖ Our College has a periodic review of academic achievements of various departments to ensure the quality sustenance in all the areas related to teaching, learning and evaluation.
- ❖ The IQAC meetings are conducted to review the performance of students and the teachers. The institution ensures that available infrastructure is in compliance with the requirements of curriculum.

CRITERION-VII

INNOVATIONS AND BEST PRACTICES

7.1 ENVIRONMENT CONSCIOUSNESS

7.1.1. Green audit of college campus

- In our College, Green audit is carried out regularly.
- The college takes all efforts to maintain a green environment in the campus.
- NSS volunteers take adequate efforts to make the college eco-friendly and to maintain the eco-friendly environment in the college campus.
- While making strategic planning for the development of the College campus priority is given to the energy saving, water conservation and green environment.
- For all UG first year classes Environmental study one of the subjects in the first semester in order to inculcate the values of Environment.
- Name plates having Botanical names of all trees and plants inside campus are displayed in the respective trees and plants.
- A green house is maintained to grow Medicinal plant in our campus.
- We have composite bins to collect food wastage and other polythene materials inside the campus.
- Rain water harvesting facility is available in all the buildings in the campus.
- It is important to say that our College chemistry students are using the pure rain water collected through rain water harvesting system for their laboratory works instead of distilled water. The green house of Botanical Garden is functioning with the rain water harvesting system.

Initiatives taken by the college Energy Conservation

- In our College the class rooms are with adequate ventilation and natural brightness and hence there is no need for artificial lighting during day time. All the class rooms are furnished with good lighting facilities during rainy days.
- In computer labs the systems are properly shutdown after usage to avoid the wastage of electricity.
- All the lab assistants are sufficiently instructed to verify whether all the plug

points are switched off before closing the laboratories.

- The dry leaves and the waste papers are made to compost and used as organic manure in botanical garden and green house.
- Energy consumption in the hostel is closely monitored by the residential superintendents.
- There is strict adherence to college norms of turning off electricity during day time in hostels.

Efforts for Pollution Free Environment

- A large number of trees are planted and maintained by NSS volunteers and NCC cadets in the College campus to make the environment pollution free.
- The teachers in-charge of all classes motivate the students to use bicycles instead of two wheelers for creating pollution free environment.
- Our College campus has more numbers of trees and the dry leaves are collected and converted into manure.
- Our College canteen uses paper plates and paper cups for the staff and students.
- Special programs are organized for plantation of trees within the campus every year.

Waste Management

- In our College, Chemistry lab assistants are advised to collect the solid waste in the lab separately and to dispose it carefully without causing any harm to the students.
- There is a special drainage system in the chemistry lab to dispose the chemical waste from the lab.
- There are sufficient numbers of exhaust fans provided.
- All the heads of the departments are advised to collect e-waste and hand over it to the concerned organization.
- All stationary waste from the office, library and departments is disposed of by open auction.
- Our College has taken steps for office automation to reduce the paper utilization in the principal's office.
- The liters are collected and used for manure formation for the garden plants.

Any other

- Our College Management honours the retiring staff members as chief guests on Republic Day and compliments will be given to them.
- The staff members, well wishers, management committee members, former Principal's and MUTA unit of our College have instituted endowments to recognize and honour the meritorious students in the University examinations.

The list of members created endowment and the beneficiaries.

No.	Details of the Awards	Recipient of the award
1.	Award of Mrs. Indira Ganesan, Coimbatore in Commemoration of her father Thiru.A.M.M.S. Ganesan's 60th Birthday	I Rank in B.Sc. Chemistry. Secured University 1st Rank – Gold Medalist.
2	Award of Thiru.P.S.Ponnusamy (Raja) in commemoration of his father Late Thiru.P.S.Somasundara Nadar, Senna Exporters, Tuticorin.	I Rank in B.Sc. Mathematics Secured University 17th Rank in Major & 14th Rank in Part-I Tamil
3	Award of Thiru.S.Mayakalai, in remembrance of his mother Srimathi Valliammal Sundara Sankaralinga Nadar, Kamuthi	<u>I.B.Com.,</u> Highest Mark in HSC (1121/1200)
4	Award of M/s.C.S.Rajendran, Raveendran, Narendran and Devendran in the name of their beloved Mother <u>Tmt Rajammal Shunmugam</u>	I Rank in B.Com. Secured University 6th Rank
5	Award of M/s. Nathamani Ganesan & Bros. and T. Chandran & Bros., in memory of their maternal uncle Late Thiru.A.V.P. <u>Vinavagamurthi</u>	II. Rank in B.Com.
6	Award of M/s. V.N.P.R. Aiyasamy Nadar & Sons, Tuticorin in the name of Srimathi Rajarathinammal Aiyasamy	III.Rank in B.Com.
7	Award of Thiru.P.S.Ponnusamy (Raja) in Commemoration of his mother P.S.S. Chinnathayammal	I Rank in M.Com.
8	Award of Madras Sivakasi Nadar's Welfare Association, Madras	I Rank in B.A. Economics Secured University 10th
9	Award of Mrs. S.Patchaiammal in memory of her husband Late Thiru.Ar.A. Srinivasaga Nadar, Tuticorin	I Rank in B.Sc. Botany Secured University 3rd Rank
10	Award of Mrs. S.Patchaiammal in memory of her husband Late Thiru.Ar.A. Srinivasaga Nadar, Tuticorin	I Rank in M.A. Economics Secured University 7th Rank
11	Award of Tmt.D.Sakkaraithai, Tuticorin in memory of her parents Thiru.G. Ayya Nadar & Tmt.Santhiammal	I Rank in B.Sc. Computer Science.
12	Award of Dr. C. Gnadickam, Former H.O.D. of History in Memory of his parents Thiru.A. Chinnasamy & Tmt. <u>Alangaram</u>	Best outgoing student in B.A. History
13	Award of Thiru.S.Kalidasan, in memory of his father Late A. Seeniappa Nadar, Tuticorin	I Rank in M.Sc. Mathematics
14	Award of M/s.M.V.M. Subramania Nadar & Sons, Tuticorin in memory of their father Late Thiru.M.V.M. Subramania Nadar	I Rank in B.Sc. Zoology.

15	Award of Dr.A.B. Jeyakrishnan, Tuticorin	<u>I Rank in B.A. History.</u>
16	Award of Prof.S.Selvaraj, former Principal in memory of his mother Tmt.Valliammal	II Rank in B.Sc. Computer Science.
17	Award of Thiru.M.S.Ponnusamy Nadar & Tmt.Mariammal, Tuticorin	I Rank in B.Sc. Physics
18	Award of Dr.M.Sakthivel, former Principal in memory of his father Late Thiru.V.Marimuthu, Paraipatti Village, Dindigul	II Rank in B.Sc. Zoology
19	Award of Kamaraj College, MUTA Unit, Tuticorin. Trophy to the toppers in University examinations	<u>All final year U.G. & P.G</u>
20	Award of Prof.M.Vellapandian, in memory of his parents Thiru.S.Maharajan & Tmt.M.Mariammal	(University rank holder in M.Sc. Mathematics) GOLD MEDAL.
21	Award of Prof.N.Paulraj, former H.O.D. of Tamil in the name of their parents Thiru.M.Navamani Nadar & Tmt.Chelliammal.	B.Sc.Mathematics
22	Award of Prof.K.Sachithanandam, former H.O.D. of History in memory of his father Late. Thiru.P.Kailasavadivoo Nadar,	<u>II Rank in B.A. History.</u>
23.	Award of Prof.K.Sachithanandam, former H.O.D. of History in memory of his wife Late.Tmt.P.Easwarabai, former H.O.D. of Botany, Vivekananda College, Agastheeswaram	II Rank in B.Sc. Botany
24.	Award of Dr.S.Durairaj, Reader in Mathematics in memory of his parents Late.Thiru.K.Suyambulingam and P.Saraswathi	II.Rank in B.Sc.Mathematics
25.	Award of Prof.M.Vellapandian in memory of Amarar Standard S.Natarajan in the name of BEST KAMARAJIAN – 2013	III.B.Sc. Chemistry Special Award for the BEST outgoing Girl of U.G.
26.	Award of Dr.P.Chendurpandy in memory of Tmt.Kani Palanichamy in the name of BEST KAMARAJIAN – 2013	III.B.Sc.Chemistry Special Award for the BEST outgoing Boy of U.G.

7.2 INNOVATIONS

- Arrangements are made to provide driving license to all the students by RTO in our College.
- The Consumer Club creates awareness on consumer rights.
- A placement cell is functioning in our College for making placements of our final year students.
- Humour club is functioning in Our College to relieve the students from the social and academic string imposed on them and made them relaxed with mental freshness.

Innovations introduced in the last Four years:

Innovations in Teaching and Learning

- Students are motivated to attend Inter-collegiate Seminars and present papers.

- Students are encouraged to appear for competitive examinations like UPSC, TNPSC, CSIR, UGC-NET / SET, TANCET etc.
- Proper counseling is given to the slow learners and remedial teaching is provided.
- Coaching classes slip tests, discussion of previous years University question papers and the methods of answering are the various methods followed in our College.
- Practical hours may be extended or repeated if necessary for weak students.
- For final year PG students, Special attention and guidance are given in completing the project work.
- All the students are motivated to participate in Department Association meetings.

Innovations in Research, Consultancy and Extension

- In our College, two Departments are recognized Research centers.
- Besides UGC, other leading funding agencies like DST, MES and TNSCST provide funds for research activities.
- The faculty members frequently contribute to international peer reviewed journals with high impact factor.
- The number of major research projects funded by various funding agencies is on increasing.
- The extensions activities like YRC, RRC, and YOGA etc are brought under Part V of the curriculum.
- A number of awards is received by the NCC naval wing cadets of our College.
- The students are motivated to donate blood and as a result the number of blood donors is increasing every year.

Innovations in Student support services

- The differently abled students are taken care of by other students who are motivated by the Teacher in-charge.
- Social value education and personality development are taught to the

students as a part of curriculum which induces the moral and ethical values among the students.

- The Placement Cell plays a vital role in getting placements for our students in various nearby companies and industries.
- INSPIRE camp has been organized by the department of Chemistry of our College from December 2012 to guide the students who are aspiring the recent scientific advancement and interest in basic research in science studying higher secondary classes in various schools.

Innovative infrastructure

- ICT based teaching and learning is achieved through establishing one smart class room with amenable facilities.
- Students are encouraged to enroll in INFLIBNET to access e-resources.
- Communication skills are imparted through English Language Lab (ELL).
- Signing of MoUs with institutions help the students in realizing industrial environment.
- Library is continually upgraded with addition of latest books.
- Much emphasis is laid on initiatives for green campus and energy conservation to make the campus eco-friendly.
- Delegation of authority and responsibility to the HODs by the Principal, participatory management, office automation, teacher friendly management, and feedback mechanism are the salient features of our college.

7.3 BEST PRACTICES

- **Achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the college.**

Our College has internalized the best practices for the purpose of improving the functioning of the academic and administrative systems. The students are motivated to take part actively in the academic and administrative matters which leads to the enhancement of the quality of the education and administration of the College. The students voluntarily come forward to follow the best practices created by the academic and administrative systems. The staff members are encouraged to involve themselves in the administration

of the College at every level.

1. Title of the Practice [Prayer Song]

- a. A prayer song is played every day in the morning session by 9.30 am, which develops the holistic attitude among the students. The prayer to the Lord Almighty will provide peace of mind to all the staff and students of the College. When they feel free, there is a possibility for carrying out the various day-to-day activities with much involvement; because a clear mind will always succeed in all the endeavors. This practice leads to the materialization of vision and mission of our College.

2. Title of the practice [Peace Committee]

Our College has many constituents like academic departments, Principal's office, students, management and the other stakeholders who are working hard for achieving the aim of the Institution. Our College management feels that the teaching and non-teaching staff can work effectively for the achievement of the goals for which the College was established, only when there is to maintain a cordial atmosphere among the teachers, non-teaching faculties, students and Management in the College campus. A problem solving committee has been created in the College. This committee consists of one convener, Principal, two senior staff members and two lawyers. It takes all necessary steps for solving the problems as and when arise, and it is carefully watching that no such problems should arise in future. In short whenever the staff members are not suffering from pricking problems, they will feel free and contribute more towards the development of the student community. This trend will lead to the completion of syllabus in time, conducting extracurricular activities, developing leadership qualities in students, organizing many guest lecturers with subject experts on motivational topics and the like.

• **The Practice & the Evidence of the Success:**

This is the first time that such a peace committee for solving the problems has been established in the history of our College since 1966. Really the formation of this peace committee is the outcome of the intellectual and

creative thinking of our College President Thiru V. Ilango. Actually our President is of the opinion that the College should develop more and more and should evolve as a Deemed University in the year 2020 with 10,000 students. The Deemed University which is in the dream of our President will consist of a Medical College, a Dental College, a Nursing College, a Community College, a pure self financing College besides the available Aided College. For developing the aided College into a Deemed University, the co-operation and involvement of all the staff of the College is inevitable. That is why our President has instructed the principal to form the Peace committee for solving all those problems which are detrimental to the growth of the organisation, which will lead to win over the confidence of all the teaching and non-teaching staff of the College. Now the peace committee has started functioning and it is on its path to solve the problems then and there. At present a cordial atmosphere is prevailing in the College campus.

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LIST OF PUBLICATION

2011 – 2012

1. **T. Balasubramanian**, A. pandiarani, “A New Class of Sequences of Fuzzy Numbers” *Int. J. Pure Appl. Sci. Technol.* **2012**, 8, 1-14.
2. Y. S. Y. Kumar, C. R. Sreeraj, **R. Sornaraj**, “Opisthobranchs of the Gulf of Mannar Biosphere Reserve” *Indian journal of fisheries* **2011**, 58, 105-114.
3. K. R. Padmakumar, J. S. Chandran, Y. S. Y. Kumar, **R. Sornaraj**, “Carijoariisei (Cnidaria:Octocorallia :Clavulariidae), a newly observed threat to Gulf of Mannar coral biodiversity?” *Current Science* **2011**, 100, 35-37.
4. K. A. Kiruthika, A. A. Jaisheeba, **R. Sornaraj**, “Evaluation of antibacterial activity of some selected Angiosperm flower extract” *Int. J. Chem. Tech. Res.* **2011**, 3, 1945-1951.
5. K. A. Kiruthika, A. A. Jaisheeba, **R. Sornaraj**, “Evaluation of the antimicrobial property of selected flower extracts when exposed in a hospital environment. *Int. J. Pharm. Tech. Res.* **2011**, 2, 769–774.
6. K. A. Kiruthika, A. A. Jaisheeba, **R. Sornaraj**, “Screening of bioactive components of the flower Datura metal using the GC-MS Technology” *Int. J. Pharm. Tech.* **2011**, 3, 2025-2028.
7. A. P. Azariah, A. A. Jaisheeba, **R. Sornaraj**, V. Arinathan “High prevalence of pains among the traditional salt workers of Thoothukudi” *Journal of Ecotoxicology and Environmental Monitoring*, **2011**, 21, 71-76.
8. G. A. Rani, C. Padmalatha, **R. Sornaraj**, A. J. A. Ranjith Singh, “Impact of Supplementation of Amway Protein on the Economic Characters and Energy Budget of Silkworm Bombyxmori L.” *Asian Journal of Animal Sciences*, **2011**, 5, 190-195.
9. T. Veni, G. Chelladuari, **J. Mohanraj**, I. Vijayakumar, M. Petchimuthu, “Dietary administration of *Lactobacillus acidophilus* as probiotics on health, survival and gut microbial load in cat fish (*Mystus montanus*)” *International Journal of Research in Fisheries and Aquaculture.* **2012** 2, 48-54.
10. **S. Kanagaprabha**, A. T. Asvinimeenaatci, R. Rajeswarapalanichamy, K. Iyakutti, “First Principles study of Pressure Induced Structural Phase transition in Hydrogen storage material-MgH₂” *Physica B* **2012**, 407, 54-59.
11. **S. Kanagaprabha**, A. T. Asvinimeenaatci, R. Rajeswarapalanichamy, K. Iyakutti, “First Principles Study of the Electronic Structure, Structural Properties and Superconductivity of Nickel Hydride” *Walailak J. Sci. and Tech.* **2012**, 9, 115-126.
12. **S. Kanagaprabha**, A. T. Asvinimeenaatci, R. Rajeswarapalanichamy, K. Iyakutti, “Electronic structure and Magnetic Properties of FeH and CoH” *AIP Conf. Proc.* **2012**, 1447, 863.
13. **S. Kanagaprabha**, A. T. Asvinimeenaatci, R. Rajeswarapalanichamy, K. Iyakutti, “Pressure induced superconductivity in Transition metal trihydrides: an ab-initio study” *AIP Conf. Proc.* **2012**, 1447, 71.

14. A. T. Asvinimeenaatci, **S. Kanagaprabha**, R. Rajeswarapalanichamy, K. Iyakutti, “High Pressure Phase Transition and Superconductivity in Transition Metal nitride HfN and ZrN: an ab-initio Study” *AIP Conf. Proc.* **2012**, 1447, 859.
15. **R. Sornaraj**, J. S.Y. Kumar, R. Balasubramanian, S. Subburamen, “Distribution of heavy metal pollutants in Punnakayal coastal sediments, Southeast coast of india” *Journal of Applied Geochemistry*, **2012**, 1-6.
16. T. A. Mariammal, A. A. Jaisheeba, **R. Sornaraj**, “Work influenced occupational stress and cardiovascular risk among teachers and office workers” *Journal of Chemical and Pharmaceutical Research*, **2012**, 4, 1807-1811.
17. **N. K. Syambulingam** “Labour Cnonditions of Marine Fishing Workers in Thoothukudi District” *International Journal of Research in Science and Techonology.* **2011**, 1.
18. **T. Jaculine Brinda**, “Health Problems of Women Working Under Nrega” *Journal of Social Science* **2011**, 2.
19. **R. Prabhavathy** “Encouraging Women Entrepreneurship -A Key to empowerment in Tuticorin District” *UGC sponsored national seminar on Entrepreneurial guidance for economics graduates.* 2011, 22.
20. **R. Prabhavathy** “An Economics Analysis of micro finance for women upliftment” *Journal of Social Science*, Volume – II No Issue 6,
21. **X. Helan Flora** “Growth and electrical properties of NLO crystals of L-Asparaginium nitrate (LAsN)” *Scholars Research Library Archives of Applied Science Research*, **2011**, 3, 235-240.
22. **X.H. Flora**, M. Ulaganathan, R.S. Babu, S. Rajendran “Evaluation of lithium ion conduction in PAN/PMMA-based polymer blend electrolytes for Li-ion battery applications” *International Journal of Ionics* **2012**, 18, 731-736.
23. **V.Arinathan**, V.R. Mohan and A.Maruthu pandian, 2011 Wild Edible Unripe Fruits used by the Palliyars if Westen Ghats, Tamilnadu, J. of non timber Forest Product, Vol. 18(2): 149-152.
24. “High Prevalence of Pains Among the Traditional Salt Workers” of Thoothukudi P.Stephen Azariah, A.Amutha Jaisheeba, **R. Sornaraj and V. Arinathan** J.Ecotpxicol. Environ. Monit. 21(1) 71 – 76 (2011)
25. **T. Ponrathi** (2012) “A Comparative study on the effect of Stoechospermum SLF and Syringodium SGLF on the growth and biochemicals of *Vigna Mungo*” J. of Indian Hydrobiology
26. Safish Mary M., and **Joseph Raj V.**, “ Radial Basis Function Neural Classifier using a Novel Kernal Density Algorithm for Automobile Sales Data Classification”, *International Journal of Computer Applications*, vol. 26-No. 6, July 2011, ISSN 0975-8887, PP1-4
27. Janeela Theresa M.M and **Joseph Raj V.**, “Analogy Making in Criminal Law With Neural Network”, *IEEE International Conference on Emerging Trends in Electrical and Computer Technology (ICETECH 2011)* ,India 2011, PP. 772-775.

28. Raja A.S., and **Joseph Raj V.**, “ 3D Face Recognition System Without Subject’s Cooperation Using a New Method Named TAG”, National conference on Imaging, Tiruchirappalli 620024, India, 2011. ISBN 978-81-920937-1-0, PP. 3034.

2012–2013

1. G. Chelladurai, **J. Mohanraj**, “Comparative efficacy of clove and 2-phenoxy ethanol on serum biochemical changes and histological studies in *Channa punctatus*” *Journal of Drug Delivery & Therapeutics*, **2013**, 3, 61-63.
2. G.Chelladurai, **J. Mohanraj**, M. Sasirekha mani, “Distribution of marine Gastropod in Tuticorin Coast, Gulf of Mannar, India” *International Journal of Pharmaceutical & Biological Archives* **2013**, 4, 371 – 374.
3. G. Chelladurai, T. Veni, **J. Mohanraj**, “The Investigation of *Lactobacillus acidophilus* as Probiotics on growth Performance and Gut micro flora of cat fish (*Mystus montanus*). *International Journal of Research in Fisheries and Aquaculture*. **2013**, 2, 41-43.
4. P. Ramasamy, K. T. D. Padmakumari, G. Chelladurai, N. Gautham, S. Mohanraj, **J. Mohanraj** “Screening of antibacterial drugs from marine gastropod *Chicoreus ramosus* (Linnaeus, 1758)” *Journal of Coastal Life Medicine* **2013**, 1, 234-238.
5. I. V. kumar, G. Chelladurai, S. S. H. Peeran, **J. Mohanraj**, “Medicinal plants as Immunostimulants for health Management in Indian cat fish (*Mystus montanus*) Fingerlings” *Journal of coastal life medicine*. **2013**, 2, 478-482.
6. G. Chelladurai, **J. Mohanraj**, M. S. Rekhmani, “Comparative Study on Growth, Feed Consumption and Survival of Spiral Babylon, *Babylonia spirata* Linnaeus, 1758 (Mollusca: Gastropoda) Fed with Formulated Diets” *Indian journal of Marine science* **2013**
7. J. S. Y. Kumar, S. Geetha, **R. Sornaraj**, “Diversity and distribution of reef fishes in Gulf of Mannar Islands, India” *Ecology and Conservation of Tropical Marine Faunal Communities*, **2013**, 19, 297-310.
8. S. Geetha J. S.Y. Kumar, **R. Sornaraj**, “Observation of Pennatulacea (Order) From Gulf of Mannar Biosphere Reserve” *Indian Scholars Academic Journal of Biosciences* **2013**, 1, 309-312.
9. A. A. Jaisheeba, **R. Sornaraj**, “Westernized food habits and its implications on the health status of school going students of Tirunelveli” *UGC sponsored national conference -Proceedings held at Annammal college of Education, Thoothukudi* **2013**.
10. T. Mariammal, **R. Sornaraj**, “Sophistication influenced physical and biochemical observations among office workers” *UGC sponsored national conference, Annammal college of Education , Thoothukudi* **2013**.

11. K. Gayathri, **R.Sornaraj** “Work influenced physical and physiological alterations observed among teaching community” *UGC sponsored national conference, Annammal college of Education, Thoothukudi* **2013**.
12. T. Mariammal, A. A. Jaisheeba, **R. Sornaraj**, “Work Related Respiratory Symptoms and Pulmonary Function Tests Observed Among Construction and Sanitary Workers of Thoothukudi” *International Journal of PharmTech Research*. **2012**, 4, 1266-1273.
13. K. Gayathri, A. A. Jaisheeba, **R. Sornaraj**, “Physical and Cardiovascular Implications of Noise Pollution prevailed in Thoothukudi the Industrial City, Tamilnadu, India” *International Journal of ChemTech Research*. **2012**, 4, 1223-1228.
14. A. A. Jaisheeba, **R. Sornaraj**, K. Gayathri, “High prevalence of occupational environment influenced high Blood pressure observed among Saltpan workers of Thoothukudi”. *International Journal of ChemTech Research*. **2012**, 4, 1013-1022.
15. A. A. Jaisheeba, **R. Sornaraj**, K. Gayathri, “Influence of Westernized culture and changed dietary habits on the BMI status of the school children of Tirunelveli” *International Journal of PharmTech Research*. **2012**, 4, 1065-1077.
16. K. Gayathri, A. A. Jaisheeba, **R. Sornaraj**, “Assessment of Noise Pollution in Thoothukudi City” *International Journal of PharmTech Research*. **2012**, 4, 1345-1350.
17. T. A. Mariammal, A. A. Jaisheeba, **R. Sornaraj**, “Occupation Influenced Physical Illness Observed Among the Teachers of Thoothukudi Town” *International Journal of Pharm. Tech Research*. **2012**, 4, 1274-1278.
18. **S. Kanagaprabha**, A. T. Asvinimeenaatci, G. Sudhapriyanga, R. Rajeswarapalanichamy, K. Iyakutti, “First Principles study of stability and electronic structure of TMH and TMH₂ (TM=Y,Zr,Nb)” *Acta Physica Polonica A*, **2013**, 123, 126-131.
19. **S. Kanagaprabha**, R. Rajeswarapalanichamy, K. Iyakutti, “First Principles Study of Electronic Structure and Magnetic Properties of TMH (TM = Cr, Mn, Fe, Co)” *International Journal of Metals* **2013**, ID 743652.
20. **S. Kanagaprabha**, S. Puvaneswari, **K. Iyakutti**, R. Rajeswarapalanichamy, A. Murugan, “Investigation of Electron Crystallization with HCP Structure” *Walailak J. Sci. & Tech.* **2013**, 10, 331-342.
21. A. Murugan, **S. Kanagaprabha**, R. Rajeswarapalanichamy, “First Principles study of “111” type Iron Arsenide Superconductors” *AIP Conf. Proc.* **2013**, 1536, 297.
22. R. Rajeswarapalanichamy, M. Santhosh, G. Sudha Priyanga, A. T. Asvini Meenaatci, and **S. Kanagaprabha**, “Electronic, structural and ground state properties of 3d transition metal mononitrides: A first principles study” *AIP Conf. Proc.* **2013**, 1536, 399.

23. **S. Kanagabrabha**, M. Santhosh, G. Sudhapriyanga, A. T. Asvinimeenaatci, R. Rajeswarapalanichamy, K. Iyakutti, "Elasticity and structural phase transition in TiH and VH: An ab initio study" *AIP Conf. Proc.* **2013**, 1536, 919.
24. **S. Kanagaprabha**, M. Santhosh, R. Rajeswarapalanichamy, K. Iyakutti, "First principles study of CrH and CrM₂H" *AIP Conf. Proc.* **2013**, 1536, 921.
25. M. Santhosh, **S. Kanagaprabha**, G. Sudhapriyanga, A. T. Asvinimeenaatci, R. Rajeswara Palanichamy, "First principles study of semiconductor to metallic transition in cadmium selenide under high pressure" *AIP Conf. Proc.* **2013**, 1536, 923.
26. R. R. Palanichamy, G. S. Priyanga, A. Murugan, M. Santhosh, A. J. Cinthia, **S Kanagaprabha**, First Principles Study of Structural, Electronic and Elastic properties of Group IB metal nitrides TMN_x (TM= Cu, Ag and Au: x=1,2), *Journal of Alloys and Compounds* **2013**, 580, 332–340.
27. "Rural Telecommunication in India: The core of Rural Infrastructure" *Souvenir in National conference on "Impact of PPP in Rural "Economic Development"*, Kamadhenu Arts and Science College, Sathyamangalam, **2013**, 20.
28. **D. Nagarajan**, "A study of age and growth of *Secutor insidiator* (Bloch) from Tuticorin waters of southeast coast of India" *International Journal of Research in Fisheries and Aquaculture*, **2013**, 3, 122-129. .
29. **X. Helan Flora** "Influence of Lithium Salt Concentration on PAN - PMMA Blend Polymer Electrolytes" *International Journal of electrochemical science*, **2012**, 7, 7451-7462.
30. **X. Helan Flora**, "Role of Different Plasticizers in Li-Ion Conducting Poly(Acrylonitrile) -Poly(Methyl Methacrylate) Hybrid Polymer Electrolyte" *Energy Research Institute @ NTU (ERI @ N), Nanyang Technological University , Singapore* **2013**.
31. Raja A.S., and **Joseph Raj V** "Neural Network Based Supervised Self Organizing Maps for Recognition" , *International Journal on Soft Computing (IJSC)*, Vol.3, August 2012, ISSN 2229-6735 (Online), 2229-7103 (Print), pp31-39
32. Raja A.S., and **Joseph Raj V.**, " A New Recognition Technique Named SOMP Based on Palmprint Using Neural Network Based Self Organizing Maps", *ICTACT Journal on Image and Video Processing*, Vol.03, Issue 01, August 2012, ISSN 0976-9099, PP.452-458
33. Raja A.S., and **Joseph Raj V.**, " An adaptive Recognition Technique named SOMEF based in Ear and Face without Subject's Cooperation Using Neural Network Based self Organizing Maps", *Asian journal of Information Technology, Medwell journals*, Vol. 11, No.6,2012, ISSN 1993-5994 (Online), ISSN 1682-3915(Print), PP.244-251

34. Safish Mary M., and **Joseph Raj V.**, “Data classification with Neural Classifier using Radial Basis Function with Data Reduction and Feature Selection “, JM International Journal of IT, Vol 2, ISSUE – 1 ,January 2012, ISSN NO. 2229-6115, pp.20-25
35. Sharmina Rpss B., and **Joseph Raj V.**, “Improvement of Blowfish Encryption Algorithm by modifying its Function”, International Journal of IT, Vol. 2, Issue-1, January 2012, ISSNNO. 2229-6115 pp 37-40.
36. Safish Mary M., and **Joseph Raj V.**, “Data classification with Neural Classifier using Radial Basis Function with Data Reduction using Hierarchical Clustering”, ICTACT Journal on Soft Computing. April 2012, ISSN 0976-6561, pp.348-352.
37. Janeela Theresa M.M., and **Joseph Raj V.**, “Better Performance of Priori Weight on Fuzzy Neural Network for the Classification of Criminal Law”, JM International Journal of Information Technology, vol. 2, No. 2, August 2012, ISSN No. 2229-6115, pp.61-69
38. **Dr. S. Durairaj** , Associate Professor, Department of Mathematics, Kamaraj college, Thoothukudi “Estimation in the Firm Specific Production Function” – International Journal on Advanced Information and Communication Technology –ISSN 0974-7605 Vol. 9, No. 1, January 2013, Page 9-13.
39. **Dr. S. Durairaj** , Associate Professor, Department of Mathematics, Kamaraj college, Thoothukudi “Behaviour of Continuous and non Continuous Functions” - International Journal on Advanced Information and Communication Technology –ISSN 0974-7605 Vol. 9, No. 1, January 2013, Page 17-21
40. Janeela Theresa M.M., and **Joseph Raj V.**, “Selection of Optimum patterns for better Performance of Neural Network in Criminal Law”, 7th International Symposium on Electrical and Electronics Engineering and Computer Systems, European University of Lefke, North Cyprus, November2012, PP. 221-227.
41. Kavitha Jeba Malar R., and **Joseph Raj V.**, “Finger Print Verification Using Fuzzy Feature Matching”, International conference on Emerging Trends in Engineering and Computer Technology, Teethanker Mahaveer University, India , 2012, CS-175.
42. Raja A.S., and **Joseph Raj V.**, “ How Biometrics Along with Table Devices shall create great learning opportunities in class rooms: The BT frame work”, IEEE International Conference on Technology Enhanced Education, Amrita University, India, 2012, ISBN 978-953-51-0096-6, Paper Code 279, Vol. 99, PP. 1-5 (indexed by IEEE and Scopus)

2013-2014

1. G. Chelladurai, T. Veni, **J. Mohanraj**, “Effect of Herbal Extracts Supplemented diets on Non Specific Immunity and Resistance to Aeromonas hydrophila in Indian cat fish (Mystus montanus), *Journal of Zoological and Bioscience Research*, **2014**, 1, 9-13.
2. G. Chelladurai, **J. Mohan raj**, M. Sasirekhamani, “*In vivo* Cultivation Technology and nutritional status of Milky mushroom (*Calocybe indica*)” *African journal of Biotechnology*. **2014**, 13, 3901-3906.

3. **J. Mohan raj**, G. Chelladurai, P. K. Deepa, P. Ramasamy, M. Sasirekha Mani, “Antibacterial activity of Marine gastropod *Hemifusus pugilinus* (Born, 1778) against human pathogenic bacteria” *International Journal of Marine Science* **2014**, 4, 1- 4.
4. G. Chelladurai, **J. Mohanraj**, “Anti-biogram of coral reef associated molluscs from Gulf of Mannar, India” *Indian journal of marine science*. **2014**,
5. **J. Mohanraj**, G. Chelladurai, S. Balakrishnan, M. Sasirekhamani, “Coral reef associated gastropod diversity from Gulf of Mannar Islands of Tuticorin coast” *Journal of Asian pacific Biodiverisity*, **2014**.
6. S. Balakrishnan, M. Srinivasan, **J. Mohanraj**, “Biosynthesis of silver nanoparticles from mangrove plant (*Avicennia marina*) extract and their potential mosquito larvicidal property” *J. Parasit Dis*, **2014**.
7. S. Balakrishnan , M. Srinivasan, **J. Mohanraj**, “Diversity of some insect fauna in different coastal habitats of Tamil Nadu, southeast coast of India” *Journal of Asia-Pacific Biodiversity*, **2014**, 7, 408-414.
8. T. Veni, **J. Mohanraj**, “Diversity of insect fauna in betelvine ecosystem associated with *sesbania sesban* in Attur, Tuticorin district” *International Journal of Recent Scientific Research*, **2013**, 2, 139-152.
9. T. Veni, **J. Mohanraj**, “Analysis of water quality in relation to physico – chemical parameters of groundwater in selected areas of Tuticorin district, Tamilnadu” *International Journal of Scientific Research* **2013**, 10, 2.
10. J. S. Y. Kumar, S. Geetha, **R. Sornaraj**, “Seasonal Changes of Sedimentation Rates and Sediment Characteristics Status in the Gulf of Mannar Coral Island, India” *International Letters of Natural Sciences* **2014**, 1, 8-24.
11. A. K. Kiruthika, **R. Sornaraj**, “Controlling the microbial load in the polluted atmosphere using dried flower extracts by modified open plate method” *International Journal of Advanced Zoological Research*, **2014**, 1, 1- 4.
12. A. K. Kiruthika, **R. Sornaraj**, “Assessment of antioxidant property of *quisqualisindica*” *Asian Journal of Pharmaceutical Science & Technology*, **2014**, 1, 34-36.
13. **T. Balasubramanian**, S. Zion Chella, “Some class of generalized entire sequence of Modal Interval numbers” Department of Mathematics, Dr.G.U.Pope college of Engineering, Sawyerpuram, Tuticorin, Tamilnadu, India.
14. **M. Navaneethakrishnan**, P. Periyasamy, “*American Journal of Mathematical Science and Applications*” **2014**, 2,
15. **D. Nagarajan**, “A study of age and growth of *Gazza minuta* (Bloch) from Tuticorin waters of southeast coast of India” *Transactions on Engineering and Sciences* **2014**. 2.
16. **D. Nagarajan**, “Food and feeding in *Leiognathus dussumieri* (Valenciennes) from Thoothukudi, Southeast coast of India” *Transactions on Engineering and Sciences* **2014**, 2.

17. **D. Nagarajan**, "Food and feeding habits in *Leiognathus berbis* (Valenciennes) from Titicorin, Southeast coast of India" *International Journal of Research in Fisheries and Aquaculture* **2014**, 4, 126-133.
18. P. Subramaniam, **S. Sugirtha Devi**, S. Anbarasan "Proximal effect of the nitrogen bases in the oxidative decarboxylation of phenylsulfinylacetic acids by oxo(salen)chromium(V) complexes, *J. Molecular and catalysis A: Chemical* **2014**, 390, 159-168.
19. P. Subramaniam, N. Tamil Selvi, **S. Sugirtha Devi**, "Spectral and Mechanistic Investigation of Oxidative Decarboxylation of Phenylsulfinylacetic Acid by Cr(VI), *Journal of the Korean Chemical Society* **2014**, 58, 17.
20. **S. Kanagaprabha**, R. Rajeswarapalanichamy, G. Sudha Priyanga, M.Santhosh, K. Iyakutti, "First Principles Study of Structural, Electronic and Elastic Properties of ScH and ScH₂" *International Journal of Scientific & Engineering Research*, **2014**, 5, 129-132.
21. M. Santhosh, R. Rajeswarapalanichamy, G. Sudhapriyanga, A. Murugan, **S. Kanagaprabha**, K. Iyakutti, "Structural, Electronic and Elastic Properties of LiXN (X = Be, Mg): A First Principles Study" *International Journal of Scientific & Engineering Research*, **2014**, 5, 161-164
22. A. Murugan, R. Rajeswarapalanichamy, M.Santhosh, G.Sudha Priyanga, **S. Kanagaprabha**, K. Iyakutti, "Half Metallic Ferromagnetism in Alkali Metal Nitrides XN (X= Li, Na): A First Principles Study" *International Journal of Scientific & Engineering Research* **2014**, 5, 165-168.
23. **S. Kanagaprabha**, R. Rajeswarapalanichamy, G. Sudhapriyanga, A. Murugan, M. Santhosh, K. Iyakutti, "Investigation of structural stability and elastic properties of ZrH and ZrH₂ : A first principles study" *AIP Conference Proceedings* **2014**, 1591, 67.
24. M. Santhosh, R. Rajeswarapalanichamy, **S. Kanagaprabha**, G. Sudhapriyanga, A. Murugan, A. Jemmy Chinthia, K. Iyakutti, "Structural phase transition and elastic properties of hafnium dihydride: A first principles study," *AIP Conference Proceedings* **2014**, 1591, 117.
25. A. Murugan, R. Rajeswarapalanichamy, M. Santhosh, G. Sudhapriyanga, **S. Kanagaprabha**, Half metallic ferromagnetism in alkali metal nitrides MN (M = Rb, Cs): A first principles study, *AIP Conference Proceedings* **2014**, 1591, 1140.
26. **S. Kanagaprabha**, R. rajeswarapalanichamy, K. Iyakutti, "First Principles Study of Titanium Hydrides, TiH_n: n = 1, 2, 3; Energetics and Phase Transition" *Walailak J Sci & Tech* **2014**, 11, 525-536.
27. SWOT Analysis – FDI in retail business – published in International Journal & Multidisciplinary sciences and Research vol.1, Issue-6, January 2014. ISSN No.2321-4872.
28. **A. Kalaiyarasi**, N. Meenakumari, M. Navaneethkrishnan, "Fuzzy hyper bi- Γ - ideals in Γ -hypernear-rings" *International Journal of Mathematical Archive* **2014**, 6, 62-66.

29. **G. Ragukumar**, P. Andal, M. Murugavelu, C. Lavanya , M.S. Ramachandran “Effect of Metal ions on acetone dicarboxylic acid catalyzed peroxomonosulphate reactions” *Journal of Molecular Catalysis A: Chemical* **2014**, 390, 22-28.
30. Department of Economics, Kamaraj College, Thoothukudi, Tamilnadu and D. Jery Josephine Department of Economics, Pope’s College, Sawyerpuram. Puplicher in SPEAR, July December 2013, Volume II, No. 2, ISSN: 2319-1902.
31. **C. Mathanakamaraj** “Agriculture Productivity in India – Issues and Challenges”, *Research Explorer*, **2013**, 2, ISSN: 2250-1940.
32. **C. Mathanakamaraj** “E-CRM Golden Opportunity for Indian Banks – A Critical Analysis” *Journal of Social Science*, **2013**, ISSN:0975-9999.
33. **X. H. Flora**, M. Ulaganathan, K. Kesavan, S. Rajendran “Synthesis of Bendable Plasticized Nanocomposite Polymer Electrolyte Poly(Acrylonitrile)/Poly (Methyl Methacrylate) Polymer Blends”| *Z. Phys. Chem.* **2014**, 228, 673.
34. **J. Poongodi**, “Excess free voulume & Internal pressure of binary solutions of isopropyl alcohol with benzene at different temperature” *20th National symposium on Ultrasonics* **2014**, 141.
35. **J. Poongodi**, “Acoustical and thermodynamical studies of binary liquid mixtures” *20th National symposium on Ultrasonics* **2014**, 156.
36. **J. Poongodi**, “Study of molecular interactions in binary mixtures of alcohol with benzene” *20th National symposium on Ultrasonics* **2014**, 195.
37. Stella Morris, The soon chin, Morris A.G. Ezra and **Joseph Raj V.**, “ Concept Design of a Modified Airfoil Blade with Drag Assist for a Vertical Axis Micro Wind Turbane”, *International Journal of Engineering Research and Technology (IJERT)*, Vol. 6, No 1, 2013, ISSN 0974-3154, pp.105-113
38. Janeela Theresa M.M., and **Joseph Raj V.** “Fuzzy based Genetics Neural Network for the Classification of Murder Cases Using Trapezoidal and Lagrange Interpolation Membership Function”, Elsevier: *Applied Soft Computing*, Impact Factor 2.68, Vol. 13, No. 1, January 2013, ISSN 1568-4946 PP. 743-754.
39. Heren Chellam G., and **Joseph Raj V.**, “ Optimal Number of Orthonormalisation in Learning Algorithm of Artificial Neural Network”, *Autosoft Journal: Intelligent Automation and Soft Computing (Revised and sent as per the direction of the Editor)*, 2014.
40. Raja A.S., and **Joseph Raj V.**, “ An Adaptive Recognition Technique named SOMEF based on Palm Print and Face Using Neural Network Based Self Organizing Maps”, *Journal of computer Science and Application*, Vol. 5, No. 1, February 2013. ISSN 2231-1270, pp.1-13.
41. Raja A.S., and **Joseph Raj V.**, “ A new metric based on Motifs for Image Recognition”, *National Conference on Innovations in Advance Computing Technologies (NCIACT)*, Computer Society of India, Kanyakumari Chapter, February 2013, PP. 1-6

- 42. Dr. S. Durairaj** , Associate Professor, Department of Mathematics, Kamaraj college, Thoothukudi. “stochastic Frontier Analysis of Production Function and Cost Function estimation methods A study at small Industry level” – International Journal on Advanced Information and Communication Technology ISSN 0974 – 7605 Volume 8-No. 3 – July 2013- Page95-98.
- 43. Dr. S. Durairaj** , Associate Professor, Department of Mathematics, Kamaraj college, Thoothukudi “Hidden Morkov Model – An Application to segmentation of hydrological and Environmental Time Series” - International Journal on Applied Information and Communication Technology –ISSN 0974-7915 Vol. 9, No. 3, July 2013, Page 72 – 79
- 44. Dr. S. Durairaj** , Associate Professor, Department of Mathematics, Kamaraj college, Thoothukudi “ Non continuity and week forms of continuity” - International Journal on Advanced Information and Communication Technology –ISSN 0974-7605 Vol. 9, No. 4, October 2013, Page 88-93.
- 45. Dr. S. Durairaj** , Associate Professor, Department of Mathematics, Kamaraj college, Thoothukudi Application of fuzzy Analytical Hierarchy process to Multicriteria Decision making” International Journal on Advanced Information and Communication Technology –ISSN 0974-7605 Vol. 8, No. 4, December 2013.
- 46. Dr. S. Durairaj** , Associate Professor, Department of Mathematics, Kamaraj college, Thoothukudi “ On Most Generalized Topologies on a Non Empty Set” – International Journal of Mathematics Trends and Technology – ISSN 2231-5373-Vol 7, No. 1 March 2014

2014 – 2015

1. **J. Mohan raj**, G.Chelladurai, S.Balakrishnan, “Report on occurrence of abnormal four armed red-knobbed starfish *Protoreaster linckii* (Blain Ville, 1830) (Echinodermata: Astroidea) along Tuticorin coast, Gulf of Mannar (Southeast coast of India)” **2015** Marine Biodiversity Record, Cambridge University.(Accepted)
2. S. Balakrishnan, G. Chelladurai, **J. Mohanraj**, J. Poongodi, “Seasonal variations in Physico-Chemical characteristics of Tuticorin coastal waters, southeast coast of India” *Journal of Applied water science*, **2015**, (Accepted)
3. G. Chelladurai, **J. Mohanraj**, S. Balakrishnan, “New Occurrence of parasitic isopod *Argathona* sp. (Stebbing, 1905) from *Epinephelus undulosus* in the Tuticorin coast, Gulf of Mannar region” *Journal of Parasitic Disease* **2015**, (Accepted).
4. M. Santhosh, **S. Kanagaprabha**, G. Sudha priyanka, R. Rajeswara palanichamy, K. Iyakutti, “First principle study of structural stability, electronic structure and mechanical properties of Alkali Beryllium hydrides $ABeH_3$ (A = K, Rb, Cs)”, *Journal of Physics and Chemistry of Solids* **2015**, 81, 34-39.
5. **T. Balasubramanian**, S. Z. C. Ruth, “Entire Sequence Space of Modals IJISSET” *International Journal of Innovative Science, Engineering & Technology*, **2014**, 1, ISSN 2348 – 7968.

6. **T. Balasubramanian**, S. Z. C. Ruth “Some Classes of Entire Sequence of Modals” *International Journal of Electronics Communication and Computer Engineering*, **2014**, ISSN (Print): 2278 – 4209.
7. **T. Balasubramanian**, S. Z. C. Ruth “Hahn Sequence Space of Modals” **2014**.
8. **M. Navaneethakrishnan**, P. Periyasamy, S. Pious Missier “ δ – Closed set in Ideal Topological Spaces” *ISRO Journal of Mathematics*, **2015**, 11, 1-12.
9. **M. Navaneethakrishnan**, P. Periyasamy, S. Pious Missier “Between δ – I closed sets and g- closed sets” *International Journal of Modern Engineering Research (IJMER)*, **2015**, ISSN: 2249-6645.
10. **Navaneethakrishnan**, P. Periyasamy, S. Pious Missier “On Some locally closed sets and and Spaces In Ideal Topolgical Spaces” *International Journal of Modern Engineering Research (IJMER)* ISSN: 2249-6645.
11. **A. Devaraj**, “De La Salle’s Unique Educational Pedagogy” *International Interdisciplinary Research Journal*, **2015**, ISSN 2249-9598.
12. **A. Devaraj**, “History of St. John Baptist De La Salle” *Asian Academic Research Journal of Multidisciplinary*, **2015**, ISSN: 2319-2801.
13. **D. Kanagavel**, M. M. Dennison “Spectral and Thermal Studies of Some Binuclear Dimeric Mo-O-Mo Bridged Oxomolybdenum(V) Complexes with Bis(carboxamides) Derived from 4,4’-Diaminobiphenyl, 1,4-diaminobenzene with Anhydrides” *Chemical Science Transactions*, 2014,3, 586.
14. K. Selvakumar, **K. Arun Prasath Lingam**, **R. V. Luxmi Varma**. “Development of a mild and efficient protocol for the protection and O-alkylation of allyl alcohols” *RSC Advances* **2014**, 4, 36538-36564.
15. K. Selvakumar, **K. Arun Prasath Lingam**, **R. V. Luxmi Varma**, V. Vijayabhasker “Controlled and Efficient Synthesis of Quinoline Derivatives from Morita–Baylis–Hillman Adducts by Palladium-Catalyzed Heck Reaction and Cyclization” *Syn. Lett.* **2015**, 26, 646-650.
16. K. Selvakumar, **K. Arun Prasath Lingam**, “Synthesis of Bis MBH-adducts of isatin from mono MBH adduct” *J. Indian. Chem. Science*, **2015**, (Accepted).
17. **Ms T.Karpagavalli**, “Personal instability and cross cultural conflict in Bharati Mukherjee’s wife” UGC national Conference on 18th and 19th of February,2015. ISBN 978-81-925642-2-7.
18. “Intuitionistic Fuzzy Near-Rings by Intuitionisti Fuzzy Graphs” **Kalaiyarasi** and N. Meenakumari. *Journal of Modern Science* 2015; 7(1):22
19. Kavitha Jeba Malar R., and **Joseph Raj V.**, “Biometric Hand Recognition using Polygonal Method”, *Journal of Emerging Technologies image processing and networking*, 2014, ISSN 0973-2993, PP. 81-84.
20. Linda J **Joseph Raj V.**, and Golden Julie E, “Intrusion Model Based on Neural Network with Genetic and Fuzzy Technique”, *Internaional Conference on Advanced Technologies*

in Computing”, ICT Academy of Tamilnadu and Women’s Christian College (MS University), 2014, ISBN 978-81-910747-6-5, pp. 64-69

21. Joliz Anton V.,and **Joseph Raj V.**, “Detection of Security Threats for Virtualized Data Center and Colud Infrastructure Using NeuralNetwork”, International Conference on Advanced Technologies in Computing”, ICT Academy of Tamilnadu and Women’s Christian MS University), 2014, ISBN 978-81-910747-6-5, pp. 134-137

POST-ACCREDITATION REPORT

The quality of a successful educational institution lies not only on the buildings and the other infrastructure facilities but also on the quality of teachers and students. We have presented below the various achievements of our college related to the Major, Minor projects, University rank holders, faculties awarded with Ph.D., number of players representing the district & the University, science awareness programmes and the like for the past four years between June 2011 & May 2015.

Special grants or finances received from the industry or other beneficiary agency for developing research facilities.

MAJOR PROJECTS

No	Name of the Faculty	Title of the Project	Period	Amount Sanctioned (Rs.)
1	Dr M.Sakthivel	Faltering of lobster juveniles for technology demonstration at selected coastal villages in Gulf of Mannar	2009 – 2012	Rs.18, 58,196
2	Dr J.Mohanraj	Development of Technologies for hatchery production of Marine gastropods in Gulf of Mannar Island	2007-08 to 2011-12	Rs65,39,763
3	Dr G.Vanmathi	Studies on Development of Electron Beam Treated Heterogeneous Catalysts suitable for Organic Synthesis	May 2012 – Mar 2015	Rs.23 Lakhs
4	Dr J.Mohanraj & Dr J.Poongodi	Monitoring and dissemination of data from the wave rider buoy and compare the physiochemical parameters along the Tuticorin coastal water.	2014-2017	Rs 12,03,840/=
5	Dr M.Sakthivel	A portable FRP Carp Hatchery Technology: A successful adoption in adopted villages in Tuticorin District	2014-15	Rs 17,63,100/=
6	Dr G.Vanmathi	Studies on Development of Electron Beam Treated Heterogeneous Catalysts suitable for Organic Synthesis	2012-15	Rs 23,00,000/=

MINOR PROJECTS

No.	Name of the Faculty and funding agency	Title of the Project	Period	Amount Sanctioned (Rs)
1.	Mrs S.Kanagaprabha	Investigation of Electronic, mechanical and elastic properties of some hydrogen storage materials	2013-2015	Rs 4,25,000
2.	Dr J.Poongodi	Physio-chemical studies on molecular interaction of binary liquid mixtures at different temperature	2013-2015	Rs1,81,000

Various achievements during the past four years

Activities	2011-12	2012-13	2013-14	2014-15	Total
No. of Ph.D. awarded to our faculty	1	2	2	1	6
No. of Ph.D. awarded under the guidance of our faculty	7	6	4	6	23
No. of faculty as resource persons	7	5	8	6	26
No. of faculty participated in seminar/ conferences	17	17	41	18	93
No. of faculty Presented papers in seminar/ conferences	-	3	5	4	12
No. of publications in National /International Journals	22	30	36	16	104
No. of Seminars / Workshops conducted	-	-	1	-	1
University Rank Holders	14	11	12	Awaiting	37
No. of students participated in University/State level Sports and Games	100	120	132	140	492
No. of students participated in National level Sports and Games	3	5	4	4	16
No. of players representing the District	4	6	4	-	14
No. of players representing the MS University	3	3	1	1	8
No. of Medals won by students in state Open Tournaments	1	-	1	-	2
Total Books added to the Library	700	484	245	717	2346

MAJOR ACTIVITIES

2011 – 2012

- ❖ Our College NCC Army wing is functioning under the leadership Lt.Dr. Helan Flora. 50 cadets participated in Tobacco Prohibition Awareness Rally and Cancer Awareness Rally on 17.11.2011.

- ❖ Our College NCC Navy Wing is functioning under the guidance of Lt. Dr. Asok, 10 cadets attended Blood Donation Camp at Government Hospital, Thoothukudi on 26.08.2011
- ❖ Our College NSS volunteers regulate road traffic in the proximity of our College. Many Seminars, Workshops, Yoga and personality development camps are organized.
- ❖ Voters' day was celebrated by our College NSS units. District Collector Mr. Ashish Kumar, I.A.S., inaugurated the rally of human chain in front of our College. More than 300 NSS Volunteers formed the Human Chain.
- ❖ Yoga club of Kamaraj College in collaboration with Vethathiri Institute for Spiritual and Intutional Education, Azhiyar was inaugurated in our College. This year 157 students belonging to different disciplines enrolled in this club. It is sure that the students have been will certainly become well informed about the life and its association with nature.
- ❖ A subject called "Manavalakalvi Yoga" is taught to the I Year students of Botany, Physics, Maths and Commerce Majors, under the Value based Education scheme with the approval of Manonmaniam Sundaranar University, Tirunelveli. Nearly 210 Students are benefited by this Programme.
- ❖ Career Guidance Cell has arranged 13 programmes such as seminars, workshops and interactive sessions by inviting 20 experts and resource persons to deliver lectures on various topics such as Logistics, career planning, interview skills, communication, sales techniques, attitude development, employment opportunities, resume preparation etc. The final year UG and PG students were benefitted.

2012 – 2013

- ❖ Our College NCC Army wing is functioning under the leadership of Lt. Dr. Helan Flora. 50 cadets participated in etc.
- ❖ Our College NCC Naval Wings is function under the guidance of Lt Dr. Asok. 15 cadets attended Blood Donation Camp at Government Hospital, Thoothukudi on 02.09.2012 and donated blood.

- ❖ Our NCC Naval Wing cadets attended “Coast Guard Walkathon” programme on 27.01.2013 and donated blood.
- ❖ The Cancer day rally was conducted by our naval wing on 12.02.2013.
- ❖ Our College NSS Volunteers Regulate Road Traffic in the proximity of our College. Many Seminars, Workshops, Yoga and personality development camps were organized. On 28.09.2012 eye donation awareness camp was conducted. Nearly 30 boys and 30 girls participated in that programme.
- ❖ Voters’ awareness day was organized by the District Administration in the presence of our District Collector on 26.02.2013,
- ❖ The employment awareness programme was organized jointly by the Employment officer and District Collector at our College. On 08.03.2013, an eye donation camp was convened in coloboration with Agarwal eye hospital, Thoothukudi.
- ❖ On 16.03.2013, a health awareness camp was convened.
- ❖ The NSS volunteers visited and served the Children in the “Joy to the World of Orphanage Home” Arumuganeri on 02.03.2013.They also visited and served the old people in “Aanamavin Anbu Kapagam” Thoothukudi on 09.03.2013.
- ❖ On 18.01.2013, priceless laptops were issued to the second year students of our College. The District Collector Shri Ashishkumar, I.A.S., presided over the function in the presence of the Thoothukudi city corporation Mayor Tmt. L. Sasikala Pushpa. The Honourable Minister for Labour Welfare Thiru S. T. Chellapandian distributed 600 Laptops
- ❖ On 13.04.2013, priceless laptops were issued to the third year students of our College. The District Collector Shri Ashishkumar, I.A.S., presided over the function. The Honourable Minister for Labour Welfare Thiru S. Chellapandian distributed 320 Laptops.

2013 – 2014

- ❖ On 10.07.2013, a legal awareness camp sponsored by Lions club, Thoothukudi was organized in which 100 volunteers participated.

- ❖ On 29.09.2013, disaster management camp was organized by Sai-Ram Institution and TVS at Vanathirupathi in which 5 volunteers participated.
- ❖ 100 volunteers participated in the Human chain and rally organized by the District Collector towards the voters awareness day on 04.10.2013.
- ❖ A fire safety and LPG safety awareness camp was organized by M/s. Senthil Murugan Gas Agency. About 50 volunteers participated.
- ❖ On 30.10.2013, a anti corruption camp was organized by the CBI – Inspector Mr. S. Raja, more than 80 volunteers participated.
- ❖ A one day tree plantation camp was organized on 01.02.2014, at Roach park by the District Forest Department.
- ❖ On 25.01.2014, voter's awareness campaign was organized in our College. More than 100 NSS students participated. In order to create awareness among public human chain programme was organized by our N.S.S. and N.C.C. The district Collector participated in the hhuman chain along with students.

2014 – 2015

- ❖ A one day first aid camp was organized in our college. More than 50 boys and girls students participated on 09-08-2014.
- ❖ Voters awareness rally was organized by the revenue department under the leadeshship of the Tahsildar, Thoothukudi, More than 60 Boys and Girls participated in the awareness rally on 25.10.2014
- ❖ 10 cadets attended the blood donation camp at Thoothukudi Government Medical College Hospital on 23.09.2014.
- ❖ On 28.01.2015 campus cleaning activities was undertaken by the NSS students.

Science Awareness Prgrammes

Our College **Management** whole heartedly feels that the DST camp has enabled the meritorious students of schools towards the spirit of scientific enquiry & temper ushering a new era of knowledge and foresight. The student will gain a rare insight into the vistas of science through interaction with the

eminent personalities directly. This programme, which has been conducted for the last three years, has really inspired them towards Scientific.

INSPIRE Internship 2012 -2013

Dr. G. Vanmathi, Assistant Professor of Chemistry of our college has organized a Residential Science Camp – INSPIRE Internship – 2012 for Higher Secondary Science Students funded by the Department of Science and Technology, New Delhi during November 29 to December 3, 2012. 175 students from various institutions have participated in the science camp. 15 Resource persons from different fields of science gave lectures in the Camp with practical demonstrations. Most of them were academic fellows and Bhatnagar Awardees.

INSPIRE Internship 2013 -2014

Dr. G. Vanmathi, Assistant Professor of Chemistry of our college organized a Residential Science Camp – INSPIRE Internship – 2013 for Higher Secondary Science Students funded by the Department of Science and Technology, New Delhi during November 28 to December 2, 2014. 180 students from various institutions participated in the science camp. 15 Resource persons from different fields of sciences gave lectures in the camp with practical demonstrations.

INSPIRE Internship 2014 -2015

Dr. G. Vanmathi, Assistant Professor of Chemistry of our College organized a Residential Science Camp – INSPIRE Internship – 2014 for Higher Secondary Science Students funded by the Department of Science and Technology, New Delhi during November 27 to December 1, 2014. 190 students from 35 Schools participated in the Science Camp. 15 Mentors from different fields of sciences delivered lectures in the camp with practical demonstrations.

YOUNG STUDENT SCIENTIFIC PROGRAMME

A Science and research motivation programme, "Young student Scientific Programme" was conducted for 20 days, from 07-05-2014 to 26-05-2014. This programme was sponsored by Tamil Nadu State Council for Science and Technology (Sanction order No. TNSCST/YSSP/VR/2013-2014 dated on 19.12.2013). The programme was organized by **Dr. J. Nagarajan, Assistant Professor, Department of Zoology, Kamaraj, Thoothukudi.** Under this motivation programme 40 IXth Standard students from Government Panchayat schools and others schools, located in rural areas of Ramanathapuram and Thoothukudi Districts were selected, based on their performance in Science subject. They were given special training on science subjects such as physics, chemistry, mathematics, biology, environmental sciences and computer sciences by highly qualified faculty members of various colleges. The students were given theoretical instruction during morning sessions and the afternoons spent on practical work, where they allowed to work independently and field trip to different scientific institutions. During the end of the programme the participated students were divided into groups and made to work on special science and technology project in different disciplines.

The plans initiated and implemented in the last four years Year Plans Implemented

YEAR	PLANS IMPLEMENTED
2011-2012	<ol style="list-style-type: none">1. Amount sanctioned through Major Projects Rs 65,39,7652. Amount Received from funding agencies Rs 6,31,101
2012-2013	<ol style="list-style-type: none">1. Amount sanctioned through Major Projects Rs 25,00,0002. Amount sanctioned through Minor Projects Rs 2,00,0003. Amount Received from funding agencies Rs 16,07,825
2013-2014	<ol style="list-style-type: none">1. Introduced M.A. History under Self Financing Courses.2. Introduced B.A. English under Self financing Self Financing Courses.3. Introduced B.Com with Computer Application under Self Financing Courses4. Introduced M.Com with Computer Application under Self Financing Courses.5. The Department of Mathematics of our college has been upgraded as the Centre for Research in Mathematics by the Manonmaniam sundaranar University, Tirunelveli. This Mathematics Research Centre was inaugurated on 08.08.2013.

	6. Amount sanctioned through Major Projects Rs 24,62,000 7. Amount sanctioned through Minor Projects Rs 4,25,000 8. Amount Received from funding agencies Rs 6,17,500
2014 – 2015	1. M.A. English under Self financing courses. 2. M.Sc. Chemistry under Self Financing Courses 3. B.C.A under Self Financing Courses 4. Amount sanctioned through Major Projects Rs Rs.17,63,100

DECLARATION BY THE HEAD OF THE INSTITUTION

I certify that the data included in the Self-Study Report (SSR) for reaccreditation are true to the best of my knowledge.

This SSR for reaccreditation is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the peer team will validate the information provided in this SSR for reaccreditation during the peer team visit.

Date: 12.08.2015

Place: Thoothukudi



(Dr. D.NAGARAJAN)

PRINCIPAL

CERTIFICATE OF COMPLIANCE

This is to certify that Kamaraj College, Thoothukudi, Tamil Nadu fulfils all norms

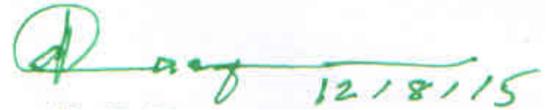
1. Stipulated by the affiliating University and/or
2. Regulatory Council/Body [such as UGC, NCTE, AICTE, MCI, DCI, BCI, etc.] and
3. The affiliation and recognition [if applicable] is valid as on date.

In case the affiliation / recognition is conditional, then a detailed enclosure with regard to compliance of conditions by the institution will be sent.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or Recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.

Date: 12.08.2015
Place: Thoothukudi



(Dr. D.NAGARAJAN)
PRINCIPAL