

Internal Quality Assurance Report

Submitted to

The National Assessment and Accreditation Council

By

Internal Quality Assurance Cell

Mahatma Gandhi College

Thiruvananthapuram

2007-08

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Preface

The Principal, members of the IQAC and the academic fraternity of Mahatma Gandhi College proudly present the self appraisal report of the college for the academic year 2007-2008. The college has made many creditable strides in teaching learning and Research activities this year. This report is a bona-fide account of all such activities.

The report is all inclusive, encompassing gamuts of activities in the college, curricular, research consultancy and extension, student support systems, Governance and leadership and innovative practices. Each item is elucidated with the help of charts, diagrams and appendices.

We earnestly hope that the report would give a clear picture of the status of the college at present. We would like to thank the management, staff and students who have been a source of inspiration to us.

Convener IQAC

Principal

Foreword

Mahatma Gandhi College, Trivandrum, founded by the great visionary, Bharath Kesari Mannath Padmanabhan in 1948, is one of the prestigious centers of higher education and Research in the state. With its sixty years of glorious service, it has become synonymous with excellence, equity and inclusiveness. The college was accredited at 'A' level by NAAC in 2004.

The self appraised report of the year 2007-08 has been prepared by the IQAC of the college. The academic year witnessed the setting up of new bench marks and initialization of new practices with a view to elevating the college to the status of a college with potential for excellence. The entire college community is happy that it could achieve most of the objectives set for the year. IT content in teaching and learning and administrative process has improved. An application for FIST support to the Department of Chemistry has been forwarded and the Department of Hindi has become the seventh Research Centre in the college.

We hope that the college would continue to be a beacon of hope for those students who strive for excellence.

Principal

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PART A

The Internal quality Assurance Cell of Mahatma Gandhi College is glad to place on record, the report of the academic and co curricular activities of the College for the year 2007-2008. As stated in our earlier account, the post accreditation scenario of the college augmented the academic receptivity of the key role players and fashioned a milieu, conducive for perceptive interventions and inclusive growth. Hence we could concentrate on formulating and implementing a sustainable strategy for consolidation of our accomplishments and institutionalization of the practices in operation. It is to be mentioned that post accreditation experience had ripened our mind set, paving the way for executing new academic bench marks and imbibing innovative practices. The IQAC meetings, frequently took stock of the positive state of affairs, redefined the quality indicators and implemented them with meticulous planning, the fruits of which are visible in quality of campus life and the achievements during the year.

1. Curricular Aspects

It is well known that the academic infrastructure associated with the university affiliating system is the major bottle neck in curriculum modernization at the user front. In spite of this restraint we have been expediting the techniques of strengthening the curriculum through curriculum supplements. We decided to adopt a two pronged strategy for curriculum innovation and enrichment. One, using members nominated to the university level academic bodies by various trade unions and other organizations, and the other by formulating and implementing supplementary agendas like 'add on courses' and 'soft skill' development programs etc. I T skill development, career oriented courses of UGC, associating students with research activities, story writing workshops, debate competitions, student projects etc. are some of the examples that we would like to espouse.

2. Teaching learning and evaluation

The academic fraternity of Mahatma Gandhi College realized the resurgence of global educational standards and the aspirations of our students to catch up with them. This need of the day was the major challenge we have to address during the year. As we could not abruptly do away with the conventional methodologies, we would like to couple the conservative teaching learning practices with the most modern ones, for a plodding improvement in our system. Realizing that education is no longer an affair of text books, teacher, blackboard and chalk pieces alone, we decided to experiment with IT based teaching, learning and evaluation techniques, the hall marks of modern teaching. The training programs and exposure given to our students and staff in this regard must be supportive in accomplishing our goals of the year. However the programs with exemplary insight will have to be continued for acquiring appropriate intellectual skills, from the universal ocean of knowledge.

The support of ICT tools like net browsing, digital library, and power point presentations could make noteworthy transformations in the academic arena and we realized the necessity of improving the physical infrastructure to accommodate modern IT tools. Resource constraint has been our major non stimulant enticing us to make an all out effort for resource mobilization. During the current year, use of ICT by teachers and students are expected to make remarkable strides in our onward march towards academic excellence. We presume that language learning can be enriched by the facilities provided by the language lab, once it becomes copiously functional. Students of humanities and social sciences can be provided with facilities to experiment the application of the principles they digested and assimilated The IQAC squad interacted with the College Planning Board and decided to bank on the academic ambience of the institution for resource mobilization, with the objective of further humanizing the teaching learning performances.

3. Research Consultancy and extension

All Research Departments of the College can exhibit glowing performances during the year, by producing PhDs and significant number of research publications. Department of Chemistry is projected to demonstrate high development potential with enhanced research activities. It is worth mentioning that, immediately after the starting of the P.G programme, the Dept was adept to attain the status of a Research Centre. Departments of Physics, Zoology and Chemistry are having ongoing major research projects, whereas, all research departments are having minor research projects, which can work out wonders in on coming days. All projects have been sanctioned by UGC and other funding agencies. Department of Hindi has been showing good penchant for developing research activities and the department of chemistry has already decided to seek financial assistance from DST under the FIST program.

Extension programs of diverse types are expected to be undertaken by several faculties. School adoption program, training program for gifted children, lab to land program, decentralized planning etc are some of them to be persistent, the details of which can be found in ensuing sections of this report. Consultancy services are offered by individual members of the faculty and the college is thinking of developing a consultancy and extension service cell. However no revenue could be generated by the college, till date, from consultancy services.

4 Infrastructure and learning resources

Though augmentation of infrastructure is indispensable for the overall development of the institution, the intercessions during the year are expected to be confined to the purchase of certain equipments and updating of the existing systems. Research has been an area where the institution can stand out during the year. The research infrastructures of the Departments like Chemistry and Physics can be strengthened by procuring equipments using UGC funds.

The current year will record some improvement in learning resources by increased access to internet and digital library. The college has formulated certain plans for generation of technology based E -learning resources including documentaries and lesson plans which will be implemented during subsequent years, based on resource availability. However faculty websites should be initiated. Expansion of the scheme will enable students to interact with teachers and fellow students of other institutions and collect digital notes etc. Teachers and students may use face book and other related websites to record their opinions and clarify certain doubts. The amount of e mail communication will make remarkable strides in empowering students during the year.

Procurement of new books is a regular exercise which will be continued. But we expect a shift in book preferences, from the low cost to the high end international category, of course an indicator of academic quality change.

5. Student support and progression

The academic support offered to students and their progression are factors linked to the quality of the new recruits which in turn determine the quality of an institution. Though the properly streamlined and transparent admission policy of the institution ensures admission to the finest applicants, the proliferation of self financing institutions has reduced the quality of student turnout to arts and basic science faculties. Hence tremendous input became indispensable to produce improved out put. An automated admission procedure, publication of the rank list in the college website and early dispatch of interview cards have been some of the positive steps in this direction as usual. Support services offered to students, both inside and outside the class room include PTSI sessions, remedial teaching, incentives to best learners and sports persons, scholarships to deserving and meritorious, consumer society services, various club activities, training programs, arts and sports festivals, extension programs etc. which are expected to epitomize the anticipated outcome

6. Governance and leadership

The general governance of the Institution as per norms stipulated by the State and Central Governments is the prerogative of the NSS Management. But the modus operandi of corporate academic governance pursued by the institution has been imperative in making the day to day administration smooth and efficient. Involvement of the stake holders in policy matters directly or indirectly is expected to enhance the acceptability of the programmes. Feed back collection and its presentation in the meetings of internal academic bodies has to be continued. The frequency of parent–teacher-student meetings have been increased during the year. Associations of teachers, non-teaching staff and students can contribute much in this direction. Sustenance of the leadership development programs launched by the college has to be expedited.

7. Innovative practices

Our ambition to indoctrinate, propagate and protract the diversity of innovative practices has been exigent due to dearth in academic autonomy. The programs for the development of research aptitude among students, innovative exam practices, schemes for serving slow learners, the system of apportioning the whole syllabus into small subunits, students presenting their research projects, 'each one teach one' are some of the programs that have to be implemented as usual.

Based on the suggestions of IQAC a program is to be initiated to increase the use of ICT in teaching and learning by designing an online internal examination module. However the system can achieve the expected results only if the paucity of desktop computers is properly resolved. A committee has set up for deporting and systematizing the internal examination system at PG and U G levels. The committee has to make every endeavor to supplement and amalgamate the conventional examination structure with the computerized modules.

Achievements of the institution at the end of the year

- ❖ Produced very good results at P G and UG levels.
- ❖ Intervened in curriculum modernization at the University level using members of PG and UG boards of studies
- ❖ Conducted an add on courses in Retail Marketing Management
- ❖ Soft skill development programs like spoken English and other language skills, including oriental language and computer skill development programs etc. were implemented for the P G and UG students.
- ❖ A few computers and soft wares were purchased for strengthening the I T infrastructure of the college
- ❖ The UG and P G students who expressed their inquisitiveness in research were attached to ongoing research projects of various departments. This proved to be a major capacity building program
- ❖ Story and script writing workshops, debate competitions and student projects turned out to be very fruitful ventures

Improvement of IT content in teaching – learning process

Five more computers were added to the central computer lab during the year. Departments of Hindi, Chemistry and Mathematics also improved their hardware stock. More teachers and students started using computers and internet enriching the teaching learning processes. The student turnout at the computer lab showed substantial increase during the period. Computer and internet facilities became part and parcel of the daily routine. Use of ICT resources in the preparation of assignments and project reports increased the quality of out put.

Training program

About 260 students and 14 staff members were trained during the period. The services of a full time system administrator enabled the smooth conduct of these activities.

The Department of Chemistry mobilized financial assistance to the tune of 22.50 lakhs under the FIST program of DST. The Department is expected to harness more assistance for strengthening the research infrastructure. The fund sanctioned could be utilized for the procurement of instruments, books and journals. FIST assistance includes a component for the maintenance of infrastructure also. The Department achieved substantial progress during the period in the field of phytochemical research when more research guides and 5 research scholars joined the department. Department of Hindi got recognition as an approved research centre of the University of Kerala. The research output in the form of publications increased substantially during this period. The number of research publications evidenced a quantum leap from 12 during 2006-07 to 28 during 2007-2008.

The college conducted two terminal examinations and one model examination. The committee consisting of the Heads of Departments oversaw the whole process. After the publication of mark lists, parents were invited for a meeting, and performance of their wards was discussed. Research projects of the P.G students were monitored by respective departments and the add on course in retail marketing management was continued during the year

Part B

Activities reflecting the goals and objectives of the institution

Mahatma Gandhi College, one of the oldest and largest institutions in the state of Kerala, is now going through its sixty-fifth year of dedicated service to the society. This institution along with its fifteen sister concerns and more than 200 schools were found by Bharatha Kesari Sri Mannathu Padmanabhan, a great visionary and social reformer who considered education as the most potent tool to fight the evils of ignorance, poverty, inequality and superstitions. Ever since its inception, the institution under the supervision of Nair Service Society, (NSS) has been involved in the task of uplifting the society by providing opportunities for quality education.

Education is not merely a means for dissemination of knowledge. It is an instrument for the wholesome development of the individual and it is the duty of the civilized society to provide educational opportunities to all of its members. Our policies and programmes are directed towards the fulfillment of the definitions of quality education.

Our admission policies are strictly based on the norms fixed by the Government with the objective of providing equal opportunities to all. Discrimination due to caste, creed, color, culture and economic status do not interfere with the policies and programs of the institution. We undertake to accommodate maximum possible students and the economically backward are given special consideration. Many monetary concessions are given to such

students even at the admission stage. The institution always tries to see that financial burden on the students is the minimum. Several scholarship schemes are available for meritorious financially backward students. In addition to the scholarship schemes of the Government and university, the management and the college are giving financial help to needy meritorious students.

We try to address the problem of intellectual backwardness also along with the economic backwardness of the students. Students having difficulties in learning and slow learners are given special attention. Remedial teaching is carried out with special care to see that such students are not left out of the main stream during University examinations.

We strive to provide the best possible education to the students. The qualification and ability of the faculty is never compromised. At present more than 80% of the faculty members are research degree holders. The institution has seven research departments engaged in active research and all of them have ongoing research projects. These activities help us to sustain the towering educational standards of the institution.

Opportunities for the enrichment of extracurricular talents are many. NSS, NCC, arts club and physical education sections are very active and strong. The college has 25 types of activity groups each concentrating on a separate area [Appendix 1]. This arrangement ensures that no single talent goes unnoticed or remains un nourished. This tradition has been the reason for producing talents like Padmasree Mohanlal (cine actor), Priyadarshan (cine director) Padma sree Madhu and several eminent officers of the Indian Administrative Service and Indian judiciary etc).

An educational process that does not impart social responsibility on its recipients is not wholesome. All students are given the opportunity to have firsthand information of social problems, with the objective of instilling the spirit to imbibe, interact and intervene in resolving issues haunting the society as and when necessary. The social intervention programmes organized by the Psychology and Sociology departments have a long history. [Appendix-2]

Our programmes aim at holistic development of students into socially responsible citizens with moral uprightness. The student organizations of the college also endorse this approach whole heartedly. As a result we have a smoke free, Mobile free, drug free campus and we occasionally organize counseling programmes for students.

New academic programmes initiated

Initiation of new academic programs is the prerogative of the university and that too with the concurrence of the government. Hence no new course could be started during the year due to the restrictions imposed by the authorities. However we had approached the UGC for sanctioning an add on course on retail marketing management

and the same has been approved. Another course on Homestead farming and Self Help Groups is being contemplated for the next year.

Add-on courses

A new add-on course on retail marketing management has been started by the Department of Commerce

Computer literacy programme

The college has initiated a programme to train the staff and students on the use of computer. (Appendix –3]

Innovations in curricular design and transaction

Curriculum is designed by the University and the role of the institution comes only in the method of transaction. The college does not have the academic autonomy to design an innovative curriculum to be implemented at the University level, though it is a very promising area.

The conventional methods of curriculum transaction involve the class room teaching and periodic examinations, the method followed by almost all institutions of our country. Our college has introduced an element of planning in this process. This has been done by the 'Academic Committee' which is a group of senior teachers who meet periodically and review the academic process. All the teachers are asked to prepare their teaching plans in advance and document the same in the specified format [Appendix -4]. The Academic Committee decided to introduce the following innovations in the curriculum transaction process.

- Collect the teaching plan from all teachers and examine its compliance periodically.

- Make seminars and assignments compulsory.

- Systematic conduct of internal examinations.

- Increase the use of ICT in teaching learning process.

The properly planned academic programme ensured the completion of the syllabus in time. The internal examinations, seminars, college union activities etc are planned in advance. Periodic review helped in making adjustments for any unforeseen interruption in the schedule.

Seminars and assignments which are compulsory for post-graduate studies was inducted to the under graduate courses. This is expected to motivate the above average students to acquire new heights and the below average to acquire new skills.

Internal examinations have important role in the learning process. We have introduced common terminal and model examinations in addition to class tests in order to help the students in their learning process.

Examination reforms implemented

A perfect examination system is essential for the success of any course programme. The major intervention experimented during the year was the on line system for internal evaluation. Moreover the University Examinations are to be conducted in a serious atmosphere with perfect accountability.

The class examinations, terminal examinations and model examinations are held in accordance with the notified schedule. A committee of senior professors is constituted to supervise the examination process. Question papers are printed and distributed at the examination hall just as in the case of University examinations. The remaining stages of the internal examination such as valuation of answer sheets, preparation of mark sheets etc. are also given due attention. They are conducted on the basis of a common timetable. Evaluation is properly monitored and the parents are informed of the marks of their wards.

The Internal assessment in science subject at UG is done as per norms fixed by the university and the same is forwarded to University. The marks are published in the Department notice board before submission to the University.

Candidates Qualified: NET/SET/GATE etc.

Many students of the college pass the NET, SET and GATE examinations. The examination with maximum student participation is the SET followed by NET. The number of students attending GATE is comparatively low. Many students appear for the SET examination after attending a one year course in teachers training (Bachelor of Education, B.Ed). Similarly the NET examination is attended by students usually only after completion of the P.G course. Hence the college is not capable of giving them full attention during their preparation for the examination. A proposal has been submitted to UGC for conducting NET training at the College. Number of students qualified for NET and SET from different disciplines during 2007 [Appendix-5]

Initiative towards faculty development programme

The college always supports initiatives from the teachers for career advancement. The main activities in this direction are summed below.

1 Deputation for attending seminars, conferences, workshops.

Teachers are given duty leaves for attending seminars, conferences and workshops. Registration fee, TA and DA are reimbursed in admissible cases. The Heads of departments and other members on the faculty arrange to engage the classes of teachers on deputation.

2) Deputation of teachers for research.

The Management readily sanctions the deputation and study leaves of teachers proceeding for research. If regular staff is not available to fill up the vacancy of teachers on long leave, the Management takes the initiative to appoint guest lecturers in order to facilitate uninterrupted academic transactions

3) Encouraging Departments to organize seminars and workshops.

All departments are encouraged to organize seminars and workshops and the college provides full infrastructure support. Departments are instigated to mobilize resources from external agencies like the UGC, DST and others. In cases where adequate funds are not available internal sources are tapped to generate sufficient funds.

4 Felicitation of teachers for academic achievements

All academic achievements of the members of the faculty like acquiring of new degrees, awards, publication of books, journals etc are felicitated in staff meetings.

The teachers deputed for PhD during the year is given in.[**Appendix- 6**]

Total number of seminars and workshops conducted

The institution gives much significance for the organization of workshops and seminars. These are programmes where the faculty can have interactions with the experts in different areas of knowledge and students are exposed to latest areas of study. Normally we organize three types of workshops and seminars.

- National or international seminars organized with the help of support derived from agencies like UGC, KSCSTE etc.
- Seminars conducted with the help of PTA.
- Student seminars organized by Departments.

The college has a well furnished seminar hall to accommodate these functions. The National or State level seminars enjoy wide participation from students of other colleges of the city as well as from adjacent districts. Some academic

bodies such as Academy of Chemistry Teachers (ACT), Academy of Physics teachers (APT) also organize seminars [Appendix-7 &8]

The PTA (Parent teacher Association) usually set apart a fund for the organization of seminars by Departments. Almost all Departments avail this facility and conduct programmes having high academic content. These seminars also enjoy participation of the students from adjacent colleges. Teachers are also encouraged to attend seminars organized by other institutions.

The student seminars form an integral part of academic activity of all Departments. The Departments organize these programmes, but outside participation is restricted. Usually students of the same Department or other departments participate depending upon the nature of the topic that is being presented,

Research projects

- a) Newly implemented
- b) Completed

The institution gives high priority to research. The college has seven research departments. Eighty percent of the teachers are research degree holders and more than 50 % of them are actively engaged in research. A number of research projects have been completed and a number of projects are in different stage of progress. The details of completed and ongoing projects are listed in [Appendix 9 and 10]

Major projects

The institution completed 6 major projects during this period. Five of these were in the science disciplines and one was in language discipline. The funding sources were UGC and KSCSTE. The science departments that completed the major projects are Physics, Zoology and Botany and Chemistry. The major project in language studies was done by the department of Malayalam.

Minor projects.

Seventeen minor projects were completed in this period. Eleven of these were in science topics. Six language projects were also successfully completed. All the minor projects were funded by the UGC

New collaborative research programmes

Modern research is multidisciplinary and is mounting to a platform of integrated knowledge. This is happening to the highest degree in scientific disciplines and hence collaborations in areas of research are becoming a necessity. Another aspect that necessitates collaboration as far as the college is concerned, is the need for sophisticated instrumental support. Our research programmes involve two types of collaborations.

1. Collaboration with other departments
2. Collaboration with outside agencies

Research collaborations in Mahatma Gandhi College

No	Programme	Department	Collaborating departments	Outside agencies
1	Isolation and biological evaluation of natural products	Chemistry	Botany & Zoology	1)NIST Trivandrum 2) Rajeev Gandhi institute of Biotechnology, Trivandrum
2	Metal complexes	Chemistry	Physics, zoology	1) CUSAT(Cochin) 2) IISC Bangalore
3	Crystal growth	Physics	Chemistry	1) VSSC, Trivandrum

Research grants received from various agencies

The main research funding agencies as far as the college is concerned are UGC, CSIR, DST, KSCSTE and the University of Kerala. The UGC funds research programmes through major and minor projects. CSIR also provide fellowship to students for taking up careers in research. Teachers are deputed for acquiring research degrees through the FDP. DST funding for research occurs mainly through the instrumental support offered to departments under the FIST programme. KSCSTE (Kerala State Council for Science, Technology and Environment) provide research funding under two heads. It awards research projects for teachers and also provides financial support for student projects. The University also provides scholarship for research students.

Research funds received by M G College during 2007-08

No	Department	Programme	Agency	Amount(Rs)
1	Mathematics	Project	UGC	40,000
2	Physics	Projects	UGC	20,000
3	Chemistry	Projects	KSCSTE	2,00,000
3	Botany	Projects	UGC	50,000
5	Hindi	Projects	UGC	65,000
7	Commerce	Projects	UGC	70,000
8	Economics	Projects	UGC	65,000

Details of research scholars

The institution has seven research departments. Many teachers have registered as research guides of the University of Kerala through these departments. Twenty three members of the faculty are approved and active research guides. Fifty nine students are working under their supervision. Apart from this 28 teachers are registered as research guides through the departments of the college. The research departments of the college, details of research guides and the students who work under them are listed in [Appendix 11 & 12]

The institution is doing everything in its capacity to promote research. No fee is collected from the research scholars except for an initial caution deposit. The library and laboratory facilities are made available to the students free of cost. The facilities of the computer lab are also made available to the researchers. The research committee looks after the needs of these students and tries to make the resources, available to all researchers.

Citation index and impact factor

The publications of the faculty during 2008 are given in [Appendix-13.] .There were 28 publications from various departments during the period. A tabulated list of number of publications from various departments with their citation index range is given below.

No	Department	No of Publications	Range of citation index	Journal impact factors
1	Mathematics	8		
2	Physics	9	0.437 to 0.853	0.3 to 0.8
3	Chemistry	7	0.564 to 0.368	1.367 to 0.34
4	Botany	5	1.369 to 0.83	1.367 to 0.53
5	Zoology	1	0.432	0.358
6	Malayalam	10	Not listed	Not listed

Honors/Awards to the faculty

There are no formal awards that are introduced for college teachers by any agencies like the Government or University. However five teachers got awards instituted by various cultural and educational agencies. Dr K Karunakaran, Lecturer Sel Gr. Department of mathematics was awarded PhD during this year by the University of Kerala. All academic achievements like acquiring of new degrees, awards, publication of books, journals etc are felicitated in staff meetings.

Honors and Awards won by the faculty during 2007-08

Dr.P. KrishnaKumar, Reader, Department of Economics, got the Best Teacher award instituted by Kerala Gandhi Smaraka Nidhi, 2007 October 2

Dr.V.M. Anandkumar, Department of Physics received the award for the best Poster Presented in the 52nd Solid State Symposium held at the University of Mysore, Manasagangothri, sponsored by DAE held during 27-31 2007.

Dr K Jyothish Kumar Dept. of Malayalam -18th International grant- pre recognition to the Radio programme 'Swargathinte Avakashikal.

Dr N Ajithkumar, Dept of Malayalam- Annam Award- 2008

Internal resources generated

Mahatma Gandhi College being a Government aided institution; there are legal limitations in the generation of internal resources. Fee is collected from the students as per the rates fixed by the Government and University and the amount is remitted to the Government treasury or University account. The salary is paid by the Government and other maintenance expenses are met by the management. The college gets some funds through donations from the parent teacher and alumni associations. These are used for improving the facilities or for supporting new academic ventures and other student welfare activities.

The funds generated by PTA and their mode of utilization are given in the table.

Total Fund Generated	Heads of Expenditure	Amount(Rs)
16,00,000	Salary to guest teachers	8,00,000
	Repair and maintenance, cleaning etc	3,00,000
	Seminars, workshops	2,00,000
	Awards	1,00,000
	Meetings, Examination, stationary	1,00,000

Another source of internal revenue is the membership fee collected from students by the computer club. An amount of Rs 100 per student is collected as club membership fee at the time of admission. This is maintained as a separate account and is used to provide facilities to the members at the computer lab. The members can use the computer lab for all DTP works and also for surfing the internet at nominal rates. Service of a trained personal is made available throughout the working hours of the college. Repair and maintenance of the computers and partial additions to infrastructure are also carried out using this fund. An approximate statement of income and expenditure in this account is as shown below

Total Fund Generated Annually	Heads of Expenditure	Amount
Membership - Rs 100000	Payment to staff	35000
Fee for services - Rs 20000	Stationary	20000
	Internet charges	10000
	Repair	20000
	Additions to infrastructure	25000

Details of departments getting SAP, COSIST(ASSIST)/DST.FIST assistance/ recognition

Department of Chemistry of the college has received assistance under SARD (Special Assistances for Infrastructure Development) scheme of the Government of Kerala. The SARD assistance provided by KSCSTE (Kerala State Council for Science, Technology and Environment) started in the year 2005 for a period of three years. An amount of Rs 14.5 lakhs was awarded for a period of three years. It has the components of a non-recurring grant of 10 lakhs for instrumental support and a recurring grant of Rs 1.5 lakhs.

Details of SARD support to the Department of Chemistry up to 2007

Schemes	Amount	Equipments acquired	Amount spent	Outcome
Non-recurring	100,000	UV-Visible spectrophotometer	3,50,000	Two projects
		Rotary Evaporator	2,50,000	Five PhD s
		Guoy Balance	2,75,000	5 M.Sc projects
		Electronic balance	75,000	
Recurring(2005-06)	1,50,000	Chemicals and glass ware	1,50,000	
Recurring (2006-07)	1,50,000	Chemicals and glass ware	1,50,000	

Community services

The institution aims at modulating its students into socially responsible citizens for which the students should be familiar with the problems of the society he lives in and should have a mental makeup to offer his/her services for the betterment of the society. The institution provides a platforms for social service activities of the students

National Service Scheme (NSS)

This is the single biggest body that is conceiving conceptualizing, contemplating and implementing community service activities as its principal function. The activity of NSS is to train and socialize the student volunteers with the spirit of national integration and community functions. The main service activities are listed below.

1. Fight against ignorance and spread the message of love and brotherhood.
2. Blood donation campaigns
3. Nature conservation activities
4. Cleaning and improvement of the facilities such as roads, wells tanks etc.

The college has three units of N S S volunteers grouped under three teachers

NSS programme Officers: Mr. R Gopakumar and Mr K. R .Madhusoodanan Pillai of English Department and Mrs Geethakumari of Malayalam Department.

National Cadet Corps (N C C):- Navy, and Army units

In addition to physical and military training an important area of activity of N.C.C is the community services. They also undertake blood donation as a principal service activity. They have programmes for environment cleaning, road construction/ repair, slum renovation and reforestation, in addition to national integration. The main aim of all these activities are for nurturing good citizens for the future.

Associate NCC Officers: Army; Maj. Madhukumar, Dept of Physics Navy: Lt.Cdr. V.Anoopkumar, Dept of Physics

Club activities:

The institution has many clubs totally dedicated to co curricular and community activities. The club 'santhwanam', has adopted a backward village which the students frequently visit and involve in service activities such as cleaning, road construction/repair, caring of the diseased, teaching of the illiterate etc.

Department activities:

Students of sociology and psychology visit old age homes and spend time with the poor old people who have been deserted by their families. Psychology students have a programme for offering counseling services to school students.

Programme for talented school children

This is a special programme organized by the Board of Secondary education, Govt. of Kerala to identify and promote talented science students of schools. Dr M R Sudarsanakumar was the District co-coordinator of the programme and M G College has been its venue. The faculty of various science departments was involved in the scheme. The details of the programme are given in [Appendix 14]

Science popularization

This is an extension programme organized by Dr M R Sudarsanakumar of the Department of Chemistry and funded by KSCSTE, Government of Kerala. Lecturers by eminent scientists and educationalists were organized for the students of M G College and neighboring colleges. Details are given in [Appendix 14]

Teachers and officers newly recruited

Due to some restrictions imposed by Government on new appointments only very few permanent appointments could be made during the period. There were some transfers of the teachers as well as the non-teaching staff. Three new teachers were appointed in permanent posts and 17 temporary teachers were also appointed during the year.

Faculty members recruited during 2007-08

Sl.no.	Name of the teacher	Department.	Nature of the post	Qualification
1	Kavitha Raj N	Hindi	Guest	M.A.,Ph.D
2	Krishna kumar	Russian	Guest	M.A.,Ph.D
3	Deepa. P	History	Guest	M.A, B. Ed
4	Prathibha	History	Guest	M.A.
5	Sunitha. I.f.	Economics	Guest	M.A.
6	Bindu bhasker B.S.	Economics	Guest	M.A.
7	Manjusha S.	Economics	Guest	M.A, B.Ed
8	Subalekshmi	Sociology	Guest	M.A.,M.Phil

9	Archana Chandran	Psychology	Guest	M.A
10	Sjeeja.S	Commerce	Guest	M.Com
11	Gopikamenon	Mathematics	Guest	M.Sc
12	Anaswara.S	Mathematics	Guest	M.Sc
13	Soumya S. Nair	Statistics	Guest	M.Sc
14	Remya I. R	Chemistry	Guest	M.Sc
15	Sandhya p.	Botony	Guest	M.Sc
16	Sarasija p.	Zoology	F I P Guest	M.Sc
17	Geetha.C	Mathematics	Permanent	M.A.,M.Phil,Ph.D
18	Manil T Mohan	Mathematics	Fip guest	M.Sc
19	Bindu R.G.	Physics	Permanent	M.Sc, Ph.D
20	Jayasudha.S.	Physics	Permanent	M.Sc.

Teaching and non teaching staff ratio

The college has 101of teachers and 56 non teaching staff during the year 2007-08. Out of the teachers 94 were holding regular posts and 7were guest teachers. The Government had imposed a ban on the appointment of new staff during 1996. Hence teaching posts that became vacant since 1996 were filled by guest lecturers. The guest lecturers were paid by the Parent Teacher Association. Staff details are appended.[Appendix 15]

No of teachers	No. of non-teaching staff	Ratio
101	56	1.8:1

Improvements in library services

Library is one of the most important components of an institution of higher learning. The institution has a two tier library system. There is a (1) central library and (2) individual Department libraries. Both systems function hand in hand to promote the reading habits of the students and to improve their knowledge level. About 2000 books were added to the library during the year 2007-08.

A Library committee is constituted for the effective work of the library in the college. It is vested with the responsibility of recommending, selecting and purchasing books. It also gives recommendations for the improvement in the functioning of the library.

Central library is centrally located and have more than 50,000 volumes. It is opened during working hours and also on Saturdays. The books are issued to students on all working days. The library has a reference section. Students can refer these books during working hours under the supervision of library staff. Periodicals and newspapers are provided to the students. There is facility for computer searching of books. The library has a CD section where CD's of different books are available.

The individual departments have separate reference libraries. The department library gets books from the central library on a loan basis. These books are issued to students and staff by the Head of department or by some teacher who is given charge of the library. A small reading space is also facilitated with most department libraries. This decentralized arrangement helps the students to have easier access to their subject books. It also facilitates the better monitoring of the reading habit of the students and provides a better and efficient system for reference. The students engaged in reference works get the help from teachers for book selection.

New books/ journals subscribed and their value

The important sources of purchase of Books and equipments are the funds provided by the UGC and State government. Library fee collected from the students and remitted to the Government treasury is returned to the institution. Both these funds are utilized totally for the purchase of books and journals.

Number of books	Amount				
	UGC	PD	Journals	Total	Cost of books >1000
1422	237006	4938.8	10000	252044	11

A total of 1422 books were purchased during the year 2007-2008. The amount spent on purchase was Rs 242004 of which Rs 237006 was from UGC and Rs. 4938.8 from PD account. Eleven books with a price range of Rs 1000 and above were purchased during 2006-07.

Journals were purchased by departments and circulated through Department Libraries. Forty Eight journals are being subscribed by the different departments.

Courses in which student assessment of teachers is introduced and action taken on student feedback

Two types of feedback collection systems are followed by the institution. 1) The institution collects a general feedback from final year students annually. The students are asked to assess the different aspects of the institution through a questionnaire and the results are consolidated for next year's planning. The questionnaire covers academic programs, teaching practices and teacher in puts. [Appendix-16] In addition to this many teachers are doing individual feedback collection personally and is used for self improvement and the institution do not insist upon the teachers to reveal of this data. Students and parents are also invited to assess the teachers during the PTS (Parent –Teacher-Student) meetings which is a very special feature of the institution.

The findings of the general feedback help in formulating guidelines for future planning. The limitations of many infrastructure facilities were realized through these feed backs. The new arrangements for cleaning, improvement of toilet facilities, examination reforms etc are the consequences of the feed back data collected.

Unit cost of education

Higher education globally, has become a costly affair and education in India is in the concurrent list. Investment in higher education in India was bare minimum till the XI Plan, which decided to augment the plan allocation for higher education. Analysis of the figures of Mahatma Gandhi College which given below indicate that the government has started investing in higher education in recent years though it is grossly insufficient, when compared to the educational budget of the developed economies

Year	College budget	PTA budget	No. of students	Unit cost of education
2007-2008	54804811	1653737	2163	26101

Computerization of administration and process of admission etc

Till last year the applications for admission were sorted out, index marks calculated and the rank lists prepared manually by respective Departments. The consolidation process was done by the college office and the process was continued with the help of the concerned department. During the current year a centralized computerization program

has been utilized for admission which helped in observing cent percentage accuracy in the admission process. The salary bills of the employees could be totally computerized using the pay roll software.

The College is having the wired LAN facility by which computers of all departments and the administrative office have been networked and directly linked to the server. The question papers, attendance reports and other official matters are fed through the network. The whole data could be accessed by the functionaries at respective levels.

Increase in Infrastructure Facilities in College

Set amidst abundant sylvan surroundings, about 48 Acres from the city of Trivandrum, the campus provides an ambience that stimulates intellectual thinking and academic interaction. The facilities on the campus include classrooms, laboratories, in door and out door auditoriums, seminar Rooms, faculty and administrative blocks, a state-of-the-art library, modern computer labs, rest rooms, canteen, co-operative store, play grounds and a post office. Increase in infrastructural facilities could not be undertaken during the year.

Infrastructure for Departments

The Physics, Chemistry and Life science Laboratories are equipped with the up to date equipments for conducting respective practicals. These departments are manned by experienced and qualified faculty who conduct the practical in respective laboratories.

New instruments acquired during 2007-08

No	Instrument	Department	User departments	Cost
1	UV- visible spectrophotometer	Chemistry	Chemistry, Physics Botany, Zoology	3.5 lakhs
2	Rotary Evaporator	Chemistry	Chemistry, zoology	2.5 lakhs
3	Magnetic susceptibility balance	Chemistry	Chemistry, Physics	3 lakhs
4	Computers	Computer lab	Whole college	0.6 lakhs

Sports

The college playground ground and equipments are well kept and updated according to the need of students. There are lots of talented students who make use of these facilities. College Multi Gym is available to students.

Canteen

A hygienic and well-maintained canteen is a boon to students and staff within the campus. College provides all possible amenities to ensure that items are sold at a low price without compromising on quality. Seating capacity for students could be slightly increased during the current year.

Technology Up gradation

Expansion of computer and internet facilities- The computer lab was expanded by inducting more computers and increased internet facility. The lab is used by the students and faculty throughout the day. Students use the labs for doing projects. There has been considerable increase in browsing time.

The science departments are constantly upgrading the instruments used in the laboratories. The departments of Physics, Chemistry, botany and Zoology have shifted from the manual instruments to the automated computer assisted systems.

Technology up gradation in science laboratories

No	Area	Old technology	New technology	Departments
1	Optical measurements	Colorimeter	UV-Visible spectrophotometer	Chemistry, Botany
2	Vacuum distillation	Vacuum pump	Rotary evaporator	Chemistry
3	Weighing	Common balance	Electronic balance	All science departments
4	Microscopy	Conventional microscopes	Highpower microscopes with attached camera	Botany & Zoology
5	Photography	Photographic films	Digital photography	Physics
6	Voltage,frequency measurement	VTVM	Digital frequency meter	Physics

Internet training to teachers and students

The college has a computer lab to provide training to teachers and students on the use of computers. Internet facility is available and a full time computer assistant is provided to help the first time users. The internet rates are

subsidized for the convenience of the staff and students. More than 80% of the teachers are proficient in the use of computers and most of them are regularly using internet. Projects are now a part of the curriculum of all courses and extensive use of internet is essential for its completion. The office staff is also being trained in the use of internet. Most of the communications with the management is using the internet facility.

Scholarships available to students

The institution in tune with its policy of providing quality education to socially and economically backward sections of the society give high priority for providing the students with the opportunity to avail maximum financial support for their educational needs. Apart from the Government and University the Management is also providing scholarships to needy students. The scholarship schemes and the number of students availing these are listed in the table.

Scholarship schemes available to students

No	Scholarship
1	University merit scholarship
2	National Talent search scheme award scholarship
3	State scholarship for proficiency in sports
4	National merit scholarship
5	Mannam Nidhi and Kanakjubilee scholarship
6	N S S Endowment
7	Muslim Nadar girls scholarship
8	Kerala State Govt. Scholarship
9	Dr A L Lalitahbai Endowment scholarship
10	Sports scholarship[p
11	Student aid fund
12	Construction workers scholarship
13	Hindi scholarship

14	SC students special component plan
15	Blind and physically handicapped scholarship
16	Kerala state suvarnajubilee scholarship
17	Single girl child scholarship
18	Cine workers scholarship
19	Central sector scheme
20	SC/ST scholarship
21	KPCR scholarship
22	Fishermen scholarship

Scholarships awarded during 2007-08

Sr No	Name of Scholarship	Number of scholarships	Amount
1	State Merit Scholarship	21	23,250
2	Hindi Scholarship	20	41,500
3	Kerala State Suvarna jubilee Scholarship	30	60,000
4	Single Girl Child Scholarship	12	1,20,000
5	Muslim/ Nadar Girls Scholarship	1	1,080
6	N S S Endowment	3	2,400
7	National Merit Scholarship	5	21,000

Activities and support from the alumni association

Alumni associations can do a lot for the prosperity of any educational institution. M G College has strong alumni associations at the college as well as at the department levels. In the past alumni has offered many valuable services to the institution. The Mannam block of the college was built with the generous help and support of the alumni. The alumni provided good support to the institution during the days of accreditation process. It was at that time that we started our website and provided the opportunity for the alumni to register via the web site. Ever since we have many emails from different parts of the world and many have shown keen interest in the progress of the institution.

We are planning to derive the support of alumni in academic activities also. Many of our prominent alumni are holding reputed positions in many advanced centers of learning and research. We are planning a series of seminars using these personalities so that it may be possible for our students to have personal interactions with them.

Activities and supports from the PTA

The institution is blessed by an active and supportive PTA. The PTA is managed through an executive committee elected annually. Principal is the president of the committee. PTA is having an active role in almost all areas of the functioning of the institution. PTA pay the salary to the guest lecturers, security staff and cleaning staff. Mounting power and water bills also find support from PTA. Small repairs and maintenance works also use the funds provided by PTA.

A notable activity of PTA is its involvement in enriching the academic programmes. The PTA has earmarked funds for assisting departments for organizing seminars and invited lecturers. PTA also supports the institution in the conduct of terminal examinations.

The PTS meetings are very important activities organized by PTA. This is a meeting of the Parents, students and teachers of each class. Three such meetings are held annually. The meetings analyse in detail the academic progress and other activities of each student. This helps the institution in correcting students and bringing them to the correct stream at an early stage. Whenever there are problems of student indiscipline, the PTA offers solid support in solving the problems.

Health Services

Every year students are given medical examinations by University Health Centre. Awareness camps for promoting total sanitation, personal and community hygiene could be continued.

1. The health card programme initiated by the department of Physical education could be continued during the year.
2. The service of trainer in the multi-gym for efficient utilization of the facility has been helpful to both students and staff
3. The department of Psychology organized seminars on mental health and related problems.
A cancer awareness programme with free checkup by Doctors was organized for the teaching, non-teaching staff, parents of students.
4. Women's study unit conducted session for parents for handling the adolescents
5. The guidance and counseling unit continued its activities for resolving problems. The attempts made by the department of Psychology in this direction need special mention. The Mental health club, under this unit conducts yoga classes, counseling for the needy students, inter-departmental awareness programmes etc. The counseling unit could be started in our sister institution, N S S Higher Secondary school, Kesavadasapuram.

Performance in sports activities

Mahatma Gandhi College has a physical education department with two full time teachers and one part-time marker. The physical infrastructure involves a football/cricket ground, volley ball, basket ball badminton courts and a multi Gymnasium. The college has teams for athletics, football, Tennis, cricket, softball, aquatics, volleyball, wrestling and baseball. Ninety seven athletes participated in various international/national/state /University and Inter collegiate competitions during the year.

More than 25 athletes / players make it to the prestigious Kerala University teams every year, in different disciplines. Our players regularly occupy a place in the highly competitive Kerala state teams such as: Football, Cricket, Swimming and Water polo. We have also been able to produce a few sports persons with international stature.

PERFORMANCE CHART-2007-08

(University Intercollegiate Championships only)

Discipline	Achievement	No. Selected to the University Squad
Cricket	Winner	03
Football	Runner up	05
Volleyball	Runner up	02
Swimming	Runner up (Men)	03
Swimming	Runner up (Women)	03
Water polo	Runner up	07

Athletics	(Individual)	01
Tennis	(Individual)	01
Wrestling	(individual)	01

Incentives to outstanding sports persons

Providing adequate facilities and encouragement to sports persons have been a policy of the institution from its inception. The college has been able to contribute many players of national ranking in its long history. College provides the following incentives to outstanding sports person

- 1).Provide facilities for practice and training.
- 2).Arrange coaching by expert trainers
- 3) Help the students to catch up with the regular classes, if he/she has lost due to involvement in sports
- 4) Felicitation of the sports person on outstanding achievements

The college has own facilities for promoting almost all sports activities except swimming. Even though the college has no facilities for swimming and water sports, the institution often bags the University championship in these events. This is materialized through a tie up arrangements with water authority Trivandrum, having necessary facilities.

An important way in which the institution supports the sports personal is through the arrangement of special classes. Through this activity, the sportsmen usually perform well in all competitions

Student achievements and awards

Achievements

The institution produced very good results during the year. The UG results averaged 80 % and the PG results 87%.

No	Discipline	Pass percentage	First class percentage
1	UG Humanities	73.56	18.78
2	UG Science	92.7	56.45
3	Commerce	68	38.9

	UG Average	78.9	38.05
1	PG Humanities	88.99	67.14
2	PG Science	76.1	76.1
3	PG Commerce	94.74	78.95
	PG Average	86.61	74.06

Sports and extracurricular activities

The college was the University champions for cricket. The college teams emerged runner up in five team events

Activities of career guidance and placement cell during the academic year 2007-2008

- 1) Provide information regarding career opportunities to students.
- 2) Equip the prospective employees for the placement process
- 3) Bring the prospective employers to the campus

A separate room is provided for the career and placement cell in the main building. Information regarding career opportunities, important publications in the field, a small library with books and magazines for competitive examinations and a computer with internet facilities are available here. The placement coordinator is available for consultation during intervals. The cell frequently arranges programmes for helping students to come out successfully through the selection process for employment. The thrust is on providing training for attending competitive examinations and face interviews. Communicative skills are important for the latter process. A series of classes for improving the communicative skills of students were organized with the help of the faculty of the Department of English.

A good number of employers contact the institution for campus recruitments. The placement cell has a database of the final year students of the college for quick reference. The database help the employers to shortlist the students and contact them easily. Students who received placement during the year are listed in appendix 17.

Skill up gradation programmes for non teaching staff- 2007-2008

On job training programs for various categories of non teaching staff was conducted. The skill up gradation programme initiated last year for the laboratory staff received momentum by the orientation provided at the departmental level. The computer club of the college offered free training programme for the non teaching staff and there is good response from them.

As in previous years the college offered the welfare program like staff quarters, cooperative banking and credit facility, supply of stationary item at reasonable prices etc.

A staff club has been organized by the non teaching staff for their overall development.

Healthy Practices

The healthy practices of Mahatma Gandhi College could be continued. Admission process to various courses are carried out as per the university and government rules and regulations adhering reservation norms with out any capitation fee .An admission committee with Principal as chairperson monitors the whole processes.

1. Programs for providing exposure to students on latest developments in science and technology and research orientation of talented students have been continued during the year.
2. Students were encouraged to participate in various community awareness programmes.
3. Computer training; communicative English and personality development programs were offered to the students during the current academic year also.
4. Health clubs with multi-gym for students and staff free of cost continued.
5. PTSI (Parent Teacher Student Interaction) sessions, extension training, faculty exchange etc are some of the healthy practices being strengthened since last few years.
6. The smoke free campus program initiated last year could be sustained during the year.
7. Students & staff participated together for transforming the campus into an eco-friendly green area.

Linkages International, National

Linkages with outside agencies exist mainly in the areas of research. The science departments are better placed in this area. Research now a days require many facilities all of which may not be usually available under one roof. Collaborations are found to concentrate mainly on the sharing of instrument facilities and interpretation of data. Topic or area based collaborations are yet to emerge.

International

Department	Name of faculty	Institution / academy	Nature of linkage
Chemistry	Dr.M.D.Ajith Bai	Sultans Quaboos University, Oman	Utilization of instrumental facilities

National

Department	Name of faculty	Institution academy	Nature of linkage
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Chemistry	Dr.M.D.Ajith Bai	NIIST TVM, TBGRI TVM, RGCB TVM, SCT MST TVM, IIT Madras, IISC Bangalore	Utilization of instrumental facilities
Chemistry	Dr M R Sudarsana Kumar	CUSAT, Cochin	Instrumental facilities
Physics	Dr K Rajendrababu	VSSC, Trivandrum	Research
Physics	Dr K Madhukumar	Regional Cancer Centre, Trivandrum	Research
Zoology	Dr P Madhusoodanan Pillai	Zoological Survey of India	Research
Botany	Dr.K.G. Ajithkumar	MOEF. Govt Of India, KSCSTE Govt. of Kerala Kerala Academy Of Science CISSA (Center for innovation) science and social action, TVM Teacher's coordination for biodiversity conservation,	District Coordinator of National Green Corps.Tvm. Executive Member VMC member Advisory Committee Member Member co-ordination committee for national seminar
Malayalam	Dr. Ajith Kumar	Ministry of Panjayathraj Gol. Women's development corporation	Book Publication Book publication
	Dr. K. Jyothish Kumar	NATPAC IGNOU	Book publication

Any other relevant information the institution wishes to add

The institution surmounted the general recession experienced in the getting good quality students for basic science education programs in spite of the proliferation of self financing institutions in engineering and medicine. The general influx of students to professional courses had detrimental effect in the sustenance of basic science education and many institution faced problem of insufficient applicants for various courses. The good will and academic excellence of Mahatma Gandhi College came to our rescue and the number of applicants continued to increase. There was however a drop in the quality of students seeking admissions.

PART C

Perspective plan for the next year

- 1) Initiate programs for promoting interdisciplinary and collaborative research
- 2) Strengthen the resource mobilization for sustaining and developing academic excellence
- 3) Strengthen the IT infrastructure for increased use of ICT in teaching and learning
- 4) Prepare and publish question banks for all subjects
- 5) Experiment the innovative system of performance audit with the involvement of the key role players
- 6) Introduce an effective systems for academic audit
- 7) Modernization internal examination system with the introduction of an online module with multiple choice questions.
- 8) Strengthen the various club activities for nurturing the co and extra-curricular skills of the students. The institution should have a separate machinery to identify the students having extra curricular talents and give them special training to develop their skills.
- 9) Formulate programmes for the development of soft skills.
- 10) Special counseling programmes to be organized for the first year degree students as well as parents immediately after the admission process.

APPENDIX I

Committees and clubs functioning in the college

1).College council-

Council is a statutory advisory body to the Principal on matters concerned with the internal administration of the College.

The College council consists of Heads of different Departments, four elected representatives, from among the teaching staff, the Administrative Assistant, the College Union Chairman and the Principal who act as the chairman of the council. A secretary is elected from among the members, and the term shall be one year.

2).Internal Quality Assurance Cell (IQAC)

The IQAC is the statutory organ of accredited colleges constituted as per the guidelines of NAAC and UGC, to coordinate and supervise the quality of academic programs. Sustenance and improvement of quality are the prime areas of intrusion of IQAC. The IQAC is vital in ensuring versatility and dynamism in program formulation by ensuring functional momentum among the stake holders. Through IQAC, the institution hopes to make progress in every aspect of the institutional functioning.

3).Planning Board and UGC Cell

The planning Board of the college functions with the objective of making this reputed institution a “centre of excellence” in the near future .The board prepares and submits proposals with a long term perspective, visualizing the college’s stature after a decade.

The planning board formulated proposals obtaining financial assistance from various statutory organizations such as UGC, MHRD, and DST etc. The board ensures the judicious distribution of the funds and the proper implementation of the schemes sanctioned with ensured transparency in financial transactions, accounting and auditing.

4).Academic Committee

A team of teachers monitors the academic programmes of the college. The academic committee streamlines all curricular activities, performs academic auditing, collects feedback from students and teachers and initiates timely remedial measures

5).Research Committee

The committee attempts to enhance research output of the college. It informs the members of the faculty about the schemes of the UGC and other funding agencies. The committee also makes sure that the proposals are submitted in time and proper follow up actions are made. It also makes invaluable suggestions for the improvement of the research centers of the college.

6).Library Committee

The library committee functions to promote effective and interactive access and use of information resources for all users. It prepares clearly- worded rules and guidelines with regard to hours of access, circulation policies and other regulations to offer better services to the users. This committee is vested with the responsibility of recommending, selecting and purchasing books for the library. The committee also puts forward its recommendations regarding the improvement of infrastructure and the means to make it more user-friendly.

7).Purchase Committee

The institution is keen on maintaining credibility and transparency in all transactions, and it respects social audit more than anything. As a part of upholding the idea, a committee is formed to supervise all the purchases made in the campus. Necessary guidelines are also framed for the committee to exercise its powers judiciously.

8).Discipline Committee

Discipline is the bedrock on which an academic institution functions. Discipline committee is formed with the task of ensuring a peaceful campus congenial for efficient academic business. Any act of commission or omission on the part of the students who threaten the peaceful campus atmosphere will be properly investigated and appropriate disciplinary actions also be recommended to the college council for final approval. The committee consists of senior faculty members, NCC Officers, NSS program Officers, Staff advisors to the College Union, elected members of the College Council and five elected student representatives of the College Union..

9).Student Affairs Committee

The Committee looks after the student affairs in the college. Committee consists of the Staff Advisor to the College Union, Convener, Discipline Committee, President, Arts Club, Treasurer to College Union, Chairman, General Secretary and Vice Chairperson.

10).Grievances Redressal Cell

The committee is vested with the authority to settle any type of grievances raised by the students, teachers and non-teaching staff of the college. The students are expected to lodge their grievances with their respective tutors who will in turn intimate the matter to the committee for necessary action. Students are not encouraged to petition to the principal, at first. They have to avail themselves avenue provided by the grievance redressal cell and then to the principal and then to the university if the grievances are not redressed.

11).Anti Ragging Cell

The cell functions to prevent any physical or mental torture or any disorderly conduct towards any student of this institution causing apprehension, dread, humiliation or agitation in him or her. The college is particularly firm on taking action against the offenders, as per the provisions contained in the Anti Ragging Act of Kerala.

12).Cell to Combat Sexual Harassment

The cell functions as per the guidelines issued by the University of Kerala. The objective of the cell is to protect the lady students from atrocities and helping them in hours of need. Any type of sexual harassment physical, verbal or mental shall come under the purview of the cell, and it is empowered to initiate legal actions against such offences.

13).Ethics Committee

Ethics is the science of morals. The right kind of education is value-based or ethics-based. Ethics committee is constituted to instill basic human values in the students and thus make them kind and compassionate to the community around.

II) SERVICE CELLS

a) Career Guidance & Placement Cell

Realizing the needs of the fast changing world, and the opportunities thus created for our students, the college has set up a Career Guidance and Counseling Cell. The cell primarily aims to train and guide the students in their search for a better career.

The cell aims at obtaining the best possible placements to the final year students and making them aware of the higher education options available to them in various

b) Human Resources Development Cell

The activities of this cell in the college supplement the curriculum programme for molding the students into responsible citizens. The cell organizes inter- disciplinary classes during free hours. The programme of the cell is intended to develop leadership qualities in students.

c) Women Study Cell

The cell functions with the objective of empowering the girl students with confidence to face the challenges of life. The unit organizes programmes for enabling the lady students to become the responsible women of tomorrow. It helps them to shoulder responsibility with greater confidence, commitment, efficiency and effectiveness.

d) Counseling Centre

Students Counseling Centre helps the students to deal with both personal and academic problems and enables them to identify their strengths and weaknesses, to chalk out a suitable educational / career path. It also organizes seminars and workshops on career planning and personality development. The expertise of the Department of Psychology, in this area, is utilized in the effective functioning of the centre.

III) WELFARE ASSOCIATIONS

a).PARENT TEACHER ASSOCIATION (PTA)

The Parent Teacher Association is a statutorily constituted elected body which aims at overall development of the college. Parental co-operation in creating a healthy campus atmosphere is of utmost importance. The PTA aspires for co-operation and participation of parents in full measure, in the wholesome activities of the college. An executive committee, comprising of the principal as chairman, a teacher elect as the secretary and seven others, meets frequently to carry out the regular affairs of the body. A general body, consisting of all the parents and teachers, meets occasionally and it gives paramount importance in ensuring a healthy and congenial academic atmosphere in the college.

The PTA has been focusing on the growth and development of the college

since its inception. The body collects only a moderate amount as donation from the parents and which is utilized in the college for the welfare of students. It provides salary for the guest lectures, security staff, computer lab assistant, etc. Drinking water facilities and cleanliness of the college is also looked after by the PTA. By installing a generator, PTA has also ensured uninterrupted power supply in the college. It also supports the poor and backward students.

b).ALUMNI ASSOCIATION

The forum of the former students, the alumni association aspires to establish and maintain a warm relationship among the former students, helps them to renew their old associations with their college, classmates and teachers and support their alma-mater in her hours of need. The college proposes to utilize their skill and competence in its many sided developmental programmes.

IV) CO-CURRICULAR ACTIVITIES

a).Arts Club

The Arts Club is a part of the College Union, which is meant to cater to the artistic talents of students. The arts club secretary who is elected from among the students and a staff advisor deputed by the college council control the club activities. The arts club selects and trains the teams for different cultural events.

b).National Cadet Corps (NCC)

NCC, the largest statutory youth organization in India, has been functioning in our country for the last 60 years, with the motto unity and discipline .In the beginning it was supposed to act as a feeder organization to the Indian Defense Forces, but later the focus was shifted and it started concentrating on fostering good citizens for the future.

With a right perspective of the ideals of the organization, the college welcomed the NCC to commence its units in the campus. By now, quite a good number of cadets from our units have won laurels for the institution, through their participation in various competitions and camps, and a few have placed themselves at respectable positions, largely

on account of their credentials in the NCC. Currently the Naval and the Army wing NCC are carrying out their activities in the college. Every possible support is provided by the institution for its smooth functioning.

a).NATIONAL SERVICE SCHEME (NSS)

The objective of National Service scheme is to develop the spirit of service, cooperation, patriotism, and discipline among the youth of this country. The scheme provides ample opportunities for the volunteers to participate in camps, social service activities, and also to attend useful classes. The variegated activities of the NSS train the student volunteers in the art of living together. Three units of the NSS are functional in this college.

b).Science Club

The Science Club is established to create awareness and interest among the students. The activities of the club are expected to stimulate the pursuit of scientific knowledge, encourage the students' potentiality to express scientific ideas and to

identify their field of interest in science. Students are assigned small projects which will boost their scientific zeal and help them to take up major projects, beneficial to the society later on. The club conducts quiz, debates, seminars and talks on the frontiers of science and technology. The students are motivated to host exhibitions in their disciplines. The club also brings in experts from different fields to enlighten and guide the students on career options in science.

c).Nature Club

The nature club of the college is named 'Devatharu' it opens the eyes of the students to the wonders of nature through its nature camps, visits to national parks, sanctuaries and orientation camps. The students are made aware of the umpteen ways through which our mother earth has blessed and motivated us to develop an ecofriendly attitude to preserve and conserve our invaluable legacy. The club encourages the students to live in harmony with nature by engaging them in engrossing pursuits such as bird watching, sapling, planting, nurturing, caring and protecting plants. Exhibitions, slide shows, camps and other periodical programmes are organized with the help of the World Wide Fund for Nature India

d).IT Club

The IT club in the college functions to exploit avenues opened for the students in the fields of computer and information technology. The college particularly aims at imparting essential knowledge to every student on computer without imposing financial burden on them. The internet facilities are made open mostly during the working hours. The computer lab is a place of hectic activities.

e).Tourism Club

Tourism in Kerala has become a major source of direct and indirect employment. The Tourism Club aims at building awareness among the students about the importance of tourism. The Club is functioning under the auspices of the Department of History. It organizes seminars, discussions, live performances and training sessions to keep its members abreast of the numerous organizations and departments related to tourism. It is also engaged in the task of identifying potential tourist spots and devising strategies to attract tourists to the sites.

f).Quiz Club

Quizzing looks a funny activity, but its value in the modern competitive world is enormous. Keeping this fact in mind, the quiz club is formed to regularly engage our students in this knowledge enhancing and thought-provoking process. The club intends to conduct competitions in and outside the campus, on a wide variety of topics.

g).Debating Club

The club organizes debates on subjects of common interest and encourages students to participate in the discussions. The faculty members also join hands with the students in these programmes and involve in active discussions.

h).Film Club

The club members are students who take an active interest in films. The club has members from all departments. They meet frequently and organize discussion on films. The college has facilities to projecting films. A film screened is discussed in detail by the club members. An important activity of the club is the organization of the film festival.

APPENDIX 2

EXTENSION ACTIVITIES

1) Student counseling

The department of Psychology offer counseling services to students. The students having learning and behavior problems are identified by the class tutors. Teachers in the department of psychology hold general counselling sessions in which these students are advised to participate. If the problem is individual specific the teachers offer special counselling sessions for the benefit of such students.

2) Parental counseling

Parental counselling is mean to equip the parents capable of dealing with adolescent problems. A programme is arranged in connection with the beginning of the first year degree classes. Parents are invited to attend the function. Expert counselors are arranged with the help of sociology and psychology departments.

3) Extension

Counseling services are held in adjacent schools and colleges also. A number of schools in the vicinity like N S S Higher Secondary School, Kesavadasapuram, St. Mary's Higher Secondary school for Girls, Pattom, St. Josephs High School, Trivandrum etc enjoy the services of the department in providing counseling services to students.

APPENDIX 3

1) Computer training programme for staff and students.

Facilities available in the computer lab

The computer lab of the college is centrally located and is available to users on all working days. The lab has 20 computers, printers, scanners and internet facilities. The computers are networked so that multiple accesses to internet and data sharing are easy. The lab meets the operational expenses from the membership fee collected from members.

1. Training for staff and students in the use of computer.

The students can use the lab during working days from 9-30 to 3.30. Staff is permitted to use the lab during all working days including Saturdays and holidays. The lab offers the service of a trainer to help the staff and students whenever need arise.

2. Internet facilities are available to all members at subsidized rates.

3. DTP and scanning facilities are also available in the lab.

APPENDIX 4

Format for Academic Planning and Review

DEPARTMENT PLAN

Name of Department

No	Classes	Portions for I term	Portions for Second Term	Portions for III term
1	I DC Main			
2	IIDC Main			
3	IIIDC Main			
4	I SUB			
5	II SUB			
6	IPG			
7	IIPG			

Signature of HoD

FORMAT FOR TEACHING PLAN

Name of Department

Name of Teacher

No	Classes allotted	Topics for I term	Topics for Second Term	Topics for III term
1	I DC Main			
2	IIDC Main			
3	IIIDC Main			
4	I SUB			
5	II SUB			
6	IPG			
7	IIPG			

Signature of faculty member

APPENDIX 5

Number of students qualified for NET/SET from different disciplines during 2007-08

No	Department	Students qualified for NET/SET
1	Mathematics	2
2	Physics	2
3	Chemistry	3
4	Botany	4
5	Zoology	2
6	Economics	1
7	Commerce	1
8	Malayalam	2
9	Hindi	-

APPENDIX 6**TEACHERS DEPUTED FOR PhD**

NAME	DEPARTMENT	Research Centre	Area of Research
S Sreelatha	Zoology	M G College	
V. Anoopkumar	Physics	Dept of Physics University of Kerala	
S Jalajamony	Chemistry	Dept of Chemistry University of Kerala	Coordination Chemistry
Asha T	Chemistry	Dept of Chemistry University of Kerala	Coordination Chemistry
R Chandrikadevi	Chemistry	Dept of Chemistry University of Kerala	Coordination Chemistry

APPENDIX 7

Agencies associating with the institution for conducting seminars/research

No	Agency	Associating Department	Programme
1	Academy of Chemistry Teachers(ACT)	Chemistry	Seminar
2	Academy of Physics Teachers(ACT)	Physics	1)Seminar
3	NIST(National Institute of Science and Technology)	Chemistry	1)Seminars,(2)Instrumental support for research (3)Laboratory visits
4	Department of Mathematics, University of Kerala	Mathematics	Seminars in Mathematics
5	Department of Aquatic Biology, university of Kerala.	Zoology	Seminars and support for research
6	TIME	All departments	Seminars & Placement services
7	Legal Service Society	College	Legal awareness programmes
8	Aids control Society	College	Seminars and Aids awareness programmes

APPENDIX 8

DETAILS OF SEMINARS ORGANISED BY THE INSTITUTION

SL NO	TOPIC	DEPARTMENT	FUNDING AGENCY	TYPE	OUTPUT	OUTLAY
1.	Agrarian Crisis in Kerala	Economics	YMCA	National	Paper presentations	50,000
2	Legal awareness for Students	Multidisciplinary	PTA	College Level		5000
3	Facing challenges in a positive way	Psychology	PTA	College Level	Feed back collection	5000

APPENDIX 9

Research projects (2005-07)

No	Principal investigator Department	Title of project	Funding agency	Amount	Duration	Status
1	Dr P Madhusoodanan Pillai (Zoology)	Studies on marine ornamental fishes of Lakshadweep	UGC	5,98,000	3	Completed
2	Dr P R Geetha(Zoology)	Use of certain indigenous plants for pest control	KSCSTE	4,84,000	3	Completed
3	Dr K Rajendrababu (Physics)	Growth and characterization of non-linear crystals for device applications	KSCSTE	4,45,000	3	Completed
4	Dr N Ajithkumar (Physics)	A critical study of cultural heritage of Trivandrum District	UGC	4,95,560	3	Completed
5	Dr P Sreedevi (Botany)	Studies on Polination biology of secondary metabolites and their antibacterial activity ¹	KSCSTE	1,93,000	3	Completed
6	Dr K Manikandan Nair (Hindi)	Keral ke Hindi prachar meim vividh Hindi samsthavom ka yogadhan	UGC	40,000	2 years	Completed
7	Dr S R Jayasree (Hindi)	Eco-Aesthetic study in contemporary Hindi & Malayalam poetry	UGC	40,000	2 years	Ongoing
8	Dr S Maheswari (Hindi)	Social& individual conflicts in the short stories of Mohan Rakesh- in the modern context	UGC	40,000	2 years	Completed
9	Dr T Sreedevi (Hindi)	Women psychology in contemporary short stories and socio psycho effects.	UGC	40,000	2 years	Completed
10	Dr K S Beena (Hindi)	ke Umanyas meim chithri nari jeevan ki authiam our unke javab	UGC	40,000	2 years	Completed
11	DrMDAjithabai(Chemistry)	Effect of Microwave heating in organic reactions	UGC	35,000	2 years	Completed
12	Dr G.Jayakumar(Chemistry)	Phytochemical studies on some medicinal plants used in the treatment of diabetes	UGC	50,000	2 years	Completed
13	Dr C G Radhakrishnan Namboori(Chemistry)	Phytochemical studies on biologically active principles from different species of Loranthus	UGC	60,000	2 years	Completed

14	DrPVijayakumar(Chemistry)	Phytochemical studies on Samadra indica	UGC	40,000	2 years	Completed
15	Dr M R Sudarsana Kumar(Chemistry)	Thermal decomposition studies on metal complexes of Thiourea	UGC	50,000	2 years	Completed
16	Dr C J Mohan Kumar (Chemistry)	Isolation of bioactive compounds from Hedychium flavesence	UGC	35,000	2 years	Completed
17	Dr K Sankar (Chemistry)	Polymer bound Schiff base ligand	UGC	35,000	2 years	Completed
18	Dr Geetha P R(Zoology)	Studies on the effect of Endosulphan on the blood, brain and reproductive system of Anabus testudineus	UGC	47,000	2 years	Completed
19	Dr P Sreedevi(Botany)	Reproductive biology of medicinal plants)	KSCSTE	2,50,000	2 years	Completed
20	Dr L Geetha (Botany)	<i>In vitro</i> culture of some medicinal plants	UGC	35,000	2 years	Completed
21	DrKRajendra babu(Physics)	Preparation and characterization og nano particles	UGC	70,000	2 years	Completed
22	Dr K Madhukumar(Physics)	A study of Thermolumniscence dosimetry in rare earth dopped phosphrous	UGC	35,000	2 years	Completed
23	Dr R B Rajalekshmi (Malayalam)	Empowerment of women and children through theatre – A minor project	UGC	1,00,000	2 years	Completed

APPENDIX IO
ONGOING RESEARCH PROJECTS

Major Research Projects(2005-07)

No	Principal investigator Department	Title of project	Funding agency	Amount	Duration	Status
1	Dr G Jayakumar(Chemistry)	Scheme for Augmentation of Research and Development	KSCSTE	14,00,000	3	Ongoing
2	FIST(Chemistry)	Development of research infrastructure	DST	22,00,000	3	Ongoing

Minor Research projects (2005-07)

No	Principal investigator Department	Title of project	Funding agency	Amount	Duration	Status
1	Dr Asha S Nair (Hindi)	Indian social political and cultural influences in the poems of Bachan & Chengampuzha - A comparative study	UGC	25,000	2 years	Ongoing
2	Dr S R Jayasree (Hindi)	Eco-Aesthetic study in contemporary Hindi & Malayalam poetry	UGC	40,000	2 years	Ongoing
3	Dr K Karunakaran (Mathematics)	Edge measurable graphs	UGC	40,000	2 years	Ongoing
4	Dr P Krishnakumar (Economics)	Socio- Economic mapping of slums; a study of selected slums in Trivandrum city	UGC	30,000	2 years	Ongoing
5	P Sreekumaran Nair (Economics)	Migration of traditional industries from Kerala	UGC	35,000	2 years	Ongoing
6	G Sudheesh (Commerce)	Analysis of people plan in Kerala with particular reference to Kudappanakunnu	UGC	70,000	2 years	Ongoing

		panchayath				
7	Dr Parvati Menon(Botany)	Conservation and documentation of plants of medicinal importance	UGC	50,000	2 years	
8	Dr S B Syamala (Physics)	Variation of room temperature photoconductivity of CuInS ₂ thin films with different (Cu)/In and (S)/(Cu) ratio	UGC	20,000	2 years	Ongoing

APPENDIX 11

Research guides working at M G College and their students

RECOGNIZED RESEARCH GUIDES OF EACH FACULTY

Sl.No.	Name	Specialization	No. of Scholars
	<u>Malayalam</u>		
1.	Dr. N. Ajithkumar	Literature, Theater Arts	03
2.	Dr. K. Jyothishkumar	Media, Literature	02
	<u>Hindi</u>		
1.	Dr. K. Manikantan Nair	Drama	02
2.	Dr. Asha . S . Nair	Poetry	02
3.	Dr. S.R. Jayasree	Poetry (Dalit and Environment)	01
4.	Dr. T. Sreedevi		
	<u>Economics</u>		
	Dr. P. Krishnakumar	Welfare Economics	02
1.	<u>Physics</u>		
	Dr. K. Madhukumar	Radiation Physics	03
	Dr. K. Rajendra Babu	Material Science	03
1.	<u>Chemistry</u>		
2.	Dr. M.D. Ajitha Bai	Phytochemistry	03
.	Dr. C.G.Radhakrishnan Namboori	Coordination Chemistry	02
1.	Dr. M.R. Sudarsana Kumar	Coordination Chemistry	02
2.	<u>Zoology</u>		
3.	Dr. P.R. Geetha	Insect Physiology	03
	Dr. P. Madhusoodanan Pillai	Environmental , Aquatic Biology	05
1.	<u>Commerce</u>		

2.	Dr. V. Harikumar	Industrial Economics , Banking	03
	Dr. B. Manmadhan	Management	04
1.	Dr. S. Hareendranath,	Management	04
2.	<u>Mathematics</u>		
3.	Dr. C. Sunil Kumar (on leave)		04

APPENDIX 12

RECOGNIZED RESEARCH GUIDES OF EACH FACULTY (EXTERNAL)

Sl.No.	Name
	<u>Malayalam</u>
1.	Dr. B. Sudheendran Pillai, Principal,VTMNSS College
2.	Dr. K.S. Ravi Kumar, Uty. Department, Kariyavattom
3.	Dr. S.V. Venugopan Nair, Former Principal,NSS College
4.	Dr. Sethunath, Former HOD, MG College
5.	Dr.P. Ramachandran Nair, Former Reader, MG College
6.	Dr. R.B. Rajalakshmi, Former HOD, MG College
	<u>Physics</u>
1.	Dr. M.N. Sreedharan Nair, Former Principal, NSS Colleges
2.	Dr. N. Vasudevan Nair, Former Reader, MG College
3.	Dr. C. Mohanakumaran Nair, Former HOD, MG College
4.	Dr.V, Narasimha Iyer, Former HOD, MG College
5.	Dr. M.H. Rahim Kutty, MSM College, Kayamkulam
6.	Dr. M. Deepa , All Saints College, Trivandrum
	<u>Chemistry</u>
1.	Dr. R. Krishnan, Former Reader, MG College
2.	Dr. R. Sudha Devi, MMNSS College, Kottiyam
3	Dr G Jayakumar, Principal, N S S College, Cherthala
4	Dr P. Harikumar, TKM College of Arts and Science, Kollam
	<u>Botany</u>
1.	Dr. G. Vilasini, Former HOD, MG College

2.	Dr. P. Sreedevi, Former HOD, MG College
3.	Dr. R. Prakash Kumar, Principal Scientific Officer, KSCSTE
4.	Dr. Suma Maheswari, NSS College for Women, Karamana
	<u>Zoology</u>
	Dr. K.G. Narayana Pillai, Former Principal, NSS Colleges
1.	Dr. K.K. Sreedevi Amma, Former HOD, MG College
2.	Dr. V. R. Vijayalekshmi, Former Reader, NSS College, Pandalam
3.	Dr. N. P. Suresh Babu, VTM NSS College, Dhanuvachapuram
4.	<u>Commerce</u>
1.	Dr. B.Vijayachandran Pillai, Associate Professor, Calicut Uty.
2.	Dr. S. Mohanan, Former Reader, MG College
3.	Dr. K. Manoharan Nair, VTM NSS College, Dhanuvachapuram

APPENDIX I3

ZOOLOGY

N0	Title of Paper	Author/s	Name of Journal, Vol, page nos.	Year of Publication
1	Histomorphological derangements in the ovary of <i>Oryctes rhinoceros</i> treated with methanolic extract of <i>Annona squamosa</i> leaves	Sreelatha.K.B and Geetha P.R	Entomon	2008

PHYSICS

N0	Title of Paper	Author/s	Name of Journal, Vol, page nos.	Year of Publication
1	Growth and characterization of Pure and lithium doped strontium tartarate tetrahydrate crystals by solution gel technique	B Suresh Kumar, M H Rahim kutty, M R Sudarsanakumar & K Rjaendra Babu	Bulletin of Material Science 30,N0.4,349-355	2008
2	'Growth and characterization of lithium doped strontium tartarate hydrate crystals'	K. Rajendra Babu, M. R. Sudarsana Kumar and B. Suresh Kumar	. Bull.Mat.Sci.	2007
3	'Growth and characterization of doped Hippuric acid crystals for NLO devices'	K. Rajendra Babu and Dr. M. R. Sudarsana Kumar	Cryst.Res.Techn. 426.P 607	2007
4	'Growth and characterization of pure and lithium doped L-alanine single crystals for NLO devices'	K. Rajendra babu, M. R. Sudarsana Kumar and B. Suresh Kumar	Cryst.Res. Technology	2007
5	'Influence of L-alanine, L-histidine and Glycine on the growth of KDP single crystals and their characterization' K.	K. Rajendra babu and B. Suresh Kumar	Indian J. Pure and Appl.Physics	2007
6	'Luminescence studies of Rare earth doped calcium aluminates phosphors'	Madhukumar, K. C. Ajith Prasad and K. Rajendra babu	International Journal of modern Physics B.Vo.:21,No:12 P1971-1980	2007
8	'Microhardness studies of nano crystalline Calcium tungstate	Anandakumar V M	CrystalResearch and Technology,	2007

			Published on line October 19,2007	
9	'Synthesis, characterization and optical properties of nanocrystalline lead molybdate'	Anandakumar V M	Physical status solidi	2007

MATHEMATICS

N0	Title of Paper	Author/s	Name of Journal, Vol, page nos.	Year of Publica- tion
1	Vertex measurable graphs	Dr.K.Karunakaran	Graph theory notes of Newyork	2008
2	Semigroups of Graphs over Boolean algebra Some remarks on edge measurable graph	Dr.K.Karunakaran	Journal of natural science and mathematics (accepted) Modern trends in graph theory	2008
3	Enciphering semigroup	Dr.K.Karunakaran	Mathematical and computational model	2008
4	On outer measurable and edge probability measure-Independent spinning subgraphs	Dr.K.Karunakaran	Graph theory notes of Newyork vol	2007
5	Inventory with Service Time and Transfer of Customers and/Inventory	Dr.K.Vineetha	Annals of Operations Research	2008
7	Control Policies for Inventory with Service Time.	Dr K Vineetha	Stochastic Analysis and Applications,24,719	2006
8	Effective Utilization of Idle Time in an (s,S) Inventory with positive Service Time",	Dr K Vineetha	Journal of Applied Mathematics and Stochastic Analysis, Article ID 69068, 1- 13,	2006

BOTANY

N0	Title of Paper	Author/s	Name of Journal, Vol, page nos.	Year of Publication
1	Purification and characterization of peroxidases from arrowroot (<i>Maranta arundinacea</i> L.) leaves	Pradeep Kumar, S & Padmaja.G	Journal of Root Crops 34 (2)	2008
2	Changes in phenol and polyphenol oxidase activities during growth phase and wound induced alterations in arrowroot (<i>Maranta arundinacea</i> L.)	Pradeep Kumar, S & Padmaja.G	Journal of Root Crops 34 (2)	2008
3	Pollen and papillae dimorphism in <i>Pentas lanceolata</i> colour variants	M.Jayasree & P.Sreedevi	<i>J. Phytol. Res.</i> 21(2) :233-236	2008
4	Antioxidant activity of banana flavanoids	S.Vijaya Kumar, G. Presanna Kumar and N.R.Vijayalakshmi	<i>Fitotherapy</i> 79 , 279-282,	2008
5	Survey of the Medicinal use of Religious plants in Parassala Panchyat Neyattinkara Taluk, Kerala".	K.G.Ajit Kumar	<i>J. Econ. Taxon. Bot.</i>	2007

CHEMISTRY

N0	Title of Paper	Author/s	Name of Journal, Vol, page nos.	Year of Publication
1	Change of triterpene profile in the extracts of <i>Dysoxylum</i> species on prolonged preservation	M D Ajitha Bai, G Jayakumar Pillai Saritha balakrishna & R Salini	Indian Journal of Chemistry 45B,1060-1062	2007
2	The composition and Antimicrobial activity of Stem bark Essential oil of <i>Goniothalamus cardiopetalus</i> (L.) Hook.f.et Thoms.	Abdulkhader Hisham, Nirmal Pathare, Salim Al-Saidi, G Jayakumar	Journal of Essential Oil Research 18,451-454	2007
3	8-Hydroxy-7-phenyl-2,6-dioxacyclo[3.3.1]nonan-3-one	B Harikumar, Babu Varghese, G Jayakumar & M D Ajitha Bai	Acta Crystallographica Section E E62, 05567-05569	2007
4	Coronarín-D, a Labdane diterene inhibits birth constitutive and	AjayKumar. B.Kunnumkara, Heruyo	Mol.Cancer Therapy 7(10)3306-	2008

	inducible nuclear factor- K B pathway activation leading to potentiation of apoptosis, inhibition of invasion and suppression of osteoclastogenesis	Ichikawa, Preetha Anand, Chiramel. J.Mohana Kumar, Padnathan.S.Hema, Mangalam.S.Nair,and Bharat. Agarwal	3317.	
5	“Estimation of sodium benzoate in Ayurvedic formulation – Kashaya (Water decoction)”	S. Balachandran & R. Sudha Devi.	Asian J. Chem. Vol. 19(5) 3421-3426.	2007
6	“Kinetics of Elimination Reactions of 1,2-diphenylethyl substrates in acetonitrile: A mechanistic change in presence of a strong base”	D. Santhosh kumar & S. Balachandran	International Journal of chemical Kinetics, Vol. 40 481-487.	2008
7	Larvicidal and growth inhibition of malaria vector <i>Anopheles stephensi</i> by triterpenes from <i>Dysoxylum malabaricum</i> and <i>Dysoxylum bedomei</i>	S Senthil Nathan, A Hisham, G. Jayakumar	<i>Fitotherapia</i>	2007

MALAYALAM

N0	Title of Paper	Author/s	Name of Journal, Vol, page nos.	Year of Publication
1	Sree Sankaracharyarum Matrudevaradhanavazhakkavum	Dr N Ajithkumar	Vandanam	2008
2	Paristhithisaundryadarsanam	Dr N Ajithkumar	Thaymozhi	2008
3	Paurastyakavyasankalpam	Dr N Ajithkumar	Ullezhuthu	2008
4	Ramayanavum Keralavum	Dr N Ajithkumar	Vandanam	2008
5	Akhyanathinte Naattuparambaryam	Dr N Ajithkumar	Thaymozhi	2008
6	Onapuranam	Dr N Ajithkumar	Bless August-	2008
7	Nirabhetham (Poetry)	Dr N Ajithkumar	Ullezhuthu	2008
8	Naattarivinte Smiruthirekhakal	Dr N Ajithkumar	Current Books Bulletin	Books Bulletin 2008
9	Classical Bhashapadaviyum	Dr N Ajithkumar	Ullezhuthu	November

	Malayaliyum			2008
10	Jalanireekshanasastram	Dr N Ajithkumar	Oisca Globalmeet	2008

Hindi

	Zindigi kavitha	Ushakumari K.P	Sagruthan	2007
	Masssom chehra	Ushakumari K.P	Sangruthan	2007
	Paryavaran Chethana Nagarjun kavitha Dharthi mein	S.R.Jayasree	Sangrathan	2007
	Dalith chethana Ek Malayalam kahani ke paripreshy mein	S.R.Jayasree	Sangrathan	2007
	Dr.Lekshmi Narayan Lal Ke Natak :Curfew Mein Chitrit Samajik Samasya	B.Jayasree	Keral Jyothi	2008
	Sathyavothari hindi kahani mei rajnaithik chethana aur samaj	Sreedevi.T	Sangrathan	2008
	Seraf Ek Maa	Sreedevi.T	Keral Jyothi	2008
	Bheed mein akela –Mohan Rakesh	Maheswari.S	Sangrathan	2008
	Hindi aur Malayalam kavitha mein Rajanaithik chethana	S.R.Jayasree	Soth pathrika	2008
	Dr.Lekshmi Narayan Lal Ke Natak :Curfew Mein Chitrit Samajik Samasya	B.Jayasree	Keral Jyothi	2008

APPENDIX I4

'SCIENCE FOR SUSTAINABLE DEVELOPMENT'-SCIENCE POPULARISATION PROJECT

ORGANISED BY MAHATMA GANDHI COLLEGE, THIRUVANANTHAPURAM

The science popularization project entitled '**Science for Sustainable Development**' was inaugurated on **20-03-2008** by the Principal **Prof.S.Vijayakumar**. The first activity of the college was the visit of the college science departments especially the Zoology Museum and Laboratory by the school students on 19-04-2008. Dr.P.R.Geetha, Head of the Dept. of Zoology inaugurated and coordinated the programme. 5 PG students of the Department explained the various exhibits of the Zoology Museum and demonstrated some experiments in the Laboratory.. About 50 students from various schools participated in the programme. It was followed by a quiz competition on what they saw in the museum.

The second programme was an interaction with the students organized at Reshmi Library, Muttada on 17-05-2008. About 40 students participated in the programme. Dr.M.R.Sudarsanakumar, Coordinator of the programme presented the life story of Dr.C.V.Raman, Sreenivasa Ramanujam and Vikram Sarabhai. Prof.S.Sivan , Professor(Retd.), S N College Varkala presided over the function. It was followed by a quiz on the presentation. Dr.S.Pradeepkumar of the PG Dept. of Botany and Research Centre also spoke on the occasion.

A committee has been constituted at the college level to coordinate the activities of the project.

The Environment day celebrations were organized on 9-6-2008 at NSSHSS, Kesavadasapuram. The function was inaugurated by Smt.S.Sreekumari, Principal, NSSHSS, Kasavadasapuram. Dr.K.Karunakaran, Reader, Department of Mathematics presided over the function.. Dr.K.C .Ajith Prasad, Dept. of Physics, M G College spoke on 'Environmental Problems of Kerala'. It was our second attempt to reach out to school students. The programme was attended by more than 150 school students A science wall magazine set up as a part of the programme was inaugurated by Dr.G.Madhukumar, Principal, M G College on 15-07-2008. The function was attended by faculty members and students of the college. Sri.K.Nagappan Pillai, Department of Physics functioned as the staff editor of the science wall magazine.

The PG students of Physics, Chemistry, Zoology, Botany and mathematics and the degree students of various courses have put up the wall magazine. A Committee consisting of the following members has been constituted to judge the wall magazine put by different classes. It was able to generate an interest and mass participation of students in this venture. Articles of developments of science, history of science and recent environmental issues are displayed in the wall magazine.

The Vikram Sarabhai Birth Anniversary was held on 12-08-2008 was organized by the Science Club of the college in association with Swadeshi Science Movement. Dr.K.Madukumar, head of the Department of Physics inaugurated the programme. Dr.M.N.Sreedharan Nair, former Principal of NSS college, Dr.M.R.Sudarsanakumar, Project coordinator and Sri Jayachandran, secretary, science Club spoke on the occasion. Dr.A.E.Muthunayagam former director, KSCSTE spoke on 'Indian achievements in space research'. The programme was well attended by the students, faculty and non-teaching staff of the college. Quiz and essay competitions were also held as part of the programme. Prizes were distributed to the winners.

An awareness programme on Ozone Layer Depletion was held on 16-09-2008 as a part of the Ozone day Celebrations. Fifty students were selected for the awareness programmes on Solid Waste management and Energy Conservation and Management during September.

Two orientation programmes were arranged for the students selected for the awareness programmes in solid waste management and energy conservation and Management. The first programme to be conducted under the Solid Waste Management awareness programme was a pilot survey held on 01-11-2008 at Cheruvickal. The programme was inaugurated by Sri.A.V.Anilkumar, health Inspector, Thiruvananthapuram corporation. Sri. Sarath Chandran nair, President Cheruvickal Residents Association (CRA) presided over the function. Sri. K.Nizar Ahmmed, Secretary(CRA) and Dr.M.R.sudarsanakumar, Coordinator also spoke on the occasion., Fifteen selected students visited 74 houses coming under the 'B' block of the Cheruvickal Residents Association and collected the data. The members of the Residents Association and Vanitha vedi also helped the students to conduct the survey.

The Cheruvickal area which was under the Ulloor Panchayat was later included in the Thiruvananthapuram Corporation and the house to house collection of the solid waste started only in 2008. The study showed that only 21 of the 74 houses have joined the scheme. Majority of these houses are adjacent to the Sreekariyam –Aakkulam road and the collection has not reached the interior places. The distribution of land area of the surveyed houses and their participation in the programme are as follows

The above table shows that 59 of the households have only up to ten cents of land and 19 of the 21 houses who joined in the waste collection scheme are from that group. Only 2 of the 15 households having land more than 10 cents have joined the scheme. Forty four households burn polythene bags ,15 give it to the collecting Kudumbasree

Sl.No.	Upto 5 cents	5-10 cents	10-15 cents	15-20 cents	➤ 20 cents
1(No of houses	34	25	9	2	4
2(No. of houses participating)	12	7	2	-	-

unit , 6 dispose it outside. Others use other means to dispose polythene bags. The positive aspect of the survey was that t 52 households showed interest in attending class on solid waste management if it is held in the locality.

A lecture series on ‘Environment’ was held in the college seminar hall from 25-11-2008 to 27-11-2008. The programme was inaugurated on 25-11-2008 by the Principal Dr.G.Madukumar in a function was presided over by Dr.K.Karunakaran of the Dept. of Mathematics. Dr.P.R.Geetha, Head , PG Dept. of Zoology and Research Centre delivered the welcome speech. Anop.S, College Union General Secretary offered the felicitations and V.Jayachandran, Secretary, Science Club delivered the vote of Thanks.

APPENDIX I5

Staff strength of Mahatma Gandhi College

Serial No	Department	Sanctioned strength	Present strength	Guest	Laboratory staff
1	Principal	1	1		
2	Mathematics	9	9		
3	Physics	10	10		4
4	Chemistry	11	11		4
5	Botany	8	7	1	4
6	Zoology	8	8		3
7	Economics	8	5	3	
8	Commerce	10	8	2	
9	Malayalam	10	9	1	
10	Hindi	10	8	2	
11	English	9	9		
12	Sociology	3	2	1	
13	Psychology	4	3	1	
14	History	3	2	1	
15	Phy Education	2	2		
16	Sanskrit	1	1		
17	Russian	1	1		
18	Politics	1	1		
	Total	109	96	12	
19	Office	35			
20	Library	1		4	
21	Security	3			Part time
22	Store	2			
23	Sweeper	2			Part time

APPENDIX 16

MAHATMA GANDHI COLLEGE, THIRUVANTHAPURAM-695004

Student Feedback

Department ----- Class -----Academic Year -----

Asses the **TEACHER** in your Department for each statement

(Excellent: Good: Average: Below average: Poor)

Put X in appropriate column

Name of the teacher.....

1. Punctuality and Regularity

Excellent Good Average Below average Poor

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2. Coverage of topics

Excellent Good Average Below average Poor

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3. Clarity in teaching

Excellent Good Average Below average Poor

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4. Communication skill

Excellent Good Average Below average Poor

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5. Help in academic activities

Excellent Good Average Below average Poor

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6. Help in extracurricular activities

Excellent Good Average Below average Poor

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7. Encouraging student participation in class

Excellent Good Average Below average Poor

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8. Teacher-student relationship

Excellent Good Average Below average Poor

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9. Discipline Enforcement

Excellent Good Average Below average Poor

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10. Help in Career guidance

Excellent Good Average Below average Poor

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11. Remedial teaching

Excellent Good Average Below average Poor

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12. Understanding students

Excellent Good Average Below average Poor

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MAHATMA GANDHI COLLEGE, THIRUVANTHAPURAM-695004

Parent Feedback

Department ----- Class -----Academic Year -----

Asses the **Department** for each statement

(Excellent: Good: Average: Below average: Poor)

Put the number of teachers in each category

A. Name of the Dept.....

1. Punctuality and Regularity

Excellent	Good	Average	Below average	Poor

2. Coverage of topics

Excellent	Good	Average	Below average	Poor

3. Help in academic activities

Excellent	Good	Average	Below average	Poor

4. Help in extracurricular activities

Excellent	Good	Average	Below average	Poor

5. Teacher-student relationship

Excellent	Good	Average	Below average	Poor

6. Discipline Enforcement

Excellent	Good	Average	Below average	Poor

7. Remedial teaching

Excellent Good Average Below average Poor

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8. Understanding students

Excellent Good Average Below average Poor

--	--	--	--	--

9. Effectiveness of P.T.A meetings

Excellent Good Average Below average Poor

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B Asses the college for each statement (put X mark)

10. College atmosphere

Excellent Good Average Below average Poor

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11. Services of office staff in Fee section

Excellent Good Average Below average Poor

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12 .In Scholarship section

Excellent Good Average Below average Poor

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13. T.C, Conduct Certificate section

Excellent Good Average Below average Poor

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12. Library services

Excellent Good Average Below average Poor

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13. Canteen facilities

Excellent Good Average Below average Poor

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14. Toilet facilities

Excellent Good Average Below average Poor

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15. Computer lab: services

Excellent Good Average Below average Poor

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16. Sports & games facilities

Excellent Good Average Below average Poor

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17. Interaction with Principal

Excellent Good Average Below average Poor

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MAHATMA GANDHI COLLEGE, THIRUVANTHAPURAM-695004

Student Feedback

Department ----- Class -----Academic Year -----

Evaluate the Tutorial System in your Department for each statement

(Excellent: Good: Average: Below average: Poor)

1. Tutor –student relationship.

Excellent Good Average Below average Poor

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2. Rapport & support from Tutor

Excellent Good Average Below average Poor

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3. Punctuality in conducting tutorial sessions

Excellent Good Average Below average Poor

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4. Help in academic activities

Excellent Good Average below average Poor

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5. Remedial teaching

Excellent Good Average Below average Poor

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6. Motivation & guidance

Excellent Good Average Below average Poor

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7. Help in extracurricular activities

Excellent Good Average Below average Poor

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MAHATMA GANDHI COLLEGE

(Accredited at A level by NAAC)

Student Feedback

Department ----- Class -----Academic Year -----

Evaluate the **Office/Non-teaching staff** of your college by awarding points for each statement

(Excellent -5, Good -4, Average - 3, Below average --2, Poor -1)

1. How do you rate the efficiency & readiness of Office /Non-teaching staff in?

- 1) Clearing your doubts. ----
- 2) Scholarship section ----
- 3) Fee section ----
- 4). T.C, Conduct Certificate section ----
- 5). Lab: attenders ----
- 6). Library attenders ----
- 7) Action on your complaints -----
- 8) Help from computer Lab: -----
- 9) Overall performance of Office/Non-teaching staff -----

APPENDIX 17

STUDENTS WHO RECEIVED PLACEMENTS DURING 2007-08

No	Name of student	Course and class	Placement received
1	Anaswara S	IIMSc Mathematics	Infosys
2	Sreevidya	IIIBSc Mathematics	Federal Bank
3	Darshan	IIIBSc Mathematics	Federal bank
4.	Vinod.v	IIMSc Botany	Federal bank
4	Shibukumar.C	IIMSc Botany	State Bank of India
5	Rajesh R	IIMSc Chemistry	Hindustan latex