

NAAC report of Government College

SECTION I

INTRODUCTION:

Government College, Madappally was established in June 1958 and is located on Madappally Hill of Onchiyam Panchayat, Vadakara Taluk, Kozhikode District of Kerala State. The motto of the college is 'Work, work and work alone'. The college started functioning in 1958 with two divisions of the pre-university classes with a strength of 160, temporarily housed in a rented building used by the Government Madappally Fisheries Technical School. The college was shifted to its permanent buildings on the Madappally Hill on 15.03.1963. The college was under the University of Kerala till it was affiliated to the University of Calicut in 1968. The college offers courses in various disciplines at the under graduate and postgraduate levels.

Government College, Madappally has submitted its Self Study Report in 2003 to be assessed by the National Assessment and Accreditation Council, Bangalore (an autonomous council of the UGC) and a Peer Team comprising Prof. S. Lakshmi, Former Vice-Chancellor, Mother Teresa Women's University, Kodaikanal as Chairperson and Prof..H. J. Narke, Principal, Vivekanand Arts, Sardar Dalip Singh Commerce and Science College, Aurangabad, Maharashtra as Member Co-ordinator and Prof. L. Kannan, Director (Research), Centre of Advanced Study in Marine Biology, Annamalai University, Parangipettai as Member.

The team visited the college on October 8-10, 2004. The Peer Team interacted extensively with the Management, the Principal, Teaching Faculty, Non-Teaching staff, students (present and past) and Parents. To validate the information provided by the Self-study Report, the team visited the departments, class rooms, library, laboratories and other facilities based on which the Assessment Report is prepared.

Aims and Objectives:

The college aims at the comprehensive development of the students by making them, Understand themselves and discover their latent capacities

Think clearly and critically and communicate effectively

Learn how to make practical application of knowledge and skills, and

Imbibe the values of good citizenship

The goals and objectives of the college are the educational advancement of the socially, economically and educationally backward people of the regions in and around Vadagara.

Government College, Vadagara is funded by the Government of Kerala and is affiliated to the University of Calicut. The college is recognized by UGC for funding under 2F and 12B clauses (17.06.1972).

The college is located in a rural setting with a campus area of 27.19 acres. The college conducts 10 UG programs and 5 PG programs (Total 15). These include eight programmes in the faculty of Science, five in the faculty of Arts and two in the faculty of Commerce.

The norms prescribed by the Government of Kerala are followed for recruitment of the teaching and non-teaching staff of the college. The number of permanent teachers is 64 (44 M + 20 F) with 14 PhDs (10 M + 4 F), 16 M.Phils (8 M + 8F) and 34 post-graduates (27 M + 7 F). The temporary teaches are 8 (2M + 6F). The administrative staff are 41(34 M + 7F).

The unit cost of education is Rs.16,659 per student. The college follows the annual system for the UG programs. Semester system has been introduced at the PG level with effect from 2001.

The college library has 48,390 books. Journals are 36 in number (National 30 + International 6)

Besides funding by the Kerala Government and the UGC, financial support is provided by CDC and PTA for the institution. The college does not run any self-financing course.

SECTION II : CRITERION-WISE ANALYSIS

Criterion I : Curricular Aspects

The college offers academic programmes for B.A., B.Com. and B.Sc. for three years as under-graduate courses. The languages offered for B.A., B.Sc. and B.Com. are English, Hindi, Malayalam and Arabic. The main subjects available for students of B.A. are English, Economics, Politics, History and subsidiary subjects available are World History, British History, Politics and Economics. The main subjects available for students of B.Sc. are Physics, Chemistry, Mathematics, Zoology and Botany and subsidiary subjects are Chemistry, Mathematics, Physics, Statistics, Botany and Zoology. The college offers Post-graduate courses in M.Sc Chemistry, Physics and Zoology ; M.A. in History and M.Com.

The proportion of knowledge component is 80 and skills 20 in the programme options. The college provides for the elective options for the students. The faculty of the college who work as members of the Board of Studies take part in the process of curriculum development.

Highlights :

Goals of the college are clearly stated, reviewed and communicated effectively.

Strength :

Value based education to produce socially responsible citizens.

Criterion II : Teaching, Learning and Evaluation

The students are admitted to the college based on their academic record and interview. Students' knowledge and skills for particular programmes are assessed by the teachers through interaction and aptitude assessment during tutorial hours. There are no remedial courses and programmes for advance learners available in the college. All the teachers design their own teaching plan for the time bound syllabi completion. The syllabi are unitized term-wise into 3 parts at the UG level. In case of non-completion of the syllabi within the schedule, special classes are held on holidays. In case of PG, syllabi are unitized into 4 semesters each having 90 working days. The lecture method is supplemented by seminars, discussions, assignments, project work, field trips and study tour programmes. The Departments of Zoology and Commerce have overhead projectors and the Department of English has an audio-visual system for teaching phonetics.

The workload for a teacher is 40 hours per week. The ratio of teaching staff to non-teaching staff is 3:2. Percentage of classes taught by full time faculty is 100%. The evaluation methods are communicated to the students through the tutorial system at the beginning of the year. The overall performance of the students is monitored by the tutors through interaction and assessment of students' individual capabilities. The teachers are recruited by the Public Service Commission of Kerala and new teaching posts are created by the state government at the time of introduction of new courses. The college has freedom to appoint guest lecturers as per the norms of the Directorate of Collegiate Education and the State Government pays their salary.

The teachers attend seminars, conferences and workshops at national level as participants and serve as resource persons. The College practises self-appraisal method for the faculty. Students' appraisal of teachers' performance through questionnaire is obtained. The college also collects students' evaluation on campus experience. The Department of Commerce had conducted refresher course in the year 1999. The college is having linkage with Rajiv Gandhi Center for Biotechnology, Trivandrum, German Academic Exchange Programme, the Folk-lore Study Centre, KunchaliMarakkar Study Centre, Malabar Institute of Research and Development centre, Vadakara run by the former Vice-Chancellor of Calicut University, Dr.K.K.N.Kurup and The MCA Centre of Vadakara.

Highlights:

Admission through interview and academic records, following the state government rules

Unitized Syllabus

Self Appraisal Method

Strengths:

Students - Appraisal of the Teachers

Seminars, discussion and Assignments

Guest Lectures

Criterion III : Research Consultancy and Extension

Research is a significant activity in some of the departments of the college. The P.G. Students are given research orientation in the form of project work. Teachers can avail of study leave to a maximum period of 24 months during their service. FIP schemes are

available to the teachers. The Department of Physics is a center for Ph.D. About 25% of the teachers are engaged in active research in the college. Three teachers have been awarded Ph.D degree during the last 5 years and 3 have submitted their theses for the award of Ph.D.

The College is having one ongoing research project funded by UGC with a total outlay of Rs.35,000/-.Dr.K.K.N.Kurup, the former Vice-Chancellor of Calicut University has submitted a research proposal to the ICHR through the college.

The college has deputed staff for extension activities of NSS, CSS and NCC. The college students participate in many community development programmes in rural and urban areas under the scheme of compulsory social service. They also work with medical authorities in the field of health and hygiene awareness. The college also has extension activities taking the help of NGOs and GOs.

Highlights :

Research - Significant Activity.

Strength:

Teacher Participation in State and National Seminars and Conferences.

Criterion IV - Infrastructure and learning resources

The college is located on the Madapally Hill of Onchiyam Panchayat, Vadakara Taluk of Kozhikode district of Kerala State, in a rural area. Area of the campus is 27.19 acres. There is adequate space to accommodate various UG and PG departments, library, auditorium, administrative building, sports grounds, canteen, workshop and other necessary facilities.

The required infrastructure facilities are provided and maintained by the Kerala Government through the Public Works Department and the college administration ensures the cleanliness and beauty of the campus. The Botanical Garden i.e. the lush green campus garden is the result of painstaking efforts of the nature loving students and teachers of the college, who transformed the once barren, rocky landscape of the college into the present lovely atmosphere. This is a laudable activity towards the conservation of biodiversity, an important aspect, envisaged in the UN Convention on Biological Diversity. There is a Nature

Club in the college, which is functioning very effectively. Its activities help add more and more plant species every year. It also organizes nature camps, seminars, quiz programmes and essay competitions. to create awareness among the students and common public about nature's importance.

The college has a spacious double storied library building with a collection of 48,390 books. Every year, reasonable number of text books and other books are being added. Journals and periodicals also find a place in the library, though they are a few in number. There is an advisory committee for the library, giving good representation to different departments. Inclusion of the chairman of the college union in the committee is appreciable. The library is functioning on all days except Sundays and government declared holidays, from 9.30 am to 4.30pm. This will be conducive for the academic pursuit of the students. The library has reprographic and computer facilities. Audio and video cassettes are also available for the use of students.

The college houses a Computer Centre in the Physics department with 6 computers and internet facility. This is approved by the University of Calicut as a Research Centre. Working hours are between 9.30 am and 4.30 pm. This will be best suited to the staff and students. It is good to learn that the Centre has developed softwares for admissions as well as for internal examinations in Commerce subjects. The computers are maintained by a computer firm, run by the old students of the college, though annual maintenance contract is not in practice. The PG department of Commerce is also running a Computer Centre with 4 computers. Departments of Physics and Botany are having one computer each. Likewise, other UG and PG departments can be equipped with computer facilities so as to help both students and staff.

The college does not have hostel facilities for girls and boys. However, sufficient land has been acquired for the construction of a ladies hostel for boys and girls.

The college does not have its own Health Centre but the facilities of a nearby Primary Health Centre, run by the Government, at a distance of half-a-kilometer from the campus are availed of. Advanced medical treatment is given using PTA funds, in a private hospital at Vadakara. The college has a health and counselling centre. The centre has issued health cards

to all first year students with the assistance of Lions Club and C.M.Hospital of Vadamara and steps are being taken to issue health cards to the remaining students.

The physical education department co-ordinates the sports activities of the college. To lay emphasis on the physical fitness and personality development of students, the college has developed very good major and infrastructure facilities in the form of multipurpose gymnasium and foot-ball ground as well as separate courts for volley ball, shuttle badminton, basketball, lawn tennis, table tennis and kabadi.

Reservation of seats for proficient sports persons in admissions to various courses is in practice so as to encourage sports talents. The college is to be applauded for its various measures in promoting sports activities in the college. It offers several incentives to sports men and women. It is gratifying to note that the students of the college have participated in University; State, Regional and National level competitions.

There is a workshop in the college, housing a lathe, electric drill, transformer-winding machine, hydraulic press, metal cutting machine and grinding and buffing machine. These would definitely help in the day-to-day maintenance of the college.

Strengths

There are adequate physical facilities and maintenance for running different academic programmes and for carrying out administrative functions.

The college has adequate library facilities and reasonable computer facilities.

There is optimal use of infrastructure including library and computer facilities.

There is satisfactory arrangement for health services.

Excellent infrastructure facility and incentives are available for promoting sports and games.

Canteen, workshop and nature club are the other added advantages of the college.

Areas of concern:

Separate hostels for boys and girls are to be made available.

CRITERION V - STUDENT SUPPORT AND PROGRESSION

The college prospectus has relevant information regarding the courses offered and details of fees. More details are given in the college calendar for the benefit of the admission seekers and students. Another welcome measure of the college is the development of its own website to provide with information on various aspects of the college.

The strength of students in UG is 1238 and in PG is 111. The drop-out rate is minimum. Progression to employment and further study is 40% and 30% respectively.

There is a Career and Employment Guidance Centre, functioning under an honorary Co-ordinator, who also plays the role of the Placement Officer, since the college is not an exclusive professional institution. Tutorial system is functioning in the college for personal counselling. More efforts are needed to get employment for the students through the placement services. The motivation given by the college to the students for self-employment is highly appreciable as many graduates have chosen jobs in different entrepreneurial areas and some of them have set up their own enterprises in these promising areas.

The Alumni Association is functioning from 1989. It involves itself in the development activities of the college. There are adequate recreational and leisure time facilities for the students. Co-operative store and Students Union are also functioning effectively to help the students.

It is appreciable that 80% of the students are getting financial assistance from the government, through stipends, concessions and scholarships. There are separate scholarships and stipends for weaker sections and poor students. In addition, there are student aid funds, prizes and endowments instituted by different agencies to help and encourage the students.

Strengths

There is progression to further study i.e. UG to PG and PG to research and to employment.

Drop-out rate of students is minimal.

Motivation of students for self-employment is a welcome measure.

Financial assistance to students through different means is very encouraging.

There are adequate recreational and leisure time facilities for the students.

Areas of concern

Academic counselling needs strengthening, in addition to counselling given in the class rooms.

Appointment of a Placement Officer exclusively for career and employment guidance is necessary, as at present, no student has been found employed through the existing system.

Feed-back from students has been obtained only recently and there appears to be no mechanism to take up follow-up actions on the feed-back of students on various aspects. This can be done, as this would help in quality enhancement of the academic programmes of the college. Feed-back from students can be obtained every year.

Students need motivation to pass GATE, GRE, TOEFL, SLET and others.

Involvement of Alumni Association can further be enhanced for various developmental activities of the college.

CRITERION VI - ORGANIZATION AND MANAGEMENT

The organizational structure of the college is effective. The College Council consists of Principal as chairman, heads of departments, representatives of staff and librarian. This council guides, co-ordinates and monitors all the academic and administrative functioning of the college.

Need-based programmes including computer training are organized to equip the office staff of the college for the modern trends of administration. The staff are also sent to government management institutions for training. The work efficiency of the staff is monitored through maintenance of personal registers.

The college adheres to government rules for collection of fees and other financial transactions. The structure of the fees is government stipulated and there are no self-financing courses. The audit mechanism of the college is appropriate. Purchases are made as per government rules, with the guidance of a Purchase Committee.

There are different welfare schemes for the students through various scholarships, placement center and medals and prizes for their academic proficiency. College canteen and co-operative store are also added advantages to the student community. Students Grievance Cell with a women welfare officer and other members is functioning in the college. However, hostel facilities for both boys and girls appear to be the immediate need.

For the welfare of the staff, there are 33 residential quarters with only 4% of the basic pay collected as rent. However, separate recreation clubs and loan and credit facilities can be arranged for them.

Strengths

Organizational structure of the college is good.

Budgeting and auditing procedures are sound.

Financial management is also good.

There are reasonable welfare schemes for students and staff.

The non-teaching staff are tuned to modern administration procedures through appropriate training.

Areas of concern

There can be a mechanism in the college to involve students, in addition to teaching and non-teaching staff in the decision making process.

Grievance redressal mechanism of the college needs strengthening.

CRITERION VII - HEALTHY PRACTICES

The college has adopted many healthy practices for the improvement of its academic programmes and for the all round personality development of its students. For quality enhancement, attendance improvement in commerce section, remedial teaching for improving spoken English, student seminars and class-room presentations by students in different departments have been taken up as good measures.

The tutorial system practised in the college helps in imparting values among students thereby attaching importance for value based education. The students receive training to discharge civic responsibilities through CSS, NSS and NCC. These programmes also help the students acquire leadership qualities, develop community oriented attitudes and group living.

College does well in the all round development of students personalities through various clubs, focusing attention on the cultural, cognitive and physical aspects, always supported by the PTA of the college.

Strengths

Good measures are taken by the college to have quality enhancement in education.

Programmes run by the college are adequate to develop leadership qualities, community oriented attitudes and group living.

Focus on value based education is observable in the functioning of the college.

The college is to be appreciated for its involvement in the overall development of students' personalities.

Involvement of PTA in all the healthy practices of the college is applaudable.

Areas of concern

Complementary systems like self-financing courses and need based courses can be started in the college to add to its academic growth and strengthen its activities.

Initiatives are needed to have exchange programmes for students and staff and MOUs with industries and nearby research institutions in furtherance of academic and research pursuits.

Likewise, national and international linkages can be established for training and research.

In general, involvement of staff in research needs to be strengthened especially in arts and humanities. They can be encouraged to attend national and international research programmes, publish papers in standard indexed journals and obtain research projects.

Section III

Overall Analysis and Recommendations:

Government College, Madappally, Vadagara, possesses adequate infrastructural facilities for higher education in a rural setting. This is evident from the sprawling campus, central library, sports facilities, computer center, health centre, workshop, staff quarters and canteen. The college is yet to plan for hostel buildings for students. The autonomy of the college in curricular aspects depends on the Calicut University, to which it is affiliated. Hence for UG courses, the annual system of examination is followed and for PG courses, the semester pattern is followed. The changing trends in higher education focus on the need for progressive challenges, at every step. The examination pattern is one of the yard sticks that measure quality in higher education. This aspect needs to be improved for this college.

The laboratory facilities for UG courses are adequate. Separate spacious labs are available for the PG courses in Science. The labs have modern equipments, safety measures and other facilities. The Chemistry Department has a gas plant.

The college has a general library and there is a departmental library for each discipline where books are issued to students, for main and subsidiary subjects. Journals of national and international standards are purchased. The college uses 14 computers, which are placed in the different departments and the library.

It is interesting to find that the system of student appraisal of teachers, provides for improvement in faculty performance in class room teaching.

The college also collects students-feedback from their evaluation of campus experience.

Regarding research, the college attempts to promote the same, as a significant activity of the institution. P.G. students are given research orientation by faculty members who possess M.Phil and Ph.D qualification. Teachers are given study leave for pursuing research, upto a maximum period of 24 months. FIP schemes are also available to the teachers, since the college is recognized by UGC under 2f, from 1972. Adjustment in teaching schedule by faculty is also done.

The post-graduate Department in Physics is a recognized center for conducting Ph.D. programme in this discipline. This is the only Ph.D. center in the college and it is to be appreciated that a reasonable percentage of the faculty are engaged in active research and 10% of the teachers are pursuing research on part-time basis. Research publications by the teachers are also available. Major and minor research projects undertaken by the faculty need to be mentioned. Two of the faculty members from the Commerce and Zoology Departments publish research papers regularly. The number of teacher fellows, full time is 1 and part time are 6, besides six research scholars.

During the last 5 years, Ph.D. has been awarded to three faculty members (one each in Chemistry, History and English) and three doctoral theses have been submitted to two Universities in the previous year.

The college campus is clean and pollution free with lush green vegetation and a botanical garden, thanks to the efforts taken by the staff and students, during the past two decades.

The college has a separate Physical Education department with ample infrastructure and facilities, which are properly utilized.

The Alumni Association functions effectively form 1989. Several of the students of yester years occupy positions of prestige in different fields. The college has an employment and guidance bureau through which job opportunities are made known to students. This

bureau functions under an honorary coordinator. Students are trained in entrepreneurship during studies and after finishing their study, many of them take up self employment.

Other highlights of the college include a cooperative store for purchase of books and stationary items at concessional rate. Students Union of the College and subject-wise associations are also functioning effectively.

The college organizes need-based programmes for non-teaching staff, such as training at the Institute of Management in Government, Trivandrum. Staff are motivated to pass tests in office administration and accounts.

Students enjoy scholarship facilities. This being a Government-funded institution, fees charged from students are minimal.

The college has 33 residential quarters for the staff members, with 4% of the basic pay collected as rent. This is a unique feature of the system.

There is a Student's Grievance Redressal Cell, for which the members are a staff-adviser, PTA secretary and a senior professor. The women's welfare officer is an ex-officio member of this Cell.

Case situations of the measures adopted for quality-check include attendance-improvement, remedial teaching, student-teaching in Commerce, ensuring quality in purchase of equipment, master-plan for quality growth and development and 'Informatics centre' of the Physics department.

The college has a well-organized Parent-Teacher Association, which is actively involved in the total growth and development of the institution.

The college has certain unique features which need special mention.

The college maintains a Herbal Garden, which has 150 species of plants including medicinal plants. A separate sprawling Botanical Garden is also maintained with some very rare plants.

The Department of Physics has a workshop with machines for making and repairing instruments and tools. The department also concentrates on information technology and research areas such as Human speech recognition, Artificial neural networks, Digital image processing, Digital communication and still others through its Computer Speech and Intelligence Research Centre which is active.

The students of the college and the faculty, many of whom are the alumni of the college, render service to their almmater, and have undertaken painting and white washing the several buildings of the institution.

Value improvement by the students is visible in their disciplined behaviour, which will make higher education effective for them.

Students render service to their departmental libraries, by arranging and issuing books. For most of the departments, journals are subscribed by the faculty and the students.

The general library has 48,390 books and more than 30,000 books from this library were given to the departmental libraries. The general library has a qualified librarian with three assistant librarians. Accession register, containing the list of all the books, is mostly computerized. The library has internet facilities, online public access catloague, a laser photo-copier (for reprographic service) and IT phone facility. The UGC Net work Resource Centre, functioning in the general library has received funding for its first phase.

The Students' Union functions effectively for the college in general and for the departments in particular.

The PTA provides finacial assistance to several services of the college. The College Development Council, with the District Collector as chairman and with MP, MLA, Municipal chairperson, Panchayat Union President and other eminent members from the public, takes care of the various developmental programmes of the institution.

Recommendations :

The following recommendations are made for further growth of the institution.

Progressive higher education requires change and challenges, and these include the examination system also. The college could opt for the semester pattern for the UG courses. Choice based credit system, and a strong information technology base are suggested.

Hostel facilities for students are recommended.

Information Technology is used adequately by the college. However, basic courses in computer literacy could be provided for all the students of the college.

The college offers 5 post-graduate courses in basic sciences and the department of Physics conducts Ph.D. in the discipline. Hence, the faculty members participate in the state, national and international seminars and programmes. This aspect needs to be strengthened. Faculty could be encouraged to serve as resource persons for such programmes as well.

The college being an affiliated institution to the Calicut University has little flexibility in the revision of curriculum and for generating new inputs. Hence, periodic curriculum revision is suggested. System-renewal is possible in a state of autonomy. This aspect is essential for this institution, which at present could not decide its curricular design. It is however heartening to note that faculty members who are members of the Board of Studies attempt at curriculum revision wherever possible.

Annual academic audit for the college by the University is suggested, for assuring quality in higher education.

In teaching and learning transaction, action is needed for the backward students and also challenging programmes for the gifted. Faculty members could develop extrinsic and intrinsic motivation in students.

The college has adequate focus on research in some departments, which could be further strengthened in other departments also.

Linkages with inter-university centers like UCAA, CEC and INFLIBNET are suggested. Twinning programmes, student exchange programmes and MOUs with industries and research organizations could also be attempted.

The college could offer applied science courses, such as Bio-technology and Aquaculture and could revamp the post-graduate course in Chemistry, by introducing application oriented units. Job oriented subjects could also be introduced in Science, History and other disciplines.

The department of History has a museum, with articles depicting Kerala's history. This museum could be developed further and kept open for the public.

The sports facilities of the college could be further developed with a good stadium so as to conduct tournaments. The members of the PTA and the public (including the M.P., M.L.A, Panchayat President and others of this region) are ever willing to render help in this project and also in other educational programmes.

Women students of the college need a physical directress for games and sports.

Conclusion :

The college enjoys an absolute academic atmosphere for higher education, with the public evincing keen interest in its further growth and the faculty and administrative staff being sincere in their duties and commitment to the college development and its sustenance. The statement of the Education Commission (1964-64), that the destiny of the nation is decided in the class rooms of our educational institutions is both philosophical and pragmatic. Internal quality assurance and planning for renewal of the system are very essential for the growth of any institution. Also excellence is a continuous process towards further vistas in education for all the institutions, which are self-motivated.

The Peer Team desires the Government College, Madappally, further growth and quality assurance imbued with a vision for getting a significant place in the national stream of higher education.

Prof. Dr. S.LAKSHMI (Chairperson)

Prof. Dr. H.J.NARKE (Member - Coordinator)

Pro. Dr.L. KANNAN (Member)