

NIRMALA COLLEGE

MCA PROGRAMME

[Approved by AICTE, New Delhi, and Affiliated to M G University, Kottayam]

Muvattupuzha, Ernakulam Dist, Kerala-686 661

Phone 0485-2836363, 2830370, 9495030573

Fax: 0485-2836300, 2831463

E-mail: mca@nirmalacollege.org

Website : www.nirmalacollege.org

PROSPECTUS



Let your light shine

Name.....

Class & Batch.....Roll No.....



**NIRMALA COLLEGE
MUVATTUPUZHA**



MCA PROGRAMME

**[Approved by AICTE, New Delhi, and Affiliated to
M G University, Kottayam]**

- Patron** : **Mar George Madathikandathil,**
Bishop of Kothamangalam
- Managed By** : **Nirmala College Society,**
Diocese of Kothamangalam
- President** : **Msgr. Cherian Kanjirakombil**
- Administrator** : **Rev. Fr. Mathew Chandrankunnel**
- Principal** : **Dr. T.M. Joseph**
- Director** : **Dr. John K.J.**





Dear Students,

This college is established for you students. It is you who give entity to the college and render it a meaningful existence. Be part and parcel of this institution, make use of all the opportunities that come your way for improvement and strive hard to raise its image and glory. Remember that the management and staff are your well-wishers, your elder brothers and co-travellers in the journey towards success. Confide in them, draw from their experience and erudition, love and respect them. May the days you spend here be a memorable part of your life and stepping stone to a prosperous future.

Dr. T.M. Joseph
Principal



About the college

Profile of the College

Nirmala College, Muvattupuzha is a first grade college which has completed 63 years of glorious service to the cause of higher education. The College celebrated its golden jubilee in the academic year 2002-03 and treads on to conquer new heights in the path of academic excellence. Towering aloft on the peak of a high hill, surrounded by luxuriant vegetation, intermingled by shady trees and distant from the clamour and confusion of the city, stands Nirmala College; the beacon light of learning and scholarship. Renowned for its picturesque landscape and tranquil serenity, the College provides a congenial atmosphere for study and research.

The Institution

The College is situated in the Avoly Panchayat of Muvattupuzha Taluk in the district of Ernakulam. It was founded in 1953 by His Grace Most Rev. Dr. Augustine Kandathil, Archbishop of Ernakulam to meet the educational needs of the Eastern Districts of North Travancore, especially of the Catholic Community, at a time, when higher education was the wildest dream of the ordinary people living in the villages and the suburbs. In 1955, the College was raised to First Grade by starting B.A., B.Sc. and B.Com courses.

Post Graduate courses were introduced in 1965 and Research facilities are now available in 5 departments.

Thus over the years, the College has grown in size and stature. The divine legacy left behind by the founders of this College and the rich heritage built up by their successors have placed us on a high pedestal in the field of education and research. Now Nirmala is one of the foremost colleges in Kerala with 2071 students and 123 faculty members. The College is affiliated to Mahatma Gandhi University, Kottayam and was nationally accredited by NAAC at B++ grade (82.7% points) in 2007. The college is reaccredited (3rd Cycle) by NAAC during March 2013 with a CGPA of 2.85.

Name & Emblem

Nirmala (the pure one) is an attribute of the Blessed Virgin Mary, the immaculate mother of Jesus Christ. The college takes its name from Mother Nirmala and is dedicated to her. It is to her intercession we attribute all our success.

The emblem is a symbolic representation of what the college stands for. It consists of devices such as the heart, the star, the open book and the natural scenery viewed against the backdrop of the azure sky. The end of education is not merely the acquiring of knowledge but also the perfecting of the heart. Knowledge without character is dangerous; head without heart is worthless. The immaculate heart of Mary with a burning love of the infinite good, of all that is good and useful is the pattern on which the students have to model their hearts. The star represents light from heaven, the divine spark illumining the pursuit of knowledge. The open book indicates the quest after knowledge and the consequent intellectual formation. In short education aims at developing the whole man, his intellectual, emotional and spiritual life. The natural scenery of Kerala with lakes and mountains, hills and valleys reminds the students that before one launches out into the sea of life, he must be trained to steer clear of the violent waves and the dangerous rocks. The wisdom and prudence that is so necessary for a successful voyage is to be sought from above the Lord Himself.

Programmes Offered

MCA	Seats
1. Master of Computer Applicatons : Regular (3 Years)	60
2. Master of Computer Applicatons : 2 years for L/E	60

Vision

Achieving academic excellence for technological advancement of the society.

Mission

The college aims at the integral development of personality coupled with integrity of character based on Christian ideals. Though instituted primarily to satisfy the educational needs of the Christian community, its portals are ever open to all and it strives to cater to the needs of everyone, irrespective of caste and creed.

A Salutation to the Students

This college is established for you students. It is you who give entity to the college and render it a meaningful existence. Be part and parcel of this institution, make use of all the opportunities that come your way for improvement and strive hard to raise its image and glory. Remember that the management and staff are your well wishers, your elder brothers and

co-travellers in the journey towards success. Confide in them, draw from their experience and erudition, love and respect them. May the days you spend here be a memorable part of your life!

About the Department of Computer Science




Master of Computer Applications course was officially inaugurated in November 2002 by His Excellency Rt. Rev. Dr. George Punnakkottil, Bishop of Kothamangalam, followed by blessing of the newly constructed, well equipped computer lab. The MCA Regular programme is of three years' duration with two semesters for each year. The MCA Lateral programme is of two years' duration with two semesters for each year. These programmes, with a batch strength of 60 students each, are approved by AICTE, New Delhi, and is affiliated to M.G. University, Kottayam.

Faculty Profile

S.No.	Name	Designation	Qualification	Date of Joining
1	Dr. John K.J.	Director	MSc. Ph.D	01-11-2016
2	Ms. Shija Paul P.	Asst. Prof.	MCA	27-08-2002
3	Mr. Sherin Mathew G.	Asst. Prof.	MCA, M.Tech	01-07-2003
4	Ms. Smitha M.	Asst. Prof.	MCA	07-05-2007
5	Ms. Sherry O. Panicker	Asst. Prof.	MCA, M. Phil	01-09-2003
6	Mr. Raison J. Mathews	Asst. Prof.	MCA	01-09-2005
7	Ms. Siji P. Joy	Asst. Prof.	MCA	17-08-2006
8	Ms. Smitha Anu Thomas	Asst. Prof.	MCA, M. Phil	16-01-2006
9	Mr. Biju Peter	Asst. Prof.	MCA	11-11-2002
10	Ms. Anu J. Marattil	Asst. Prof.	MSc.	22-06-2009
11	Prof. G. Chandrasekhara Kurup,	Prof. MSc.		11-11-2002
12	Ms. Deepa Liza Alex	Asst. Prof.	MCA	24-01-2011
13	Ms. Deepthi Thomas	Asst. Prof.	MCA	05-11-2012
14	Ms. Arya S. Nair	Asst. Prof.	MCA	02-06-2014
15	Ms. Divya Rajan	Asst. Prof.	MCA	02-06-2014
16	Ms. Ann Maria Mathew	Asst. Prof.	MCA	02-06-2014
17	Ms. Preethy Binu	Asst. Prof.	MSc.	11-05-2015
18	Ms. Niby Babu	Asst. Prof.	MCA	11-05-2015
19	Ms. Anet Thomas	Asst. Prof.	MCA	11-05-2015
20	Ms. Delitia M. George	Asst. Prof.	MCA	11-05-2015

Rules and Regulations

General Discipline

-  **Never forget that 'Nirmala' is your college, that the campus is your home, that apart from your parents, the teachers are the most concerned about you and the most interested in your future.**
 -  **Do your best to preserve the calm academic atmosphere of the college.**
 -  **Every member of the College will carefully note the following rules and accepted traditions and try to respect them both in letter and in spirit.**
1. All inmates of the college shall behave always and everywhere with respect for God and love for the country. They shall pay special attention to good manners, gentlemanly behaviour, modest dress, order and cleanliness and shall do everything to maintain the dignity of the human person and the good name of the institution. They shall respectfully follow the instructions issued by the Principal and other competent authorities, from time to time.
 2. Medium of communication is English and it must be strictly followed in the campus.
 3. Students shall greet teachers within the college premises, as also when they meet them in public.
 4. Students shall be punctual and earnest in attending classes and other academic, co-curricular and extra-curricular activities.
 5. Lingering on the College roads and in the courtyard is to be meticulously avoided.
 6. The classes start at 9.15 am. The classes are divided into 2 sessions; forenoon 4 periods and afternoon 2 periods. At the end of both the morning and evening sessions there are two bells.
 7. Ill-mannered noise-making in the college premises is to be avoided. Smoking is strictly prohibited. The campus is plastic free. No student, on any account, shall make chalk or pencil mark or drawing on walls and furniture. No member shall throw any waste material on the floor or ground, but shall drop them in the waste baskets and bin

provided for the purpose.

8. Students who happen to have no classes are not to loiter about during class hours; they must use the time in the library or in the lab.
9. Students shall prudently avoid bad company, which leads to failure in study, character and life. Students are forbidden to organize or attend any meeting in the college campus, to collect money for any purpose, to circulate any notice or petition of any kind, paste any notice in the campus and to post anything on the college notice-board without the written sanction of the Principal.
10. Students are forbidden from taking active part in political agitation or in any undesirable movement. Decision on the matter rests with the Principal.
11. All the members are welcome individually to bring to the notice of the Principal, in the right spirit, any reasonable grievance or difficulty they might have.
12. For unbecoming activities and serious offences, punishment may range from heavy fines, to suspension from classes, withholding term certificate, and in extreme incorrigible cases to expulsion from the college.
13. Each class will be entrusted to a class teacher. In addition, students will be divided into convenient groups. Each group will be entrusted to the care of a tutor. The students in each group will have a tutor for guidance whenever necessary. The class teacher or tutor will be the local guardian of the students in his group.
14. No student shall enter or leave a class without the permission of the staff or until the class is dismissed.
15. No matter for publication in News papers, Magazines, Journals or other media may be submitted in the name of the college without the permission of the Principal.
16. Megaphone/Loud speaker etc. should not be used, and posters, banners or boards should not be put up on the campus without the permission of the Principal.
17. Serious action will be taken against students bringing outsiders to the college without prior permission of the Principal.
18. Political activism is strictly banned in the campus. Students are

forbidden to organize or attend meetings other than the official ones. Students resorting to strikes are strictly prohibited from entering the verandah of the building or the classrooms.

19. Use of Mobile Phones are not permitted within the campus.
20. Any student who is persistently insubordinate, who is repeatedly or willfully mischievous, who is guilty of fraud or malpractice in connection with examinations or who, in the opinion of the Principal, is likely to have an unwholesome influence on his fellow students, shall be removed from the rolls. The removal shall be either temporary or permanent according to the gravity of the offence.
21. While in the campus, students should always wear identity cards and produce them on demand for inspection by any member of the staff. ID cards are essential for taking Library books, voting at college union election, refund of caution deposit etc.
22. Duplicate cards will be issued only in extra-ordinary circumstances on formal application establishing the loss of the original and on payment of a fine of Rs. 50/-

ADMISSION RULES

Eligibility: MCA Regular (3 Years)

1. Eligibility Conditions:

Qualifications

- i) A candidate seeking admission to MCA course must have a pass with not less than 50% marks in any recognized regular bachelor's Degree course of minimum three years duration in any discipline with Mathematics at 10+2 level.

OR

A pass with not less than 50% marks in any recognized Regular Bachelors Degree course of minimum three years duration in any discipline with Mathematics/Statistics/Business Mathematics/Business Statistics as one of the Subjects.

OR

A pass with not less than 50% marks in BCA/BSc Computer Science/ BSc Information Technology/ B.Tech degree of a minimum three years duration from a recognized University.

- ii) Subject to the regulation relating to prescribed minimum of the

respective qualifying examination, the minimum marks of admission to the course of studies shall be a pass in the case of SC/ST candidates.

- iii) Candidates belonging to Socially and Educationally Backward Classes (SEBC) referred to GO(P)208/66/Edn dated 2-5-96 and subsequent amendments to orders issued by the Government and University shall be given a relaxation of 3% marks in the prescribed minimum for admission.
- iv) A relaxation of 5% marks from the prescribed minimum shall be allowed in the case of OEC Candidates.
- v) A relaxation of 5% marks from the prescribed minimum shall be allowed in the case of physically handicapped persons.
- vi) Candidates who have passed the qualifying examination in more than one chance in the subject (excluding languages) will have their percentage marks de-rated at the rate of 5% for every additional appearance for the purpose of ranking.

Candidates with such degrees awarded by the Mahatma Gandhi University or any other degree recognized as equivalent to degrees in(i)by the Mahatma Gandhi University also are eligible to apply.

Reservation of seats shall be as per rules prescribed in the relevant rules by the Directorate of Technical Education, Government of Kerala from time to time.

Eligibility: MCA Lateral (2 Years)

- i) A candidate seeking admission to Lateral MCA course must have a pass with not less than 50% marks in BCA/B.Sc Computer Science/B.Sc Information Technology/ B.Tech CS/IT degree of a minimum three years duration from a recognized University.
- ii) Subject to the regulation relating to prescribed minimum of the respective qualifying examination, the minimum marks of admission to the course of studies shall be a pass in the case of SC/ST candidates.
- iii) Candidates belonging to Socially and Educationally Backward Classes (SEBC) referred to GO(P)208/66/Edn dated 2-5-96 and subsequent amendments to orders issued by the Government and University shall be given a relaxation of 3% marks in the prescribed minimum for admission.

- iv) A relaxation of 5% marks from the prescribed minimum shall be allowed in the case of OEC Candidates.
- v) A relaxation of 5% marks from the prescribed minimum shall be allowed in the case of physically handicapped persons.
- vi) Candidates who have passed the qualifying examination in more than one chance in the subject (excluding languages) will have their percentage marks de-rated at the rate of 5% for every additional appearance for the purpose of ranking.

Candidates with such degrees awarded by the Mahatma Gandhi University or any other degree recognized as equivalent to degrees in (i) by the Mahatma Gandhi University also are eligible to apply.

Reservation of seats shall be as per rules prescribed in the relevant rules by the Directorate of Technical Education, Government of Kerala from time to time.

Selection Procedure

The candidates will be selected based on the weightage of marks scored by them in the qualifying examinations, group discussions and interviews. All the candidates must appear in the entrance test conducted by the state government.

Seat Allocation

MCA Regular & Lateral (Total No of Seats:60 each)

30 seats each admitted by the college and the rest (30 seats each) by the rank list published by the Directorate of Technical Education, Govt. of Kerala.

Fee structure

MCA Lateral (2 Year)

Particulars	Amount	Term
Admission Fee	100/-	one time
Tuition Fee	50,000/-	per year
Caution Deposit (Refundable):	5,000/-	one time
Pre Placement Training & HR Fee	5,000/-	one time
Student welfare Fund	1,000/-	one time
PTA	1,000/-	one time
Association, Recreation, & Sports	1,000/-	one time
Consumables	500/-	one time
*University Special Fee	2,000/-	one time

MCA Regular (3 Year)

Particulars	Amount	Term
Admission Fee	100/-	one time
Tuition Fee	50,000/-	per year
Caution Deposit (Refundable):	5,000/-	one time
Pre Placement Training & HR Fee	5,000/-	one time
Student welfare Fund	1,500/-	one time
PTA	1,500/-	one time
Association, Recreation, & Sports	1,000/-	one time
Consumables	750/-	one time
*University Special Fee	3,000/-	one time

Fee Rules

1. Fee is to be paid at the office by cash or by DD drawn in favour of Administrator, Nirmala College of MCA payable at SIB, College Campus Branch, Muvattupuzha.
2. Fee must be paid at the beginning of each semester, ie on or before the 10th working day. After that upto the 30th working day a fine of Rs. 200/- will be charged. Afterwards Rs. 50/- per day will be charged.
3. Fee once paid will NOT BE REFUNDED in any circumstances.

Lab Rules

- 1) The students should make an entry in the register once they enter into the lab.
- 2) The students are not allowed to bring their belongings inside the lab.
- 3) Strict silence should be maintained in the lab.
- 4) The students are not allowed to use any external devices (Pen drives, Memory cards etc.) inside the lab.
- 5) The students are responsible for the system they occupy for that practical session and they will be fined if any damage to the system is encountered. So, the students should handle the system with care (eg. proper shutdown) and if they find any problem in the system it should be informed to the Staff-in-Charge or System Administrator immediately.
- 6) Students should not remove / carry about any computer accessories from the lab.
- 7) Before leaving the lab students have to make sure that the system and chairs are in place.

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- 8) Only the System Administrator is allowed to operate on the servers and to install the different software.
 - 9) No one is allowed to enter the lab without the permission of System Administrator.
 - 10) If any of the rules are violated, strict actions will be taken.

Internet Lab Rules

- 1) Only the System Administrator is allowed to operate on the servers, printers and to install the different software.
- 2) No one is allowed to enter the lab without the permission of System Administrator.
- 3) Silence should be maintained strictly in the lab.
- 4) The students are not allowed to bring their belongings inside the lab.
- 5) The students should make an entry in the register each time they enter into the lab.
- 6) Browsing of pornographic sites is prohibited.
- 7) Downloading is prohibited except document files. Violation of the same will be fined.
- 8) The students are responsible for the system they occupy for that practical session and they will be fined if any damage to the system is encountered. So, the students should handle the system with care (eg. proper shutdown) and if they find any problem in the system it should be informed to the Staff-in-Charge or System Administrator immediately.
- 9) Students should not remove / carry about any computer accessories from the lab.
- 10) If any of the rules are violated, student will be issued the warning letter, which should be duly signed by him/her and to be filed for future reference (first time).
- 11) In case of repetitions, fine will be collected. Initial fine of Rs.50, 2nd time Rs.100 and 3rd time Rs.200 after which the student will not be permitted to enter the lab.

Dress Code

1. Students should wear uniform on all days except Wednesdays and other days with exemptions.
2. Girls are allowed to wear salwar suits/sarees only[Sleeveless, short

tops, jeans, leggings etc are not allowed]

3. Boys must wear pants with shirts tucked in [T-shirts are not allowed]

Attendance

1. The working day is divided into two sessions, the fore-noon session of four periods and the after-noon session of two periods.
2. Attendance will be marked at the beginning of each period by the teacher engaging the period.
3. Latecomers may be given or refused attendance for the period, or marked late at the discretion of the teacher concerned.
4. For the purpose of attendance, all working days irrespective of the number of working periods shall be considered as full working days.
5. Benefit of attendance may be granted to the students attending University/College union/ Co-Curricular activities by treating them as present on the days of absence, on production of Participation/ Attendance Certificates, within one week, from concerned authorities and endorsed by the Head. This is limited to a maximum of 10 days per semester and this benefit shall be considered for internal assessment also.

Absence

1. Absence from one hour in any session will be considered as half day's absence.
2. Annual certificate of attendance and progress required for admission to university examination and promotion shall not be given unless the applicant has attended at least 75% of the working days of the academic year and the Principal is satisfied with the student's progress and conduct.
3. Leave for one hour may be obtained from the lecturer in charge. Application for longer leaves should be made to the HOD. Application for sick leave for more than three days should be supported by a reliable medical certificate. Any eligible leave should be claimed with supporting documents at the end of every month.
4. Before taking leave from the class, leave application should be submitted to the concerned class teacher.
5. Leave for absence from the internal examination should be obtained from the Head of the department after being recommended by the

lecturer-in-charge.

6. Absence for ten consecutive working days in total will result in the removal of the name from the rolls.

Hostel Accommodation and Residence

1. Girl students not residing with parents may reside in the college hostel.
2. They should submit full information regarding their residence to the college office at the time of admission. Any subsequent change in residence may be made only with intimation to the Principal.
3. There are 3 independent hostels for ladies: Little Flower Hostel, St. Joseph's Hostel and Alphonsa Hostel and one hostel for gents: Jeevajyothi Hostel.
4. For admission to a hostel, application should be made directly to the warden, after securing admission in the college.
5. Outstanding sports students are given accommodation in the sports hostel.

Library and Reading Room

1. The college is equipped with a good library covering all aspects of Computer education and the students can avail this facility. The library is constantly updated with books, magazines and journals related to the recent developments in the Computer industry.
2. The general and MCA block library will function from 9.00 a.m. to 5.00 p.m. on all working days.
3. Students are to produce Borrower's Ticket while borrowing books or periodicals.
4. Students can borrow 6 books at a time for a period of 15 days.
5. The books kept in the reference section will be issued to everyone for referring in the library only and will not be allowed to take home.
6. All students should return the books borrowed from the library as well as their library cards two weeks before the closing of the academic year.

Examinations, Internal Assessments and Test Papers

1. The primary purpose of examinations and test papers is to evaluate the work of the students and also to give them training.
2. Exemption from attendance at examinations and test papers is granted only by the HOD.

3. Malpractice in test papers and examinations will be regarded as a serious breach of discipline.
4. Students are expected to complete assignments and seminars given for each subject by the scheduled dates.
5. Students can score a maximum of 25 marks as internal and 75 marks from the University examination for the theory papers.
6. Internal marks are calculated based on the marks scored for a) Internal Examinations b) Attendance c) Seminars and d) Assignments
7. Students will be failed in the internals if he/she scores less than 13 marks for a paper. Internal exams will be conducted for each paper, average of which will be considered for the calculation of total internal mark.
8. There will be a mini project in the 5th semester and a major project in the sixth semester. Students are expected to complete their projects in due time, failure of which will affect their semester results.

Two internals and one final test will be conducted for the internal calculation of practical papers.

Internal Assessment Schemes

- i) The assessment will comprise of sessional assessment and university examination in certain subjects, and wholly sessional assessments in others, carrying marks as specified in the subject of study and scheme of assessment.
- ii) A candidate shall be declared to have passed in any subject in full in any semester if he/she secures not less than 50% of marks in sessional, not less than 40% of marks in the University examination including project and viva-voce and not less than 50% of the over-all aggregate marks for the subject i.e., university examination marks and sessional marks of the subjects put together.
- iii) A student may be given the option to improve the marks obtained in theory subjects of any semester (except the sixth semester) by cancelling all the theory examinations of the semester. There will be no provision to improve the sessional marks of any semester unless he repeats the semester.
- vi) University examinations will be conducted at the end of each semester for subjects offered during the semester.

- v) Semester examinations will normally be conducted in October/November and in April/May of each year.
- vi) All Sessional work shall be valued and marks awarded on the basis of day-to-day performance, periodic tests and assignments. The allocation of sessional marks for individual subjects shall be on the following basis.

<u>Theory Subjects</u>		<u>Practicals</u>	
Attendance	10%	Attendance	10%
Assignments/ Seminar	30%	Regular class work/ Lab record/ Class Performance	50%
Tests	60%	Tests	40%
Total	100%	Total	100%

The sessional marks allotted for attendance shall be awarded in direct proportion to the percentage of attendance secured by the candidate in the subject. However, full sessional marks for attendance shall be awarded to those who are securing 80% of the attendance and above.

Excursions

Excursion parties arranged by students should be accompanied by the members of the staff and their expenses shall be met by the students. Where women students go on excursions either alone or in company with men students, there should be a lady teacher or at least one senior lady approved by the Principal to accompany them. Principal's prior permission should be obtained before making arrangements for excursions.

Excursions will be allowed in the fixed year and only once in a course of study. Excursions may be arranged in such a way to minimize the loss of working days and to prefix or suffix Saturdays, Sundays or holidays.

Kerala Ragging Prohibition Act -1998

For the information of the students and their parents, the pertinent parts from the Kerala Ragging Prohibition Act published in 1998, forbidding ragging in the educational institutions of Kerala are quoted below.

2(B) By Ragging, it is meant any physical or mental torture or any disorderly conduct towards any student of an educational institution causing apprehension, dread, humiliation or agitation in him/her.

- (1) It can be any harassment like insulting, teasing, bullying or manhandling.
- (2) It can also be forcing upon him/her to do something which he/she voluntarily won't dare to do normally.
- (3) Prohibition of ragging: Ragging is prohibited both inside and outside an educational institution.
- (4) The punishment for ragging: Any student involved in ragging / persuades others for ragging or advocates ragging / either inside or outside an educational institution shall be subject to a punishment of not more than two years imprisonment in addition to a penalty of not over Rs. 10,000/-
- (5) Dismissal of a student: A student subject to the punishment under section IV is liable to be dismissed from the institution and is barred from being admitted to any other institution for a period of three years from the date of receipt of his / her dismissal order.
- (6) Suspension of a student: If a student / parent / guardian or any teacher of the institution forwards a written complaint to the head of the institution, he has to make an urgent enquiry into the matter within 7 days of receipt of such a complaint. If the allegation is proved to be correct, the accused must be suspended with immediate effect and the matter must be referred to the police for further proceedings.
- 2(1) As is said in sub-section 1, if a written complaint is received by the head of the institution, he has to make a detailed enquiry and if it is found baseless, the complainant must be informed of it in writing.
- (7) Abetting: If the head of the institution refuses to take action in the manner described under section 6 or is negligent in initiating any steps, he is to be treated as one abetting the crime and is liable to be punished under section 4.

Grievance Redressal Cell

There is provision for the redress of grievance at four levels. Complaints shall be brought to the notice of the teacher concerned in the first

instance. If the student is not satisfied with his decision, he/she may appeal to the Departmental Grievance Redressal Cell, which has as members, the Head of the Department, the Teacher-in-charge for that particular class and the teacher concerned. The student will also have the freedom to make further appeal to the college level Grievance Redressal Cell. There is a University Level Redressal Cell too.

Associations

Innovative Computer Association of Nirmala (i CAN)

The Computer Science Association spearheads the students' activities like Cameo – National Level annual IT fest, organizing seminars, technological and educational exhibitions, aptitude tests, group discussions, participation in various intercollegiate events etc.

Parent Teacher Association (PTA)

There is an active PTA for MCA programme. PTA meetings are held every year and progress reports issued. The membership fee is collected during the time of admission. Parents are encouraged to meet the staff members and based on their valuable suggestions the department facilitates co-operation and collaboration in curricular and co-curricular activities.

Alumni Association

The departmental alumni association aims at promoting lasting relationship between students and their Alma Mater. It organizes get-togethers annually. Alumni sponsor the major events of our IT Fest. It also conducts seminars/ invited talks.

Co-Curricular Activities

IT Fest- Cameo

IT Fest - the complete event on Information Technology, the mega event of Nirmala college of MCA is an exclusive event which enables the IT-Scholars to meet in a common place and showcase their talents in the technology.

As part of the event the different IT-contests like Coding, Designing, Paper Presentation, Word Hunt, Logical Gaming/ Treasure Hunt and IT Quiz are conducted every year.

The event is designed to bring out the very best from both the visitors and the participants.

Career Guidance & Placement Cell

The career guidance and placement cell maintains an extremely useful rapport with reputed firms in the industrial sector. This keeps the students well informed of job opportunities, requirements by various companies and their other demands.

Students are given Pre-placement training programme from the first semester/third semester onwards for regular/lateral MCA. Classes are handled by an expert team, every Thursday. The training programme includes:

- ✍ Instructor Led Training: Self-Awareness , Motivation, Goal Setting, Grooming & Etiquette, Functional English, Workplace English, Professional English, Aptitude Training, Interviews, GD, CV, Creative Thinking, Stress Management, Team Dynamics and Leadership
- ✍ Online Learning Program: Life Skills for the Workplace, Aptitude Training Practice Tests, Recruiter Specific Mock Tests
- ✍ Exit Assessment: The student will undergo an assessment after the training program.

Seminars and Workshops

Seminars and workshops are organized for the students and faculty members of MCA department. Along with that students are given the opportunity to take seminars on recent developments in the technology.

Value Education Classes

Value education classes are held on every Day 5 order from 10.00 am to 10.30 am. After the annual value education examination, toppers of each class are awarded.

Sports and Games

The college offers sports and games facilities to every student who desires to develop his or her potential abilities and qualities for sportsmanship, team spirit and physique. Facilities for all the major items of games and athletics are provided. All students of the college are expected to take part in sports and games and other physical education activities.

The university will award grace marks to those who distinguish themselves in sports and games. The university will also award a

number of scholarships on the basis of the performances of students in sports and games. The department of physical education conducts intercollegiate competitions like Msgr. Nedumkallel memorial football tournament, Prof. George Paul memorial volley ball tournament etc. every year.

Spiritual Animation Programmes

There is a beautiful chapel in the campus for the spiritual rejuvenation of the youth and the people around, where prayer meetings are held from time to time. On every First Friday and on Special occasions, there is Holy Mass which is to be attended by the Catholic Students. The chapel is open to everyone for prayer and meditation.

Extra Curricular Activities

Catholic Students Movement (CSM)

Catholic Student Movement was started in 1989 in different colleges in Kerala. In 1993 CSM was officially declared by KCBC as the only approved catholic student organization in the catholic colleges of Kerala. All students who are desirous of integral personality development can take membership in this organization. To realize this objective CSM has three dimensional activities, ie., spiritual, intellectual and cultural.

Quiz Club

To develop the intellectual capacity of our students and create a healthy competitive spirit in them the quiz club organizes quiz sessions regularly. The activities of the club will surely promote the competitive skill and the general awareness of the students and will step up the information level of students.

Students Counseling Cell

The cell organizes orientation programmes for students and also provides counseling facility to the needy. Leadership training programmes also are conducted.

Women's Cell

Ours is a college with over 60% female population. To cater to their all-round development and well-being, a Women's Cell is at work which urges to think that each woman has to shine out as a light unto herself and unto the world around her. To empower and equip her with confidence and strength of character, plans and programmes

are chalked out and effectively implemented. The Women's Day conducted annually is a time when the girls of the college shed out their inhibitions and vie with one another to display their talents in extra curricular activities.

Film and Dramatic Club

Cinema is a medium for social criticism and the dissemination of ideas.

Drama, a relatively young theatrical form has also proved itself to be an excellent vehicle for airing stimulating and thought-provoking ideas. The Film and Dramatic club, these two noble aspects to imbibe and inculcate the aesthetic ideas and values to the budding artists of Nirmala help them to 'become great' in this field.

Support Services and Student Amenities

The College Co-operative Store LTD. No. E 290

A co-operative society has been registered for the benefit of the students and staff of the college. Stationery articles, note books, text books etc. are available for sale at the society store. The Computer Science Association operates its funds through this.

Photocopying Centre

Photocopying facility at subsidized rate just enough to support the operational costs is available in the library. The centre provides Xerox services to both staff and students.

Post Office

The Nirmala college post office functions in a building rented and maintained by the college. Registration, M.O., telephone facilities etc. are available at the office.

Canteen & Cool bar

There are two canteens in the college, which serve light refreshments and lunch to students and staff at a subsidized rate. The canteen in the college building is exclusively for ladies.

South Indian Bank Extension Counter

An extension counter of South Indian Bank is functioning in the college building. The counter will be open during all banking hours.



Syllabus

I Semester

Course No.	Subject
MCA101T	Discrete Mathematics and Statistics
MCA102T	Fundamentals of Data Structures
MCA103T	Paradigms of Programming Languages
MCA104T	Digital Systems & Computer Architecture
MCA105T	Problem Solving and Programming in C
MCA106P	C Practicals
MCA107P	Data Structures through C - Practicals
MCA108T	English for Professional Communication

II Semester

Course No.	Subject
MCA201T	Optimization Techniques & Numerical Methods
MCA202T	Operating Systems
MCA203T	Database Management Systems
MCA204T	Data Communications & Networks
MCA205T	Web Technologies
MCA206P	DBMS Practicals
MCA207P	Web Technologies Practicals

III Semester

Course No.	Subject
MCA301T	Principles of Management & Accounting
MCA302T	Analysis & Design of Algorithms
MCA303T	Object Oriented Programming through Java
MCA304T	Software Engineering & Project Management
MCA305T	Object Oriented Analysis & Design
MCA306P	PHP Programming Practicals
MCA307P	OOPS through Java Practicals

IV Semester

Course No.	Subject
MCA401T	System Software
MCA402T	Data Mining
MCA403T	TCP/IP Protocols
MCA404T	Linux OS and Shell programming
MCA405E	Elective- I
MCA406P	Linux OS & Shell programming Practicals
MCA407D	Mini Project-Application Development

V Semester

Course No.	Subject
MCA501T	User Interface Design
MCA502T	Knowledge Management & Business Intelligence
MCA503T	Enterprise Resource Planning
MCA504T	Advanced Java Programming
MCA505E	Elective - II
MCA506P	Advanced Java Programming Practicals
MCA507P	Python Programming - Practicals
MCA508S	Main Seminar – Current Trends

VI Semester

Course No.	Subject
MCA601D	Project
MCA602V	Viva-voce

Elective I – Semester 4

1. Microprocessor and Embedded Systems (E41)
2. Big Data Analytics (E42)
3. Cloud and Grid Computing (E43)
4. Social Network Analysis (E44)
5. Cryptography and Computer Security (E45)
6. Soft Computing (E46)

Elective II – Semester 5

1. Ad-hoc & Sensor Networks (E51)
2. Multimedia Systems (E52)
3. Information Security & E-Commerce (E53)
4. Digital Image Processing (E54)
5. Distributed Computing (E55)
6. Computer Graphics with Open GL (E56)