



NIRMALA COLLEGE
MUVATTUPUZHA AUTONOMOUS

www.nirmalacollege.org

2026 - 2027

MCA PROGRAMME

[Approved by AICTE, New Delhi, and Affiliated to
Mahatma Gandhi University, Kottayam]

Patron	:	Mar George Madathikandathil Bishop of Kothamangalam
Managed by	:	Nirmala College Society Diocese of Kothamangalam
President	:	Rev. Dr. Msgr. Pius Malekandathil
Administrator	:	Rev. Fr. Paul Kalathoor
Director	:	Dr. Thomas K.V
Principal	:	Rev. Dr. Jestin K. Kuriakose

WELCOME TO NIRMALA COLLEGE

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.

Rev. Dr. Jestin K. Kuriakose
Principal

ABOUT THE COLLEGE

Nirmala College, Muvattupuzha, is a first-grade college affiliated to Mahatma Gandhi University, Kottayam. It is a Minority Christian institution governed and managed by the Diocese of Kothamangalam. The college offers 14 UG, 14 PG and 7 Ph.D Programmes. The college is known for its high academic standards and treads on to conquer new heights in the path of academic excellence. Towering a loft 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. 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 has placed us on a high pedestal in the field of education and research.

Now Nirmala is one of the foremost colleges in Kerala with over 3000 students and over 142 faculty members. The College is affiliated to Mahatma Gandhi University, Kottayam and was nationally reaccredited by NAAC with A++ Grade (3.73) in the Fourth cycle.



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 with out character is dangerous; head with out 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 Master of Computer Applications: 2 Year (Regular)	Seats 120
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Vision

Achieving academic excellence for technological advancement of the society.

Mission

To train a future generation of technical experts with integrity of character rooted in Christian ideals.



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 became 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 with 120 seats is of two years duration with two semesters for each year. This programme is approved by AICTE, New Delhi, and is affiliated to M.G. University, Kottayam.

FACULTY PROFILE



Prof. Dr. Thomas K.V
Director
10-04-2023



Ms. Sherry O. Panicker
HOD & Associate Professor, MCA, M.Phil
01-09-2003



Mr. Sherin Mathew G
Joint HOD, Associate Professor,
MCA, M.Tech
01-07-2003



Mr. Raison J. Mathew
Assistant Professor, MCA
01-09-2005



Mr. Biju Peter
Assistant Professor, MCA
11-11-2002



Ms. Siji P. Joy
Assistant Professor, MCA
17-08-2006



Ms. Smitha M
Assistant Professor, MCA
07-05-2007



Ms. Anu J. Marattil
Assistant Professor, MSc.
22-06-2009



Ms. Deepa Liza Alex
Assistant Professor, MCA
24-01-2011



Ms. Deepthi Thomas
Assistant Professor, MCA
05-11-2012



Dr. Sr. Bindu George
Associate Professor, MCA, Ph.D
11-03-2024



Ms. Seethu Kurian
Assistant Professor
01-07-2025



Ms. Rose Maria Roy
Assistant Professor, MCA
01-07-2025



Ms. Aleena Mathew
Assistant Professor, MCA
11-08-2025



Dr. Shini George
Assistant Professor, MCA, Ph.D
01-06-2026



Ms. Shefy Augustine
Assistant Professor, MCA
01-06-2026

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.

- All inmates of the college shall be have always and every where with respect for God and love for the country. They shall pay special attention to good manners, gentlemanly behavior, 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.
- Medium of communication is English and it must be strictly followed in the campus.
- Students shall greet teachers within the college premises, as also when they meet them in public.
- Students shall be punctual and earnest in attending classes and other academic, co-curricular and extra-curricular activities.
- Lingering on the College roads and in the courtyard is to be meticulously avoided.
- The classes start at 9.20 am. The classes are divided in to 2 sessions; forenoon 4 periods and afternoon 3 periods. At the end of both the morning and evening sessions there are two bells.
- 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.
- 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.
- 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 any thing on the college notice-board with out the written sanction of the Principal.
- Students are forbidden from taking active part in political agitation or in any undesirable movement. Decision on the matter rests with the Principal.
- 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.
- For unbecoming activities and serious offences, punishment may range from heavy fines, to suspension from classes, with holding term certificate, and in extreme incorrigible cases to expulsion from the college.
- Each class will be trusted 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.
- No student shall enter or leave a class without the permission of the staff until the class is dismissed.
- No matter for publication in Newspapers, Magazines, Journals or other media may be submitted in the name of the college with out the permission of the Principal.
- Megaphone/Loudspeaker etc. should not be used, and posters, banners or boards should not be put up on the campus without the permission of the Principal.
- Serious action will be taken against students bringing outsiders to the college without prior permission of the Principal.
- 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.
- Use of Mobile Phones are not permitted with in the campus.
- 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.
- 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.
- 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.100/-.

ADMISSION RULES

ELIGIBILITY: MCA 2 YEAR (REGULAR)

A candidate seeking admission to MCA programme must have

1. Candidate should have passed B.C.A/ B.Sc. (Computer Science)/ B.Sc. (IT) / B.E. (CSE)/B.Tech. (CSE) / B.E. (IT)/ B.Tech. (IT) or equivalent Degree from a recognized University.

OR

Candidate should have passed any graduation degree (e.g: B.E/B.Tech./B.Sc/ B.Com./ B.A/ B.Voc. etc..) preferably with Mathematics at 10+2 level or at Graduation level from a recognized University.

OR

Candidates with such degrees awarded by the Mahatma Gandhi University or any other degree programmes recognized as equivalent to the above listed programmes by the Mahatma Gandhi University are also eligible to apply. In such cases candidates should have obtained at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying examination. For graduate under grading system, percentage of marks is calculated by the grade to percentage conversion formula provided from the concerned University.

2. The Syllabus of the bridge course included in the MCA Regular (2 Years) Scheme, Syllabus, Regulation of Affiliated Colleges 2020 onwards supports students without either Mathematics or Computer backgrounds.

Bridge Course framed by the University is a compulsory course for those students having no Mathematics or Computer background.

*Eligibility criteria as per AICTE, Govt. of Kerala and Mahatma Gandhi University, Kottayam



ADMISSION PROCESS

Applications for the MCA Programme are invited only through online mode. Candidates seeking admission should submit online application at

www.nirmalacollege.org 

The eligible candidates should qualify the MCA entrance examination conducted by Govt./LBS. For Govt. seats the admission will be based on the Govt. allotment. For Management seats the admission will be based on the rank list published by the state Govt./LBS.

FEE STRUCTURE

Particulars	Amount (Rs)	Term
Tuition Fee*	50,000/-	Per Year
Skill Development Training	7,500	First Three Semesters
Pre Placement Training & HR Fee	8,000	One Time
University Fees**	5185/-	One Time
Alumni Fund	1000	One Time
PTA	1000	One Time
Caution Deposit (Refundable)	1000	One Time
Association, Recreation & Sports	1500	One Time

*Final approval by ASC

** Fees are subject to change by University/ Government norms, from time to time.



UNIVERSITY FEE SPLIT UP*

*Subject to change by University Norms

Student Safety Insurance / Year	Rs 105/-
Student Welfare Fee / Year	Rs 55/-
University Union Fee / Year	Rs 105/-
Sports Affiliation Fee / Year	Rs 285/-
Annual Administration Fee / Year	Rs 1345/-
Student Affiliation Fee (one time)	Rs 1395/-

- Refund Policy: If the student discontinues the course before the last date of closing of admission, prescribed by the competent authority, certificates and fee remitted will be refunded/returned.
- Online Fee Payment: Fee payment should be made at
<https://instapay.csb.co.in/PatternsConsoleInstance/CSBInstaPay/non-session/euserlogin>
(Path: www.csb.co.in/online services/Instapay/Fees Collection)

RESULTS AND PLACEMENTS

Year	2024	2025	2026
No. of Students	52	35	46

RESULTS

Year	Total Appeared	Total Pass	Total Fail	Pass Percentage
2024	117	108	9	92.3
2025	116	112	4	96.5
2026	120	119	1	99.16

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.
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 with out 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 in to 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

Students should wear uniform on all days except Wednesdays and other days with exemptions.

ATTENDANCE

1. The working day is divided in to two sessions, the fore-noon session of four periods and the after-noon session of three 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 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

- i. Girl students not residing with parents may reside in the college hostel.
- ii. 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.
- iii. There are 3 independent hostels for ladies: Little Flower Hostel, St. Joseph's Hostel and Alphonsa Hostel and one hostel for gents: Jeevajothei Hostel.
- iv. For admission to a hostel, application should be made directly to the warden, after securing admission in the college.
- v. Outstanding sports students are given accommodation in the sports hostel.

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



INTERNAL ASSESSMENT SCHEMES

1. 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.
2. All Sessional work shall be valued and marks awarded on the basis of day-to-day performance, periodic tests and assignments.

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 9.00am to 5.00 pm. 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 every one 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.

EXCURSIONS

1. 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.
2. 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, for bidding ragging in the educational institutions of Kerala are quoted below.

(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 man handling.
 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 1 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 in to the matter with in 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, 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 (ICAN)

The Computer Science Association spear heads 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.

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 show 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.



ALUMNI ASSOCIATION

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

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, Work place English, Professional English, Aptitude Training, Interviews, GD, CV, Creative Thinking, Stress Management, Team Dynamics and Leadership.
- Online Learning Program: Life Skills for the Work place, 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 every week. 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 inter collegiate competitions like Msgr. Nedumkallel memorial football tournament, Prof. George Paul memorial volleyball 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)
- Quiz Club
- Women's Cell
- Film and Dramatic Club

SUPPORT SERVICES AND STUDENT AMENITIES

- PHOTOCOPYING CENTRE
- POST OFFICE
- CANTEEN & COOL BAR
- SOUTH INDIAN BANK ATM



CURRICULUM AND SYLLABUS

Semester 1

MCA CT 101 Mathematical & Statistical Foundations for Computer Applications
MCA CT 102 Digital Logic & Computer Organization
MCA CT 103 Structured programming in C
MCA CT 104 Software Engineering and Object-Oriented Modeling
MCA CT 105 Database Technology and NoSQL
MCA CP 106 Database Technology Lab (My SQL& Mongo dB)
MCA CP 107 Software Development Lab- I (C programming)
MCA CT 108 Employability Skill Training-Phase 1

Semester 2

MCA CT 201 Optimization Techniques for Computer Applications
MCA CT 202 Data structures and Algorithm Analysis
MCA CT 203 Computer Networking with TCP/IP
MCA CT 204 Data Science & Big Data Analysis
MCA CP 205 Object oriented Lab (Java Lab)
MCA CP 206 Python Programming for Data Science
MCA CP 207 Data structures Lab using C

Semester 3

MCA CT 301 Machine Learning Techniques
MCA CT 302 Cyber Forensics
MCA 303 ET Elective-1
MCA 304 ET Elective-2
MCA CP 305 Machine Learning Lab
MCA CP 306 Advanced Operating System Lab using Linux
MCA CP 307 Mini Project
MCA CT 308 Employability Skill Training-Phase 2

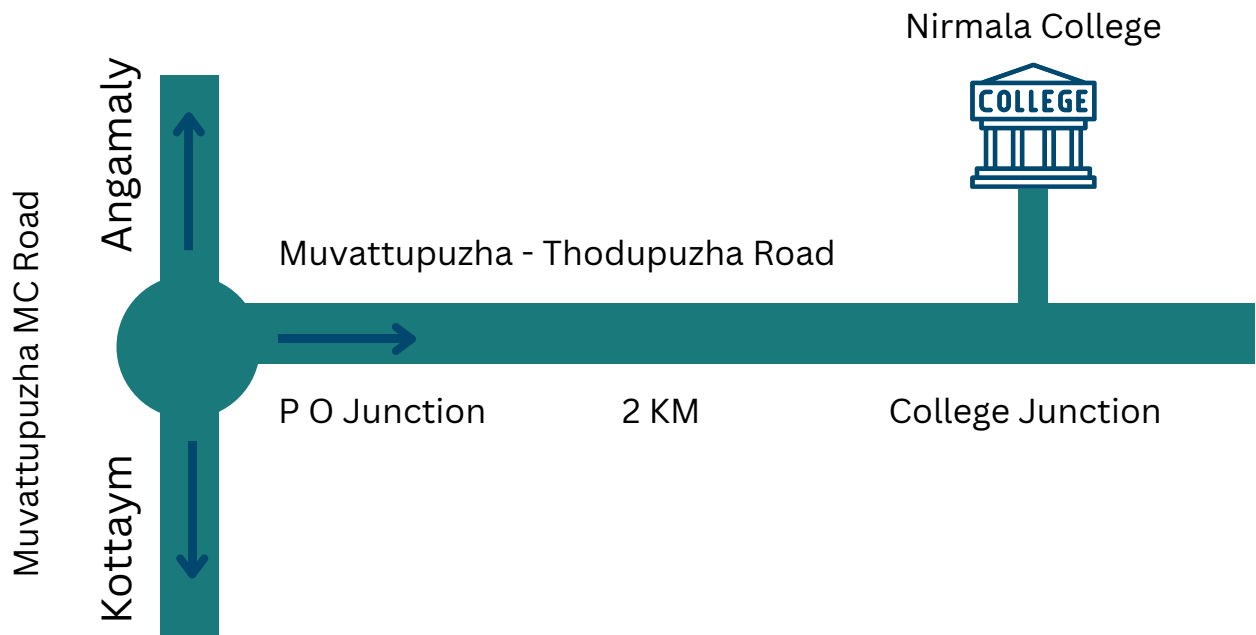
Semester 4

MCA CS 401 Seminar
MCA CP 402 Main Project
MCA CV 403 Course Viva

List of Electives

Elective-1		Elective-2	
MCA 303 ET1	Artificial Intelligence	MCA 304 ET1	Cloud Computing
MCA 303 ET2	Enterprise Resource Planning	MCA304 ET2	Cryptography and Network Security
MCA 303 ET3	Computer Graphics and Multimedia	MCA304 ET3	Business Management and Information System
MCA 303 ET4	Digital Image Processing	MCA304 ET4	Internet of Things (IoT)

ROUTE MAP



MCA PROGRAMME

[Approved by AICTE, New Delhi, and Affiliated to Mahatma Gandhi University, Kottayam]

Muvattupuzha, Ernakulam Dist, Kerala-686661

Phone 8330836363, 9447189675, 8411914675

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Website: www.nirmalacollege.org