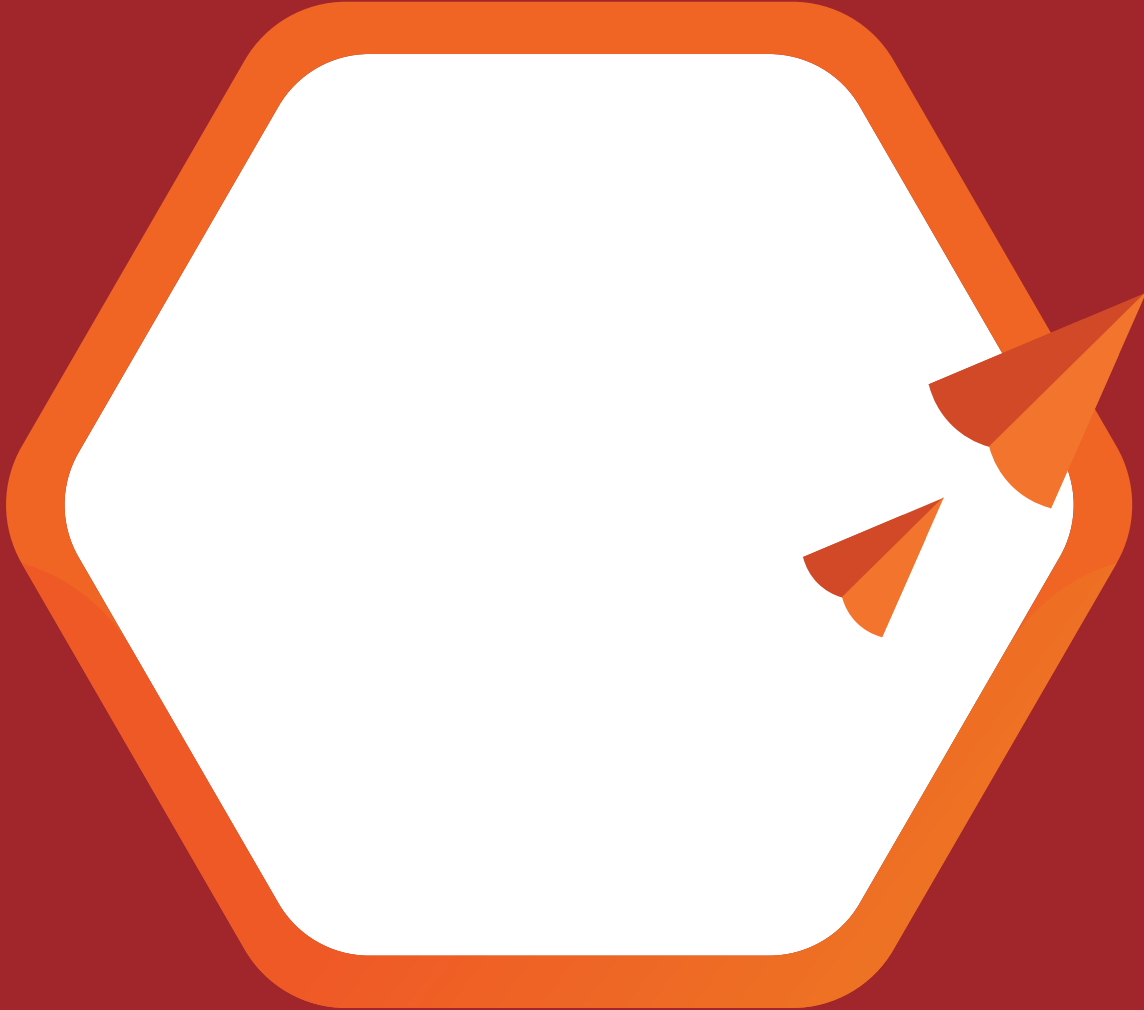


Mar Athanasios College For Advanced Studies Tiruvalla

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MACFAST

Igniting wisdom since 2001



Affiliated to MG University &
Approved by AICTE and UGC 2(f)

MG University
Approved Research Centre

National Cyber Defense
Resource Centre (NCDRC)

NIRF Rankings 2024 :
College (Rank- band: 201-300)

Recognised by DSIR,
Govt. of India

First Fully
Solar Powered
Campus in Kerala

Programs Offered:

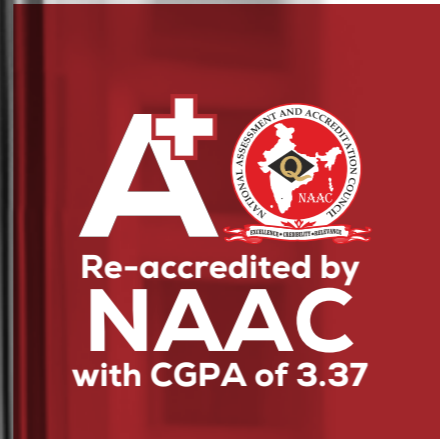
| MBA | MCA | MSW
| M.Sc.

- ▶ Biochemistry ▶ Bioinformatics
- ▶ Biotechnology ▶ Plant Biotechnology
- ▶ Food Technology & Quality Assurance

| Ph.D. ▶ Biosciences ▶ Management Studies

Honours Degree

| B.Com. | BCA | B.Sc.:
Food Technology and Quality Assurance



Mar Athanasios College For Advanced Studies Tiruvalla

Preparing
Future
Leaders

Empowering Students to Overcome Professional Challenges

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LEGACY OF
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Igniting wisdom since 2001



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JOIN THE LEGACY OF EXCELLENCE

Mar Athanasios College For Advanced Studies Tiruvalla (MACFAST) is a premier research institute with both postgraduate and undergraduate programs, established in 2001 with the objective of offering multidisciplinary programs in Business Management, Computer Applications, Biosciences and Social Work to mould eminent professionals over the years to meet the challenging demands of the corporate world and the world of science and technology.





Determined minds joined together to achieve the goal

We step on to success by climbing over the burdens together as a team, and we work harder to achieve our dreams. We are motivated and guided to efficiently and effectively reach our goals with the utmost desire.

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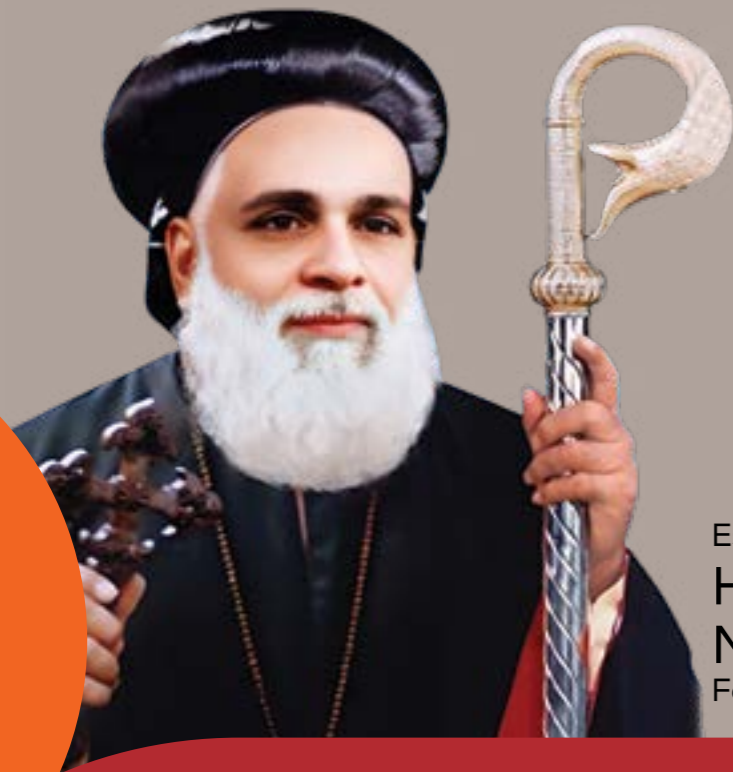
To provide a conducive learning environment that nurtures and develops young people as value-driven, professionally competent, and responsible global citizens.

VISION

To be a global icon in quality education, research, innovation, and entrepreneurship for a sustainable future.

OBJECTIVES

- To create future leaders and innovators by providing an academicecosystem of new ideas and thoughts.
- To provide transformative education to the young minds by imparting the required knowledge and skill sets to face future challenges independently and impartially.
- To strengthen and empower our faculty members and provide an inclusive environment for academic excellence.
- To foster competency to develop scientific temper that addresses global demands.
- To collaborate with higher institution of excellence nurturing andstrengthening all stakeholders.



Established in venerable memory of
**H. G. Zacharias
Mar Athanasios**
Former Metropolitan of the Diocese



PRESIDENT & PATRON
**H. G. Most Rev. Dr. Thomas
Mar Koorilos**
Metropolitan Archbishop of Tiruvalla



Mar Athanasios College For Advanced Studies Tiruvalla

Minority Educational Institution
Owned and managed by
the Corporate Educational Agency of
the Syro-Malankara
Catholic Archdiocese of Tiruvalla.

PATRON'S MESSAGE

As the Patron of this esteemed institution, I am filled with immense pride and gratitude for the unwavering support and encouragement the stakeholders have bestowed upon us. Your dedication to the vision and mission of MACFAST College has been a beacon of inspiration for our students, faculty, and staff.

At MACFAST, we are deeply committed to not only innovative research activities and academic excellence, but also to making a positive impact on society and the environment. Our initiatives in sustainability and community service reflect our dedication to nurturing responsible future leaders who are conscious of their role in creating a better world.

Together, we have created a nurturing environment where knowledge thrives, creativity flourishes, and leaders of tomorrow are moulded. Your belief in our cause propels us forward, helping us achieve new heights of excellence.

Let us continue this remarkable journey, united to excel in our commitment to education and community. With your ongoing support, we will reach even greater milestones and make a lasting impact on society.

Thank you for being an integral part of the MACFAST family. Together, we are making a difference.



Fr. Dr. Cherian J. Kottayil
Director, MACFAST

DIRECTOR'S MESSAGE

MACFAST, igniting wisdom since 2001, aims to build knowledge, not of data but of information and values and also the process of transforming knowledge into wisdom. MACFAST always promotes value-based education; it is the process of instilling competency in experiential learning and teaching approach that works hand in hand with technology, values, and humanity in a sustainable manner. It helps to develop a strong learning and teaching environment that enhances the learning capabilities with academic excellence that equip students with good leadership skills and also improves social responsibility, and relationship skills throughout their life. We ensure the student's all-around development as an intelligent, alert member of society. The teachers always accompany our students as friends, philosophers, and mentors. They motivate students to attain the confidence to explore and build their full potential irrespective of their background. MACFAST always promotes a positive learning environment influenced by its vision and positive values. Our mission and vision lead the students to mould them to be better human beings with knowledge, technology, and social commitments. We equip our students with social sensitivity and responsibility that help them to work with, and relate to others effectively



Prof. Dr. Varghese K. Cheriyan
Principal

PRINCIPAL'S MESSAGE

Welcome to Mar Athanasios College For Advanced Studies Tiruvalla (MACFAST), a premier higher education institution that is dedicated to providing cutting-edge Masters programs in Business Management, Computer Applications, and Bio-Science areas. Our doctoral programs in Management and Bio-Science areas offer students the opportunity to engage in cutting-edge research and collaborate with leading scholars, scientists, and practitioners, allowing them to tailor their studies and meet their individual interests and goals. We offer a wide range of research opportunities and associations with industry partners, giving our scholars hands-on experience and the chance to make meaningful contributions to their fields. Our institution is committed to provide students with the necessary knowledge, skills, and experience to excel in their chosen fields and become leaders in their respective industries.

We understand that the world is changing rapidly, and the demands of the job market are constantly evolving. That's why our Master's programs are designed to be dynamic and flexible, with a focus on innovation and real-world application. We take great pride in our faculty, who are leaders in their respective fields and bring a wealth of knowledge and experience to the classroom. They are dedicated to providing a rigorous and engaging educational experience that challenges our students to think critically and creatively. Our goal is to provide our students with the knowledge and skills they need to succeed in their careers and make a positive impact in the world.

Our Master's programs offer a unique blend of theoretical and practical education, with a strong emphasis on research and critical thinking. We believe that learning extends beyond the classroom, and we encourage our students to engage in research, internships, and other experiential learning opportunities that will help them to develop practical skills and gain real-world experience. We understand that this approach is essential for preparing our students to be successful in today's competitive job market.

At MACFAST, we are committed to providing an inclusive and supportive learning environment. Our students come from diverse backgrounds, and we value the unique perspectives and experiences that they bring to our community. We believe that our diversity is our strength, and we strive to create a welcoming and engaging environment where all students can thrive. Our commitment to academic excellence and student success has earned us high-quality accreditations, including the National Assessment and Accreditation Council (NAAC), which re-accredited our institution in 2022, in the A+ category with a CGPA of 3.37 on a four-point scale.

We are proud of the accomplishments of our graduates, who have gone on to succeed and become leaders in their fields, making significant contributions to academia, industry, and society as a whole. We invite you to explore our programs in Business Management, Computer Applications, Bio-Science and social work areas and discover how we can help you achieve your academic and professional goals. Our institution is dedicated to providing a world-class education that will prepare you for success in your chosen field. Join us and become a part of a community of scholars and researchers who are dedicated to advancing knowledge and making a difference in the world!

GOVERNING BOARD

H. G. Dr. THOMAS MAR KOORILOS,

President & Patron, Archbishop of Tiruvalla.

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Director, Entomology Research Institute Loyola College, Chennai, Former Vice-chancellor, University of Madras, Former Vice-Chancellor, Bharathiar University.

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Director, MACFAST, Chairman- Radio MACFAST

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Principal, MACFAST.

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Station Director, RADIO MACFAST-90.4,
Former Senior Assistant Editor, The Hindu daily.

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HoD, Department of Computer Applications, MACFAST.

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Dr. BEENA CHERIAN, Member

Head, Department of Food Technology, MACFAST.

Rev. Fr. WILSON NIRAKANDATHIL, Member

HoD, Department of Social Work



Affiliation

MACFAST is affiliated to Mahatma Gandhi University, Kottayam, Kerala and recognized by The All India Council for Technical Education (AICTE), New Delhi

PROGRAMS OFFERED :

| MBA | MCA | MSW

| M.Sc.

- ▶ Biochemistry ▶ Bioinformatics
- ▶ Biotechnology ▶ Plant Biotechnology
- ▶ Food Technology & Quality Assurance

| Ph.D. ▶ Biosciences ▶ Management Studies

Honours Degree

| B.Com | BCA | B.Sc

Food Technology & Quality Assurance



Green WiFi
Campus

DSIR
Recognized



ISO 9001:2015
Certified
Institution

9001:2015

UN- Academic Impact
Award Winner



"The first self-financing college in India to become a member of the United Nations Academic Impact (UNAI)"

Reflecting a True Global Perspective in Education

Mar Athanasios College For Advanced Studies Tiruvalla (MACFAST) is a premier academic and research institution, established in 2001 with the objective of moulding eminent professionals over the years to confront the challenging demands of the corporate world and the world of science & technology. MACFAST is affiliated to Mahatma Gandhi University, Kottayam and approved by the All India Council for Technical Education (AICTE), New Delhi. MACFAST is also recognized under section 2(f) of the UGC Act, 1956. The college is owned and managed by the Corporate Educational Agency of the Catholic Archdiocese of Tiruvalla, founded by His Grace Dr. Geevarghese Mar Timotheos, (Former Metropolitan Arch Bishop of the Malankara Catholic Archdiocese of Tiruvalla). The present Metropolitan Arch Bishop of the Malankara Catholic Archdiocese of Tiruvalla, His Grace Dr. Thomas Mar Koorilos is the patron of the college. As visualized by its founders, the college has grown steadily over the years with ten postgraduate courses in Management, Computer

Science, Biosciences and Social Work and positioned its identity as a multidisciplinary institution in the higher education sector of the state. The administration of the college is carried out under the supervision of the Principal, Dr. Varghese K Cheriyan. The Governing Board and Academic Council of MACFAST is constituted as per the AICTE norms with eminent personalities. Presently, the Chairman of the Academic Council is Rev. Dr. Ignacimuthu S. J. (Director, Entomology Research Center, Loyola College Chennai, Former Vice Chancellor of Madras University and Bharatiyar University, Former Principal, Loyola College, Chennai).

Own Radio Station



Fully Solar
Powered
Campus

150+
University
Ranks

Alumni
Across the
Globe



**Ignite,
Innovate,
Excel!**

The MACFAST Approach



MACFAST believes that the primary objective of education is not only to impart knowledge but also to facilitate the human empowerment of all individuals with a desire for self-development. Our world is highly interconnected with boundless information. This has given a different perspective on the way we look at education. MACFAST has developed a multidisciplinary approach to education supported by a high-tech IT infrastructure. We understand that successful people are recognized by the quality of their life. MACFAST is a student-initiated campus that aims at tapping the unutilized potential of students and transforming them into ethical and competent professionals. All these efforts contribute towards the bigger goal of creating a Knowledge Society beneficial for the world at large.



MACFAST CAMPUS

The college has two adjacent campuses with multi-storied buildings. The main campus hosts the MBA and MCA programs and the Bio campus hosts the M.Sc. Biosciences programmes. The campus accommodates a total built-up area of 3,00,000 sq. ft, classrooms, seminar halls, laboratories, hostels, library, computer labs, and areas for recreation and entertainment.

Infrastructure & Learning Resources

The Main campus hosts post graduate programs of MBA, MCA and MSW, doctoral program in Management Studies and all the Under Graduate programs. The Bio Campus hosts all the post graduate programs and the doctoral program in biosciences. The policy of the Institution is to provide state-of-the-art infrastructure. To facilitate effective teaching and learning, timely upgrading of the technology-aided resources and modernization of laboratories, classrooms, hostel facilities and the facilities for extra-curricular activities are implemented.



MACFAST Computer Labs

The college has three fully air-conditioned computer labs which can accommodate a total of 180 students at a time. These labs are equipped with 180 high-end computers powered with Intel Core i5 processors and 8GB RAM. Computer labs, Server room and rack room are managed and operated by efficient administrators. The entire computers are protected with an advanced firewall system to ensure safe and uninterrupted services. New versions of 70" touch screen 'Senses Interactive Boards' are installed in the labs for revolutionizing the learning experience of the students. The facilities of computer labs are utilized by faculty members and students from all the departments. The computer labs are also used for research purposes, recruitment drives and to conduct online examinations of various testing agencies. Along with the main computer lab, an additional lab is also maintained with a capacity of 20 systems, which is demarcated as the Bioinformatics lab.

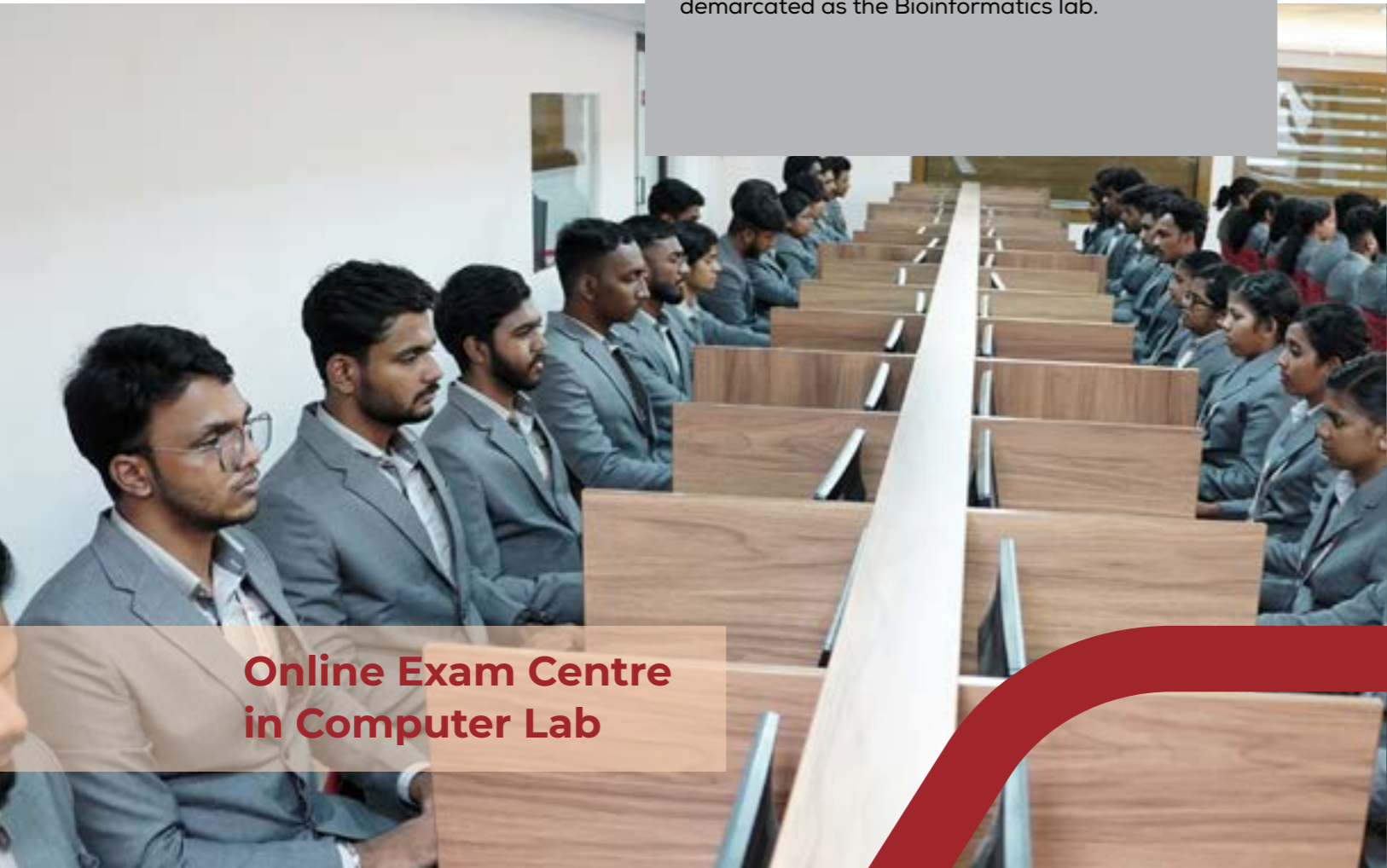
Library & Learning Resources

MACFAST Library and Information Centre (MLIC) consists of the main library and various department libraries of the college. The library has a collection of more than 39500 books, 21,893 e-journals, 2,00,000 e-books, databases (EBSCO, ProQuest, DELNET, J-Gate Management), 10368 reference books, 47 periodicals, 3670 bound volumes of journals, 1121 CDROMs, more than 2500 students' project reports, previous year question papers, newspaper clipping files from the year 2001, pamphlets and brochures of various institutions, cartographic materials etc. Ample space has been provided for reference, reading and discussions.

Digital Library

MACFAST Library has a digital repository system, D-Space and a digital library, a separate place for research scholars and ample reading space to provide a good ambiance for study and learning. Our digital library enables students to explore the field of Information Technology, Management, Biosciences and Social Work. Students have access to a wide range of well-organized information in digital forms enabling them to search, retrieve and process in a user-friendly manner.

Online Exam Centre
in Computer Lab



A black and white photograph of a man with a beard, wearing a white shirt, sitting on a library shelf. He is looking at a laptop computer. The background shows rows of bookshelves filled with books.

E-resources / e- books Archive

E-books Archive: Books relating to Computer Sciences, Management, Biosciences and other general books are housed in the electronic format for easy reference. The library is also well equipped with electronic resources and databases like EBSCO, ProQuest and e-book collections, etc.

Study Archive

The faculty members can upload study materials in the form of notes, PPTs, abstracts etc. in the study archive. The students are using the study archive as part of their learning exercise. Participation in Resource sharing networks / consortia like the Information and Library Network (INFLIBNET) Centre, an Autonomous Inter-University Centre (IUC) of the University Grants Commission.

Library is part of a resource sharing network. The college Library is a members of DELNET (Developing Library Network), which promotes which promotes resource sharing among libraries through the development of library networks.

Research Forum

The Research forum of the college aims at bringing together the faculty members, research scholars and students to promote research and innovations. Periodic meetings of faculty members, research scholars and students are conducted to encourage discussions and deliberations on research areas of specific interests. A culture of research and a quest for further knowledge is fostered through these interactions.

Herbal Garden

The Herbal Garden maintained by the college serves the purpose of education, research and conservation of germplasm of medicinal and aromatic plants, wide varieties of endangered species, dye-bearing plants and other species of ecological or economic interests. By maintaining the Herbal Garden, the College helps the young generation to learn the fascinating world of herbal plants. At present more than 500 indigenous medicinal plants, including rare and endangered species are maintained in the garden. The herbal garden of the college is funded

by National Medicinal Plant Board. The garden is maintained by the Institute with sustainable garden management. Student interns help in the maintenance of herbal garden and that creates an opportunity for experimental learning on weeding, planting, supplying nutrition, creating garden beds and maintaining plants. Weekly allocation of green hour in the curriculum also helps the students to enhance the activities related to herbal garden.

Bioscience Labs

The college has five full-fledged laboratories for the programs of Biosciences such as Plant Biotechnology, Molecular Biology, Food Processing, Biochemistry and Microbiology. The college has also installed a high-throughput Computational Biology laboratory. These laboratories have state-of-the-art equipments like the thermal cycler for PCR, electrophoretic units, UV and white trans-illuminators, rotary evaporator, -20°C freezer, electronic balances, shakers, laminar air flow hoods, fruit pulping machine,

mixing tank, blanching chamber, vacuumetric liquid filling machine, crown corking machine, two-stage pulveriser, fermenter, BOD incubator, incubator and shaking incubator, autoclave, high speed cooling centrifuge, UV spectrophotometer, Leica binocular LED Microscope etc.



Auditorium & Conference Hall

The college has a well-furnished and fully air-conditioned auditorium with a seating capacity of 400. It is equipped with LCD projectors, high-quality audio system, internet connectivity, etc., which makes it the most suitable venue for conducting cultural activities, international/national seminars and webinars, meetings and other gatherings. The college also has conference halls, seminar halls, board rooms and a lobby to facilitate group interactions, conferences, yoga, communication classes etc., within the campus.



Mother Theresa Chapel & Meditation Hall

The chapel named after St. Mother Theresa is located in the campus. Holy Mass is scheduled every day for the residents of MACFAST. A Meditation Hall adjacent to the chapel is for the use of all MACFASTians.

Internet & Wi-Fi Facilities

Wi-Fi enabled high-speed internet connectivity is available on the campus including both hostels. To ensure uninterrupted supply, the campus is equipped with dedicated 200 Mbps lease line connectivity at every node and facilitated through more than 50 Wi-Fi access points and LAN connections.

Hostels

The college provides hostel facilities for students with sufficient infrastructure. The ladies' hostels are in the main campus and the men's hostel is adjacent to the main campus within a distance of 200 meters. Hostels have 24 x 7 high-speed green Wi-Fi facilities, study halls, and separate mess halls for students and staff. Hostels are also equipped with Gym facilities with advanced workout equipment to maintain fitness and good health.

St. Thomas Hostel for Men

A seven-storied hostel is built on the southwest zone of the college campus for men. This hostel is facilitated with a single room, double room, dormitory accommodation and Study Hall.

St. Alphonsa Ladies' Hostel

The old block of the hostel provides the facilities of double rooms, dormitory and a study hall. The new block is a six-storied building with the facilities of single rooms, shared rooms and a study hall.

Recreational facilities with audio-video equipment

All the hostels are connected to view audiovisual recreational programs.



Food court

The college has a separate cafeteria owned and managed by MACFAST PTA. The canteen caters quality food and beverages at reasonable rates to the students, staff and visitors of the college. The cafeteria also facilitates a snack bar, coffee vending machine, cool bar, and stationery.

Safe drinking water

An uninterrupted supply of safe drinking water connections is set up in the main campus as well as in the hostels and guest rooms.

Security

The entire campus and hostels are protected by a round-the-clock security system (Physical security as well as a CCTV surveillance system).



Entrepreneurship Development Club (EDC)

EDC focuses more on the creation of an entrepreneurship culture among students and provides the required support, training and guidance for becoming future entrepreneur.

National Service Scheme (NSS)

We have two active independent NSS units with a program officer-in-charge for each unit. The NSS unit of MACFAST has received appreciation from Mahatma Gandhi University, Kottayam for best unit and best program officer for the last two consecutive years. NSS MACFAST has adopted five villages: Aruvappulam, Ayiroor, Ezhumattoor, Cherukol & Kavumbhagam. The units undertake various socially relevant projects (Snehaveedu, Digital literacy classes, school adoption, etc.) and activities.

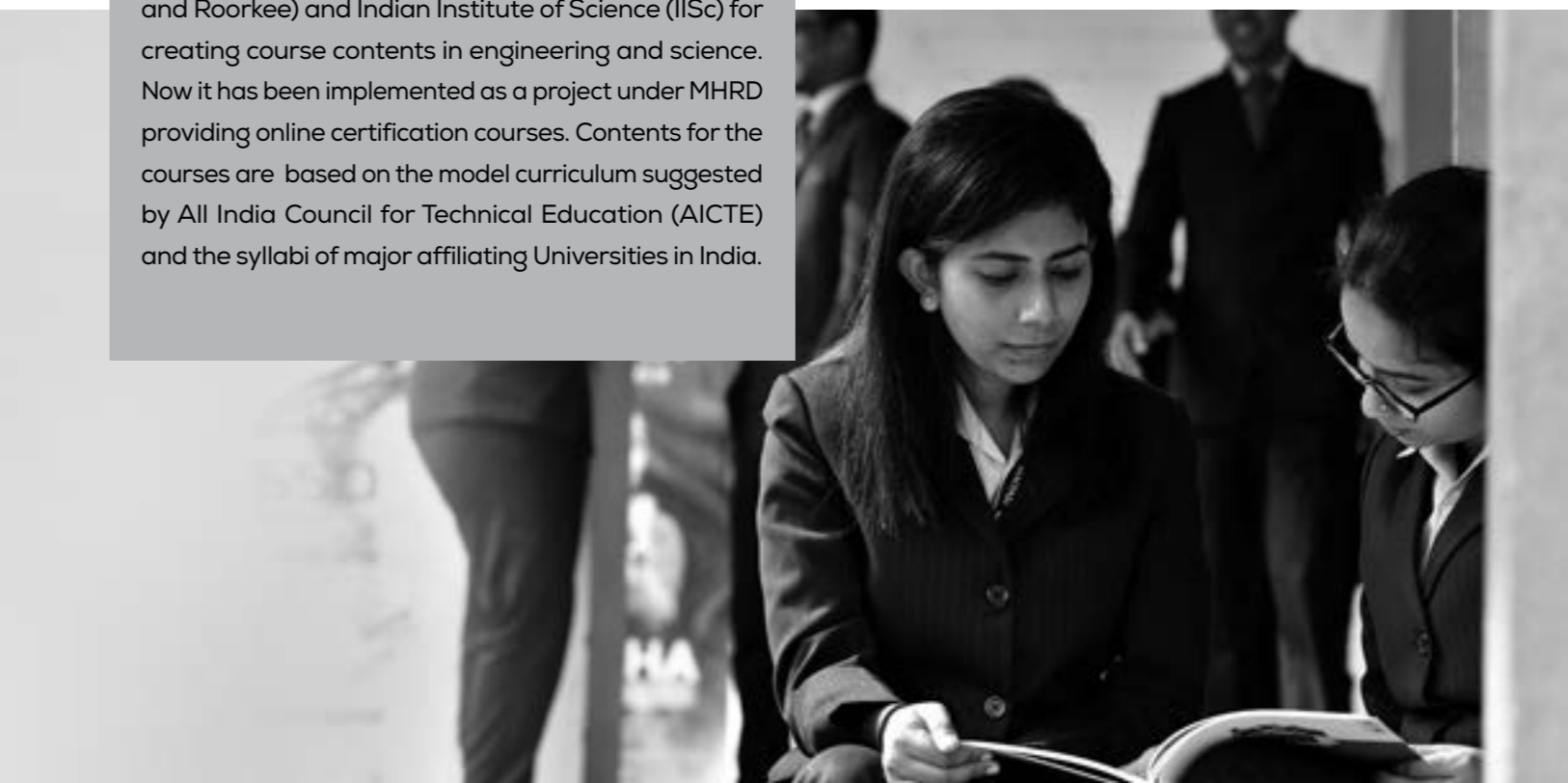
NPTEL

The college provides a local chapter of the National Program on Technology Enhanced Learning which is provided by seven Indian Institutes of Technology (IIT Bombay, Delhi, Guwahati, Kanpur, Kharagpur, Madras and Roorkee) and Indian Institute of Science (IISc) for creating course contents in engineering and science. Now it has been implemented as a project under MHRD providing online certification courses. Contents for the courses are based on the model curriculum suggested by All India Council for Technical Education (AICTE) and the syllabi of major affiliating Universities in India.



UN Academic Impact Chapter

A local chapter of UNAI is functioning in the college and has won UNAI Award for "Vanitha Retna": Among the 10 international projects recognized for Diversity Contest, organized by the United Nations Academic Impact (UNAI). Cosponsored by the UNHATE Foundation, Italy for helping indigenous teenage girls to access professional education, and uplift them to the mainstream, the College received a grant worth €20,000 for the implementation of the project - "Tribal Community based Women Empowerment" in June 2015.





RADIO MACFAST 90.4

Radio MACFAST 90.4 FM, a community radio of MACFAST and a social service arm, launched on November 2009, is the second On-Campus Community Radio in the State and 46th in India. We believe that the emergence of a knowledge society is possible through focused work at the grass-root level and realizes that the transfer of knowledge happens in both directions CAMPUS RADIO - from the urban society to the rural one and vice versa. Radio MACFAST Promotes this Knowledge through various programs.



Campus Radio

Radio Macfast 90.4 envisages an extensive presence in the Central Travancore Region of Kerala (Pathanamthitta, Alappuzha, Kollam, Idukki and Kottayam districts) and acts as a catalyst by bridging the knowledge divide in people, with more than five lakh listeners from different parts of these five districts. At present Radio MACFAST 90.4 has become a trendsetter in community radio segment through its wide range of diverse and interesting programs airing 16 hours a day. It occupies a key position in the hearts of the people, closely serving the community by reflecting vital issues and focusing specifically on their needs.

True to its punch line - "Nattukarku Koottai" (Community's Companion), it act as " a partner friend in all the endeavors of the local populace." Its founding philosophy is to give a voice to the voiceless and act as a centre for religious, social, cultural and national integration.

As a part of the Industry Interface Initiative, students of MBA participates in the programs.. They conduct customer awareness survey on a half-yearly basis, prepare reports and actively participate in programme production and marketing of the radio.

Ongoing Projects of Radio MACFAST



Department of Management Studies



MACFAST MBA Master of Business Administration

Curricular Aspects

MBA is a 2-year, (4-semester) , post- graduate program affiliated to Mahatma Gandhi University, Kottayam, Kerala, and approved by AICTE, New Delhi . MBA program at MACFAST offers seats for 120 students. This programme is designed with the objective of moulding and transforming young graduate students into competent, responsible, professional managers. We are offering specializations in the field of Finance, Marketing, Human Resources, Information Systems and Operations Management. While the theoretical foundation is structured around the M. G University prescribed syllabus, a number of additions and innovations are provided to prepare the graduates to

cope with organizational and societal requirements for the future. This meticulous and career-oriented program integrates challenging workloads with an intensive and rigorous curriculum, which goes beyond the classroom to include co-curricular and extra-curricular activities. The programs at MACFAST are designed with the right mix of practical business knowledge, industrial skills and attitudes. The learning process at MACFAST facilitate the acquisition of competencies and outlook in international business with a focus on developing responsible future managers for leading firms in the global arena.



Teaching That Transforms

To develop young MBA aspirants into professional managers who can contribute to the growth of business, industry and society.

Program Objectives

- 1) To develop young MBA aspirants into professional managers who can contribute to the growth of business, industry and society.
- 2) To develop astute leaders who can efficiently and effectively manage business amidst turbulent environments.
- 3) To nurture entrepreneurial skills among the young generation and make them effective change agents
- 4) To contribute towards better management practices in the country and the world by offering quality management education.

MBA Scheme & Syllabus

The MBA program offers of 26 subject courses, Summer Internship and a Problem Centered Research Work. There are 4 viva voce for MBA program, one in each semester. All theory courses carries 100 marks each, out of which 40 marks for continual evaluation and 60 marks for comprehensive evaluation by University. The first and second semesters have 750 and 850 marks respectively. The third and fourth semesters have 750 and 650 marks and the total marks for the MBA Program is 3000.

List of Courses

First Semester

1. Management Concepts & Organizational Behaviour
2. Business Communication
3. Managerial Economics
4. Accounting for Management
5. Quantitative Techniques
6. Legal Environment of Business
7. Environment Management
8. Course Viva I

Second Semester

1. Financial Management
2. Marketing Management
3. Human Resources Management
4. Operations Management
5. Management Science
6. Management Information Systems & Cyber Security
7. Business Research Methods
8. Entrepreneurship Development
9. Course Viva II

Third Semester

1. Big Data & Business Analytics
2. Business Ethics & Corporate Governance
3. Elective Course 1
4. Elective Course 2
5. Elective Course 3
6. Elective Course 4
7. Course Viva III
8. Summer Internship

Fourth Semester

1. Strategic Management
2. Elective Course 5
3. Elective Course 6
4. Elective Course 7
5. Elective Course 8
6. Course Viva IV
7. Problem Centered Research Project

Elective Courses

Elective courses are offered to students in functional areas like Finance, Marketing, Human Resource Management, Operations Management, and Information Systems. The electives offered shall be on the basis of preference and aptitude of students, availability of faculty members and required infrastructure and facilities in the college.

Eligibility Criteria

A pass in any Bachelor's Degree Examination of Mahatma Gandhi University or an equivalent degree of any other Universities duly recognized by Mahatma Gandhi University with not less than 50% marks in the aggregate for all parts of examination or a Master's Degree examination with 50% marks in aggregate. Under grading system, C Grade of Mahatma Gandhi University or equivalent thereto from other recognized Universities with not less than 50% marks in aggregate is required to become eligible for admission.

For SC/ST students, a pass in any Bachelor's Degree examination is needed. Reservation rules are applicable as per Government of Kerala norms for eligibility and admission.

Valid CMAT/KMAT/CAT Score is also requires

Admission Procedure

The admissions to the MBA full-time program is strictly on the basis of merit as determined by the entrance examinations KMAT Kerala / CMAT/ CAT, and Group Discussion and Personal Interview conducted at the institution level. The college follows the guidelines and time schedule provided by Mahatma Gandhi University and Admissions Supervisory Committee (ASC) appointed by Govt. of Kerala.

For more details, contact +91 94009 84111

Admissions - Components of Rank List

Based on the score in the entrance test, candidates are short-listed for Group Discussion and Personal Interview. The weightage for Entrance Examination is 80%, Group Discussion is 10% and Personal Interview is 10%. While preparing the rank list, if there is same index marks for more than one candidate, he/she will be ranked on the basis of actual marks obtained in the qualifying exam. Even after this, if there is a tie, they will be ranked on the basis of date of birth; i.e. the elder person is to be ranked higher. Based on the performance in the written test, group discussion and interview, the merit list will be prepared and published by the college.

The Reservation Rules are applicable as per the Government norms.

BEYOND THE SYLLABUS

Way to Business World (WBW)

Way to Business World (WBW) presentation is a cornerstone activity introduced during the Pre-Semester Assignment. Designed for students with diverse backgrounds, it serves as an introduction into the world of professional presentations. Beyond mere content delivery, the WBW presentation equips students with a robust skillset fundamental for success in the professional sphere. This comprehensive program fosters the development of confident communication, enabling them to deliver clear and engaging presentations. Students will gain mastery in crafting impactful presentations through the art of "Formal Presentations". Additionally, the program cultivates "Public Speaking Prowess," empowering them to overcome stage fright and refine their public speaking abilities. Furthermore, students will develop a confident and professional demeanor, solidifying their "Professional Presence." The WBW activity instills "Time Management Mastery," ensuring efficient preparation and the delivery of polished presentations.

Management Forum

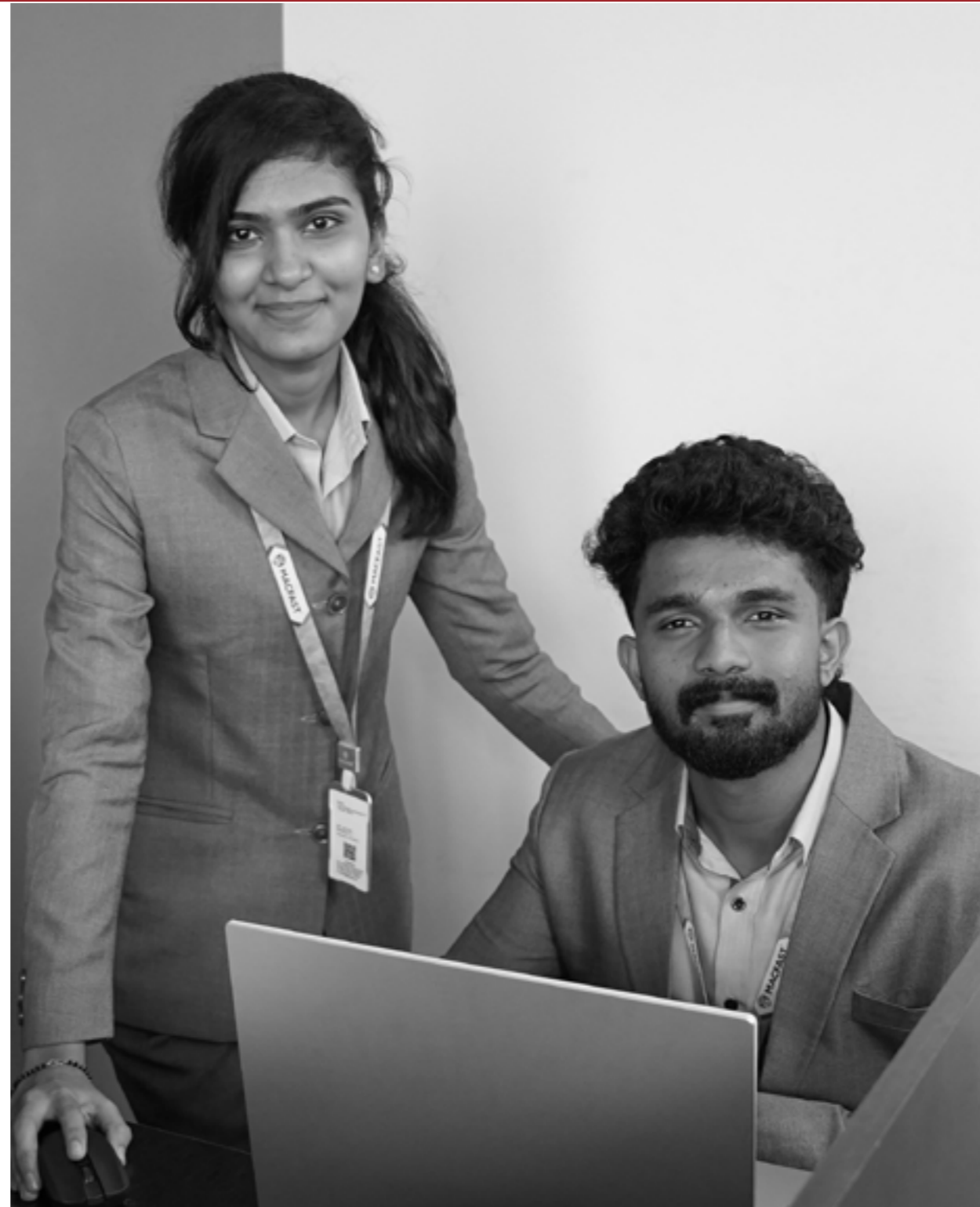
The Management Forum is a professional gathering designed to facilitate knowledge sharing, networking, and professional development among management students of MACFAST. The forum aims to create an environment where students can exchange ideas, experiences, and best practices, ultimately enhancing their leadership abilities and moulding them to be successful future managers.

Home Coming (Alumni Interaction) webinar series

Home coming series, in which one of the Alumni will be addressing MBA students in each webinar session wherein, he/she will be sharing his/her expertise at the workplace and also about how MACFAST has contributed to his/her career ambitions.

Orientation programs

Orientation program is given at the beginning of MBA program prior to commencement of classes to offer a range of perspectives on life at MACFAST mainly focusing on introducing new students to the college and acclimatizing students to their new surroundings.



Outbound Experiential Learning (OEL)

Outbound Experiential Learning (OEL) is an outdoor management development program. The activities are designed to improve leadership, communication, planning, change management, delegation, teamwork, and motivation. Participants are divided into teams and assigned tasks or activities for completion in a specified time.

Youth Empowerment and Skills Plus (Yes Plus)

Youth Empowerment and Skills Plus (Yes Plus) is a life skills program specially designed by Sri Sri Ravi Shankar (the founder of The Art of Living Foundation) and offered to those between 18-30 years. It is a blend of interactive intense group processes, talks, presentations, physical exercises, yoga, meditation, profound breathing exercises, practical knowledge tips, music, dance and fun based learning oriented games.

MACFAST Innovation and Corporate Synergy (MICS)

MACFAST Innovation and Corporate Synergy (MICS) is a brainchild of MACFAST, which helps the future aspirants in unleashing their talents and bridging the gap between corporate and campus. MACFAST innovation and corporate synergy assist the students in meeting up the corporate expectation and reaching their career goals. MACFAST innovation and corporate synergy facilitates the career progression in five major roles. They are Mentorship program – Alumni Interaction, Industry Interaction – Industry experts /Visiting faculty Interaction, Industrial Visits, Internships and Campus to corporate connect.

Add-on Courses

Add on Courses are provided to students on different domains such as Contemporary Marketing Practice, Lean Manufacturing, Management Information Systems Case Studies, Advanced Corporate Finance: Working Capital Management and Effective Workplace Communication

Industry Visits (IV)

Industry Visits (IV) sensitize students to the practical challenges that organizations face in the business world. It also gives greater clarity about various management concepts for students as they can practically see how these concepts are put into action.

Placement Training

Aptitude test being the first stage of selection process for any company, students should be sharp in their mental ability, logical reasoning etc. Class hours are allotted in the timetable for aptitude training and online test taking. Technical Aptitude Test and English Aptitude Test are conducted every month for the students. These tests are marked in order to track the improvements they make in the courses of their studies.

As part of placement training, the placement cell focus upon developing students with positive attitude and right decision making through programs such as personality assessment test, communication skill and vocabulary classes, resume writing and email writing sessions, group discussion, interview skill enhancement, mock interviews, aptitude training and practice tests.

Communication Skill Development Council (CSDC)

Language and communication skill classes emphasize on learning to comprehend, write and communicate in English. Learning from experts in this field enable the students to make them more confident in expressing themselves effectively.

Personality development classes

Personality development classes are to build up pleasing and confident personality which is one of the hallmarks of a successful individual since manner in which one presents and conducts oneself is of importance in the professional world.

The students and faculty members take up certifications in NPTEL courses related to management, which is a joint initiative of the IITs and IISc.



Seminars and Workshops

Seminar on contemporary issues is a platform for MBA students to do presentations in the college auditorium in front of the audience on topics of social relevance. Articles from top journals such as Harvard Business Review and books on management are reviewed by students.

The department regularly organizes seminars, workshops, invited talks, and training programs.

Conducted an all-Kerala Market Study of packaged drinking water industry for a new company planning to launch its brand in the State.

Students organize business quizzes on a regular basis that equips them to win prizes in state-level and national-level competitions organized by other institutions and agencies. Tutorials and remedial classes are given to students who find it hard to go through different subjects.

Quality Enhancement Program (QEP)

Quality Enhancement Program (QEP) is a voluntary initiative from the part of students and faculty members who are willing to go the extra mile in terms of academics and professionalism. The program caters to the needs of MBA students who want to excel in their selected area of career. The students will sit along with teachers in small groups after regular class time for mentoring and skill enhancement.

MACFIESTA

MACFIESTA, the National Level inter-College Fest organized by the MACFAST is a perfect platform – an assortment of speeches by luminaries, engaging performances from the big wigs of entertainment industry, multitude of business games, quizzes and cultural events that can adequately provide opportunities for showcasing the talents of participants.

Students got exposure to various National and International level conferences and presented papers. Participation and Achievements of the students in various events of National level Management fests conducted by different colleges helped them to build leadership and improve the overall development of their personality

HIGHLIGHTS

Student Initiated Campus

Pool of IIM Trained & Accredited Faculty of Management

Special Placement & Aptitude Training

Excellent placement support through a separate Corporate Relations Department

Alumni Interactions

Department of Communication

Green Wi-Fi campus

Continuous Unique Program for Personality Development

Earn While You Learn program – Radio MACFAST 90.4 & Other project participations

MICS- MACFAST Innovation and Corporate Synergy

OEL- Outbound Experiential Learning

Add on Courses on various domains

Organizing various National Level events like 'MACFIESTA', Short Film Competition etc.

Exposure to International Conferences and workshops

Entrepreneurship Development Club

Unique CSR Initiatives like War Against Drugs, Clean & Green Campus, MAKS, NSS, Rays of Love etc.

Faculty Details

No.	Name and Designation	Qualification	Area of specialization/ Research Interest	Experience
1	Dr. Jeemon Joseph Director & Associate Professor	D.Lett. PhD in Management MBA (HR and Marketing) M Sc. (Operations Research and Mathematics) M.A. Economics, M.A Sociology, M. Com.	Business Education, Human Resource Management, Motivation, Operations Research	Academic -21 years
2	Dr. Sudeep B. Chandramana HOD & Associate Professor	PhD in Management M Phil (Management) MBA (Marketing and Operations) B. Tech (Mech), D.E.M.	Strategy, Marketing Management	Academics - 18 years Corporate - 10 years
3	Dr. V.P. Vijayamohan Associate Professor	PhD in Economics MPhil (Economics) MA (Economics) MBA (Finance) Fellow IAAP, UK	Banking and Rural Development	Academics - 33 years
4	Dr. Ashalakshmi R.K. Associate Professor	PhD in Management MBA (Finance and HR), B.Com	Organizational culture, Financial management, Financial Accounting and services, Banking Research	Academics - 16 years Corporate - 1.5 years
5	Dr. Neethu Ann Georgie Associate Professor	Ph.D in Management ,MBA (Operations and Marketing) B Tech (ECE)	Consumer Buying Behaviour, Operations Management, Supply Chain Management	Academics - 12 years Corporate - 1 year
6	B Pramod Kumar Associate Professor	MBA, UGC NET, Pursuing Ph.D in Management Studies	Marketing, Consumer Behaviour	Academics - 21 years Corporate- 4 years
7	Dr. Ligo Koshy Assistant Professor	Ph.D in Management UGC NET MBA (HR and Marketing) B Tech. (Information Technology)	Advertising Research, Organisational Behaviour, Human Resource Management	Academics - 16 years Corporate- 2 years
8	Arun Prem Assistant Professor	PGDM (Association of Indian Universities) MBA (Marketing and Information Technology) B Sc Computer Science Pursuing Ph D	E commerce, Digital Marketing, Online Consumer Behaviour, Big Data Analytics	Academics - 12 years Corporate - 6 years
9	Jibumon K.G. Assistant Professor	MBA, UGC NET M Com (Finance), B.Com (Co-operation)	Financial and Management Accounting, Capital Marketing (Derivatives) Tax Planning Strategic Financial Management	Academics - 12 years Corporate - 3 years
10	Jinu Mary Varghese Assistant Professor	MBA (Operations and Finance), B.Sc Mathematics	Operations Research, Operations Management	Academics - 6 years Administration- 4 years
11	Jaisa Mona chen Assistant Professor (On-Contract)	MBA (Finance & HR), B.Com	Human Resource Management	Academics - 1 Year Administration- 2 years
12	Karthika M Assistant Professor	MBA, HR+ Marketing, M.Phil in Management, BA-Communication English, Pursuing Ph.D	Business Research, Training and Development, Communication & Skill Development	6 years

13	Vishnu P. V Assistant Professor	M.Com- International Business operation B.Com- Cooperation SET- Commerce	Financial Accounting, Business Law, Management Accounting, Financial Management	4 years
14	Elja Eldho Assistant Professor	MBA- Finance & HR BBA	Human Resource Management	Corporate- 5 Months Academics- 2 Year

Rank Holders

Sl.No:	Name of Rank Holder	Year	Rank Position
1.	Arya Ajith	2022-24	1st Rank
2.	Aruna Anil	2022-24	2nd Rank
3.	Radhika G	2022-24	3rd Rank
4.	Santhy Mariam Kurian	2021-23	1st Rank
5.	Riya Elizabeth Jacob	2021-23	3rd Rank
6.	Surya S Nair	2020-22	1st Rank
7.	Aleena Babu	2020-22	2nd Rank
8.	Elja Eldho	2020-22	3rd Rank
9.	Sumi Sam Abraham	2019-21	1st Rank
10.	Anju John	2019-21	1st Rank
11.	Jamuna John	2019-21	2nd Rank
12.	Sherin Mariam Philip	2018-20	1st Rank
13.	Anjali B Joseph	2017-19	2nd Rank
14.	Arya M M	2017-19	3rd Rank
15.	Afra Azad	2016-18	1st Rank
16.	Ridson P Davis	2016-18	2nd Rank
17.	Josmy Jose	2016-18	3rd Rank
18.	Josny Jose	2016-18	3rd Rank
19.	Anish Abraham	2015-17	2nd Rank
20.	Sareena Rahim	2014-16	3rd Rank
21.	Nikhila Aby	2013-15	2nd Rank
22.	Anupama SR	2008-10	3rd Rank
23.	Divya Susan Mathew	2008-10	2nd Rank
24.	Aleesha Mohammed	2008-10	1st Rank
25.	Indu Krishna	2007-09	1st Rank
26.	DilipK oshy	2006-08	2nd Rank
27.	Mridula James	2006-08	1st Rank
28.	Reshma Nair	2005-07	1st Rank
29.	Sindhu Samuel	2004-06	3rd Rank
30.	Vimal C Chandran	2003-05	1st Rank
31.	Renji Zachariah	2002-04	3rd Rank

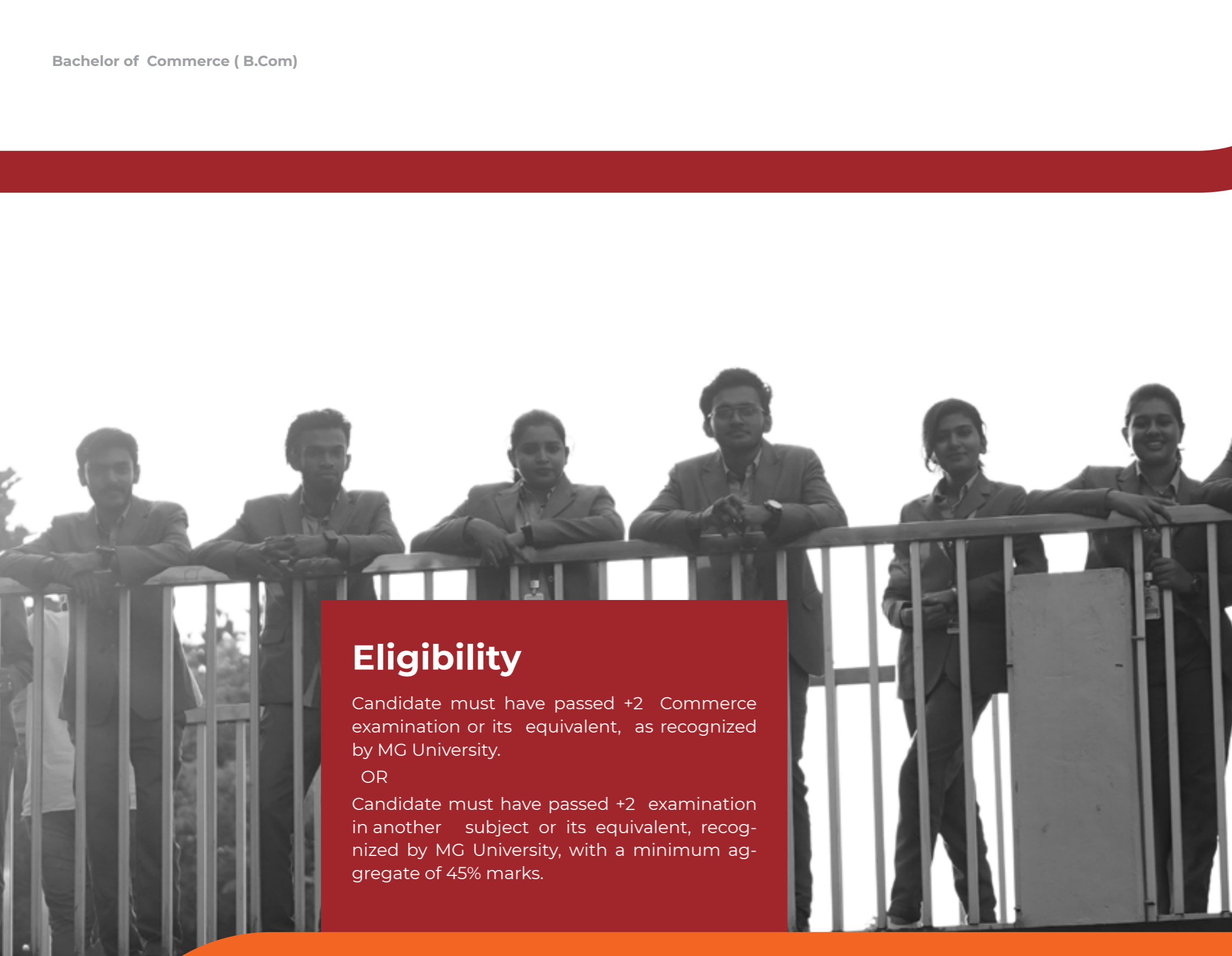


MACFAST
B.Com
Bachelor of
Commerce
(3 years)
B.Com
(Honours)
with research
(4 years)

Curricular Aspects

The department of Commerce and Management Studies offer a four year B.Com Honours degree with Accounting and Financial Marketing Specialisations affiliated to Mahatma Gandhi

University, Kottayam with an intake capacity of 40 students. This program aims to develop professionals in the fields of commerce and management with innovative thinking and strong practical abilities to meet the demanding requirements of the global business environment. The infrastructure of the college offers a great setting for the students to make an impact on the field. The Bachelor of Commerce program is meant to provide and understanding of Accounting, Financial Marketing conditions and its analysis, economic policies, and other factors that affect commerce and industry. The course places a strong emphasis on nurturing student's analytical capabilities, financial management, and business skills.



Eligibility

Candidate must have passed +2 Commerce examination or its equivalent, as recognized by MG University.

OR

Candidate must have passed +2 examination in another subject or its equivalent, recognized by MG University, with a minimum aggregate of 45% marks.

Why B.Com at MACFAST ?

UGC & MG University Approved B.Com Honours

Business Potential Ignited with MACFAST's B.Com

Hands-on Innovation in Real-World Projects

Tech-Forward Learning through MICS Initiative

Tailored Expertise with Add-On Courses

Career-Ready Connections for MNC Placements

Personality Development: Critical Thinking, Problem-Solving, Communication

Global Perspective Emphasized

Practical Skills: Financial Analysis, Business Communication

Why B.Com at MACFAST ?

UGC & MG University Approved: Our 4-year B.Com Honors program, endorsed by UGC and Mahatma Gandhi University, opens doors to top-tier education and boundless career paths.

Ignite Your Business Potential: Spark your success with MACFAST's B.Com program, designed for tomorrow's business trailblazers.

Hands-On Innovation: Dive into real-world projects, creating solutions that make a real impact in today's business landscape.

Tech-Forward Learning: Explore the latest tech trends through MACFAST Innovation and Corporate Synergy (MICS), our initiative for cutting-edge skills in the digital age.

Tailor Your Expertise: Customize your learning with Add-On courses, shaping your skills for diverse business opportunities.

Career-Ready Connections: Build pathways to top MNC placements through our strong corporate network, launching your career on a solid foundation.

Personal Development : Apart from academic knowledge, B.Com Program Fosters Personal development by honing critical thinking, problem solving and communication skills. It also instills a sense of leadership and ethical decision-making, crucial for professional success

Global Perspective: Our B.Com programs often emphasize the importance of a global perspective in business, offering opportunities for international study, exposure to diverse cultures, and understanding of global markets. This exposure is invaluable in today's interconnected world.

Practical skills: Our B.Com programs often emphasize practical skills development, such as financial analysis, business communication, and problem-solving, which are highly valued by employers across industries.

Specialized tracks: B.Com degree program at MACFAST may offer specialized tracks or concentrations, allowing students to tailor their education to their interests and career goals, whether it's in accounting, finance, marketing, or other fields.

Holistic development: Beyond academics, the College emphasizes holistic development by offering extracurricular activities, leadership opportunities, and community engagement programs, ensuring students graduate as well-rounded individuals ready to contribute to society.

Experienced Faculty: The college boasts a team of experienced faculty members who are experts in their respective fields, providing students with quality education and mentorship.

State-of-the-art Facilities: MACFAST offers modern facilities, including well-equipped classrooms, libraries, computer labs, and other resources essential for a conducive learning environment.

Research Opportunities: MACFAST encourages research and innovation, providing students with opportunities to engage in research projects and present their findings at conferences, fostering critical thinking and analytical skills.

Industry Partnerships: The college has strong partnerships with leading companies and organizations, offering students opportunities for internships, industry projects, and networking with professionals.

Alumni Success: MACFAST has a strong alumni network with graduates who have excelled in various industries and sectors, serving as role models and mentors for current students, and providing valuable career guidance and opportunities.

Flexible Curriculum: The B.Com program at MACFAST offer a flexible curriculum with a variety of elective courses and specialization options, allowing students to tailor their education to their interests and career goals.

Entrepreneurial Spirit: Whether you dream of starting your own business or climbing the corporate ladder, the B.Com program at MACFAST equips you with the knowledge and mindset needed to succeed in the business world.

Start Strong, Venture Bold: Our B.Com program ignites your entrepreneurial journey, equipping you to pioneer and thrive in the world of business innovation.

Advanced Technology Integration: The college leverages advanced technologies and digital tools to enhance teaching and learning experiences, preparing students for the digital age and emerging trends in business.

Eligibility

Candidate must have passed +2 Commerce examination or its equivalent, as recognized by MG University.

OR

Candidate must have passed +2 examination in another subject or its equivalent, recognized by MG University, with a minimum aggregate of 45% mark.



Department of Computer Applications

Curricular Aspects

The Department of Computer Applications of MACFAST was started in 2001 with a firm belief that the continuous quest for excellence in the pursuit of wisdom is the sole path to success. The department has successfully carved a niche for itself in the sphere of technology education in the state within a very short span of its existence. We offer a Two-Year Master of Computer Applications degree program approved by AICTE and affiliated to the M.G. University, Kottayam, having an intake capacity of 120 students. The objective of this course is to mould eminent professionals with creative minds and sound practical skills in cutting-edge technologies to confront the challenging demands of the world of science & technology. Striving to strike a balance between theory and practice, we offer a unique synthesis of world class teaching coupled with collaborative learning opportunities and industrial interactions for students to shape them into top-notch professionals.

Program Objectives

Produce knowledgeable and skilled human resources which are employable in IT and ITES.

Impart knowledge required for planning, designing and building complex Application Software Systems as well as provide support to automated systems or applications.

Produce entrepreneurs who can develop customized solutions for small to large Enterprises.

To develop academically competent and professionally motivated personnel, equipped with objective, critical thinking, right moral and ethical values that compassionately foster the scientific temper with a sense of social responsibility.

To develop students to become globally competent.

To inculcate Entrepreneurial skills among students.

Why MCA at MACFAST ?

Consistent high pass percentages in the M.G. University Examinations.

Pool of highly motivated and dedicated faculty members to widen the student's horizon of learning.

Special Placement & Aptitude Training.

Excellent placement support.

MICS - MACFAST Innovation and Corporate Synergy.

Students and faculty members continuously take up NPTEL online courses and certifications in various topics related to IT.

Membership of CSI & UNAI

Live Projects and Internship Entrepreneurship Development initiative sponsored seminars and workshops.

Extension services of MACFAST technologies and other budding enterprises at MACFAST.

Industry Immersion Program in NeST Digital Academy and C-DAC is conducted to enable students to explore industry and leading job markets

MCA

Scheme & Syllabus

First Semester

1. Mathematical & Statistical Foundation for Computer Application
2. Digital Logic & Computer Organization
3. Structured Programming in C
4. Software Engineering and Object Oriented Modeling
5. Database technology and NoSQL
6. Database Technology Lab (MySQL & MongoDB)
7. Software Development Lab- I (C Programming)
8. Employability Skill Training-Phase 1

Second Semester

1. Optimization Techniques for Computer Applications
2. Data structures and Algorithm Analysis
3. Computer Networking with TCP/IP
4. Data Science & Big Data Analysis
5. Object Oriented Lab (Java Lab)
6. Software Development lab-II (PHP)
7. Data Structures Lab using C

Third Semester

1. Machine Learning Techniques
2. Cyber Forensics
3. Elective-1
4. Elective-2
5. Python Programming for Data Science
6. Advance Operating System Lab using Linux
7. Mini Project
8. Employability Skill Training-Phase 2

Elective 1

1. Artificial Intelligence
2. Enterprise Resource Planning
3. Computer Graphics
4. Digital Image Processing

Elective 2

1. Cloud Computing
2. Cryptography and Network Security
3. Business Management and Information System
4. Internet of Things (IoT)

Fourth Semester

1. Seminar
2. Main Project
3. Course Viva

Eligibility Criteria

A pass in any Bachelor Degree Examination of MG University or equivalent degree from any other universities duly recognized by MG University with at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying exam
Bridge course framed by the University as a compulsory course for those students having no Mathematics or Computer background.

Beyond the Syllabus

Students are groomed to be Macfastians through an orientation program. This aims to bridge the gap and to transform and mould the MCA aspirants to inculcate MACFAST culture.

Aptitude test training sessions are arranged for students regularly. A dedicated aptitude server is available for the students as an online portal with a variety of aptitude questions and daily online mock tests. It helps students to practice aptitude anytime anywhere within the campus. It prepares them for the initial screening process of campus recruitment.

Our student community is always benefited from the MACFAST placement cell which opens a new avenue to the corporate world. As a part of this, continuous placement training programs on soft skills development, communication, group discussions, resume building etc. are provided.

Additional training programs on MERN Stack, and Android training programs are given to prepare the students for a global career in computing and nurture competent professionals through real world projects, fostering continuous learning.

A one-week IIP (Industry Immersion Program) on Angular Front-End Framework is given to the students at NeST Digital Academy, Kochi.

Workshops and national/international seminars are conducted on a regular basis to broaden knowledge in the emerging technologies.



Scholastic Achievements

Sl.No:	Name of Rank Holder	Year	Rank Position
1.	Nimitha Hameed	2001-2004	1st Rank
2.	Rajani T. R.	2001-2004	3rd Rank
3.	Hareesh S.	2002-2004	1st Rank
4.	Sini Alex	2002-2004	2nd Rank
5.	Ann Annie Reji	2017-2019	1st Rank
6.	Kripa Thankachen	2017-2019	2nd Rank
7.	Renjitha P R	2018-2020	1st Rank
8.	Abhi A	2018-2020	2nd Rank
9.	Swathy Sajeev	2018-2020	3rd Rank
10.	Fathima H	2019-2021	2nd Rank
11.	Nikhitha Mariam Chacko	2020-2022	1st Rank
12.	Neethu B	2021-2023	2nd Rank

Technological Innovation Student Projects

Bulk Emailer Application: eMACMailer: It's a desktop application using C#, which can send email over the internet like Gmail, Yahoo etc.

Online Admission portal: To enable candidates to apply for courses in MACFAST online. Developed using PHP MySQL.

LifeTouch: A mobile app which will enable people in danger to send alert messages to nearby hospitals, police stations, well-wishers etc. Developed using Android.

Pambatheeram: A consultancy work done by students. It's a website developed for Ayurvedic Hospital. Developed using Adobe Flash and PHP.

Economic GPS tracker using C#: A simple desktop application used to locate places geographically using the latitude and longitude and vice versa over the internet.

ERP Software: Developed by students and faculties of the Department of Computer Applications.

Funded Seminars & Projects

One-year cyber program entitled "Cyber Law And Security Awareness (CLASA) Program for the students of schools & colleges in Kerala" funded by Kerala State Council for Science, Technology and Environment (Rs. 2,00,000) in association with Kerala Police in the year of 2017-18

"Two-day Workshop on Python Programming", December 2017 funded by KSCSTE, in association with CSI & UNAI

Three-day International Research Workshop on "Coding Theory and Fractals with the

Applications to Computer Science and Engineering", December 2016, in association with CSI and Kerala Mathematical Association.

Two-day National Seminar on "Recent Research Opportunities in Computer Science and its Applications", September 2016, funded by KSCSTE

"International Conference on Mathematical Computing and Management" (ICMCM 2010), funded by DST and CSIR, in association with Victoria University, Australia, CSI and Kerala Mathematical Association.

AICTE Sponsored "Advanced Level Intensive Training Program in IT & Management", February 2009.

"Workshop on Machine Learning Methods in Astronomy," January 2009, funded by IUCCA.

AICTE Sponsored National Conference on Recent Development and Application of Probability Theory, Random Process and Random Variables in Computer Science, August 2008.

AICTE Sponsored Staff Development Program on Advanced Mathematics & Computer Science, December 2007.

AICTE Sponsored National Conference on "Role of Mathematics & Computer Science in New Technologies", March 2007.

AICTE Sponsored Intensive Training in "Advanced Level Computer Applications & Technologies", March 2007

AICTE-sponsored National Conference on Recent Developments and Applications of Probability Theory, Random Processes, and Random Variables in Computer Science, August 27-29, 2008.

AICTE-sponsored Advanced Level Intensive Training Program in IT and Management, February 11-25, 2010.

ICMCM-2010, International Conference on Mathematical Computing and Management, June 17-19, 2010, sponsored by DST and CSIR.

ICMCM 2013, International Conference on Mathematical Modelling in Computer, Management, and Medical Sciences, June 13-15, 2013, sponsored by DST.

International Workshop on Coding Theory and Fractals, December 2016.

Workshop on Python sponsored by KSCSTE, December 2017.

International Seminar on Artificial Intelligence, July 2019.

Faculty Details

The best faculty combined with the state-of-the-art infrastructure enables the optimal progression of students through scientific temper and dedication towards excellence. The department is equipped with an expert team of well-qualified, experienced and committed faculty members.

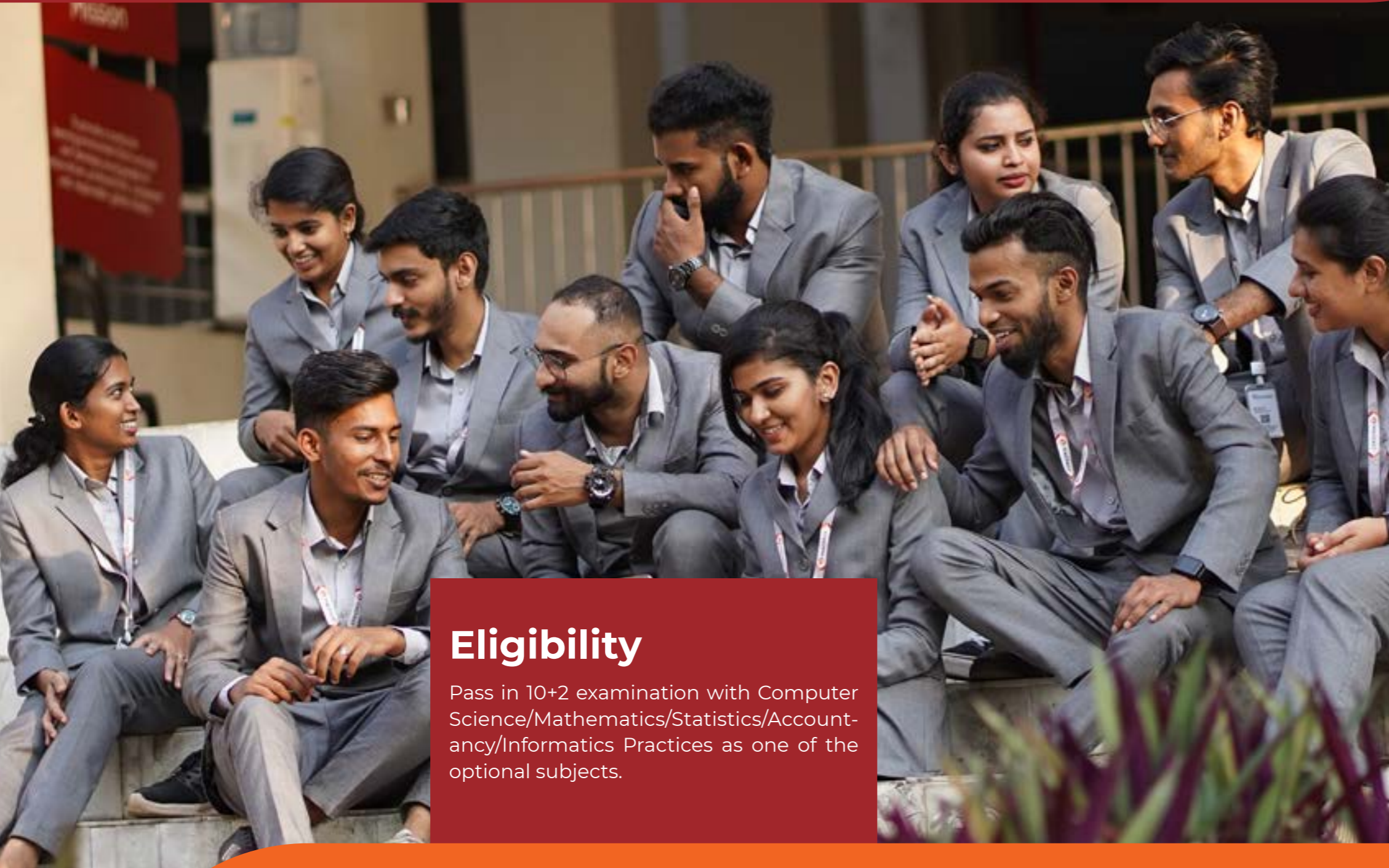
No.	Name and Designation	Qualification	Area of specialization/ Research Interest	Experience
1	Mr. Tiji Thomas HoD & Associate Professor	MCA, M. Tech	Data Mining, Big Data Analytics, Image Processing	Corporate - 3 years Academic -22 years
2	Dr. Nishad P. M. Associate Professor	M. Phil, Ph. D.	Data Compression, Cryptography, Data Structures, Object Oriented Technology, Image Processing, Data Mining, Biodiversity	17 years
3	Mr. Stephen James Assistant Professor	M. Tech, NET Pursuing Ph.D	Computational Biology	20 years
4	Ms. Phijo J. Cherickal Assistant Professor	M. Sc, M. Phil.	Neural Networks, Artificial Intelligence	20 years
5	Ms. Vidhya V. Kumar Assistant Professor	MCA Pursuing Ph.D	Data Mining, Data warehousing	10 years
6	Kripa Thankachen Assistant Professor	MCA	Programming Languages (C,C++), Data Structures, Computer Organizations	Corporate- 2 years Academic- 1 Year
7	M Smitha S Nair Assistant Professor	MCA, M.Phil Pursuing Ph.D	Machine Learning, Digital Image Processing, Artificial Intelligence	Corporate- 1 years Academic- 13year
8	Kavya Srinivas S Assistant Professor	M.Tech	Artificial Intelligence, Machine Learning, Data Science	Corporate- 2 years Academic- 10 year
9	Josy Jose Assistant Professor	MCA	Data Mining, Artificial Intelligence	Corporate - 5 years Academic - 2 year
10	Ashamol Cherian Assistant Professor	M.Sc Mathematics, Pursuing Ph.D	Generalized Set Theory	Academic- 7.5 Years
11	Athira P. R Assistant Professor	M.Sc Mathematics,	Linear Algebra	Academic- 15 Years



MACFAST
BCA
Bachelor of
Computer
Applications

Curricular Aspects

The Department of Computer Applications offers a four-year BCA program, approved by AICTE and affiliated with Mahatma Gandhi University, Kottayam with an intake capacity of 40 students. The course is designed to function as an intermediate between industry and academic institutes. The curriculum includes the latest technologies to prepare the students to be a part of the technology-driven world. The objective of this course is to mould eminent professionals with creative minds and sound practical skills in cutting edge technologies to confront the challenging demands of the world of science & technology. The infrastructure provides an excellent environment for the student to contribute effectively in the field. The course is set to prepare the students with exceptional skills of problem solving, communication and leadership skills. It aims to enable the students to provide professional solutions to real time problems.



Eligibility

Pass in 10+2 examination with Computer Science/Mathematics/Statistics/Accountancy/Informatics Practices as one of the optional subjects.

Why BCA at MACFAST ?

The 4 year BCA program approved by AICTE.

Students are provided with the necessary skills and knowledge to thrive in the IT industry.

The practical training sessions are designed to empower students to develop real-world applications that address global needs.

MACFAST Innovation & Corporate Synergy provides up-to-date and hands-on training in the latest emerging technologies.

Foster a culture of innovation and entrepreneurship.

Unlock your full potential with certified add-on courses.

Vibrant campus placement services.

Department of Social Work

MACFAST MSW Master of Social Work

The Master of Social Work (MSW) program at MACFAST, aims to equip students with the knowledge, skills, and values needed to become competent and committed social work professionals. Combining theoretical learning with practical experience, our students are well-prepared to tackle complex social issues and advocate for positive change in diverse communities.

Curriculum :

The MSW program, offered by Mahatma Gandhi University, encompasses a broad spectrum of topics, including human behavior, social policy, community development, clinical practice, and research methods. This program is structured to be completed in two years (4 semesters) of full-time study, incorporating both field practicum and dissertation work.

The complete syllabus is available at <https://www.mgu.ac.in/msw-syllabus/>

Specialization

MACFAST offers two specialization courses:

- Community Development (CD)
- Medical & Psychiatric Social Work (MP).

Eligibility Criteria

Graduation with not less than CGPA of 1.8 out of 4 in the Core Group (Core + Open + Complementary).

Or

Graduation with not less than CCPA of 4.5 out of 10.00 in the Core Group(Core + Open + Complementary).

Or

Graduation with not less than 45% marks in the Part III subjects (Main/Core + Subsidiaries/Complementary) is necessary.

Beyond the Syllabus

To enrich the learning experience and professional development of Master of Social Work (MSW) students, MACFAST provides an array of activities beyond the curriculum designed by the University. These activities offer opportunities for practical application, community engagement, and personal growth, ensuring that students are thoroughly prepared for their social work careers

- Rural Camp • Field Practicums
- Workshops and Seminars
- Community Service and Volunteering
- Student Organizations and Clubs
- Conferences and Symposiums
- Mentorship and Peer Support
- Research Opportunities
- Networking Events
- Personality Development Trainings
- Membership in KAPS(Professional Associations)

MSW graduates can pursue these roles in various settings, including hospitals, schools, government agencies, non-profit organizations, community centers, private practices, and international agencies. The MSW degree opens doors to fulfilling careers dedicated to making a positive difference in the lives of individuals and communities

For more information about the MSW program,
Admissions Office
MACFAST, Tiruvalla
0469 2730301, 9746935363
principal@macfast.org
www.macfast.org

Career Opportunities

Graduates of the MSW program are well-prepared for a variety of career paths in social work, including:

- Development Consultant
- Psychiatric Social Worker
- Child and Family Social Worker
- Social Activist
- Healthcare Social Worker
- Family Counsellor
- Policy Analyst
- Researcher
- Human Service Organization Administrator
- Officer at Social Welfare Department
- Officer of Women and Child Development
- Protection Officer
- Probation Officer
- Teaching/Research Positions
- Social Work Trainer

We look forward to welcoming you to MACFAST for the MSW program and supporting you in your journey to becoming a skilled and compassionate social work professional.



**MACFAST
SCHOOL OF
BIOSCIENCES**



The School of Biosciences at Mar Athanasios College For Advanced Studies Tiruvalla (MACFAST) is dedicated to biosciences, offering a comprehensive range of academic programs including undergraduate, postgraduate, and doctoral programs. The department is steadfast in its mission to deliver high-quality education and rigorous training to its students. This commitment is reflected in the school's robust curriculum, which is delivered by a team of highly qualified and experienced faculty members. These educators employ a multifaceted approach to teaching that includes traditional classroom instruction, hands-on laboratory experiments, and immersive fieldwork, ensuring that students receive a well-rounded education that prepares them for various professional and academic pursuits.

The School of Biosciences prides itself on its state-of-the-art facilities. The laboratories are well-equipped, providing students with the resources to conduct cutting-edge research and gain practical experience in their respective domains. Additionally, the library has a vast collection of books, journals, and other scholarly materials, offering students ample resources for their academic and research requirements. Students at MACFAST's School of Biosciences are actively encouraged to engage in short-term research projects and assignments, which are integral to their academic development. These projects are conducted under the close supervision and guidance of the faculty, allowing students to apply theoretical knowledge to practical scenarios, develop critical thinking and problem-solving skills, and contribute to ongoing research initiatives. This hands-on approach not only enhances the learning experience but also prepares students for future careers in research, academia, industry, and various other sectors within the biosciences field.

Eligibility Criteria

1. M.Sc. Biochemistry

The M.Sc. in Biochemistry at MACFAST offers an in-depth understanding of the chemical processes and molecular mechanisms driving biological systems. Students gain hands-on experience in advanced laboratory techniques and scientific research, preparing them for careers in research, industry, and academia.

Eligibility Criteria

Graduation in Biological Sciences viz, Zoology, Botany, Biochemistry, Biophysics, Biotechnology, Biological Techniques & Specimen Preparation and Microbiology or Chemistry or MLT or Aquaculture of University of Calicut with not less than CGPA of 2.00 out of 4 in Core Group (Core + Complementary + Open Courses).

2. M.Sc. Bioinformatics

The M.Sc. in Bioinformatics at MACFAST combines biological sciences with computational techniques to analyze and interpret complex biological data. Students are trained in the use of advanced bioinformatics tools and software, preparing them for careers in genomics, proteomics, and computational biology.

Eligibility Criteria

Graduation in Biochemistry, Biophysics, Biotechnology, Plant Biotechnology, Bio-informatics, Botany, Zoology/ Plant Biology/Chemistry/Computer Science, Computer Application, Electronics, Environmental

Science, Mathematics, Microbiology, Physics and Statistics with not less than CGPA of 2.00 out of 4 in the Core Group (Core + Complementary + Open Courses). BBS/B Tech/B Sc MLT degree holders can also apply

3. M.Sc. Biotechnology

The M.Sc. in Biotechnology at MACFAST focuses on the application of biological systems and organisms to develop innovative products and technologies. Students gain expertise in genetic engineering, molecular biology, and bioprocessing, preparing them for careers in biotechnology research and industry.

Eligibility Criteria

Graduation in Biological Sciences viz., Zoology, Botany, Biochemistry, Biophysics, Biotechnology, Biological Techniques and Specimen Preparation and Industrial Microbiology/Medical Microbiology/Microbiology or Chemistry or MLT with not less than CGPA of 2.00 out of 4 in the Core Group (Core + Open + Complementary). MBBS/B Tech (Biotechnology)/B Sc Agriculture/BVSc degree holders can also apply

4. M.Sc. Food Technology & Quality Assurance

The M.Sc. in Food Technology and Quality Assurance at MACFAST focuses on the principles and practices of food production, safety, and quality control. Students are trained in advanced techniques for ensuring food quality and safety, preparing them for careers in the food industry and regulatory sectors.

Eligibility Criteria

Graduation in Science or Technology having Food Science, Food Technology, Chemistry, Biochemistry, Physics, Botany, Zoology, Family & Community Science, Microbiology or Nutrition as one of the subjects or B Voc Agro Food Processing/ B.Voc Agriculture Technology or Graduation in Microbiology with Nanotechnology of Bharathiar University or B Voc in Food Processing Technology/B.Voc Food Technology and Analysis or B. Voc in Food Processing Engineering of Avinashalingam University with not less than CGPA of 2.00 out of 4 in the Core Group (Core + Complementary + Open Courses)

Admission Procedure

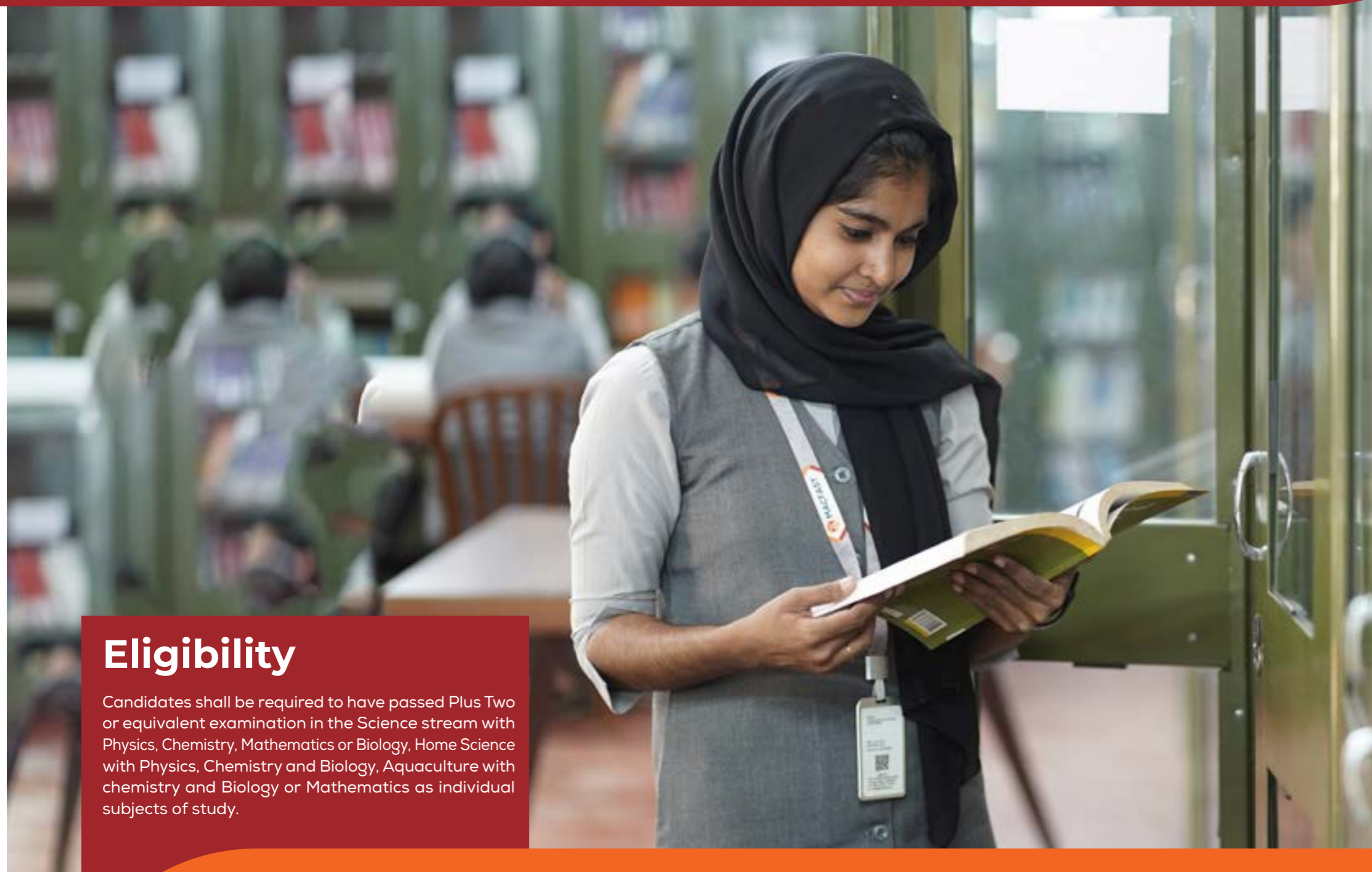
Total seats for both UG and PG programs at MACFAST are filled through University allotment (50%) and management quota (50%). University allotments are made through the Mahatma Gandhi University Central Allotment Process (MGU CAP). Management quota admissions are also merit-based and include subsequent interviews with candidates. Enquiries can be submitted directly via application forms or online through the portal link on the college website.



MACFAST
**B.Sc. (Honours) Food Technology
& Quality Assurance**

Bachelor Of Science

The UG Program in Food Technology at MACFAST College offers students a comprehensive education in food science, covering essential topics such as food processing, preservation, quality control, and safety. This program equips students with both theoretical knowledge and practical skills, preparing them for careers in the food industry and regulatory sectors. The curriculum includes hands-on training in state-of-the-art laboratories, ensuring that graduates are industry-ready and proficient in modern food technology practices.



Eligibility

Candidates shall be required to have passed Plus Two or equivalent examination in the Science stream with Physics, Chemistry, Mathematics or Biology, Home Science with Physics, Chemistry and Biology, Aquaculture with chemistry and Biology or Mathematics as individual subjects of study.

Why B.Sc. at MACFAST ?

State-of-the-art laboratories

Expert Faculty

Industry-Relevant Curriculum

Internship Opportunities through extensive network of industry partnerships.

Research and Innovation Opportunities

Tailor-made training programs

Industrial Visits to CSIR/ICAR institutes and industries.

Placement Support by dedicated placement cell

Professional opportunities include Food Scientist, Food Engineer, Sensory Scientist, Food Analyst, Food Safety Officer, Specialist in Regulatory Affairs, Nutritionist / Nutrition Officer, Quality Control & Quality Assurance Officer).

Beyond the Syllabus

G. N. Ramachandran Science Club

The GN Ramachandran Science Club at MACFAST, affiliated with Vigyan Prasar, Govt. of India (Ref number-KL0142), fosters a deep interest in life sciences among students. Named after the renowned scientist GN Ramachandran, the club inspires inquiry and innovation. It offers a platform for exploring scientific concepts, hands-on experiments, and participation in various activities and competitions. The club organizes events such as guest lectures, workshops, science exhibitions, and field trips to enhance understanding and appreciation of different scientific fields. Members develop critical thinking skills, collaborate on research projects, and stay updated on scientific advancements. The club also promotes interdisciplinary learning, inviting students from diverse academic backgrounds to contribute to a rich scientific community.

Orientation Programs

The School of Biosciences at MACFAST provides orientation programs and bridge courses at the beginning of the academic year to ensure a smooth transition for new undergraduate and postgraduate science students. Orientation programs introduce students to the college's academic environment, facilities, faculty, and resources, presentations, interactive sessions and other campus activities fostering a sense of community engagement. Bridge courses address knowledge gaps and prepare students for studying the rigorous content of the curriculum, covering fundamental concepts for undergraduates and advanced topics and research methodologies for postgraduates. Both programs emphasize skill development, critical thinking, and academic readiness. These initiatives help the students to acquire the skills for their career advancement and for successfully completing the academic programs with a sense of confidence and fulfillment.

Collaborations/MoUs with Research Institutes & Industries

The college has signed a number of MOUs with reputed organizations like the Indian Institute of Horticultural Research, CFTRI, CPCRI, CIFT, TIMED-SCTIMST, and IIIT Allahabad to foster collaborative academic research. These agreements support joint research efforts among affiliated researchers, leveraging each other's initiatives and methodologies. Partnerships with national and international organizations, including Nagarjuna, Nestle, E-Cell IIT Kharagpur, and SAMI Labs, facilitate the application of theoretical knowledge into practical solutions. Notable partner institutions include the Central Potato Research Institute, Forest Research Institute, National Institute of Plant Genome Research, NCBS, and CSIR-NISCAIR. These collaborations provide students with internship opportunities at prestigious institutions like NISCAIR, enhancing their academic and professional development. Through these alliances, students gain valuable experience and opportunities for promising future endeavors.





Herbal Garden and Orchidarium

The School of Biosciences at MACFAST College maintains an Herbal Garden and Orchidarium, serving as living repositories for diverse plant species. The Herbal Garden, with nursery and greenhouse facilities, houses over 300 indigenous medicinal plants, including rare and endangered species. The Orchidarium features 37 rare and exotic orchid species from around the world, highlighting the Institute's commitment to biodiversity conservation and sustainable horticulture. Utilizing advanced plant tissue culture facilities, the department preserves and cultivates endangered and rare plants, supporting research, education, and environmental conservation. The Herbal Garden and Orchidarium exemplify MACFAST's dedication to preserving natural heritage and fostering scientific innovation.

Water Analysis and Soil Analysis Consultancy Services

The School of Biosciences at MACFAST provides essential water and soil analysis services to the community. The water analysis service offers laymen easy-to-understand assessments of water quality for safe household use, including testing for contaminants and essential parameters. For farmers, the soil analysis service provides critical insights into soil health and fertility, guiding optimal crop management and agricultural practices. By evaluating nutrient levels, pH, and other soil characteristics, it helps farmers enhance crop yield and sustainability. These initiatives demonstrate MACFAST's commitment to community welfare and agricultural development through scientific expertise and practical support.



Add-on Courses/MOOCs/Certificate Courses

The School of Biosciences at MACFAST offers a variety of add-on courses and online MOOCs designed to enhance students' knowledge and practical skills. These courses Developed in collaboration with institutes like TBGRI and industries such as Sepratech Solutions,enhances the importance of basic science programs in the current scientific landscape. As a local chapter of SWAYAM-NPTEL, the college encourages students to pursue online certification courses offered by the Government of India,

complementing their traditional education with contemporary learning opportunities. Additionally, specialized certificate programs in areas like Entrepreneurship, Bioinformatics, and Food Preservation provide hands-on experience and industry-specific expertise, preparing students for successful careers in science and technology. These initiatives reflect the School's commitment to fostering continuous learning and professional development among its students.

Laboratory Facilities

The School of Biosciences at MACFAST provides state-of-the-art laboratory facilities with advanced instruments like PCR machines, spectrophotometers, chromatographs, and bioinformatics software. These well-equipped labs support diverse experimental work in biochemistry, microbiology, biotechnology, plant biotechnology, and food technology. Students benefit from hands-on training supervised by experienced faculty, fostering the development of practical skills and enabling them to conduct cutting-edge research in a supportive environment.

Microbiology Lab

The Microbiology Laboratory is equipped with high-resolution microscopes, autoclaves, incubators, and laminar flow hoods, facilitating comprehensive study and research on microorganisms. It provides hands-on training and support innovative research in microbiology, preparing students for careers in health, industry, and environmental sectors.

Bionanotechnology Lab

The Bionanotechnology Laboratory facilitates interdisciplinary research at the intersection of biology and nanotechnology, enabling students to synthesize and manipulate nanoscale materials for applications in drug delivery, diagnostics, and bioengineering. Through hands-on experimentation, students explore the interactions between nanoparticles and biological systems, developing practical solutions for various challenges.

Bioinformatics Lab

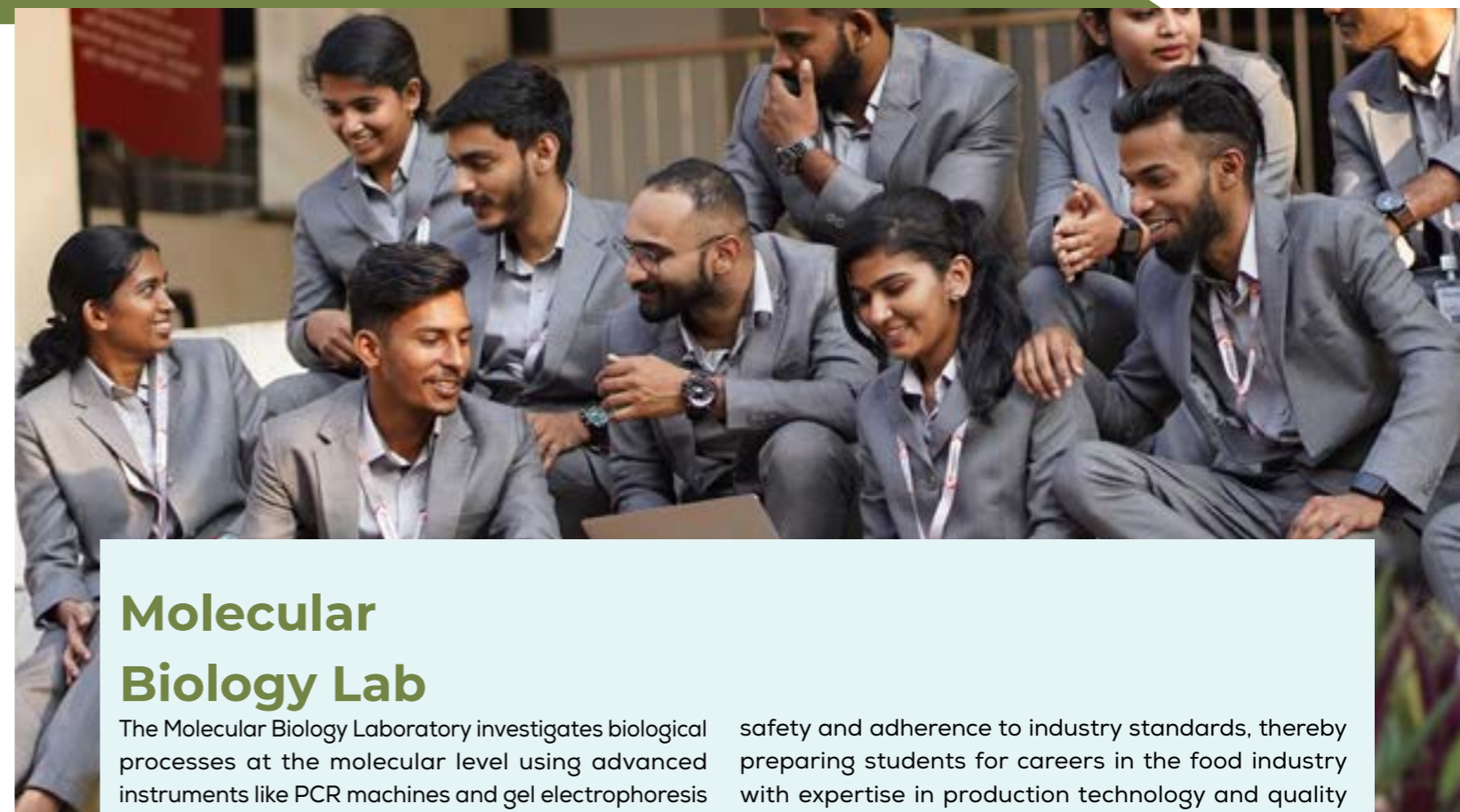
The Bioinformatics Laboratory integrates computational technology with biological research, offering resources for analyzing complex biological data such as genomic sequencing and protein structure analysis. It provides hands-on training in data mining, statistical analysis, and algorithm development to prepare students for advanced biological research challenges.

Biochemistry Lab

The Biochemistry Laboratory is equipped with essential tools like centrifuges, spectrophotometers, and chromatography for detailed biochemical analysis and practical learning in enzyme kinetics, metabolic pathways, and molecular interactions. It provides students with hands-on experience in modern biochemical research techniques, emphasizing the application of theoretical knowledge in experiments such as protein purification and DNA analysis.

Plant Tissue Culture Lab

The Plant Tissue Culture Laboratory is equipped with modern tools like laminar flow hoods and autoclaves for in vitro cultivation and genetic modification of plants. Students gain hands-on experience in micropropagation, somatic embryogenesis, and sterile techniques essential for successful plant tissue culture.



Molecular Biology Lab

The Molecular Biology Laboratory investigates biological processes at the molecular level using advanced instruments like PCR machines and gel electrophoresis apparatus. Students gain practical experience in DNA sequencing, gene cloning, and studying gene expression, emphasizing the application of theoretical knowledge in molecular research.

Food pilot plant and Food Analysis Lab

The Food Pilot Plant facilitates hands-on training in small-scale food production using state-of-the-art machinery. Students gain practical experience from raw material handling to packaging, applying theoretical principles in industrial food manufacturing. In conjunction, the Food Analysis Laboratory supports thorough quality control tests and nutritional analyses, ensuring food

safety and adherence to industry standards, thereby preparing students for careers in the food industry with expertise in production technology and quality assessment.

Phytochemistry Lab

The Phytochemistry Laboratory specializes in analyzing and characterizing bioactive compounds from plants, supporting research into their applications in medicine, agriculture, and industry. Students gain practical skills in phytochemical extraction, isolation, and identification through hands-on experimentation, contributing to advancements in natural product discovery and development.

EMINENT ALUMNI NETWORK

An educational institution's reputation depends on its students, both past and present. When it consistently produces successful graduates who are intelligent, creative, and efficient in their fields, its reputation improves. School of Biosciences feels proud of it's alumni.



Dr. Shameer Khader
Senior Director
AstraZeneca, USA



Dr. Hari Nandan
Scientist
Charles Darwin University



Mrs. Neethu Ravikumar
Senior Food Safety Officer,
Govt. of Kerala



Dr. Shijulal Nelson
Principal Investigator
Rajiv Gandhi Centre for
Biotechnology (RGCB)



Dr. Ajith Ashokan
Research Scientist
Mayo Clinic, USA



Keerthana Roop
Research and
development & technical
manager Viscofan -
Indian technical division
Bangalore



Jobin S
Clinical data associate at
ThermoFisher Scientific,
Bangalore



Sussana Joy
Regulatory officer - VKL
Seasoning Pvt. Ltd
(Dsm- Firmenich), Kochi

Rank Holders

	Year	Course	Name	Rank
1	2020-22	Msc. Bioinformatics	Ms. Sreevidya S. Devi	1
2	2020-22	Msc. Bioinformatics	Ms. Reeba Rachel	2
3	2020-22	Msc. Bioinformatics	Ms. Malavika	3
4	2020-22	Msc. Bioinformatics	Mr. Stalin Dany Shaji	4
5	2020-22	Msc. Bioinformatics	Ms. Thasni	5
6	2020-22	Msc. Bioinformatics	Ms. Haritha B	6
7	2020-22	Msc. Bioinformatics	Mr. Ebin Siby	8
8	2020-22	Msc. Food technology and Quality Assurance	Ms. Sreelakshmi G	1
9	2020-22	Msc. Food technology and Quality Assurance	Ms. Vismaya M	4
10	2020-22	Msc. Food technology and Quality Assurance	Ms. Anusree P	5
11	2020-22	Msc. Food technology and Quality Assurance	Ms. Sibya S. Joy	7
12	2020-22	Msc. Food technology and Quality Assurance	Mr. Ajay S S	9
13	2020-22	Msc. Food technology and Quality Assurance	Ms. Mayadevi P	9
14	2020-22	Msc. Biochemistry	Mr. Neeraj Antony	3
15	2020-22	Msc. Biochemistry	Mr. Rahul J S	4
16	2020-22	Msc. Biochemistry	Ms. Himasree M	8
17	2020-22	Msc. Biochemistry	Ms. Megha S S	9
18	2020-22	Msc. Phytomedical science and Technology	Dr. Sathyakrishna PK	1
19	2020-22	Msc. Phytomedical science and Technology	Ms. Sruthy Omanakuttan	2
20	2020-22	Msc. Plant Biotechnology	Ms. Sruthi Sreekumar	1
21	2020-22	Msc. Plant Biotechnology	Ms. Rose Maria Binoy	2
22	2020-22	Msc. Plant Biotechnology	Ms. Prejitha Jayan	3
23	2020-22	Msc. Plant Biotechnology	Ms. Varsha K P	4
24	2020-22	Msc. Plant Biotechnology	Ms. Deepthi Suresh Kumar	5
25	2020-22	Msc. Plant Biotechnology	Ms. Chandini	6
26	2020-22	Msc. Plant Biotechnology	Ms. Bijitha B Nair	7
27	2020-22	Msc. Plant Biotechnology	Anie M A	8
28	2020-22	Msc. Plant Biotechnology	Ms. Sreelakshmi M	9
29	2020-22	Msc. Plant Biotechnology	Ms. Megha P	10

Faculty Details

The best faculty combined with the state-of-the-art infrastructure enables the optimal progression of students through scientific temper and dedication towards excellence. The department is equipped with an expert team of well-qualified, experienced and committed faculty members.

No.	Name and Designation	Qualification	Area of specialization/ Research Interest	Experience
1	Rev. Dr. Mathew Mazhavancheril Associate Professor	M.Sc.,B.Ph.. in Philosophy, B.Th. in Theology, Post Graduate Diploma in Nanobiotechnology,MBA (Human Resource Management), Ph.D. PDF	Plant Biotechnology	14 years

Department of Biosciences

2	Dr. Jenny Jacob Associate Professor and Head, Department of Biosciences	M.Sc., Ph.D. CSIR NET & GATE	Enzyme inhibition, medicinal plants and inflammation, bionano therapeutics, nanomaterials	Teaching Experience 16 years Research Experience 4 yrs
3	Dr. Treesa Varghese Associate Professor	M.Sc., Ph.D.	Biochemistry - protein chemistry, collagen based scaffold for wound dressing material	Teaching Experience 16 years
4	Dr. Blesson Santhosh George Assistant Professor	M.Sc., Ph.D. CSIR NET & GATE	Biotechnology Research interest - Gene isolation, human genetics	Teaching Experience 8 years Research Experience 4 yrs
5	Dr. Teena Merlin Assistant Professor	M.Sc., Ph.D.	Biochemistry Research Interests: Inflammation, Medicinal plants, Pharmacology, Natural products, In silico	Teaching Experience 14 years Research experience 7 years
6	Ms. Unnimaya G Assistant Professor	M.Sc.	Plant Biotechnology - Tissue culture, Plant molecular biology, plant - microbe interaction.	Teaching Experience 1 year
7	Ms. Karthika Rajendran Assistant Professor	M.Sc.	Botany and Microbiology Research interests - Plant Taxonomy, plant-animal interaction Evolutionary biology.	Teaching Experience 2 years
8	Ms. Swathy Sandeep Assistant Professor	M.Sc.	Biotechnology - cell biology, cancer biology, gene expression studies	Teaching Experience 1 year

Department of Food Technology

1	Dr. Beena Cherian Associate Professor and Head, Department of Food Technology	M.Sc., PhD UGC NET & SET, PG Diploma in Nutrition and Dietetics	Home Science - Food Science and Nutrition, Mushroom cultivation, Value added products from fruits and vegetables	Teaching Experience 27 years
2	Dr. Smitha Vijayan Associate Professor	M.Sc., M.Phil., Ph.D., ICAR NET	Microbiology and Bionanotechnology Research Interests: Microbiology, nanoscale drug delivery systems, nanoscale wound healing.	Teaching Experience 17 years
3	Dr. Shery. M Varghese Assistant Professor	M.Sc., Ph.D.	Biotechnology - Agriculture biomass and Symbiotic product development	Teaching Experience 8 years Industrial Experience 1 year Research Experience 4 yrs
4	Ms. Sini Kurien Assistant Professor	M.Sc., PG Diploma in Bioinformatics	Biochemistry Enzymology, Phytochemical Analysis	Teaching Experience 15 years
5	Ms. Sreelakshmi G Assistant Professor	M.Sc., First Rank	Food Technology - Extraction (HPLC, GCMS), Processing and fortification of value added products	Teaching Experience 1 year

MACFAST Research Centre

The MACFAST Research Centre is an approved research centre of Mahatma Gandhi University, Kottayam. The centre serves as a multidisciplinary hub for promoting research and innovation in scientific, technological, and management fields. It offers PhD programs in Biosciences and Management Studies with emphasis on knowledge advancement, innovation, and societal progress at personal, institutional, and global levels through rigorous research activities.

PhD in Biosciences

The Bioscience Research Centre is a prominent hub for scientific inquiry and innovation, making substantial contributions to Kerala's academic and research community. It collaborates with national and international institutions on diverse research areas such as inflammation, immunomodulation, phytochemistry, microbial intervention in nanomaterials, and enzyme inhibition. Currently, the centre hosts 19 doctoral scholars, including international scholars supported by the scholarships of ICCR and CSIR.

The MG University-approved research guides in Biosciences are:

- **Dr. Jenny Jacob**, Associate Professor and Head, School of Biosciences, MACFAST, Tiruvalla
- **Dr. Indu C Nair**, Assistant Professor, SAS SNDP Yogam College, Konni
- **Dr. Smitha Vijayan**, Associate Professor, School of Biosciences, MACFAST, Tiruvalla
- **Dr. Treasa Varghese**, Associate Professor, School of Biosciences, MACFAST, Tiruvalla
- **Dr. Teena Merlin**, Assistant Professor, School of Biosciences, MACFAST, Tiruvalla

PhD in Management Studies

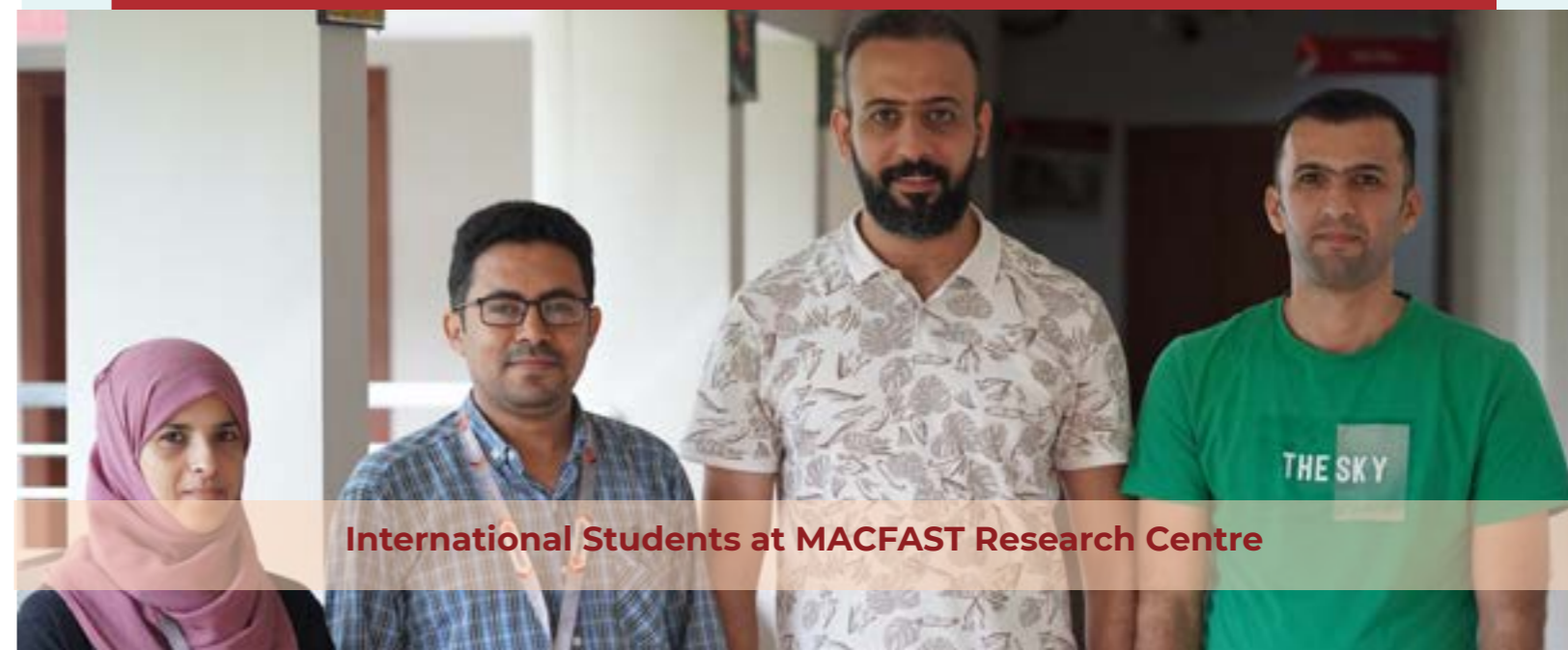
The Management Studies Research Centre focuses on research in business and management disciplines. It addresses contemporary challenges in organizational behavior, strategic management, marketing, finance, and human resource management through rigorous research, fostering collaborations with national and international institutions to drive impactful projects and enhance business practices.

The MG University-approved research guides in management studies are:

- **Dr. Jeemon Joseph**, Director, Dept of Management Studies
- **Dr. Neethu Ann Georgie**, Associate Professor, Dept of Management Studies

Admission Procedure

To be eligible for the Ph.D. program at MACFAST, candidates must hold a Master's degree in the relevant discipline from a recognized University with at least 55% marks (or an equivalent grade, with a relaxation to 50% for SC/ST candidates). Possessing an M.Phil. degree in the relevant subject is advantageous but not mandatory. Admission is based on CSIR/UGC NET/JRF scores or the MG University Research Entrance Test. Candidates with valid CSIR/UGC NET/JRF scores can apply directly throughout the year, while those without NET/JRF must qualify the Ph.D. entrance examination conducted by MG University.



International Students at MACFAST Research Centre

Scholarship for Research

The ICCR Scholarship for international PhD students supports outstanding scholars by covering tuition fees, accommodation, and living expenses, enabling focused doctoral studies in India. The scholars doing research with scholarship can enjoy the benefit from access to advanced research facilities and guidance from esteemed faculty, enhancing their academic and professional development while promoting cultural exchange and collaboration between India and their home countries.

Journal of Science, Technology & Management

The Journal of Science, Technology and Management is a publication of MACFAST started in 2007 and registered under RNI Reg No. KERENG/2008/29261. The journal is an accepted platform for peer-reviewed research spanning science, technology, and management disciplines. It welcomes global contributions, fostering academic excellence and innovation through original research articles, reviews, case studies, and commentaries. Embracing interdisciplinary dialogue, the journal encourages the exchange of ideas that drive technological advancements and strategic management practices. It upholds rigorous standards with a double-blinded peer review process and an esteemed editorial board. Ultimately, the journal supports scholarly development, knowledge dissemination, and community engagement in academia.





MICS

MACFAST Innovation and Corporate Synergy

The idea behind MACFAST innovation and corporate synergy is to assist future aspirants in discovering their abilities and bridging the gap between the corporate and the campus. MICS helps the students satisfy corporate expectations and advance their careers. Through the following top five strategies, professional advancement is made easier.

Mentorship program – Alumni Interaction

Industry Interaction –

Industry experts /Visiting faculty Interaction

Industrial Visits

Internships

Campus to Corporate Connect



Startup Kendra for You (SKY)

MACFAST Technological and Business Incubator- SKY aims to inculcate a culture of innovation driven entrepreneurship among the students and to promote new technology/ knowledge/ innovation based startups.



MACFAST Best Practices

The two best practices successfully implemented by MACFAST are the Green Mission and the MACFAST Knowledge Scheme (MAKS).

Green Mission:

MACFAST has implemented a comprehensive Green Mission to create an eco-friendly and sustainable environment on the campus. The mission aims to reduce the carbon footprint of the college and to promote eco-consciousness among the students, faculty, and staff. As part of the Green Mission, the college has implemented various schemes such as rainwater harvesting, solar energy generation, and waste management.

MACFAST Knowledge Scheme (MAKS):

MAKS is an Initiative of MACFAST to develop a Knowledge Society through Knowledge Dissemination. As a social responsibility program of the college, this scheme is introduced in 2012 to identify the potential and skillset of students at the school level. It is a program intended to create a knowledge society through knowledge dissemination using the academic potential of this college and is continuing as one of the best practices. This scheme aims at enhancing the skill set of the students and training them to identify their potential and inherent talents. It also aims at sharing information among the students and to make them competent for appearing for competitive examinations. This scheme is a revelation to the students to make them aware of the opportunities for higher levels of learning and employment.



Moments

in MACFAST

Corporate Relations & Placement Support

www.macfast.org

The Corporate Relations office at MACFAST is focused on helping students identify, develop, and achieve their career aspirations. It enhances their learning by facilitating industry connections through internships, fieldwork, professional associations, live projects, and career support services. These activities offer students a range of opportunities to build their technical expertise, leadership, and soft skills. By engaging in live projects, internships, dissertations, and sessions with industry professionals, students gain valuable insights into modern industry practices. MACFAST views student placements as a key objective and actively works to create more opportunities.

The Corporate Relations team, along with the student-led Placement Committee, promotes connections with recruiters, offers career counseling, provides pre-placement training, and networks with industry professionals to ensure successful summer and final placements. MACFAST's immersive learning approach ensures that, upon graduation, students are not only academically proficient but also industry-ready, having equipped with the necessary skills and practical experience to excel in their respective career paths.



MAJOR RECRUITERS

www.macfast.org





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Affiliated to MG University, Kottayam & Approved by AICTE, New Delhi
MG University Approved Research Centre
National Cyber Defense Resource Centre (NCDRC)