

ANNUAL REPORT 2020-21



DEPT. OF COMPUTER SCIENCE MES COLLEGE ERUMELY



The department of computer science has been providing quality education since 1995. Currently there are around 156 students pursuing BCA and 6 students in M.Sc. Computer Science post-graduation degree. Besides the curricular program, the department offers co-curricular activities. Remedial teaching and peer teaching also being organized for the deserving students. With the help of the faculty members and the student body "computer association", the department has achieved many renown.

The focus area of the Department is to create Students Supportive Learning Environment at all the levels of teaching, learning and evaluation system like -

- Facilitating the students to learn the subject and make them focus on completing their course within three years.
- Creating study environments with the support of projects and examples from recent trends.

Prepared by

Mrs. Suhana. E

Assistant Professor

Mrs. Betty Joseph, HoD, CS.

Associate Professor

Report by the Head of the Department

Dept. of computer science of MES College Erumely believes in the integrated development of students and strives to technically upgrade them. So, our young learners benefit from our specialized support and the expertise of qualified, trained teaching staff. At the same time our methodology aims to develop academic knowledge with essential life skills so that students gain expertise in analysis and comprehension of acquired knowledge while developing presentation skills.

This academic year offered a wide range of seminars, webinars, workshops, day observations and training experiences.

To ensure that to fulfil the stated Vision and Mission, the department has taken different initiatives throughout the year. Regular departmental meetings are conducted on every first week of each month

The Department facilitating the quality education to the highest and conducting various curricular and co-curricular activities to make the students best in every field of study, through

- Interaction with Board of Studies
- Effective Tutorial System
- Peer group learning
- Value added and Bridge courses
- student-driven projects
- Seminars and Guest Lectures
- Faculty development programs

Associate Prof. Betty Joseph
Head of the Department

VISION



To become a center of excellence that generates knowledge through education and learning. Also, to prepare students for a globalized and technical society and orient them towards serving the society

MISSION



To impart high quality training at the graduate and postgraduate level with focus on basic principles of computer science. Thereby impart moral and ethical values and interpersonal skills to the students

Details of Faculty -**Academic Staff**

SL. NO	NAME	QUALIFICATIONS	DESIGNATION	Year of Join
1	Betty Joseph	MCA, MBA	Associate Prof. Head	1996
2	Rejoola O M	MSc (OR & CA)	Associate Prof.	2000
3	Hari G	MCA	Associate Prof. <i>until Dec 2020</i>	2001
4	Geena George	MCA	Associate Prof. <i>until July 2020</i>	2001
5	Shabeena Beegom K H	MSc (CS)	Assistant Prof.	2005
6	Asha Jaison	MCA, Mphil	Assistant Prof.	2010
7	Anitha Mathew	MCA	Assistant Prof.	2011
8	Suhana E.	MCA, CIC, PGDCA	Assistant Prof.	2011
9	Sabjan Yoosef	MSc (CS)	Guest <i>From 2018</i>	2018

Support Staff

SL.NO	NAME	DESIGNATION	Year of Join
1	Jinesh Peethambaran	Lab In charge	2012

Student Strength

I Year BCA – 62
 II Year BCA – 46
 III Year BCA – 48
 II Year MSc CS – 6

Student Representatives

I Year BCA –

1. ---
2. ----

II Year BCA –

1. Shibina Shibu
2. Emil Thomas

III Year BCA –

1. Merin Joseph
2. Anwar Razak

II Year MSc CS

1. Fathima Noushad
2. Jeffi George

Class Tutors

I Year BCA – Sabjan Yoosef

II Year BCA – Shabeena Beegom
K H

III Year BCA – Anitha Mathew

II Year MSc CS – Suhana. E

Departmental Contribution to Examination Branch

Sl. No	Name of the Faculty	Contribution to the Exam Branch
1	Betty Joseph	Deputy chairperson (Pala Zone) Member of syllabus revision committee Chief examiner Question Paper Setting Invigilation
2	Rejoola O M	Additional chief superintendent Question Paper Setting Evaluation of scripts: Chief examiner Re-evaluation of scripts
3	Hari G	Chief examiner Additional examiner Evaluation of Scripts Re-evaluation of Scripts Invigilation
4	Shabeena Beeegom K H	Chief examiner Additional examiner Question paper Setting Evaluation of Scripts Re-evaluation of Scripts Invigilation
5	Asha Jaison	Additional examiner Question paper Setting Evaluation of Scripts Re-evaluation of Scripts Invigilation
6	Anitha Mathew	Additional examiner Question paper Setting Evaluation of Scripts Re-evaluation of Scripts Invigilation
7	Suhana E.	Additional examiner Evaluation of Scripts Invigilation
8	Sabjan Yoosef	Evaluation of Scripts

Departmental Contribution to the College

Faculty in charge

Responsibilities

Mrs. Betty Joseph

Head of the Department,
AISHE Nodal Officer

Mrs. Rejoola O. M

NSS Programme Officer

Mr. Hari. G

Coordinator – Bhoomithra Club and Nature Club

Mrs. Shabeena Beegom K H

Coordinator - Tourism Club and Alumni Association
Class In-charge

Mrs. Asha Jaison

Coordinator – Women’s forum

Mrs. Anitha Mathew

Coordinator – Anti Sexual harassment cell
Class In-charge

Mrs. Suhana. E

Coordinator – Mentoring and Minority Cell
Class In-charge

Mr. Sabjan Yoosef

Coordinator –Sports club and Career guidance & placement cell
Class In-charge

Association Activities

ABOUT COMPASS

Compass, the department association of Computer Science established in the year 2002. It offers continuing education opportunities as well as rewards for competitions and makes it single largest and most effective organization in computer science. The purpose of the association is the scientific and educational direction towards the advancement of the theory and practice of computer science and technology. This would be dedicated to bringing the best minds working in computer science and machinery together. This helps advance their field, exchange ideas, share their experiences, and build career-long relationships and focused on educational opportunities for its members

INAUGURATION

The compass association of this year was inaugurated on 9th June, 2020 by our head of the department. The chief guest for the event was Mrs. Raji S Pillai. She is the Head of the Department of Computer Applications St. Theresa's College (Autonomous), Ernakulam. The felicitation was done by the Principal, Mr. M. N Maheen followed by Assistant Prof. Jithesh K. S and Associate Prof. Hari. G. The forum's action plan was given by Mrs. Shabeena Beegom K. H (Association coordinator) and



the logo of computer association took launch during the inaugural session. The vote of thanks was delivered by Mrs. Asha Jaison (Joint coordinator).

Department Highlights and Events



Convocations

Departmental meetings occur on a consistent basis on every month. **Parent Teacher Association (PTA)** meetings oversee on each semester and **alumni meetings** conveys every year.



Seminar, Webinar and workshops

We conducted seminars for our students that involve new technologies and opportunities to share perspectives and issues related to the IT related and student driven topic.



With a global pandemic taking the world Our department runs live online educational presentation during which participating viewers can submit questions and comments.



We handled customized workshops for students, teachers and support staff that are need for skills and values- based development. Also, Faculty Development Programme (FDP) trained teachers with skills to meet the ever-mounting challenges.



Day observations

We observe various important days and conducted various competitions inside and outside students and award valuable prizes.



Learning partnerships

We directed learning partnership with students such as **peer teaching** which increases learning both for the students being helped as well as for those giving the help. **Remedial teaching** for those who have fallen in their studies or need short-term support in their learning. And **mentor** them to obtain professional and personal development on their life and career



Courses

We offered different courses for academic improvement for the students like **certificate course** and **bridge courses**.



Student based activities

We ensure our student participation of various events like, college celebrations, sports and games, intra and inter collegiate fest and other activities, Online Certificate Course etc.

Department Meetings

Departmental meetings occur on a consistent basis and are going to lead to well-informed and more productive employees. A positive department meeting boosts strengthen relationships and to collaborate, work more efficiently with team members, lowers staff stress, and encourages engaging conversations. What's more is that departmental meetings reinforce the mission, vision, and values.

The department meeting will be held on or before 10th of every month. HOD/HOD in charge will preside over the meeting. Class in charge presenting the report of each class and taking necessary actions on behalf of that. And also maintaining the minutes of the meeting.

Main topics for discussion:

- Students' attendance
- Students' performance in the department activities
- Students' improvements in the examination
- Review of last month's activities
- Plan the activities to be done in this month





Alumni



Parent Teacher Association (PTA)

The Parent-Teacher Association (PTA) gathered each class separately. PTA provides parents and teachers with the opportunity to exchange views, work together with the development of students as well as college. General feedback from parents is sought and elections take place. The Head of the department and all subject teachers represent the college.

Class	Date	Venue	Notice	Minutes
I Year BCA				
II Year BCA				
III Year BCA				
II Year Msc CS	29-07-2020	https://meet.google.com/uht-adhp-zmq	Click here	Click here

National webinar on Artificial Intelligence

The department webinar is organized in association with IQAC of MES College Erumely. It was on 9th June 2020 and the resource person was Mrs. Raji S Pillai. Seminar started at 11:00am. The IQAC coordinator delivered a talk on the importance of webinar on this pandemic situation. There were about 101 participants gained knowledge



MES COLLEGE ERUMELY
(AFFILIATED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM, KERALA)
MES COLLEGE P.O. ERUMELY, KOTTAYAM, KERALA 686509
www.meserumelycollege.ac.in

Date: 9 June 2020
Time: 11AM - 12PM

For enquiries contact,
Betty Joseph (HOD) : - +91 94462 05052
Hari G : +91 94476 13044

| NATIONAL WEBINAR
| ON
| ARTIFICIAL INTELLIGENCE
| ORGANISED BY IQAC & DEPARTMENT OF COMPUTER SCIENCE

RESOURCE PERSON
Mrs. RAJI S PILLAI
HOD,
DEPT. OF COMPUTER APPLICATION
ST. TERESAS COLLEGE, AUTONOMOUS,
ERNAKULAM

REGISTRATION
• All participants are requested to register by the link below on or before 5.P.M(IST), 07 June 2020.
* Details regarding link to the Webinar and password will be communicated to the registered email address by the day of the programme.

<https://forms.gle/e1jrfTJqsBdq6Ymp9> FIND US ON ZOOM

The webinar coordinator Mr. Hari G. introduced the resource person and Mrs. Betty Joseph (HOD, Computer Science Department) welcomed the eminent personalities. Our Principal Mr. Maheen M.N delivered the presidential address and inaugurated the webinar.

The Computer Science department webinar was on the exciting area of AI systems. Mrs. Raji S Pillai (HOD , Department of Computer Applications St. Theresa's College (Autonomous) Ernakulam), an expert in the area , delivered an excellent talk on the subject. She went deep into the subject exploring not only AI, but all the allied disciplines such as Data Mining , Robotics etc. Mrs. Raji's talk covered the historical roots of AI and was really appreciated by faculty, students and all. Her speech was full of real life examples and really motivating for the younger generation. The webinar ended with a query and answer section at 12:15 pm.

[Click to view detailed report](#)

Webinar on “Advanced Computing Trends FY21”

Compass, the department association of Computer Science in association with Internal Quality Assurance Cell MES College Erumely conducted the webinar “Advanced Computing Trends FY21” on 15th december 2020 as a part of the student's orientation, placement and internship programme for the students of Computer science and related.

At the beginning of the session, Mrs. Betty Joseph, the Head of the department, and Mrs Shabeena beegom, teacher convenor welcomed the guest speaker with their kind words and Mrs. Ramadevi, IQAC coordinator gave a brief orientation about the importance of setting goals for learning as well as the core values to be followed for academic achievement. Mrs. Suhana, Programme convenor introduced Architect Binish Moulana, cloud architect at Finastra, Technopark Trivandrum. He is the former faculty of our department.

Binish began his presentation with TechSparks, Future of technology. He elaborated on a brightened future and career. He gave various examples of smart entrepreneurs and the session covered the pros and cons of being a single tasker and multi-tasker, how to keep away from excessive use of social media platforms, and



practical techniques to meet the self-assigned deadlines. He delivered a wonderful presentation of new technology trends like Artificial Intelligence, Machine Learning, Edge Computing, Quantum Computing, Blockchain, Internet of Things (IoT) and more. There were a multifarious group of attendees for the session. Numerous queries were entertained during the session and participants actively involved themselves in gaining insight on how to be productive during the global crisis.

Finally, the session concluded by closing remarks and the vote of thanks extended by the student coordinator Ms. Sangeetha. The good conduct of the session was recognized by the moderator Mrs. Asha Jaison. Overall, the session proved to be very informative and served its purpose. Feedback was collected and the e-Certificate was issued to all participants

[Click to view webinar report](#)

Webinar on Human Rights : A 2020 Perspective

On 16 th December 2020, the Computer science department conducted a webinar on “ Human Rights : A 2020 Perspective”. It is conducted on the occasion of human rights day (10 th December). The resource person was Dr. Jaisy Karingattil , Asst.Professor CSI College for Legal Studies, Kottayam.Online PTA meeting for Degree and MSc students (August 27,28,29 -2020)

- ❖ Sona and Aravind – S/w development- project based seminar

Seminar on Sona and Aravind – S/w development- project based seminar

- ❖ March 29 : Seminar on “How to develop a good software ?” . Resource persons – Ms. Sona Maria Sebastian (Asst. Professor,Dept. of MCA, Amal Jyothy College of Engineering Kanjirapally) Mr. Aravind S. (Software Developer). Both of them are alumniees (BCA 2007-2010 batch)



Seminar on Sona and Aravind – S/w development- project based seminar



Seminar on Make your career in Computer Science and Electronics

- Department of Computer Science and Electronics jointly conducted a webinar on 26th August 2020 titled as “ Make your career in Computer Science and Electronics”. Resource person – Dr. Juby Mathew , Amal Jyothy College of Engineering Kanjirapally.

Students' achievements

- ❖ Ms. Ardra Anil (III year BCA) participated in an international paper presentation competition conducted by Jai Bharath College Perumbavoor.
- ❖ Faculties and students participated in the CSI Convention conducted by MES College Marampally on 31st January 2020.
- ❖ Second year BCA students won the prizes in the competitions Treasure Hunt and Spot Dancing , the event 'ADVAYA' conducted by BCM College Kottayam on 8th February 2020.
- ❖ Second year BCA students participated and won the first and third positions in the event KURUKSHETRA , conducted by Marian College Kuttikkanam on 18th February 2020.

- ❖ II year BCA – Nourin Nazar got second prize in Onappattu –Online Onam celebration by our college

- ❖ First and Second prize in Poster Designing competition conducted by Tourism club of our college . First – Abel Kurien Sajan (I year BCA) and Second prize – Adithya S. (I yr BCA)

Students' achievements - Paper presentation

The students of Dept. of computer science of MES College erumely, under the guidance of Associate Professor Betty Joseph and Assistant Prof. Asha Jaison readily took up the initiative to Paper Presentation event.

Sl.No	Name of Student	Date	International / National / State /College / Dept. wise	Topic	Organized by
1	Ardra Anil	05/02/2020	International	Artificial Intelligence and its Global Risk	Jai Bharath College, Perumbavoor Kerala International Conference on Advanced Innovations in Science & Technology (ICAIST)
2	Ardra Anil	31/01/2020	State	Artificial Intelligence and its Global Risk	MES College Marampally CSI State Students Convention 2020
3	Swaliha P A	10/03/2020	College	Green Cloud Computing	PG Dept. of Commerce, MES College Erumely
4	Fathima Noushad	10/03/2020	College	Big Data	PG Dept. of Commerce, MES College Erumely

Faculty Attended Programmes (In-house & Outside)

- ❖ AICTE sponsored 6 days online short term training programme on “PARADIGM SHIFT IN ASSESSMENT AND EVALUATION PRACTICES FOR ENGINEERING GRADUATES” organized by Amal Jyothi College of Engineering , Kanjirapally from 16 th to 21 st November 2020.
- ❖ March 5-6 : All staff members attended the workshop on “Programme Outcome, Programme specific Outcome and Course Outcome”.

1	April 22	National Webinar on “INTELLECTUAL PROPERTY RIGHTS & PATENTS” hosted by Dr. M.G.R Educational and Research Institute ,Chennai	Participated – Betty Joseph, Shabeena Beegom K H, Suhana E, Anitha Mathew Asha Jaison
2	April 29	NEP Webinar	Participated – Betty Joseph, Shabeena Beegom K H, Suhana E, Anitha Mathew Asha Jaison

1	March 6-7	Workshop on “Programme Outcome, Programme Specific Outcome and Course Outcome” hosted by MES College Erumely	Betty Joseph, Shabeena Beegom K H, Rejoola O M, Sabjan Yoosef, Asha Jaison, Suhana E and Anitha Mathew – (faculties) Participated
2	March 11-13	Online Workshop “ ANDROID APPLICATION INTEGRATION WITH FIREBASE & GOOGLE APPSCRIPT” hosted by Faculty of Technology , RK University ,Rajkot,Gujarat, India	Participated Shabeena Beegom K H (faculty)

March 26	Webinar on “DATA MINING AND APPLICATIONS” hosted by BPC College , Piravom	Participated - Mrs. Betty Joseph and all Second year MSc Computer Science students
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Staff Training Program

- ❖ Training- Moodle(September)- got certificates , Google classroom(June)

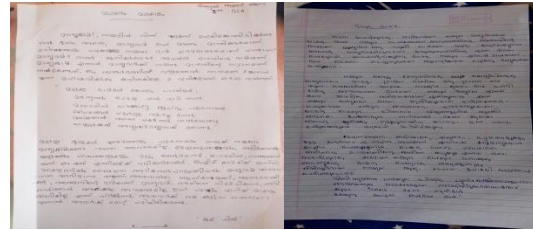



Day observations - world water day

March 22	World Water Day observation – conducted the Poster Designing competition (online) for the students in our college. Third year BCA students planted the plants in pots and exhibit posters in the department notice board .	Winners I Prize : Ajith V A (I Year MCom) II Prize : Vrinda Reji (I Year MSc Electronics)
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Day observations - Language day (Madhuram Malayalam)

- On 21st February (IMLD) , the department observed the day - Short essay competition (online) topic is “Madhuram Malayalam” .
- Sruthy Jayaprakash and Shamjad Mazood Nazar of 3rd year BCA won the prizes(Rs. 200 shared by the winners)



Day observations – Computer literacy day

- ❖ Computer literacy day : On computer literacy day , 2 nd December 2020, department association 'COMPASS' conducted the Brochure Designing and Logo Designing competitions for the students. Mr. Shamjad Mazood Nazer (III year BCA) and Mr. Kevin K R (I year BCA) won the prizes.

Day observations – World Water Day observation

- ❖ March 22 : World Water Day observation : Our department conducted a poster designing competition (online mode) based on the theme 'Valuing Water' on 22 nd March 2021. Also third year BCA students plant some plants in pots and displayed posters in the department notice board and in college premises.



Day observations -

On World Thinking Day (22 nd February) , Mr. Sabjan Yoosef (class in charge of first semester BCA) observed the day by instructed the students to wrote a paragraph about their thoughts of family.

Students' achievements

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- ❖ Swayam courses for BCA and MSc -

DISENO TORRENT (Web Designing competition)

This Web Design Contest is about honoring excellence in the Web profession. This would be conducted as a part of Inter-Collegiate fest “ BUSQUEDA DE TALENTO 2020” on 25 February 2020. The Web Design Contest is to empower the creative, technically proficient & future business-savvy Web professionals within the undergraduate (UG) and postgraduate (PG) student communities. Each winner design received certificates and cash prizes

The best web design projects were considered for their overall experience through focus on aspects such as: content, structure and coding, navigation and user-flow, visual/graphic design, functionality, interactivity, and accessibility.

The Award features the focus group jury to determine the final result.

The Jury is composed of both Academic and Professional participants of faculty heads or professors.

[View Diseno Torrent](#)

Exhibition - CAATRIX

Computer Science department Association ,COMPASS conducted an exhibition named “CAATRIX” as part of the Inter collegiate fest “BUSQUEDA DE TALENTO- 2019” on 25th February 2020. The activity aims at providing a common platform for the students to identify various technologies and to learn the impact of technology in society. Students of the computer science department organized an intra-collegiate exhibition and prepared various models and posters. Prominent among the exhibitions were: topologies in computer networks, internet of things, cloud computing, Arduino and Raspberry Pi boards, Different types of motherboards, old and new generation computer parts

The exhibition was inaugurated by our principal Mr. Maheen M N. Faculties and students from various departments visited the exhibition and have given their valuable suggestions and feedback.

[Click here for more details](#)



SWAYAM Course

- All the students in our department joined in NPTEL online courses like IoT , R programming etc.



Certificate Course conducted





Bridge Course conducted

- Bridge Course 'MS- Office' for students



Peer teaching Classes conducted





Remedial Classes conducted





Mentoring



Dept. innovative teaching learning practices

Teaching and learning innovative practices are introduced to raise the curiosity of a student. The following innovative practices are undertaken by the faculty members of computer science department for improving teaching and learning experience

Best Practices	Outcome
Interdisciplinary Lectures	To aware students with latest relevant technologies in different engineering fields.
Major/Mini Projects	To expand technical Understandings through development in terms of software solutions and hardware implementation for industrial/societal problems. To prepare student to develop live projects with their own.
Student Seminars	The overall objective of this activity is to motivate students for self Study and Group Study.
Communication Skills	To enhance the presentation and speaking skills in group discussion as well as in interview faced by the students.
Content Beyond Syllabus	To meet-out current Industry demand and fill the gap.
Power Point Presentations	To enhance the overall comprehension of students and allow teachers to present their lessons in a more dynamic way. This enhances the students' abilities to retain what is being taught, especially to those who are visual learners.
onlineTutorial	Process of active learning method which improves understanding. To learn and use open source software
Virtual Lab	Exposure of Programming & Lab practices
NPTEL Lectures	To promote self learning and to share knowledge among students
Industrial Visits	To provide students an insight regarding internal working of companies and industries.

Lecture method

- ↪ Hands on experience
- ↪ Project Method
- ↪ Peer-to- peer Learning
- ↪ Student Seminars
- ↪ Assignments
- ↪ Problem Solving Skills
- ↪ Experiential learning
- ↪ Collaborative Learning
- ↪ Audio-Visual presentations through LCD

Result Analysis

No. of students registered:

BCA						MSc CS			
I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem	I Sem	II Sem	III Sem	IV Sem

No. of students appeared:

BCA						MSc CS			
I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem	I Sem	II Sem	III Sem	IV Sem

Total Pass % :

BCA						MSc CS			
I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem	I Sem	II Sem	III Sem	IV Sem

Grade awarded

S A+ A B+ B C D E

I Sem BCA

II Sem BCA

III Sem BCA

IV Sem BCA

V Sem BCA

VI Sem BCA

I Sem MSc CS

II Sem MSc CS

III Sem MSc CS

IV Sem MSc CS



Appendix A

