PROSPECTUS

2018-2019

SCHOOL OF TECHNOLOGY AND APPLIED SCIENCES

CPAS

SCHOOL OF TECHNOLOGY AND APPLIED SCIENCES

A Constituent Unit of Centre for Professional and Advanced Studies,
Kottayam
(Established by Govt. of Kerala)

(Affiliated to Mahatma Gandhi University, Kottayam)

PROSPECTUS

Admission to the P.G Programmes M.C.A/ MSc Computer Science /
MSc Applied Electronics and Choice Based Credit & Semester System (CBCS)
Under Graduate Programmes B.Sc Computer Science/B.Sc Electronics/BSc
CyberForensicsduring 2018–2019

ABOUT US

School of Technology and Applied Sciences (STAS), was established in the year 1993, by the Mahatma Gandhi University. At present, the institution is under the direct administrative control of Centre for Professional and Advanced Studies (CPAS) with three regional centres at Kottayam, Kochi and Pathanamthitta.

The vision of the institution is to equip the students to face global competitiveness and challenges at affordable cost. The mission is to get access to high quality professional education to the less privileged groups of the society at a less expence compared to the private colleges in and around the state. Moreover, the institution is located at three districts of Kerala, with the aim to helpstudents from economically backward families by saving the accommodation charges.

In addition to the breadth and depth of knowledge, STAS is actively involved in conducting seminars, workshops, NSS camps, nature camps etc. so as to develop leaders in technology with social responsibility. No wonder that many of the alumni's of STAS are now in top positions of many MNC's like TCS, Infosys, Wipro, IBM, IBS, UST Global etc. in India and abroad and also some are in the leading roles of various public sector organizations.

MCA

Masters in Computer Applications is a three year (six semesters) P.G degree program in computer applications affiliated to Mahatma Gandhi University. This professional course is designed to meet the growing demand for qualified professionals in IT and other industries. This program covers various aspects of Computational Theory, Programming Languages like C++, Python, Advanced Java, PHP, etc. Operating systems like Linux, Windows and Android, TCP/IP Protocols, Design and Optimization of Algorithms, Network and Database Management, Mobile Technologies, Data Mining, Cloud Computing and many more.Programmer/developer, Software Tester, Systems Analyst, Software Engineer, Software Administratorare some of the posts where MCA graduates are employed.

M.Sc. COMPUTER SCIENCE

This Master's degree program provides training for developing specialized skills in a number of areas such as Network Security, Software Development or Artificial Intelligence equipping the participants to grab opportunities for advanced positions and higher salaried positions in IT and related industries. This Master's degree holder can choose technical research/teaching jobs or various opportunities in the software field.

M.Sc. APPLIED ELECTRONICS

This is a full time two year P.G degree course that provides practical knowledge on how to control the electrons and other atomic particles in Electronic devices. The programme equip the students to handle both analog as well as digital circuits as a fundamental circuiting system in Electronic devices. The syllabus of the course is divided into four semesters, the completion of which will open up immense scope both in career and higher studies. M.Sc. course in Electronics is useful for higher study options like MBA or M.Tech in Electronics. The field of teaching is another attractive option. India Telecom Industries, Civil Aviation, Defence , AIR, India Posts, BEL, DRDO, IT and power sector are other sectors and organizations that employ Electronic degree holders

B.Sc. COMPUTER SCIENCE

A full time three year degree course affiliated to Mahatma Gandhi University. This is the best option for young aspirants seeking a career in Computer Science. The course covers all the aspects of computers right from   the fundamentals to database systems and advanced courses like C++ , Java etc. The main focus of the course is on the theoretical as well as practical foundations of computing. Organizations that are the part of the fast growing IT world of the nation are ever ready to hire young graduates as software testers and developers. Banks and Insurance companies are always eager to employ fresh graduates with computing skills. Opportunities to become teachers, scientific officers, scientific assistants and network operators with both public and private sector establishments can also be explored. Avenues for higher education are numerous.

B.Sc. ELECTRONICS

Bachelor of Science in Electronics is a three year under graduate programme designed to prepare the students to enter the field of Electronics and Communication, Software Planning, System Analysis and Design as Service Engineers, Software Analysts, Technical Directors, Field Test Engineers, Customer Support Engineers, Network Planning Engineers, Electronics and Communication Consultants. Students will come out of this programme with up-to-date knowledge and skills in the field of Electronics. They can either enter promising jobs or pursue higher studies to equip themselves for better jobs. M.Sc. Electronics, Post Graduate Diploma in Electronics are some of the higher studies options. This course is the right opening into the manufacturing service organizations, broadcasting, consulting, entertainment, Data Communication, System Support, Defence, Civil Aviation, Multimedia, DRDO, Telecommunication, IT Dept., Postal Dept. etc. Graduates in Electronics can find good jobs in organizations in government sector such as BSNL, BHEL, ISRO, NTPC and SAIL.

B.Sc. CYBER FORENSIC

This is a full time three year degree course affiliated to Mahatma Gandhi University, on the new area of technology- Cyber Forensic. In order to control the criminal activities in the money transactions, e-commerce, website management, social networking etc., every public/private sector organization require the service of a cyber security expert. Cyber/Computer Forensics or Digital Forensics is the process of extracting information and data from computers while investigating a cyber crime. Experts in Forensic analyze the digital media with the aim of identifying, preserving, recovering and presenting facts and

findings. There is a high demand of forensic experts in the police and vigilance departments, investigating agencies, detective agencies. Opportunities as teachers where criminology is taught is another bright option. The curriculum of the course include, Programming practices in C++,Java, linux ,PHP, ASP.Net, Internet Technology & Cyber Laws, Hands on sessions in Internet Programming & Computer Security Lab Biometric security, Preserving and Recovering Digital Evidence,Ethical Hacking & Digital Forensic Mobile & Wireless Security, Security Threats and vulnerabilities etc.

STAS CENTRES WITH INTAKE

College	Program	Merit & All Reservation Seats admitted by CAP/State Entrance	Seats Admitted by College (Management Quota)	Total Seats
1. School of Technology & Applied Sciences, Pullarikkunnu, Malloossery P.O., Kottayam-686041 Phone: 0481-2392928 E-mail: stasmguktm@gmail.com	a. MCA b. B.Sc. Computer Science c. B.Sc. Cyber Forensics d. BCA *	15 25 15 --	15 25 15 --	30 50 30 --
2. School of Technology & Applied Sciences,Edappally, Cochin-682024 Phone: 0484-2340402, 2334601 E-mail: mgucasedappally@gmail.com	a. MCA b. M.Sc. Applied Electronics c. M.Sc. Computer Science d. B.Sc. Computer Science e. B.Sc. Cyber Forensics d. B.Sc. Electronics e. BCA *	15 10 10 25 19 25 --	15 10 10 25 19 25 --	30 20 20 50 38 50 --
3. School of Technology & Applied Sciences,Pathanamthitta-689654 Phone: 0468-2224785 E-mail: mgucaspta@gmail.com	a. MCA b. M.Sc. Computer Science c. M.Sc. Cyber Forensics * d. B.Sc. Computer Science e. B.Sc. Cyber Forensics	15 15 -- 25 15	15 15 -- 25 15	30 30 -- 50 30

*Courses BCA and MSc Cyber Forensics subject to Government approval.

ELIGIBILITY FOR ADMISSION

Programmes	Duration	Eligibility	Fees Per semester	Selection Process
		UG COURSES		
B.Sc. Computer Science	6Semesters	Pass in Plus Two or equivalent examinations in Science stream with Mathematics/Computer Science as a compulsory subject	Rs. 12,500/-	Allotment for 50% seats by Admission through the University Centralized Allotment Process Allotment for 50% seat will be from the rank list prepared by the CPAS
B.Sc. Cyber Forensics	6 Semesters	Plus two with an aggregate of 50% marks for any three of five subjects viz, physics, Chemistry, Mathematics, Biology or Computer science and Mathematics as compulsory subject with 50% of marks alone.	Rs. 17,500/-	Allotment for 50% seats by Admission through the University Centralized Allotment Process. 50% seat will be from the rank list prepared by the CPAS
B.Sc. Electronics	6Semesters	Pass in Plus Two or equivalent examinations in Science stream with Mathematics, Physics and Chemistry	Rs. 12,500/-	Allotment for 50% seats by Admission through the University Centralized Allotment Process. 50% seat will be from the rank list prepared by the CPAS
BCA	6 Semesters	Candidates shall be required to have passed the Plus Two/equivalent examination in science stream with Mathematics/Computer Science/Informatics Practices as optional	Rs. 12,500/-	Allotment for 50% seats by Admission through the University Centralised Allotment Process. 50% seats will be from the rank list prepared by the CPAS based on merit and reservation

P.G COURSES

M.Sc. Computer Science	4Semesters	B Sc Degree with Mathematics /Computer Science /Electronics as one of the subjects (Main or Subsidiary) or BCA/B.Tech degree with not less than 55% marks in optional subjects	17,500/-	Allotment for 50% seats by Admission through the University Centralized Allotment Process. 50% seat will be from the rank list prepared by the CPAS
M.Sc. Applied Electronics	4Semesters	B.Sc. degree in Electronics/Computer science/Physics with not less than 50% marks /CGPA-2 excluding languages.	17,500/-	Allotment for 50% seats by Admission through the University Centralized Allotment Process. 50% seat will be from the rank list prepared by the CPAS
MCA	6 Semesters	As per the norms prescribed by the Controller of Entrance Examinations, Govt. of Kerala.	18,750/-	Allotment will be from the ranklist prepared by the CPAS based on the marks of entrance examination and the reservation rules are applicable.
MCA Lateral Entry	4 semesters	As per the norms prescribed by the Controller of Entrance Examinations, Govt. of Kerala.	18,750/-	Allotment will be from the ranklist prepared by the CPAS based on the marks of entrance examination and the reservation rules are applicable.
M.Sc .Cyber Forensics	4 Semester	B.Sc Cyber Forensic/ B.Sc Computer Science/ BCA/ B.Sc IT/ B.Sc Electronics/ B.Sc Mathematics/B.Sc Physics with 55% of marks(including language).	22,500/-	50% of total seat(ie, 20 seats of management) is reserved for B.Sc Cyber Forensic students. 50% can be filled by the university through P G Centralised Allotment Process. (Unavailability of BSc Cyber Forensic students to 50% seats, management can consider other qualifications mentioned above.)

Fees structure 2018-19

(Shows the fees including total special fees for three years)

SlNo.	Course	Tuition Fees	Library Fees	Lab Fees	Caution Deposit	Institution Development Fund	CUF	UUF	GAIP	IC	MIF	Student Welfare	Sports	AAF	SAF	Total
1	MCA	18750	1000	3000	1000	1000	400	80	23	50	100	30	200x3=600	1000x3=3000	400	29433
2	BCS	12500	1000	3000	1000	1000	400	80	23	50	100	30	200x3=600	600x3=1800	400	21983
3	BCF	17500	1000	3000	1000	1000	400	80	23	50	100	30	200x3=600	600x3=1800	400	26983
4	BES	12500	1000	3000	1000	1000	400	80	23	50	100	30	200x3=600	600x3=1800	400	21983
5	BCA	12500	1000	3000	1000	1000	400	80	23	50	100	30	200x3=600	600x3=1800	400	21983
6	MSc CS	17500	1000	3000	1000	1000	400	80	23	50	100	30	200x3=600	1000x3=3000	400	28183
7	MSc Electronics	17500	1000	3000	1000	1000	400	80	23	50	100	30	200x3=600	1000x3=3000	400	28183`
8.	M.Sc. Cyber Forensics	22500	1000	3000	1000	1000	400	80	23	50	100	30	200x3=600	1000x3=3000	400	33183

CUF – College Union Fund   UUF- University Union Fund   GAIP – General Accident and Insurance Policy   IC – Identity Card

MIF – Medical Inspection Fees   AAF – Annual Administration Fees   SAF – Student Affiliation Fees

BCS – B.Sc. Computer Science   BCF – B.Sc. Cyber Forensic   BES- B.Sc. Electronics

**Special fee for BCA and MSc Cyber Forensic will be as per Government/CPAS rules.

GENERAL INSTRUCTIONS

1. **Fee once remitted shall not be refunded under any circumstances.** However, the amount shall be refunded to those who discontinue after getting admission, but before the closure of admission. Those who discontinue after closure of admission shall have to pay the tuition fee for the remaining years of study as liquidated damages as per Rules in force. To those who get admission under Government quota, Government rules will be applicable in this regard.

2. Caution deposit shall be returned on completion of the course (After adjusting liabilities if any).

3. Students admitted through CAP of the University and the 50% seats filled by the College have to pay the same fees.

4. **Candidates should submit separate application for each centre of STAS.**

5. **Application form shall be downloaded from www.sme.edu.in or www.cpas.ac.in**

6. **Mode of payment:** All fee payment should be through **State Bank Collect** link provided in the web site. The fee shall be paid using Credit/Debit card or Net Banking or at SBI with the challan generated from the online transaction. The receipt should be attached with the application form.

7. Filled up application along with the fee payment receipt/challan of Rs. 500/- (Rs. 250/- for SC/ST candidates) shall be sent to the concerned centers.