Mandatory Disclosure updated on 05.04.2022.

1. | | | |
|---|---|---|
| AICTE File no. | : | TN-13/ET-MCA/2000 |
| Date & period of last approval | : | 25.06.2021, 2021-22 |
| **Name of the Institution** | : | Madras Christian College (Autonomous) |
| Address of the Institution | : | Tambaram East |
| City & Pin code | : | Chennai – 600 059 |
| State | : | Tamil Nadu |
| Longitude & Latitude | : | 12.91628, 80.122061 |
| Phone number with STD code | : | 044-22390675 |
| FAX number with STD code | : | 044-22391669 |
| Office hours at the Institution | : | 8:30 AM - 1:30 PM |
| Academic hours at the Institution | : | 8:30 AM - 1:30 PM |
| Email | : | principal@mcc.edu.in |
| Website | : | www.mcc.edu.in |
| Nearest Railway station (dist in km) | : | 0.1km. |
| Nearest Airport (dist in km) | : | 12 km. |

2. | | | |
|---|---|---|
| Types of Institution | : | Private Grant-in-aid, Autonomous |
| Category (1) of the Institution | : | Minority (Christian) |
| Category (2) of the Institution | : | Co-Ed |
| **Name of the Organization** | | |
| running the Institution | : | MCC Association |
| Type of the Organization | : | Trust |
| **Address of the Organization** | : | Madras Christian College, Tambaram East, Chennai-59 |
| Registered with | : | Registrar of Companies |
| Registration Date | : | 18.3.1887 |
| Website of the Organization | : | www.mcc.edu.in |

3. | | | |
|---|---|---|
| **Name of the Principal**/Director | : | Dr.P.Wilson |
| **Address of the Principal** | : | Madras Christian College, Tambaram East, Chennai-59 |
| Exact Designation | : | Principal & Secretary |
| Phone number with STD code | : | 044-22390675 |
| FAX number with STD code | : | 044-22391669 |
| Email | : | principal@mcc.edu.in |

Highest degree	:	Ph.D,	
Field of specialization	:	Nano-Materials Chemistry	

4. **Name of the affiliating University** : University of Madras

Address : Centenary Building, Chepauk, Chennai-5.

Website : www.unom.ac.in

Latest affiliation period : from 1993

5. **Governance** :

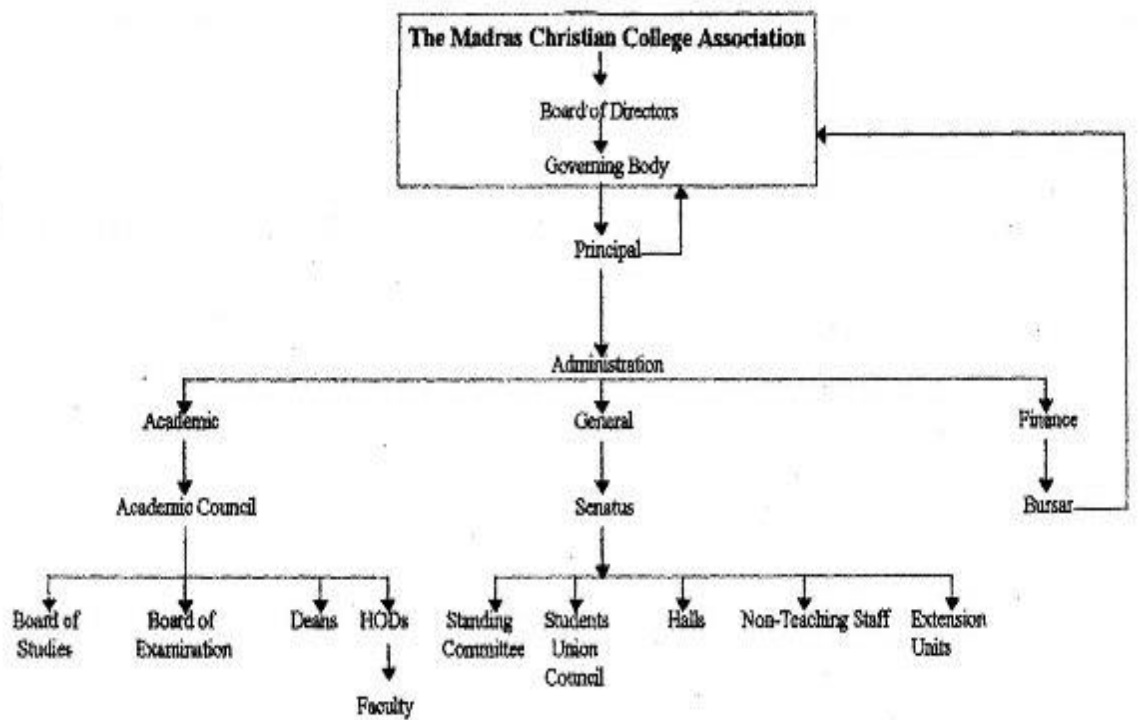| S. No	Name	Educational Qualifications	Position held
1.	Mr K.M. Mammen	M.A., M.B.A.	Industrialist
2.	Ms Shanti Manuel	M.A.	Educationist (Retd Principal)
3.	Dr Ms Adella Paul	Ph.D.	Educationist (Retd Principal)
4.	Dr S. Alfred Devaprasad	M.Sc., M.Phil., Ph.D.	Educationist (CEO, Christ Wood School)
5.	Mr. P C R Suresh		(CEO, Eastern Shepherd International)
6.	Dr. A. Mercy Pushpalatha		Educationist
7.	Dr. Ravi T. Santosham		
8.	Dr P. Wilson	M.Sc., Ph.D., B.Ed.	Principal & Secretary, MCC
9.	Mr. Cyrus Kallupurackal	B.Com., CA	Bursar, MCC
10.	Dr G.J. Manohar	M.A., M.Ed., M.Phil., Ph.D.	Ex-Officio Member

Frequency of meetings and date of
Last meeting : Once in three months; however when there are urgent issues, the board meets frequently. Last meeting was held on 18th March, 2022.

Academic advisory body : Academic Council
Frequency of meetings and date of
Last meeting : Twice in a year, Last meeting was held on 12th July 2021.

Organizational Chart   :


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                    ┌─────────────────────────────────────────┐
                    │  The Madras Christian College Association │
                    │                    ↓                      │
                    │            Board of Directors             │──────────┐
                    │                    ↓                      │          │
                    │             Governing Body                │←──┐      │
                    └─────────────────────────────────────────┘   │      │
                                      ↓                            │      │
                                  Principal ──────────────────────┘      │
                                      ↓                                   │
                              Administration                              │
        ┌─────────────────────────┼─────────────────────────────┐        │
        ↓                         ↓                              ↓        │
    Academic                   General                        Finance     │
        ↓                         ↓                              ↓        │
 Academic Council             Senatus                        Bursar ──────┘
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| Board of Studies | Board of Examination | Deans | HODs | Standing Committee | Students Union Council | Halls | Non-Teaching Staff | Extension Units |

Faculty

Existing Organisational Structure

Student feedback mechanism on Institutional Governance/faculty performance : There is a student feedback mechanism in place for obtaining feedback from the students on Institutional Governance and faculty performance

MADRAS CHRISTIAN COLLEGE

Serving humanity since 1837

An Autonomous College affiliated to the University of Madras
UGC - College with Potential for Excellence
Reaccredited with 'A' Grade by NAAC

ABOUT US ▾   COURSES OFFERED ▾   ADMINISTRATION ▾   OFFICES & CENTRES ▾   STUDENT SERVICES ▾   DEPARTMENTS ▾   GLOBAL REACH ▾

Department of Computer Science

Home
Course structure and Curriculum
Research Collaboration and Projects
International Partnership
Events
Mandatory Disclosure
Faculty
FEEDBACK
GRIEVANCES REDRESSAL

The Department of Computer Science was founded in 1993 to offer the MCA Programme, the first Self-financed course in the college under the pioneering leadership of Dr. (Mrs.). Rani Sironmoney. The hallmark of the Department is its stable, qualified, experienced and committed team of faculty members. The MCA syllabus emphasizes the fundamental principles of Computer Science and is updated regularly according to the needs of the industry, in order to enhance the immediate employability of the students. The department has a well-administered laboratory and a well-stocked library, with a successful track record of placement. With such an academic standing, the Department has educated and trained students consistently to high standards and nurtured them to have excellent social and technical skills to compete with their peers from the best institutions of higher education.

Admission to MCA is based on merit and without any capitation fee/donations from the time of inception till now. The course received the approval of the AICTE in the year 2000. The course content comprises of the foundational subjects of Computer Science, Programming languages and Elective subjects that are upgraded according to the emerging trends in IT which enhance the immediate employability of our students.

From the year 2009, the department has a collaborative staff-student research which has expanded the department's impact not only in the IT industry but also into the area of research. The department has entered into an International map by offering course to International students from 2017. Thus the department is continuing to have sublime success by the grace of God and the continuous dedicated work of the staff and the students of the department.

Programme Offered:MCA, 3 Years (6 Semesters), Time: 8.30 am to 1.30 pm

www.mcc.edu.in/index.php/departments/self-financed/computer-science-mca

Grievance Redressal mechanism for Faculty/Staff :   There is a grievance redressal committee of the college to deal with issues pertaining to faculty and staff.

Madras Christian College (Autonomous)
Tambaram East, Chennai – 600 059, India

UGC - College with Potential for Excellence. Reaccredited with 'A' Grade by NAAC

P. Wilson
Ph.D. (IIT), M.Sc., B.C.S., B.Ed.
Principal & Secretary

2239 6772, 2239 0675
2239 4352, 2239 8169
98406 22438
principal@mcc.edu.in
principalmcctam@gmail.com
wilson@mcc.edu.in
www.mcc.edu.in

March 31, 2021

CERTIFICATEON GRIEVANCE REDRESSAL COMMITTEE (GRC) FOR FACULTY/STAFF

This is to certify that the Madras Christian College (Autonomous) has a Grievance Redressal Committee. The constitution of Grievance Redressal Committee(GRC) for Faculty/Staff is given below:

Chairman	The Principal
A Senior Professor of the affiliating University/ State DTE	University Nominee
A Senior Faculty Member of the College	Dean of Humanities
A Senior Faculty Member of the College	Dean of Sciences

The head of department or unit concerned with a grievance will be included as a co-opted member of the committee.

P. Wilson
Principal

Grievance Redressal mechanism for Students : There is a grievance redressal cell in each department to deal with the grievances of the students.

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Principal & Secretary

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2239 4352, 2239 8169
98406 22438
principal@mcc.edu.in
principalmcctam@gmail.com
wilson@mcc.edu.in
www.mcc.edu.in

March 31, 2021

CERTIFICATE ON STUDENT GRIEVANCE REDRESSAL COMMITTEE (SGRC)

This is to certify that the Madras Christian College (Autonomous) has a Grievance Redressal Committee. The constitution of the Student Grievance Redressal Committee (SGRC) is given below:

Chairperson	The Principal
A Senior Faculty Member of the College	Dean of Student Affairs
A Senior Woman Professor of the College	Dean of Women Students
A Senior Faculty Member of the College	Dr N Kanikkaraju, Assistant Professor, Department of Tamil (Aided Stream)
A Student Representative (Special Invitee)	Ms P. Suguna (ST), I M.A. Tamil, 2020-2022 Batch

The head of department or unit concerned with a grievance will be included as a co-opted member of the committee.

P. Wilson
Principal

Serving humanity since 1837

Establishment of Anti Ragging Committee

Madras Christian College (Autonomous)
Tambaram East, Chennai - 600 059, India

UGC - College with Potential for Excellence. Reaccredited with 'A' Grade by NAAC

P. Wilson
Ph.D. (L.), MSc., H.C.S., B.Ed.
Principal & Secretary

18th October 2021

NOTICE

ANTI-RAGGING COMMITTEE
(2021–2022)

Dr D. Meshak, Assistant Professor of Tamil, Aided Stream, Madras Christian College, is the Convener of the Anti-Ragging Committee of the College. In the light of various Government regulations and Supreme Court decisions, the issue of ragging is viewed very seriously. New-comers to the College are advised to meet their respective Heads of Departments/Wardens (if residents), or any one of the following members of the Committee whenever they have problems in this regard.

Members of the Anti-Ragging Committee

Aided Stream

S.No.	Name	Department
1.	Dr M. David Wesley	English
2.	Mr T. Sebulon Prabu Durai	Tamil
3.	Dr P. Jayapradaban	History
4.	Mrs R. Vidya	Political Science
5.	Dr V. Vijay Devanesan	Public Administration
6.	Dr S. Ramakrishnan	Economics
7.	Dr S. Segar	Philosophy
8.	Dr V. Muthukumar	Commerce
9.	Dr S. Sudharsan	Social Work
10.	Mrs A. Jyothi Salomi Tsapa	Mathematics
11.	Dr S. Joshua David	Statistics
12.	Dr J. Joseph Jeremiah	Physics
13.	Dr N. Prabhu	Chemistry
14.	Dr B. Babu	Plant Biology & PBT
15.	Mrs Adline Jennefa Daniel	Zoology

....2

Self Financed Stream

16.	Mr Christopher Charles	Computer Science
17.	Mr G. Joseph	Commerce
18.	Mr Tony Thomas	Business Administration
19.	Mr Baala Manikandan	Visual Communication
20.	Dr (Ms) K. Kavitha	Microbiology
21.	Ms S. Prathiba	Mathematics
22.	Dr S. Wilfred Prasanna	Physics
23.	Mr F. Amaladoss Robinson Jebakumar	Physical Education
24.	Mr Jyothish Sebastian	Geography
25.	Mrs G. Shobana	Computer Application
26.	Dr A.K. Abinesh	Journalism
27.	Mrs Deborah Raj	Communication
28.	Mrs M. Thendral	Social Work
29.	Dr S. Daniel Abraham	Chemistry
30.	Mrs M. Indumathi	English

Associate Conveners

Dr P. Yesudoss (Security Liaison Officer)
Mrs J. Jeyarathi (For Women)

Coordinators

St Thomas's Hall	Mr P. Chidambaranathan
Bishop Heber Hall	Mr Abhishek Krishnamoorthy
Selaiyur Hall	Dr S. Segar
Martin Hall	Ms Liya Elsa Stephen
Margaret Hall	Dr (Ms) K. Kavitha
Barnes Hall	Dr M. Aulice Scibioh

P. Wilson
Principal

Establishment of Online Grievance Redressal Mechanism:

https://www.aicte-india.org/feedback/students.php

Student Id:	Student Id
Name:*	Student Name
Gender:*	- Select Gender -
Aadhaar No:*	Aadhaar Number
Mobile No:*	Mobile Number
Primary Email Address:*	Primary Email Id

Basic Details of Institute
Click here to Search your college

AICTE Permanent Id:*	
Institute Name:*	Institute Name
Institute State:*	Institute State
Institute Address:*	Institute Address

Proceed Further   Back

Note: The identity of the student will not be revealed to the institute and will be kept confidential in the record of AICTE only. However any falsification in the above details will be viewed seriously by AICTE

Establishment of Internal Complaint Committee:

Madras Christian College (Autonomous)

Tambaram East, Chennai – 600 059, India

UGC College with Potential for Excellence. Reaccredited with 'A' Grade by NAAC

P. Wilson
Ph.D.(IIT), M.Sc., B.C.S., B.Ed
Principal & Secretary

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2239 4355, 2239 8169
98406 22438
prinicipal@mcc.edu.in
principalmcc@gmail.com
wilson@mcc.edu.in
www.mcc.edu.in
CIN U80904TN1937GAP005379

F.No.122/ICC-MCC/2021 2022/002   17th August 2021

INTERNAL COMPLAINTS COMMITTEE (2021-2022)

In accordance with the UGC (Prevention, Prohibition and Redressal of Sexual Harassment of Women Employees and Students in Higher Educational Institutions) Regulations, 2015, the College has constituted an Internal Complaints Committee (ICC) comprising of the following Members for the academic year 2021-2022:

1. Dr (Mrs) Vijayakumari Joseph (Presiding Officer)
2. Prof. R. Sridhar
3. Dr (Mrs) N. Jeyaselvi
4. Mrs G. Deborah
5. Mr John Rajkumar Devanboo
6. Three Students, if the matter involves students:
   - General Secretary, Non-Residents Women Students' Forum
   - Women's Convener, College Union Society
   - Mr Cheriyan Ebenezer (Ph.D. Scholar)
7. Mrs Sheila Jayaprakash (Advocate)

In case of any incidents of harassment, your complaints may kindly be brought to the notice of the Presiding Officer of the Committee (icc@mcc.edu.in) in writing. The Presiding Officer will address the issue in compliance with the law of the land in force.

P. Wilson
Principal

Establishment of Committee for SC/ST :

Madras Christian College (Autonomous)
Tambaram East, Chennai – 600 059, India

UGC College with Potential for Excellence, Reaccredited with 'A' Grade by NAAC

Phone: 2239 6772, 2239 0675
2239 4332, 2239 8169
98406 22438
Email: principal@mcc.edu.in
principalmcctam@gmail.com
wilson@mcc.edu.in
www.mcc.edu.in

P. Wilson
Ph.D. (IIT), M.Sc., B.G.S., B.Ed.
Principal & Secretary

March 31, 2021

CERTIFICATE ON COMMITTEE FOR SC/ ST

This is to certify that the Madras Christian College(Autonomous) has a Committee for SC/ST. The constitution of the SC/ST Committee is given below:

Chairperson	The Principal
Faculty Member	Dean of Student Affairs
Women Member	Dean of Women Student
Member from SC/ST	Dr N. Kanikkamju, Assistant Professor, Department of Tamil (Aided Stream)
Member from SC/ST	Dr S. Kalyani Assistant Professor, Department of Public Administration (Aided Stream)

P. Wilson
Principal

Serving humanity since 1937

Internal Quality Assurance Cell :

MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)

IQAC COMPOSITION 2020-2022

Composition of IQAC	Name & Designation
Chairperson	1. Dr. P. Wilson Principal & Secretary
Senior Administrative Officers	2. Dr. D. Roop Singh, Director, SFS 3. Dr. S Ravi Shankar, Controller of Examinations i/c 4. Dr. T. Robinson, Dean, Research & Development 5. Dr. (Mrs.) Thomas Rosy, Dean, International Programmes 6. Mr. Cherian Raju, Estate Manager
Teachers to represent all level (Three to eight)	7. Dr. James Kurian, Dean of Humanities 8. Dr. (Mrs.) E. Joyce Sudandara Priya, Dean of Sciences 9. Dr. B. Prince Solomon, Dean of Students Affairs 10. Dr. (Mrs.) Florence John, Dean of Women Students 11. Dr. (Mrs.) Miriam Samuel, HOD of Social Work (Aided) 12. Mrs. Miriam Kalpana Simon, Assistant Professor, Department of Statistics
One member from Management	13. Mr. Cyrus Kallupurackal, Bursar
One nominee each from local society, students and Alumni	14. Mr. P.W.C. Davidar, I.A.S. (Retd.) 15. Student Representative 1 - Mr. Shanmukha Sai (III MCA) 16. Student Representative 2 - Mr. A. Samraj (III BCA) 17. Alumnus: Dr. Alex Pulikottil, Indian Oil Corporation
One nominee each from Employers/Industrialists/Stakeholders	18. Mr. Vignesh Paramasivam, Assistant Manager – HR (Lead Campus Recruitment – Tamil Nadu & Pondicherry), TCS Ltd. 19. Mr. Sundar Manohar, Director General, PDEU Ahmedabad 20. Dr. C. James, Associate Professor., Dept. of Physics, Scott Christian College (Autonomous), Nagercoil
One of the Senior teachers as the Coordinator/ Director of the IQAC	21. Mrs. G. Johanna Johnsi Rani, Coordinator, IQAC

PRINCIPAL
MADRAS CHRISTIAN COLLEGE
TAMBARAM.

6. **Name of program approved by AICTE**:   MCA

    Name of the Department   :   Computer Science

    Duration   :   2 years

    Level   :   PG

	2019	2020	2021
Year wise sanctioned intake	30	30	30
Year wise actual admissions	26	28	29
Cut off marks-General quota		18.75	
Fees	38,000 /-	44,600 /-	44,600 /-
Students placed	25	15	18
Average pay package	Rs 2,70,000	Rs 2,70,000	Rs 3,00,000

    Students opted for higher studies   :   0

    Accreditation status of the course   :   AICTE approved

7. **Faculty**

    Name of program approved by AICTE: MCA

    No. of Permanent Faculty   :   6

    Permanent Faculty Ratio   :   6:60

    Number of Faculty employed and left

    during the last three years   :   Nil

8. **Profile of Principal and Faculty**

    Name of the Principal   :   Dr.P.Wilson

    Unique ID   :   1-9494219404

    Educational Qualification   :   M.Sc., Ph.D., B.Ed.

    Designation   :   Principal & Secretary

    Department   :   Chemistry

    Date of joining the Institution   :   14.06.2004

Highest degree	:	Ph.D,
Total Experience in years	:	Teaching -23, Research - 28
Area of Specialization	:	Nano-Materials Chemistry

Name of Teaching staff	:	Dr. Minnie D.
Unique ID	:	1-9443806541
Educational Qualification	:	MCA, Ph.D.
Designation	:	Associate Professor and Head
Department	:	Computer Science
Date of joining the Institution	:	20.06.1994.
Total Experience in years	:	30 years
Area of Specialization	:	Data Science
Courses taught (UG/PG)	:	Data Mining, Artificial Intelligence, Object Oriented Programming, Java, C++, C#
Papers published	:	14 (International – 13, National - 1)
Papers presented in conference	:	7 (International – 6, National – 1)

Name of Teaching staff	:	Dr. Feminna Sheeba
Unique ID	:	1-493004427
Educational Qualification	:	MCA, Ph.D.
Designation	:	Associate Professor
Department	:	Computer Science
Date of joining the Institution	:	27.07.1995.
Total Experience in years	:	31 years
Area of Specialization	:	Digital Image Processing, Data Structures & Algorithms
Courses taught (UG/PG)	:	Digital Image Processing, Object Oriented Programming using C++
Papers Published	:	21 (International - 19, National - 2)
Papers presented in conference	:	10 (International - 8, National - 2)

Name of Teaching staff	:	Dr. Johanna Johnsi Rani G.
Unique ID	:	1-493079993
Educational Qualification	:	M.C.A., M.S., M.Phil, Ph.D.
Designation	:	Associate Professor

Department	:	Computer Science
Date of joining the Institution	:	20.09.1993.
Total Experience in years	:	34 years
Area of Specialization	:	Natural Language Processing, Digital Humanities
Courses taught (UG/PG)	:	Software Engineering, UI-VX Design, NLP, FOSS, Software Proj. Mgmt & Testing
Papers published	:	12 (International - 11, National - 1)
Papers presented in conference	:	15 (International - 10, National - 5)
Professional Membership	:	ISTE Indian Society for Technical Education
Name of Teaching staff	:	Mr. Christopher Charles
Unique ID	:	1-493080121
Educational Qualification	:	MCA
Designation	:	Associate Professor
Department	:	Computer Science
Date of joining the Institution	:	05.10.1998.
Total Experience in years	:	22 years
Area of Specialization	:	Database Programming, Web Programming
Courses taught (UG/PG)	:	DBMS, Cloud Computing, Web Programming

Name of Teaching staff	:	Ms. Felicia Rajathi P
Unique ID	:	1-493080518
Educational Qualification	:	MCA
Designation	:	Assistant Professor
Department	:	Computer Science
Date of joining the Institution	:	07.09.2009.
Qualification with class/ Grade	:	M.C.A. / First Class
Total Experience in years	:	12 years
Area of Specialization	:	Digital Image Processing, Android Application Development
Courses taught (UG/PG)	:	Android Application Development, Big Data Analytics, Advanced Java Programming

Name of Teaching staff	:	Ms. Shiny Priyadarshini J
Unique ID	:	1-493080514
Educational Qualification	:	MCA, Ph.D
Designation	:	Assistant Professor
Department	:	Computer Science
Date of joining the Institution	:	11.01.2010
Qualification with class/ Grade	:	M.C.A. / First Class
Total Experience in years	:	12 years
Area of Specialization	:	Digital Image Processing
Courses taught (UG/PG)	:	Internet of Things, .NET
Papers published	:	8 (International - 8)
Papers presented in conference	:	5 (International – 4, National - 1)

9.   Fees

| Fees in rupees | : | Rs 38,000 /- |

10.   Admission

1ST year of approval by the council	:	2001
Number of seats sanctioned	:	30
Admission quota	:	70 % Management (Minority institution), 30% Counseling

	2019	2020	2021
Number of Students admitted under Management Category	21	21	21
Number of Students admitted through Counselling	9	8	9

Number of Students applied (2020)	:	293
Number of Students applied (2021)	:	643
Cut off/ last candidate admitted	:	5.5

11.   Admission Procedure

| Name of Admission test being followed | : | TANCET |
| Number of seats allotted to different test qualified candidate separately (CET) | : | |

Last date for request for Application :

Last date for submission of Applications :

Dates for announcing final result :

Release of Admission list :

Date for acceptance by candidate :

Last date for closing Admission :

Starting of the Academic year :

Policy of refund of Fees :

12. Criteria and Weightages for Admission

Describe the criterion with its respective weightage :

Mention minimum level of acceptance :

Cut-off levels of percentage for the last three years :

	2019	2020	2021
Cut-off Percentage			

Marks scored in test and aggregate :

13. List of Applicants

List of candidate whose applications have been received along with percentile/percentages core for each of the qualifying examination in separate categories for open seats. List of candidate who have applied along with percentage and percentile score for Management quota seats (merit wise)

14. Results of Admission under Management seats/ Vacant seats

Composition of selection team for admission under Management Quota with the brief profile of members (This information be made available in the public domain after the admission process is over)

Score of the individual candidate admitted arranged in order or merit

List of candidates who have been offered admission

Waiting list of the candidate in order of merit to be operative from the last date of joining of the first list candidate

List of the candidate who joined within the date, vacancy position in each category before operation of waiting list

15. **Information of Infrastructure and other Resources available :**

Number of Class rooms and size of each : 2 Nos., 100 m^2

Number of Tutorial rooms and size of each : 1 Nos., 100 m^2

Number of Laboratories and size of each : 1 No., 186 m^2

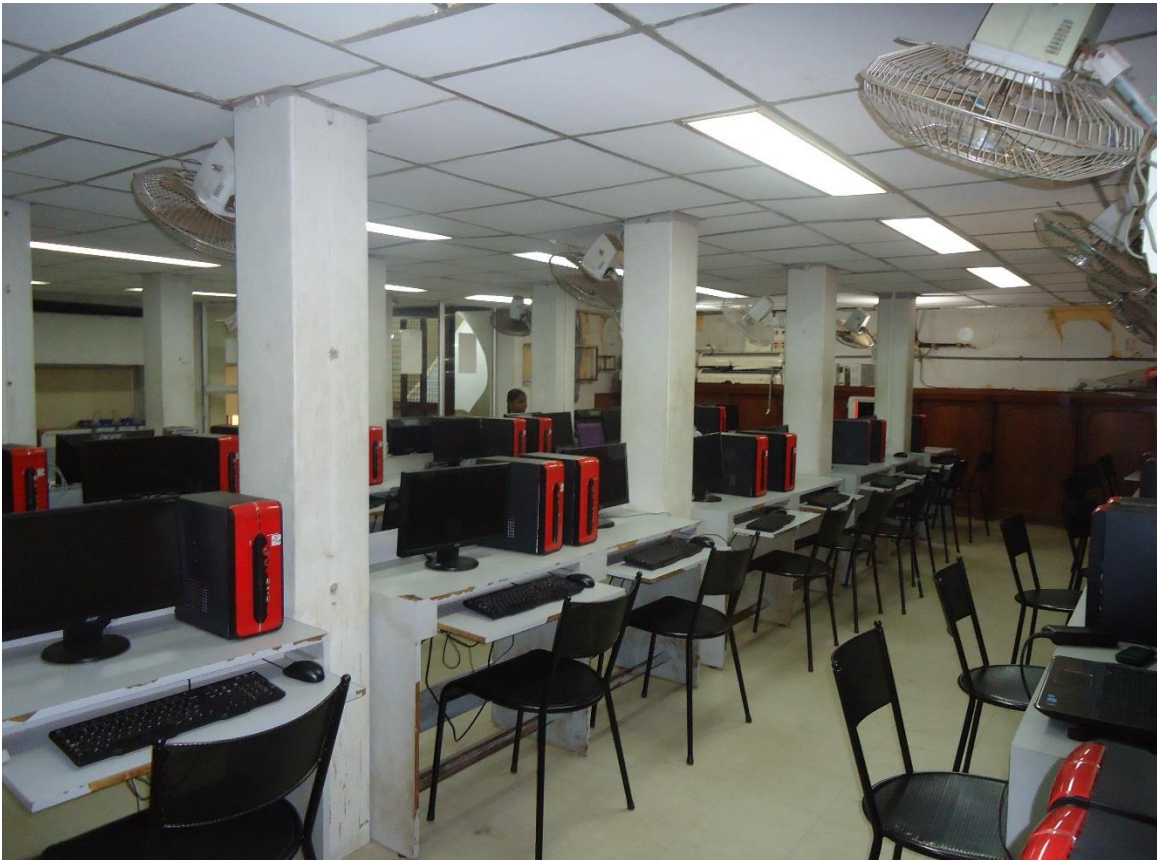Number of Computer Centres with capacity : 1 No., 35 Nos.

Central Examination Facility, Number of rooms, and capacity : 2 Nos., 2048 m^2

Class room

Class room

Laboratory

Laboratory

Computer center facility

Barrier free Environment for Disabled and Elderly :

V.G. Sundar, B.Arch.,
Architect

A 20 Anna Nagar East
Chennai - 600 102

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Madras Christian College located at East Tambaram Chennai Tamilnadu has provided access for all their physically challenged students, staffs and workers to the main buildings inside the college premises. Ramps with a gentle gradient and necessary handrails have been provided specially for physically challenged. One of the hostel buildings inside the college premises has been attached with a toilet specially designed & constructed for the physically challenged.

On inspection I observed all this.

V.G. SUNDAR, B. arch.,
ARCHITECT
Reg. No: CA/85/9395
A-20, Anna Nagar East,
Chennai-600 102.
Mobile: 9715799971

40

Fire and Safety Certificate :

TAMILNADU FIRE AND RECUE SERVICES
FIRE SERVICE LICENCE
(Under section 13 of the Tamilnadu Fire Service Act 1985 read with
Tamilnadu Fire Service Rules 1990 Appendix III)

LICENCE NO: 5042/B1 /2020   DATE: 14 / 07/2020

      Licence is hereby granted under section 13 of the Tamilnadu Fire & Rescue Service Act. 1985 for Selling/Storing/Processing/Pressing/Transporting ofthe works/Crackers/Petrolium items/LPG.Gas cylinders/Explosives/Other items (Mention whichever is applicable) **Running a " Educational Institution "**(Ground +First Floor Only),within the jurisdiction of Chennai Corporation at the Premises at **Door.No.333B(A)&195.VELACHERY MAIN ROAD** Street/Road.CHENNAI Taluk/Town **EAST TAMBARAM, CHENNAI-600 059.** District **CHENNAI.** Subject to the conditions noted thereon and such other conditions as may be prescribed.

      The above Premises Inspected by **Thiru.G.RANGANATHAN,** Station Officer(SWII) on.10.07.2020.

CONDITIONS
As per col. 13 of appendix V to the Rules under section 13 of the Act.
1. This Licence is valid for One year from the date of issue.
2. Regular Licence has to obtained from the competent authority.
3. If ther is any deviadion from the Govt.Rule and Act the Licence issued will stand cancelled.
4. All the Extinguishers have to be recharged and maintained periodically as per code practice 2190/2010.
5. Periodical maintenance should be ensured to keep all fire protection equipments and system always in good working condition.
6. Trained fire Personnel should be available to operate the systems in case of any emergency.
7. National building code-2016,Fire&Life safety Part-IV Should be followd.
8. Fire Drill should be conduct as per NBC-2016.

OfficeSeal

1 4 JUL 2020

DISTRICT OFFICER
FIRE AND RESCUE DEPARTMENT
CHENNAI SOUTH
TEYNAMPET,CHENNAI-600 006.

To,

M/s.MADRAS CHRISTIAN
     COLLEGE(Autonomous),
D.No.333B(A)&195,VELACHERY
-MAIN ROAD,EAST TAMBARAM
CHENNAI-600 059.

STATEMENT ACCOMPANYING FORM 'A'

1.	Name of the Building	:	Part of Arts Block Building Building No.44, MCA Department MCC Tambaram
2.	Location, (Street No. Ward No Municipality/ Panchayat)	:	Ward 'H' Block I Selaiyur Village, 333-8/1 A2 Tambaram East, Chennai – 600059
3.	Year of Construction	:	Dedicated on 30.01.1937
4.	Approximate cost of Construction	:	Not Known
5.	Purpose for which the building is being used	:	As Educational Institution Madras Christian College, Tambaram
6.	Purpose for which the building has hitherto been used	:	-Do-
7.	Details of construction of the building (Particulars of the foundation soil, Specification of the various s parts under)	:	
1)	Foundation	:	Brick Masonry 4' Deep in lime mortar
2)	Basement	:	Brick Masonry in lime mortar
3)	Superstructure	:	Double storey building. Brick Work With lime mortar 2' thick wall
4)	Floor and roof area	:	GF area: 251 SM, FF Floor area: 251 SM Roof area: 291 SM
8.	Period for which license is required to be given	:	3 years
9.	Total Plinth area	:	251 SM (GF) 251 SM (FF)
10.	Total carpet area	:	186 SM (GF), 152 SM (FF)
11.	No.of Persons to be accommodated	:	100

Certified that no addition or alteration has been made to the existing building or portion of a building for which this application has been made. I undertake to obtain a fresh license in case any addition of alteration is made to the existing building or portion of building. I also undertake to obtain a fresh license. If the purpose of building, for which the license was granted for the use of the building or a portion of the building originally is changed or altered subsequently.

Hostel Facilities

Hostel for Men   :   3

Hostel for Women   :   3

Bishop Heber Hall

Selaiyur Hall

St.Thomas Hall

Margaret Hall

Martin Hall

Library

Number of Library books, Titles and Journals

AICTE 2020
Department of Computer Science

S. no	Particular	Central Library	Computer Science
1	No. of Titles	84,750	1797
2	No. of Volumes	1,82,644	11908
3	No. of National Journals	140	6
4	No. of e-Book Titles	35,00,000+	5800
5	No. of e-Book Volumes	40,00,000+	17857
6	No. of International Journals	20	4
7	Name of e-Journals Subscription Available	24,587 List Attched	EBSCO, N-LIST, Delnet
10	Library Networking	Yes	
11	Reprographyic Facility	Yes	
12	No. of Multimedia Pc's	29	
13	Reading Room Seating Capacity	600	
14	Bar Code / RFID	Yes	
15	Library Management Software	Yes	

Library

Library

E-Library Facility

National Digital Library (NDL) Subscription details

Ministry of Education
Government of India

Indian Institute of Technology
Kharagpur

National
Digital Library
of India

CERTIFICATE OF REGISTRATION

This is to certify that "**Madras Christian College**" is registered as a NDLI Club under the National Digital Library of India.

Registration Number:
INTNNC38N2R3WOJ
Date Of Registration: 05/08/2021
Valid Upto: 05/08/2022

पार्थप्रतिम दास

Dr. Partha Pratim Das
Joint Principal Investigator
National Digital Library of India Project
Indian Institute of Technology
Kharagpur

NDLI CLUB PARTNER

National
Digital Library
of India

- LEARN. SHARE. GROW. -
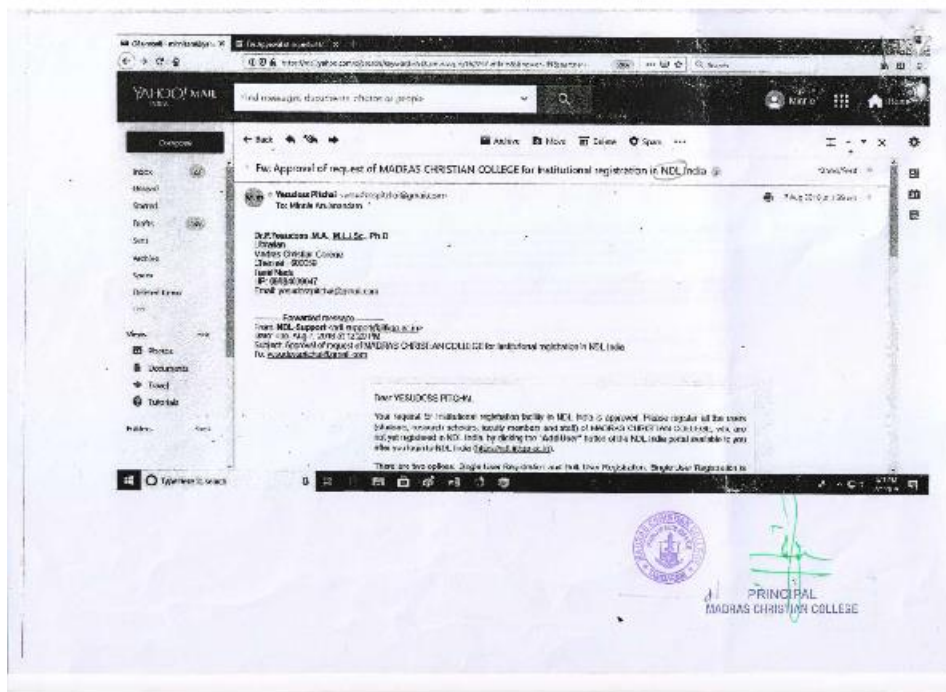
Computing Facilities

Internet Bandwidth   :

Number and Configuration of Systems :   47

Sl. No.	Description	Quantity
1.	Windows Server - IBM Server X3400 M3 Tower 2U 7379IRS - IBM Server 500 GB Hard Disk - 18.5" Acer LED Monitor	1 No.
2.	Windows Server - Intel Xeon Processor 3.0 GHz - 2 GB Server RAM - 1 TB SATA Seagate Hard Disk - 18.5" Acer LED Monitor	1 No.
3.	Work Station - Intel Core i7 Processor - Acer LED 18" Monitor - 4GB DDR3 RAM - Seagate 1 TB HDD SATA	7 Nos.
4.	Student Work Station - Core i5 7th Gen Processor - Acer 18" LED Monitor - 8 GB RAM, - 1TB SATA HDD	35 Nos.
5.	Laptop - Dell - 256 MB DDR RAM - 80 GB Hard Disk - 1 GB DDR Memory	1 No.
6.	Laptop – Dell - - 256MB DDR SDRAM - 40 GB HDD ATA/ - 24X CDRW-DVD Combo - 14" WXGA TFT Display	1 No.
7.	Laptop - Dell Inspiron 15 3542 - Intel i7 5th Generation - 8 GB DDR3 RAM, - 1 TB HDD, DVD RW	1 Nos.

Total number of system connected by LAN   :   45

Total number of system connected by WAN   :   10

Major software packages available   :

Sl. No.	Description
1.	Microsoft Office 2016 and 2019
2.	Microsoft Windows 10 Professional
3.	Windows Server 2012 R2 Standard
4.	Windows Server 2016 Standard
5.	Windows Server 2019 Standard
6.	SQL Server 2017 Enterprise Edition
7.	Visual Studio Professional 2017
8.	Visual Studio Professional 2019
9.	Flash Pro CS3 IE WIN AOO
10.	Photoshop Extended CS3 9 IE WIN AOO
11.	Dreamweaver CS3
12.	Kaspersky End Point Security
13.	Ubuntu 12.04
14.	Eclipse 1.5.1
15.	WAMP Server 3.0 64 Bit
16.	Android Studio 2.3.2
17.	Anaconda 4.3.01
18.	Python IDLE
19.	Drupal 8.7.5
20.	Apache Tomcat 6.0

21.	Notepad++

Special purpose facilities available (Conduct of online Meetings/Webinars/Workshops, etc.)

Facilities for conduct of classes/courses in online mode (Theory & Practical)   :

March 31, 2021

CERTIFICATE ON ONLINE MEETINGS, WEBINARS, CLASSES AND EXAMINATIONS FACILITIES

This is to certify that the Madras Christian College (Autonomous) is Wi-Fi enabled (UniFi Ubiquiti UAP-AC-M-PRO - speed up to 1750 Mbps) and all the online meetings are conducted through Zoom platform account secured for the college and maintained by IQAC Media.

Online teaching- learning is executed through Google classroom by faculty of all the departments. All the faculty members of the college were offered training coordinated by Head, Department of Computer Science, on conducting virtual classes through Google Classrooms, followed by an FDP on E-Content development by IQAC on August 10-13, 2020.

Online examinations and evaluations are planned, monitored and executed under the control of the Controller of Examinations, MCC.

P. Wilson
Principal

Innovation Cell

Social Media Cell

List of facilities available

Games and Sports Facilities

Sports Facilities

Sports Facilities

Gymnasium facilities

Extra-Curricular Activities :

Soft Skill Development Facilities :

(ii-b) Social studies or Gender studies for all other I UG students in Semester II.

Part V – **Extension Activities -** It is mandatory for students to take part in any of the following extension activities – Service Learning - Physical Education/ Department Association Activities / NCC / NSS / Sport for All (SFA) / Scrub Society.

57

Students must register for the following courses, as applicable, a week before the re-opening of the semester. No changes will be entertained after the students register their choice of subject.

I UG	I&II Semesters	General Course
I UG	I&II Semesters	Value Education
II UG	III Semester	Allied Course
II UG	IV Semester	Inter- Disciplinary Elective
III UG	V Semester	General Elective
I PG	II Semester (Science)	Soft Skill Programme
II PG	II Semester (Arts)	Soft Skill Programme

NCC

Those who join must continue for three years. Incentives for Cadets:

1. Bonus marks for higher studies and Government jobs.

Teaching Learning Process

Curricula and syllabus for each of the Programmes as approved by the University

Academic Calendar of the University

Academic Time Table with the name of the Faculty members handling the Course

MCA Odd Semester Time Table 2021-2022 with added lab staff

Hour Day Order	1 8.30 – 9.25	2 09.25 – 10.20	3 10.20 – 11.15	B R E A K	4 11.40 – 12.35	5 12.35 – 1.30	6 1.30 – 2.10
1	DSA.FS ASE.GJ FOSS Lab.DM&JS	DSA.FS ASE.GJ FOSS Lab.DM&JS	CC.CC BDA.FR FOSS Lab.JS&DM		CC.CC CFS.JS NLP.GJ	FOSS.FS Mob Lab.FR&CC IOT.JS	Mob Lab.FR&JS
2	DSA Lab.FS&GJ CC.CC BDA.FR	DSA Lab.FS&GJ CC.CC IOT.JS	DSA Lab.FS&JS BDA.FR SD Lab.GJ&DM		OOP.DM SOFT SKILL.FS SD Lab.GJ&CC	OOP.DM SOFT SKILL.FS SD Lab.GJ&CC Soft Skill.FR Allied.JS	
3	DBMS.CC Mob Lab.FR&FS NLP.GJ Allied.JS	DBMS.CC Mob Lab.FR&FS DS-AI.DM Allied.JS	DSA.FS BDA.FR DS-AI.DM		RDBMS Lab.CC&FR ASE.GJ IOT.JS	RDBMS Lab.CC&FR DIP.FS IOT.JS	
4	DSA.FS DAPP Lab.FR&CC DS-AI.DM	FOSS.GJ DAPP Lab.FR&CC DS-AI.DM	CC.CC DAPP Lab.FR&FS IOT.JS		CC.CC ASE.GJ FOSS Lab.JS&DM	OOP.DM DIP.FS FOSS Lab.JS&FS	
5	DBMS.CC SD Lab.FS&GJ DS-AI.DM Allied.JS	DBMS.CC SD Lab.FS&DM BDA.FR	FOSS.GJ SD Lab.FS&DM BDA.FR		RDBMS Lab.CC&JS BDA.FR NLP.GJ	RDBMS Lab.CC&FR CFS.JS NLP.GJ	CFS.JS
6	C++ Lab.DM&FS CFS.JS NLP.GJ	C++ Lab.DM&GJ DIP.FS BDA.FR	C++ Lab.DM&GJ DIP.FS BDA.FR		OOP.DM CC.CC SD Lab.GJ&FR Allied.JS	FOSS.FS CC.CC SD Lab.GJ&FR Allied.JS	

MCA 2021-2022 Even Semester Time Table Sent to Offices

Hour / Day Order		1 8.30 – 9.25	2 9.25 – 10.20	3 10.20 – 11.15	B R E A K	4 11.40 – 12.35	5 12.35 – 1.30	6 1.30 – 2.10
1	I	UIUX.GJ	UIUX.GJ	WP.CC		WPL.CC/FR	WPL.CC/DM	WPL.CC/DM
	II	Project.FS	Project.FS	Project.FS		Project.FS	Project.FR	Project.FR
	III	Project.JS	Project.JS	Project.JS		Project.JS	Project.JS	Project.JS
2	I	NLP.GJ	AI.DM	AI.DM		SOFT SKILL	SOFT SKILL	
	II	Project.FR	Project.FR	Project.FR		Project.CC	Project.CC	Project.CC
	III	Project.JS	Project.JS	Project.JS		Project.GJ	Project.GJ Soft Skill.FR Allied.FS	Project.GJ
3	I	AI.DM	AI.DM	NT.JS		NT.JS	AJPL.FR/JS	AJPL.FR/JS
	II	Project.CC	Project.CC	Project.CC		Project.FS	Project.FS	Project.FS
	III	Project.GJ Allied.FS	Project.GJ Allied.FS	Project.GJ		Project.GJ	Project.GJ	Project.GJ
4	I	UIUX.GJ	UIUX.GJ	NT.JS		NT Lab.JS/CC	NTLab.JS/CC	NT Lab.JS/CC
	II	Project.CC	Project.CC	Project.CC		Project.FR	Project.FR	Project.FR
	III	Project.DM	Project.DM	Project.DM		Project.DM	Project.DM	Project.DM
5	I	NT.JS	NLP.GJ	NLP.GJ		WP.CC	WPL.CC/FS	NT Lab.JS/FS
	II	Project.FR	Project.FR	Project.FR		Project.FR	Project.FR	Project.FR
	III	Project.DM Allied.FS	Project.DM	Project.DM		Project.DM	Project.DM	Project.DM
6	I	WP.CC	WP.CC	NLP.GJ		AJPL.FR/GJ	AJPL.FR/GJ	AJPL.FR/GJ
	II	Project.FS	Project.FS	Project.FS		Project.CC	Project.CC	Project.CC
	III	Project.JS	Project.JS	Project.JS		Project.JS Allied.FS	Project.JS Allied.FS	Project.JS

Teaching Load of each Faculty :

TEACHING WORK LOAD 2021 – 2022 Even Semester and 2022 – 2023 Odd Semester

<u>EVEN SEMESTER 2021-2022</u>

Number of contact hours of work load in Even semester = 97

Number of hours of work load in Even semester = 107

$\Big[\big[$I MCA (5 theory x 4 hours) x 1.5 hours for PG +(1 practical x 4 hours) + (2 practical x 3 hours) + II MCA Project Work 30 hours + III MCA Project Work 30 hours + P.G. Soft Skill Computer skill 1 hour$\big]\big]$ + Allied Computer Science 6 hours$\Big]$

Standard Teaching Work Load for the Head of the Department   =   12
Standard Teaching Work Load for the Director, IQAC   =   14

Balance work hours to be allocated to the professors of the department = 107 – 26 =   81

Standard Teaching Work Load for the professors   =   16

Number of teaching staff required excluding HOD and Director IQAC   = 81/16 = 5.0625   =   5

Total number of teaching staff required for the department of Computer Science   =   7

There is a need for ONE additional faculty in the current semester

<u>ODD SEMESTER 2022 - 2023</u>

Number of contact hours of work load in Odd semester   =   67

Number of hours of work load in Even semester   =   87

$$\Big[\Big[\text{I MCA and II MCA}\big[(5 \text{ theory x 4 hours}) \times 1.5 \text{ hours for PG} + (1 \text{ practical x 4 hours}) + (2 \text{ practical x 3 hours})\big]{*}2 + \text{P.G. Soft Skill Computer skill 1 hour}\big] + \text{Allied Computer Science 6 hours}\Big]$$

Standard Teaching Work Load for the Head of the Department   =   12
Standard Teaching Work Load for the Director, IQAC   =   14

Balance work hours to be allocated to the professors of the department = 87 – 26   =   61

Standard Teaching Work Load for the professors   =   16

Number of teaching staff required excluding HOD and Director IQAC   = 61/16 = 3.8125   =   3 or 4

Total number of teaching staff required for the department of Computer Science   =   5 or 6

Internal Continuous Evaluation System and place :

Internal Continuous Assessment (ICA)

The Internal Continuous Assessment (ICA) and End of Semester Examination (ESE), each carrying 50% marks, form the basis for grading student performance in each paper. The passing minimum in ESE is 20/50 for UG and 25/50 for PG programmes.

a) ICA Theory

Internal Continuous Assessment tests for theory will be centrally administered by the College through the Examination Office. Three tests will be conducted for each theory paper - two written tests and an assessment of accepted innovative components such as a seminar, term paper, project, assignment, portfolio, power-point presentation, quiz, objective test, etc or a combination of the above, as decided by the course teacher or HoD (The programme of such evaluation will be fixed before the commencement of that semester in consultation with the respective Academic Deans). Each test will carry a maximum of 50 marks and the lowest of the three tests will be ignored. The Timetable for the ICA tests I and II will be scheduled and notified by the Examination Office in the College Calendar. ICA III based on innovative techniques will span over the entire duration of the semester.

b) ICA Practical

Two tests will be conducted for each practical paper. The Time table will be scheduled by the course teacher or HoD.

Re-test is not allowed except for the students who had represented the College in sports or cultural activities on the dates of the scheduled ICA tests or for students with any justifiable reason acceptable to the Principal. The Principal may grant special

Student's assessment of Faculty, System in place

For each Post Graduate Courses give the following:

Title of the Course :   MCA

Curricula and Syllabi

MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE

CURRICULUM FOR M.C.A. (EFFECTIVE FROM 2020 – 21)

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PEO 1: Offer wholesome education and build competent professionals who will possess strong fundamental knowledge, analytical skills and computational abilities to solve complex problems appropriate for global computing industry.

PEO 2: Create sustained learners to bring out novel ideas in addressing research issues and challenges.

PEO 3: Develop professional skills like teamwork, communication and management with professional ethics and values and upgrade their skills to become entrepreneurs.

PROGRAMME OUTCOMES (POs)

PO 1. Problem analysis and design/development of solutions: Ability to apply the knowledge of Computing, Mathematics and Science to provide solutions for complex problems, with appropriate consideration for public health and safety, legal, cultural, societal, and environment constraints.

PO 2. Investigation of complex problems: Use research-based knowledge and research methods to independently carry out research/investigation and synthesize information to provide valid conclusions.

PO 3. Usage of emerging technologies and modern tools: Ability to use emerging technologies, skills, resources and modern IT tools, with software engineering principles, to produce software products meeting the global standards.

PO 4. Individual/team work: Function effectively as an individual, and as a member or leader in diverse and multidisciplinary teams to accomplish targets with effective oral and written communication.

PO 5. Professional Ethics: Understand and commit to professional ethics and cyber regulations, responsibilities and norms of professional computing practices.

PO 6. Lifelong Learning: Recognize the need for learning with respect to the changes in technology and the ability to engage in independent and lifelong learning.

PROGRAMME OUTCOME – COURSE MATRIX

Semester	Course Name	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6
I	Data Structures and Algorithms	3	1		1		3
	Object-Oriented Programming	3	1		1		3
	Principles of Database Management Systems	3	2		2		3
	Elective - I						
	Elective - II						
	Data Structures and Algorithms Laboratory	2	1	1	1		2
	Programming Laboratory in C++	2	1	1	1		2
	RDBMS Laboratory	2	1		2		2
II	Artificial Intelligence	3	3	2	2		3
	.NET Technologies	3	1		2		3
	Web Programming	3	1		2		3
	Elective - III						
	Elective - IV						
	Advanced Java Programming Laboratory	3	1	2	2		2
	Programming Laboratory in .NET Technologies	2	1		2		2
	Web Programming Laboratory	2	1	2	2		2
	Soft Skill Programme						
	Big Data Analytics	3	3	2	2		3
	Advanced Software Engineering	3	2	2	2	1	3
	Elective - V						
	Elective - VI						
	Elective - VII						

III	Mobile Application Development Laboratory	2	1	2	2		2
	Data Analytics with Python Programming Laboratory	3	2	2	2		2
	Software Development Laboratory	3	2	2	3	2	2
	Soft Skill Programme						
IV	Project	3	2	2	2	2	3
	Internship	1	1	2	2	2	2

MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE

PROGRAM STRUCTURE FOR M.C.A. (EFFECTIVE FROM 2020 – 21)

	Course Name	Hours / DO Cycle	Credits	ICA Marks	ESE Marks	Total Marks
Semester I						
11	Data Structures and Algorithms	4	3	50	50	100
12	Object-Oriented Programming	4	3	50	50	100
13	Principles of Database Management Systems	4	3	50	50	100
14	Elective - I	4	3	50	50	100
15	Elective - II	4	3	50	50	100
16	Data Structures and Algorithms Laboratory	3	3	50	50	100
17	Programming Laboratory in C++	3	3	50	50	100
18	RDBMS Laboratory	4	3	50	50	100
	Total	30	24			
Semester II						
21	Artificial Intelligence	4	3	50	50	100
22	.NET Technologies	4	3	50	50	100
23	Web Programming	4	3	50	50	100
24	Elective - III	4	3	50	50	100
25	Elective - IV	4	3	50	50	100
26	Advanced Java Programming Laboratory	4	3	50	50	100
27	Programming Laboratory in .NET Technologies	3	3	50	50	100

28	Web Programming Laboratory	3	3	50	50	100
	Soft Skill Programme	2	4	50	NA	50
	Total	32	28			
Semester III						
31	Big Data Analytics	4	3	50	50	100
32	Advanced Software Engineering	4	3	50	50	100
33	Elective - V	4	3	50	50	100
34	Elective - VI	4	3	50	50	100
35	Elective - VII	4	3	50	50	100
36	Mobile Application Development Laboratory	4	3	50	50	100
37	Data Analytics with Python Programming Laboratory	3	3	50	50	100
38	Software Development Laboratory	3	3	50	50	100
	Soft Skill Programme	2	4	50	NA	50
	Total	32	28			
Semester IV						
41	Project (Duration : 4 months)		15	50	50	100
	Internship (Duration: 3 to 4 weeks)		2	-	-	-
	Total		17			
	Total		97			

ELECTIVES	
E1	Advanced Java Programming

E2	Block Chain and Cryptocurrency
E3	Cloud Computing
E4	Computer Networks and Security
E5	Content Management Systems
E6	Cryptography and Network Security
E7	Cyber Security and Forensics
E8	Data Warehousing and Mining
E9	Digital Image Processing
E10	Digital Marketing
E11	Ethical Hacking
E12	Free and Open Source Software
E13	Healthcare Information Management System
E14	Information Security
E15	Internet of Things
E16	Internet of Things and Cloud
E17	Machine Learning Techniques
E18	Mobile Application Development
E19	Mobile Commerce Technology
E20	Mobile Computing
E21	Natural Language Processing
E22	Object Oriented System Design
E23	Principles of Operating Systems
E24	Soft Computing
E25	Software Engineering, Project Management and Testing
E26	System Software
E27	User Interface and User Experience Design

E28	Directed Study

11 DATA STRUCTURES AND ALGORITHMS

Semester: I	Hours: 4	Credits: 3

OBJECTIVES:

- To impart knowledge about the concepts of data structures and algorithms.
- To train the students to design and analyze linear and non-linear data structures and algorithms.
- To make the students apply suitable data structures and algorithms for solving real-world applications.

Unit 1 - Introduction to Data Structures and Algorithms

Basic Data Types - Abstract Data Types; Structure, operations on them and implementation, Need for data structures. Fundamentals of Algorithmic problem solving, Analysis of Algorithm Efficiency - Orders of growth, Asymptotic and Empirical analysis of algorithms, Solving Recurrence Equations, Space-Time tradeoff. Arrays - Single and Multidimensional arrays, Insertion and deletion in arrays, Strings,

Unit 2 - Linear Data Structures

Stacks: Push, Pop, Array representation of a stack, Applications - Expression evaluation, Recursion – Tower of Hanoi. *Queues*: Enqueue, Dequeue, Array representation of a queue, Circular queues. *Lists:* Singly linked list, Memory representation of lists, Sorted and unsorted list, Doubly linked list, Circular lists, polynomial addition and subtraction using lists, Linked representation of stacks and queues

Unit 3 - Non-linear Data Structures

Trees: Basic Terminologies, Binary Trees and their memory representation, Tree traversals, Binary Search Trees – traversing, insertion and deletion. *Graphs*: Directed and Undirected graphs, Memory representation of graphs, Weighted graphs, Graph Traversal - BFS, DFS, Single-Source Shortest Path Problem - Dijkstra's algorithm, Minimum Cost Spanning Trees by Prim's and Kruskal's algorithm, All-Pairs Shortest Path Problem – Floyd-Warshall algorithm.

Unit 4 - Design and Analysis of Algorithms - I

Brute Force - Bubble sort, Sequential search, String search, Divide and Conquer - Merge sort, Quick sort, Decrease and Conquer: Decrease by one - Insertion sort, Decrease by a constant factor - Binary search, Analysis of all the techniques

Unit 5 - Design and Analysis of Algorithms - II

Transform and Conquer - Instance simplification-Presorting, Representation change-Heap construction, Dynamic programming–Minimum number of coins that make a given value, Greedy Technique - Knapsack problem, Backtracking - n-queens problem – Branch and Bound technique - Traveling Salesman Problem, Analysis of all the techniques.

OUTCOMES:

At the completion of the course, the learner will be able to

- Analyze the performance of algorithms using asymptotic notations.
- Evaluate and provide suitable techniques for solving a problem using basic properties of Data Structures.
- Illustrate different types of algorithmic approaches to problem solving and assess the tradeoffs involved.
- Understand the nature of problems and to develop prototypes or applications of varying complexities.

References

1. Kruse R.L, Leung B.P, Tondo C.L, *Data structures and Program design in C*, Second Edition, Pearson, 2007.

2. Mark Allen Weiss, *Data Structures and Algorithms in C*, Second Edition, Pearson, 2006
3. S.K.Basu, *Design Methods and Analysis of Algorithms*, Fourth edition, PHI, 2013
4. A.V.Aho, J.E. Hopcroft and J.D.Ullman, *The Design and Analysis of Computer Algorithms*, Pearson, 2002
5. AnanyLevitin, *Introduction to the Design and Analysis of Algorithm*, Third Edition Pearson Education Asia, 2016
6. Robert Sedgewick and Kevin Wayne, *Algorithms*, Fourth Edition, Pearson Education, 2012.

12 OBJECT-ORIENTED PROGRAMMING

Semester: I   Hours: 4   Credits: 3

OBJECTIVES:

- To understand and apply the OOP concepts using C++, an OOP specific programming language.
- To write programs to solve problems using the OOP language constructs.

Unit 1

OOP Paradigm: Comparison of programming paradigms - Key concepts of Object Oriented Programming - Abstraction, Encapsulation, information hiding, interface and implementation. Functions – Function overloading, default arguments, inline functions. Arrays, pointers, references and dynamic memory allocation.

Unit 2

Classes and Objects: Members, messages, constructors, destructors, access control specifiers, overloading member functions, overloading constructors, scope resolution operator. Static members: static member data, static member function, static class. Operator overloading - unary and binary operator overloading.

Unit 3

Friends: friend function, friend class. Generic Programming: Templates - Function templates - class templates – Standard Template Library. Relationship among classes: Aggregation - whole and part classes. Using – client class and server class

Unit 4

Relationship among classes: Inheritance: Reusability - Implementation of Inheritance - simple - multilevel - multiple – hybrid. Overriding member functions. Polymorphism: Implementation of polymorphism - virtual functions - pure virtual functions, virtual base classes, abstract class.

Unit 5

I/O streams – stream input / output classes and objects, I/O Stream Manipulators, Files – File streams – sequential files – random access files. Exception handling: Exception – handling exceptions – Exception class.

OUTCOMES:

At the completion of the course, the learner will be able to

- Apply the concepts of data abstraction, encapsulation, overloading, inheritance and polymorphism and identify classes and objects for a given problem.
- Design and implement C++ programs for a given problem.
- Know how to use the OOP concept reusability to modify an existing program
- Know how to write generic programs using templates and STL

References

1. Paul Deitel and Harvey M. Deitel, *C++ How to Program*, Tenth Edition, Pearson India Education Services Pvt. Ltd, 2017
2. Bjarne Stroustrup, *The C++ Programming Language*, Fourth Edition, Addison-Wesley publishing company, 2013.

2. Herbert Schildt, *C++ From the Ground Up*, Third Edition, Osborne McGraw Hill, 2003.
3. Herbert Schildt, *C++ Complete Reference*, Fifth Edition, McGraw Hill Education, 2012.
4. Stephen Prata, *C++ Primer Plus*, Sixth Edition, Addison Wesley, 2013

13 PRINCIPLES OF DATABASE MANAGEMENT SYSTEMS

Semester: I   Hours: 4   Credits: 3

OBJECTIVES:

- To understand the fundamentals of data models and conceptualize and depict a database system using ER diagram.
- To make a study of relational database design.
- To learn in detail about query processing using SQL.
- To impart knowledge in transaction processing, concurrency control techniques and recovery procedures.
- To know about data storage techniques and Indexing.

Unit 1

Introduction: Purpose of Database System - Views of data - Data Models - Database System Architecture - Entity Relationship model: ER Diagrams - Relational Model Concepts - Relational Query Languages - Relational Algebra

Unit 2

Relational Database Design: Non-loss Decomposition - Functional Dependencies - 1NF - 2NF - 3NF - Dependency Preservation – Boyce-Codd Normal Form - Multi-valued Dependencies, 4NF - Join Dependencies, 5NF

Unit 3

SQL: Query Structure, Basic operations, Additional Operations, Set Operations, Null Values, Aggregate Functions, Nested Subqueries - Modification of the Database - Join Expressions, Views, Integrity Constraints, SQL Data Types, Authorization - Advanced SQL features - Accessing SQL from a Programming Language - Dynamic SQL (JDBC and ODBC), Embedded SQL, Functions and Procedural Constructs, Triggers.

Unit 4

Transactions: Concepts, Properties of Transactions, Serializability - Commit protocols: Two Phase Commit - Concurrency - Locking Protocols: Two Phase Locking - Deadlock - Recovery concepts, Log based recovery.

Unit 5

Overview of Physical Storage Media - RAID - Tertiary storage - File Organization - Hashing: Static and Dynamic Hashing - Indexing: Single level and Multi-level Indexes - Overview of special purpose databases

OUTCOMES:

At the completion of the course, the learner will be able to

- Understand the basic concepts of the database and data models.
- Design a database using ER diagrams and map ER into Relations and normalize the Relations.
- Develop a simple database application using normalization.
- Acquire the knowledge of query evaluation to monitor the performance of the DBMS.
- Acquire the knowledge about different special purpose databases and how to store it.

References

1. Abraham Silberschatz, Henry F. Korth, S. Sudharshan, *Database System Concepts*, Sixth Edition, McGraw Hill Education, 2010

2. C.J.Date, A.Kannan, S.Swamynathan, *An Introduction to Database Systems*,   Eighth Edition, Pearson Education, 2006.

3. RamezElmasri, Shamkant B. Navathe, *Fundamentals of Database Systems*, Sixth Edition, Pearson Education Inc., 2011.

4. Raghu Ramakrishnan, *Database Management Systems*, Fourth Edition, Tata McGraw Hill, 2014.

5. G.K.Gupta, *Database Management Systems*, Tata McGraw Hill, 2011.

16 DATA STRUCTURES AND ALGORITHMS LABORATORY

Semester: I   Hours: 3   Credits: 3

OBJECTIVES:

This Laboratory aims at making students to write algorithms and convert them to C programs for various problems using:

- linear and non-linear data structure
- searching, sorting and backtracking techniques

Concepts to be covered:

1. Stacks
   - Array implementation
   - Linked list implementation
   - Evaluation of expression
2. Queues
   - Array implementation
   - Linked list implementation
3. Linked List
   - Singly linked list (Traversing, Insertion, deletion)
   - Doubly linked list (Traversing, Insertion, deletion)
   - Circular linked list (Traversing, Insertion, deletion)
4. Sort
   - Insertion sort

   - Selection sort

   - Merge sort

- Quick sort

5. Search
    - Linear search
    - Binary search
6. Trees
    - Binary Tree Traversals (Preorder, Inorder, Postorder)
    - BST insertion and deletion
7. Graphs
    - Traversal (Breadth first search, Depth first search)
8. Graph Applications

    - Single source shortest path (Minimum Spanning Tree) - Dijkstra's and Prim's algorithm

    - All pairs shortest path – Warshall's algorithm / Floyd's algorithm

9. n-Queens algorithm using Backtracking

OUTCOMES:

Write and execute C programs on,

- Linear Data Structures like arrays, stacks, queues and linked lists.
- Non-linear Data Structures like binary search trees and graphs.
- Searching and Sorting techniques
- Backtracking

17 PROGRAMMING LABORATORY IN C++

Semester: I   Hours: 3   Credits: 3

OBJECTIVES:

- To learn the features in C++ without objects
- To learn Object-based features in C++
- To learn compile time polymorphism in C++
- To use inheritance for reusability of code
- To learn generic programming

1. Features in C++ not involving objects
   - Function overloading
   - Default argument
   - Reference variable
   - Inline function
   - Template function
   - Command line arguments

2. Object-based Programming features in C++ - Class & Object
   - Class, object, member functions, messages, constructors, destructor & scope resolution operator
   - Operations using two objects (object 1 receiver of message, object 2 parameter)
   - Operations using three objects (object 1 receiver of message, object 2 parameter, object 3 returned object)
   - Aggreagation : Whole and part class

3. Object-based Programming features in C++- Advanced
   - Operator Overloading (Unary and & Binary operators)
   - Templates (Template class)
   - Friends (Friend Function and Friend Class)

4. Object-Oriented Programming Features in C++ - Inheritance
   - Single Inheritance (Public)
   - Multi-level Inheritance (Public, Protected and Private)
   - Multiple Inheritance
   - Multiple Inheritance-Diamond Lattice Problem(Using Virtual Base class)

5. Runtime Polymorphism: (Inheritance, dynamic binding, virtual function)

6. Abstract class (Inheritance, pure virtual function)

7. Static
   - Static data
   - Static member function
   - Static class

8. Streams
   - Input output streams:
   - File Streams

9. Exception Handling

10. Standard Template Library

OUTCOMES:

At the completion of the course, the learner will be able to

● Write programs in C++ to implement non object-based features such as default arguments, function overloading, inline function, function templates
● Write programs using classes, objects
● Write programs that reuse other programs
● Implement polymorphism
● Identify and implement generic programs

18 RDBMS LABORATORY

Semester: I   Hours: 4   Credits: 3

OBJECTIVES:

● To understand the concepts of DBMS.
● To familiarize with SQL queries.
● To write stored procedures in DBMS.
● To learn front end tools to integrate with databases.

Backend SQL Server:

Connecting the front end and the back end.

Front-end VB.NET:

Reports- GridView.

Advanced SQL commands using more than one table

● DDL statements
  Create Table, Drop and Alter Table

● DML statements

Insert, Select ,Update, Delete, Sub queries, Case Expression, Sql Predicates, Logical Connectives, Aggregate Functions, Set Operations

- TCL Statements
  Commit, Rollback, Savepoint.

- Programmatic SQL
  Triggers

OUTCOMES:

At the completion of the course, the learner will be able to

- Design and Implement databases
- Formulate complex queries using SQL
- Design and Implement applications that have GUI and access databases for backend connectivity

References

1. Petkovic, *Microsoft SQL Server 2008 A Beginner's Guide*, Tata McGraw Hill Edition, 2008
2. Itzik Ben-Gan, Microsoft SQL Server 2008 T-Sql Fundamentals, Microsoft Press, Indian Reprint 2009.
3. Paul Nielsen, *Microsoft SQL Server 2008 Bible*, Wiley India, Reprint 2010.
4. Bill Sheldon, *Professional Visual Basic 2010 and .NET 4*, Wrox, Reprint 2010.

21 ARTIFICIAL INTELLIGENCE

Semester: II   Hours: 4   Credits: 3

OBJECTIVES:

- To understand the fundamentals of computational intelligence
- To understand the various characteristics of Intelligent agents
- To learn about the different search strategies in AI
- To know about the various knowledge representation methods in solving AI problems
- To understand the features of neural network and its implementation
- To know about the various applications of AI.

Unit 1 Artificial Intelligence and Intelligent Agents

Introduction: Approaches to AI: Thinking Humanly, Thinking Rationally, Acting Humanly, Acting Rationally. Foundations of AI – Applications of AI. Intelligent agents: Agents and environments – Rational agents – Rationality – Nature of environments: Specifying the PEAS description of the task environment, Properties of task environment. Structure of agents – Agent programs – Basic types of Agent programs: Simple reflex agents, Model-based reflex agents, Goal-based agents, Utility-based agents. Learning Agents.

Unit 2 Problem-solving and Search

Problem-solving agents: Well-defined problems and solutions, Formulating problems. Searching for solutions - Uninformed search strategies: Breadth-first search, Depth-first search, Bidirectional search. Informed search strategies: Greedy best-first search, Recursive best-first search. Online search agents. Adversarial search: Games - Optimal Decisions in Games – Alpha-Beta Pruning.

Unit 3 Knowledge, Reasoning and Planning

Knowledge-based agents - Propositional logic - Agents based on propositional logic - propositional inference. First order (Predicate) logic – Inference in First order logic. Expert System. Knowledge representation: Categories and objects – Reasoning systems for categories.

Classical Planning – Algorithms for planning as State-Space Search. Planning and acting in the real world.

Unit 4 Learning

Learning from Examples: Forms of Learning – Supervised Learning – Learning Decision Trees – Artificial Neural Networks. Knowledge in Learning: A Logical Formulation of Learning – Explanation-Based Learning – Inductive Logic Programming. Learning with hidden variables – Unsupervised learning – Clustering. Reinforcement learning – Passive Reinforcement Learning – Active Reinforcement Learning.

Unit 5 AI Applications

Text Classification - Information Retrieval – Information Extraction - Machine Translation – Speech Recognition – Object Recognition – Robotics

OUTCOMES:

At the completion of the course, the learner will be able to

- Implement computational intelligence through applications

- Use appropriate search algorithms for any AI problem
- Understand knowledge representation methods and apply approximate reasoning
- Represent a problem using first order and predicate logic
- Apply reinforcement learning techniques for finding a solution to a problem

References

1. Stuart J. Russell and Peter Norvig, *Artificial Intelligence A Modern Approach*, Third Edition, Pearson Education, Inc., 2010
2. Elaine Rich, Kevin Knight, Shivashankar B. Nair, *Artificial Intelligence*, Third Edition, Tata McGraw-Hill Publishing Company Limited, 2009.
3. David Pool, Alan Mackworth, *Artificial Intelligence: Foundations of Computational agents*, Cambridge University, 2011.
4. Christopher M. Bishop, *Pattern Recognition and Machine Learning*, Springer, 2013.
5. Nils J.Nilsson, *The Quest for Artificial Intelligence: A History of Ideas and achievements,* Cambridge University Press, 2010.

22 .NET TECHNOLOGIES

Semester: II   Hours: 4   Credits: 3

OBJECTIVES:

- To understand .NET Platform and its core functionalities.
- To develop windows and web applications with Microsoft SQL and Visual Studio.
- To understand and develop user defined Applications using MVC framework.
- To strengthen Object Oriented Programming using advance C# concepts.

Unit 1

Introducing Microsoft .NET: Microsoft .NET platform: .NET Enterprise Servers, .NET framework and .NET Building block Services - .NET Namespaces.Common Type System(CTS), Common Language Specification(CLS) and CLR Execution (Class loader, verifier, JIT compilers).

Unit 2

Windows Forms, ASP.NET and ADO.NET : Windows Forms: Windows Forms.NET classes, Windows controls, Data binding, Developing a windows application using C#. Web Forms: ASP.NET over ASP, Main classes in ASP.NET, Web Controls, Web Forms Syntax, Components and life cycle, Developing a simple ASP.NET page. Handling data: Benefits of ADO.NET, ADO.NET Architecture, Main classes in ADO.NET, Developing a Windows/Web application using database

Unit 3

ASP.NET MVC: Overview, Benefits, MVC Pattern, Life Cycle, Controllers, Actions, Views, Data Model. Model Binding, using Databases

Unit 4

C# Classes, Objects and Object Oriented Features: Type System, Boxing and Unboxing, Access control specifiers, Arrays, Iterators, Structs, Static -static data, static members and static classes, Object-Oriented Features-Class Inheritance, Polymorphism and Interfaces.

Unit 5

Advanced C# : Properties, Indexers , Exception handling, Namespaces, Delegates and event handlers, Attributes, Overloading Operators-unary and binary operator overloading, Conversion operators, Nested Types, Anonymous Methods, Generic Collections.

OUTCOMES:

At the completion of the course, the learner will be able to

- To design Websites using MVC and .NET framework.
- Gain more knowledge in advance C# Concepts.

References

1. Thuan Thai, *.NET Framework,* Third Edition*,* O'Reily publications, 2009
2. David S Platt, *Introducing Microsoft .NET ,* Third edition, Microsoft press, 2003
3. Adam Freeman, *Pro ASP.NET MVC 5 Client,* Fifth Edition, Aprèss, 2013
4. Herbert Schildt, *C# 4.0 The Complete Reference*, Third Edition Tata McGraw Hill,   2010
5. Deitel & Deitel, *C# 2012 for Programmers*, Fifth Edition, Pearson, 2010
6. Tom Archer, *Inside C#,* Fourth Edition, Microsoft corporation, 2001
7. Dotnet_core, tutorialspoint.com/dotnet_core/index.htm
8. https://www.tutorialspoint.com/asp.net_mvc/index.htm

23 WEB PROGRAMMING

Semester: II   Hours: 4   Credits: 3

OBJECTIVES:

- • To understand the concepts and architecture of the World Wide Web.

- • To understand and practice markup languages

- • To understand and practice embedded dynamic scripting on client side Internet

  Programming

- • To understand and practice web development techniques on client-side.

Unit 1

HTML5 & JAVA SCRIPT: Advanced HTML5 tags - Form Controls - Embedding JavaScript in HTML, Dialog boxes - alert, confirm and prompt methods - Form processing: Form Validation and Event handling.

Unit 2
Angular JS: Basics of AngularJS – MVC – Filters and Modules – Directives – Working with Forms – Creating and Using Services

Unit 3
PHP Basics: String Manipulation – Creating, Accessing, Searching Replacing and Formatting strings; Control Structures – Decisions and Loops; Functions – Built-in and User Defined Functions, Passing parameters and Returning values.

Unit 4

Advanced PHP: Handling HTML Forms: Capturing Form Data - Regular Expressions: Pattern matching, Multiple matches and Replacing text - Classes And Objects - Cookies and Session.

Unit 5

PHP and MySQL: MySQL Database: Making a Connection – Handling Errors - Creating Tables – Insert, Update and Delete Records with PHP -   Retrieving data using Select.

OUTCOMES:

At the completion of the course, the learner will be able to

- Create a basic website using HTML.
- Design and implement dynamic web page with validation using JavaScript objects and by applying different event handling mechanisms.
- Design rich client presentation using Angular JS.
- Design and implement simple web page in PHP.
- Design front end web page and connect to the back end databases

References
1. Peter Lubbers, Brian Albers, Frank Salim, *Pro HTML5 Programming*, APRESS, 2010
2. Pawel Kozlowski and Peter Bacon Darwin, *Mastering Web Application Development with AngularJS*, Packt Publishing, 2013.

3. Thomas A.Powell and Fritz Schneider, *JavaScript: The Complete Reference,* Tata McGraw Hill, 2002.
4. James Jaworski, *Mastering JavaScript*, First Edition, BPB Publications, 1999
5. Steceb Holzner, *PHP*: *The Complete Reference,* Tata McGraw Hill, 2007
6. Bob Boiko, *Content Management Bible*, 2nd Edition, Wiley, 2004.

26 ADVANCED JAVA PROGRAMMING LABORATORY

Semester: II   Hours: 4   Credits: 3

OBJECTIVES :

- To install and configure Eclipse IDE and Tomcat Server.
- Learn to access the MYSQL database using JDBC.
- To create dynamic web applications using Servlets and JSP.
- Understand and learn to map Java classes and object associations with relational database tables using Hibernate.
- To create MVC web applications using Struts frameworks.

1. Runtime Environment
   - Setting up the Runtime Environment for creating and deploying Servlet and JSP using Eclipse IDE and Tomcat Server.
2. Servlet
   - Basic Servlet Programming
   - HTML to Servlet Applications
   - Servlet Collaboration-Request Dispatcher
   - Session Management and Implementation of Cookies using Servlet
   - Developing a web application with MySQL Database using Servlet
3. JDBC
   - Implementation of any Information System using JDBC.

4. JSP
   - Basic JSP Programming- JSP Scripting elements, Directives and Actions.
   - Designing web applications with JSP – Form Processing and Database access.

5. Hibernate Framework
   - Hibernate Query Language
   - Java application with Database access using Hibernate
6. Struts Framework
   - Interceptors
   - ValueStack
   - ActionContext and ActionInvocation
   - Object Graph Navigation Language (OGNL)
   - Struts Validation
   - MVC based web application development using Struts Framework

OUTCOMES:

At the completion of the course, the learner will be able to

- Develop dynamic web applications using Servlet and JSP.
- Manage Sessions using Servlet Cookies.
- Learn MYSQL database connections using JDBC.
- Implement Hibernate framework by mapping Java application with database.
- Create MVC based web applications using Struts.

References

1. www.javatpoint.com/jsp-tutorial
2. www.javatpoint.com/servlet-tutorial
3. www.tutorialspoint.com/hibernate/hibernate_query_language.htm
4. www.javatpoint.com/hibernate-tutorial
5. www.javatpoint.com/struts-2-tutorial
6. www.tutorialspoint.com/struts_2/struts_examples.htm

27 PROGRAMMING LABORATORY IN .NET TECHNOLOGIES

Semester: II   Hours: 3   Credits: 3

OBJECTIVES:

- To develop windows and web applications in MVC .Net platform.

- To strengthen Object Oriented Programming using advance concepts in C#.

C#:

1. Simple Computations
2. Classes and methods
3. Constructors with parameters
4. Pass by values and pass by reference
5. Arrays
6. Structures
7. Enumerator
8. Jagged arrays
9. Method Overloading
10. Static Members
11. Operator Overloading
12. Inheritance
13. Virtual Methods
14. Abstract Class
15. Indexers
16. Delegates and Events
17. Interface
18. Exception Handling
19. Generic Method

.NET:

1. Windows Application with Database Connectivity using C# and ADO.NET
2. Web Application with Database Connectivity using C#, ASP.NET and ADO.NET
3. Web Application with Database Connectivity using ASP.NET MVC
4. Using ILDASM.exe
5. Creating and using strong Assemblies

OUTCOMES:

At the completion of the course, the learner will be able to

- To design Websites using .NET framework.
- Gain more knowledge in advance C# Concepts.

28 WEB PROGRAMMING LABORATORY

Semester: II   Hours: 3   Credits: 3

OBJECTIVES:

- Try and develop the most important technologies that are being used today by web developers to build a wide variety of web applications.
- To build web applications using proven developer tools and message formats.
- To understand and practice web development techniques on client-side
- Web applications using technologies such as HTML, Javascript, Angular JS and PHP.

JAVA SCRIPT using HTML controls

- Embedding JavaScript in HTML.
- Variables, operators, statements, functions.
- Dialog box - alert, confirm and prompt methods.
- Form processing: form validation.
- Event handling: link, document, image, form, mouse and keyboard events.

Angular JS: Basics of AngularJS – MVC – Filters and Modules – Directives – Working with Forms – Creating and Using Services

PHP:

String Manipulation, Control Structures, Functions, Working With Forms, Working With Regular Expressions, Introduction To Database, Advance PHP techniques.

MySQL: MySQL Database: Making a Connection – Handling Errors - Creating Tables – Insert, Update and Delete Records with PHP -   Retrieving data using Select.

OUTCOMES:

- Develop simple web applications using scripting languages.
- Implement server side and client side programming develop web applications with various web technology concepts.
- Design a Web application using various PHP techniques.
- Develop an application using HTML5, AngularJS & PHP and store data by connecting using MySQL.

References
1. Thomas A.Powell and Fritz Schneider, *JavaScript: The Complete Reference,* Tata McGraw Hill, 2002.
2. James Jaworski, *Mastering JavaScript*, First Edition, BPB Publications, 1999
3. Steceb Holzner *PHP*: *The Complete Reference,* Tata McGraw Hill, 2007
4. Steven Holzner, *Teach Yourself XML in 21 Days*, Third Edition, Pearson Education, 2004.
5. Russell Nakano, *Web Content Management: A Collaborative Approach*, Addison-Wesley Professional, 2002.

6. Vikram Vaswani, *Mysql: The Complete Reference*, Tata McGraw Hill, 2017.

31 BIG DATA ANALYTICS

Semester: III   Hours: 4   Credits: 3

OBJECTIVES:

- To give an exposure on the basic concepts, methods, technology and tools of data analytics and make them understand the competitive advantages of big data analytics.
- To make the students understand the different characteristics and requirements of big data frameworks.
- To explain the concepts of distributed file system and Map Reduce programming.
- To make them learn and implement data analysis like correlation, regression, t-test, analysis of variance and time-series analysis
- To impart knowledge on Hadoop related tools for big data analytics
- To explain storage and processing of large data using NoSQL database

Unit 1 - Introduction to Big Data

Characteristics of Big Data and its importance – Applications of Big data - Four Vs of Big Data - distributed file system - Web data - Challenges of conventional systems, Drivers for Big data - Evolution of Analytic scalability - analytic processes and tools - Modern data analytic tools. Algorithms using map reduce, Matrix-Vector Multiplication by Map Reduce.

Unit 2 - Introduction to Data Analytics

Descriptive Statistics – Frequency and Contingency tables – Correlations – t-tests – Nonparametric tests of group differences. Regression: OLS regression, regression model. *Analysis of Variance:* Fitting ANOVA models, one-way ANOVA, one-way ANCOVA, two-way factorial ANOVA, repeated measures ANOVA, MANOVA, ANOVA as regression.

Text Analytics: Techniques, Information extraction, Tools, Applications. Case studies - correlation and regression study, t-test, ANOVA and text analysis table using Python

Unit 3 – Power and Time Series Analysis

Power Analysis : Hypothesis testing, implementing power analysis, creating power analysis plots. *Time Series Analysis:* Introduction to time series analysis, Forecasts using Exponential Smoothing, ARIMA Models. Case study of time series analysis using Spark Programming in Python

Unit 4 - Introduction to Hadoop

The Hadoop Distributed File System – Components of Hadoop- Analyzing the Data with Hadoop- Scaling Out- Hadoop Streaming- Design of HDFS-Java interfaces to HDFS Basics. Developing a Map Reduce Application. Job Scheduling-Shuffle and Sort – Task execution. Hadoop YARN

Unit 5 -NoSQL Data Management

NoSQL Databases : Schema-less Models: Increasing Flexibility for Data Manipulation-Key Value Stores-Document Stores – Tabular Stores – Object Data Stores – Graph Databases Hive – Sharding –Hbase

OUTCOMES:

- Understand the big data system and the need of analytical process.
- Differentiate between conventional and contemporary distributed framework and characterize storage and processing of large data.
- Perform data analysis using appropriate statistical methods and tools.
- Decompose a problem into map and reduce operations for implementation.
- Design programs to analyze large scale text data.
- Understand how to leverage the insights from big data analytics
- Implement and demonstrate the use of the hadoop eco-system.
- Perform analytics on real-time streaming data
- Understand the various NoSql alternative database models

References

1. Tom White, *Hadoop: The Definitive Guide*, Fourth Edition, O'reilly Media, 2015.
2. Chris Eaton, Dirk DeRoos, Tom Deutsch, George Lapis, Paul Zikopoulos, *Understanding Big Data: Analytics for Enterprise Class Hadoop and Streaming Data*, McGrawHill Publishing, 2012
3. Anand Rajaraman and Jeffrey David Ullman, *Mining of Massive Datasets*, Cambridge University Press, 2012
4. Glenn J. Myatt, *Making Sense of Data*, Wiley, 2007
5. Pete Warden, *Big Data Glossary*, O'Reilly, 2011
6. Michael Minelli, Michele Chambers, Ambiga Dhiraj, *Big Data, Big Analytics: Emerging Business Intelligence and Analytic Trends for Today's Businesses*,Wiley Publications, 2013
7. Avril Coghlan, *A Little Book of R For Time Series*, Release 0.2, Parasite Genomics Group, 2018
8. Robert I., Kabacoft, *R in Action: Data Analysis and Graphics with R*, Manning Publication Co., 2011.
9. David Loshin, *Big Data Analytics: From Strategic Planning to Enterprise Integration with Tools, Techniques, NoSQL, and Graph*, Morgan Kaufmann/Elsevier Publishers, 2013.
10. https://www.tutorialspoint.com/hadoop/index.htm

11. https://hadoop.apache.org/
12. https://www.tutorialspoint.com/pyspark/index.htm

32 ADVANCED SOFTWARE ENGINEERING

Semester: III   Hours: 4   Credits: 3

OBJECTIVES:

- To present the contemporary industry relevant Software engineering practices
- To improve the skillset of students for better employability

Unit 1

Overview of Traditional SE - Agile Development Methods: Overview, Agile Manifesto, Refactoring Techniques, Limitations of Agile Process - Agile Modeling: Principles, Comparing XP and Agile Modeling - Lean Software Development

Unit 2

Scrum Methodology- The roles of Scrum, Advantages of Scrum - Dynamic Systems Development Methodology: Overview, Principles of DSDM, Phases of DSDM, Core Techniques

Unit 3

Extreme Programming (XP)- Introduction, XP Practices: Coding Practices, Developer Practices, Business Practices - XP Events- Iteration Planning- Stories and tasks, Estimates and schedules, First iteration, Iteration, Releasing Roles in XP: Customer's Roles, Developer's Roles, Supplementary Roles - Coding XP Style

Unit 4

XP Tools: DevOps: Need, Working of Devops - DevOps Tools – Benefits - DevOps Benefits - DevOps Use Case - Roles and Responsibilities of a DevOps Engineer

Unit 5

AI-Driven Software Engineering: Traditional software development Vs Machine learning model development, Design, Testing, Automatic code generation; AI Software Development Tools

OUTCOMES:

At the completion of the course, the learner will be able to

- Acquire knowledge on current software development models
- Understand the difference between traditional and current methods of software development
- Design, develop and deploy applications using industry relevant methods to software development
- Build and test applications with speed and quality
- Understand the evolution of software engineering for AI applications
- Conceptualize and design solutions to real-life problems using AI-enabled software engineering methods

References

1. Roger Pressman and Bruce Maxim, *Software Engineering: A Practitioner's Approach,* Ninth Edition, 2020
2. Robert C. Martin, *Agile Software Development: Principles*, Patters and Practices
3. Kenneth S. Rubin, *Essential Scrum: A Practical Guide to the Most Popular Agile Process*, First Edition, 2012.

36 MOBILE APPLICATION DEVELOPMENT LABORATORY

Semester: III   Hours: 5   Credits: 3

OBJECTIVES :

- To install and configure an Android application runtime environment using Eclipse IDE.
- Learn how to develop Android applications using Android Widgets.
- To develop Gesture based UI, Multimedia, SMS, Phone Call, Sensor and Location Based Android application.
- To implement Android database applications using SQLite.

1. Runtime Environment
   - Android Development Environment- Eclipse IDE and Emulator
   - Building a simple Android application using Eclipse

2. User Interface Design
   - Applications using GUI components- Activities
   - Styles and Themes
   - Fragments
   - Linking Activities using Intents
   - Layout Managers
   - Views- ListView, Spinner View, ImageView and GridView
   - Event Handling
   - Gesture Based Application

3. Multimedia application

4. Graphical and Animation

5. Telephony
   - SMS
   - Phone Call

6. Notification and Alarm

7. JSON Communication

8. Location based applications-GPS

9. Data retrieval applications using SQLite

10. Gaming application

11. Sensor Application

OUTCOMES:

At the completion of the course, the learner will be able to

- Learn to set up an Android development environment.
- Develop Android applications such as Gesture based UI, Multimedia, SMS, Phone Call, Sensor and Location Based application using Android UI toolkits and frameworks.
- Learn to connect Android Application with SQLite database.

References

1. www.tutorialspoint.com/android/index.

2. www.javatpoint.com/android-tutorial
3. www.vogella.com/articles/Android/article.html

37 DATA ANALYTICS WITH PYTHON PROGRAMMING LABORATORY

Semester: III   Hours: 4   Credits: 3

OBJECTIVES:

- To learn Python Environment set up.
- To analyse data using Python.
- To work with different types of data.
- To prepare data for analysis.
- To understand the importance of Data Visualization to help make more effective business decisions.
- To perform simple Statistical analysis.
- To solve analytical problems in real-world scenarios.

1. Establishing a Python environment for Data Analysis using ANACONDA NAVIGATOR

2. Essential Python Packages for Data Analysis

- NumPy, Matplotlib and Pandas
- Scikit-learn, StatsModels, SciPy and Seaborn

3. Importing and exporting datasets in Python

4. Data Processing

- Data Operations
- Data Cleansing-Identify and Handle Missing Values
- Data Formatting
- Data Normalization Sets
- Binning
- Indicator variables

5.Data Frame Manipulation using Pandas
- Descriptive Statistics
- Basic of Grouping
- ANOVA

- Correlation

6. Data Visualization using Matplotlib and Seaborn

- Basic plotting with Matplotlib
- Line plots, Area plots, Histograms, Bar charts, Box plots and Pie charts
- Statistical graphics using Seaborn

7. Building Machine Learning Regression models using Scikit-Learn

- Simple and Multiple Linear Regression

8. Building Data Pipelines

- Polynomial Regression and Pipelines
- R-squared and MSE for In-Sample Evaluation
- Prediction and Decision Making

9. Model Evaluation
- Model Evaluation
- Over-fitting, Under-fitting and Model Selection
- Ridge Regression
- Grid Search
- Model Refinement

OUTCOMES:

At the completion of the course, the learner will be able to

- Learn to work with data in Python for reading and writing files, loading, working, and saving data.
- Learn how to interpret data in Python using multi-dimensional arrays in NumPy, manipulate DataFrames in Pandas, use SciPy library of mathematical routines and execute machine learning using Scikit-Learn.
- Learn to perform data analytics using Python libraries.
- Gain knowledge on several data visualization libraries in Python, including Matplotlib and Seaborn.
- Learn to build Machine Learning Regression models.
- Develop creative and effective solutions to solve real time business problems.

References

1. Fabio Nelli, *Python Data Analytics with Pandas, Numpy, and Matplotlib*, Second Edition, Apress, 2018.
2. William McKinney, *Python for Data Analysis: Data Wrangling with Pandas, NumPy, and Ipython*, Second Edition, O'Reilly, 2017.
3. Fabio Nelli, *Python Data Analytics: Data Analysis and Science Using Pandas, matplotlib, and the Python Language*, APress, 2015.
4. Ken Black, *Business Statistics for Contemporary Decision Making*, Sixth Edition , Wiley, 2009
5. www.tutorialspoint.com/python_data_science/index.htm

38 SOFTWARE DEVELOPMENT LABORATORY

Semester: III   Hours: 4   Credits: 3

OBJECTIVES:

This Laboratory aims at developing a mini-project by students working in a team and doing the following activities:

- Each student develops few modules in the mini-project
- Integrate all the modules into a single project.
- Follow the project life cycle with requirement analysis, specification, design, coding, implementation, testing and documentation

Areas

- Android using Java or Kotlin
- Cryptography using C# or Java
- Data Analytics using Python
- Digital Image Processing using Java or Python
- Natural Language Processing using Java or VB.NET
- Networking using Java
- Web applications using PHP MVC Framework like Laravel or CodeIgniter
- Web applications using Angular, Node JS/ React JS
- Web applications using Java Frameworks like Hibernate, Struts or Spring
- Web applications using MVC, C# and .NET
- Machine Learning and Deep Learning using Python

OUTCOMES:

- Develop a mini-project by a team using any one of the cutting-edge technologies.
- Exercise team work in developing and integrating into a single project.

Laboratory facilities exclusive to the Post Graduate Course

16.   Enrolment and placement details of students in the last 3years

ADMISSION DETAILS FOR THE YEARS 2021-22, 2020-21 AND 2019-20

Year	General Excluding Minority		OBC		SC		ST		Minority		Total
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
2021-22	0	0	6	8	2	1	1	0	5	6	29
2020-21	1	0	4	7	2	0	0	0	6	8	28
2019-20	1	0	5	8	4	0	0	0	6	6	30

17.   List of Research Projects/ Consultancy Works

Number of Projects carried out, funding agency, Grant received

Publications (if any) out of research in last three years out of masters projects

Industry Linkage

MoUs with Industries (minimum3(10))

19. Accounted audited statement for the last three years

MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)
MCA DEPARTMENT
Audited Statements of Account of 2018 - 19 (Income & Expenditure Statement for complete year)

Sl. No	Details (Income)	Amount	Sl. No	Details (Expenditure)	Amount
1	Tuition Fees	68,77,584.00	1	Salary	64,56,857.00
2	Other fee / amount collected from students	88,500.00	2	Administrative Expenses	17,13,210.00
3	Grant from Govt. / Private agencies	-	3	Training and Development	-
4	Grants / Contribution from other sources (Management)	-	4	Laboratory Consumables	1,92,017.80
5	Scholarships received	-	5	Library	-
6	Other Income	8,21,750.70	6	Travel	-
			7	Fees Paid to University / Board / Government / AICTE / UGC	75,000.00
			8	Repairs and Maintenance	1,21,977.00
			9	Scholarships / Concessions / Fellowships / Honorarium etc., awarded / incurred (other than Govt. grants	-
			10	Expenditure of grants received from Govt. / Private agencies.	-
			11	Depreciation	6,44,937.62
			12	Any other expenditure	1,21,425.84
			13	Excess of Income Over Expenditure	(15,37,590.56)
	Total	**77,87,834.70**		**Total**	**77,87,834.70**

Principal

PRINCIPAL
MADRAS CHRISTIAN COLLEGE
TAMBARAM

Auditor
UDIN :2021724 3AAAACB8248

MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)
MCA DEPARTMENT

Audited Statements of Account of 2019 – 20 (Income & Expenditure Statement for complete year)

SL. No	Income Details	Amount	Sl. No	Expenditure Details	Amount
1	Tuition Fees	69,49,470.00	1	Salary	64,46,367.00
2	Other fee / amount collected from students	1,26,000.00	2	Administrative Expenses	-
3	Grant from Govt. / Private agencies	-	3	Training and Development	17,28,536.00
4	Grants / Contribution from other sources (Management)	-	4	Laboratory Consumables	-
5	Scholarships received	-	5	Library	52,915.17
6	Other Income	8,23,968.00	6	Travel	-
			7	Fees Paid to University / Board / Government / AICTE / UGC	10,129.00
			8	Repairs and Maintenance	1,53,491.00
			9	Scholarships / Concessions / Fellowships / Honorarium etc., awarded / incurred (other than Govt. grants	-
			10	Expenditure of grants received from Govt. / Private agencies.	-
			11	Depreciation	5,25,317.00
			12	Any other expenditure	2,59,361.00
			13	Excess of Income Over Expenditure	(12,27,278.17)
	Total	78,99,438.00		Total	78,99,438.00

Principal
PRINCIPAL
MADRAS CHRISTIAN COLLEGE
TAMBARAM
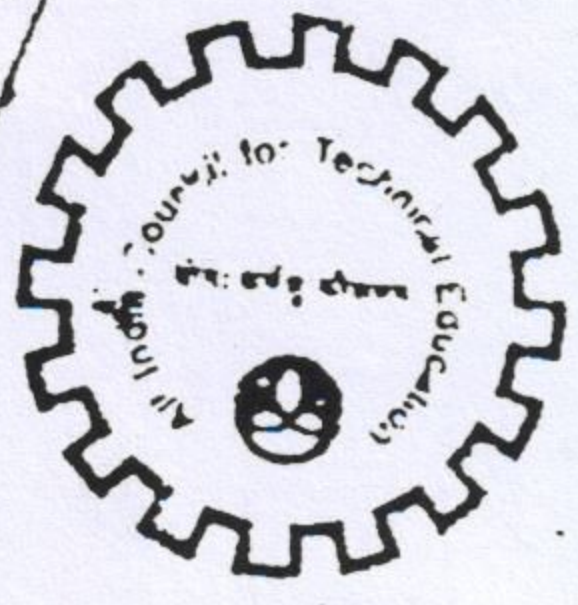
Auditor

18. LoA and subsequent EoA till the current Academic Year

अखिल भारतीय तकनीकी शिक्षा परिषद्
ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
(भारत सरकार का एक सांविधिक संस्थान) (A STATUTORY BODY OF THE GOVERNMENT OF INDIA)

F.No.: TN-13/ET-MCA/2000
Date : 30.6.2001

Secretary to Govt.,
Higher Education Department,
Government of Tamil Nadu.
Secretariat, Fort St. George,
Chennai - 600 009

Sub: AICTE approval to MADRAS CHRISTIAN COLLEGE ASSOCIATION, TAMBARAM, CHENNAI TAMILNADU for establishment of MADRAS CHRISTIAN COLLEGE, TAMBARAM, CHENNAI- 600 059, TAMILNADU

Sir,

I am directed to state that based on the consultations with the concerned State Govt., the concerned affiliating body and on recommendations of the Regional Committee, the Expert Committee constituted by the Council and as per the provisions of AICTE Act and Regulations, the All India Council for Technical Education (AICTE), is pleased to accord approval to MADRAS CHRISTIAN COLLEGE ASSOCIATION, TAMBARAM, CHENNAI, TAMIL NADU for establishment of MADRAS CHRISTIAN COLLEGE, TAMBARAM, CHENNAI – 600 059, TAMIL NADU for the academic year 2001-2002, for course(s) and intake as given below with specific condition that admission shall be made through the Central Counseling by the Government of TAMIL NADU only. This approval is valid only for the academic years 2001-2002 and cannot be extended for the next year 2002-2003. In the event the establishment of the institutions having not been operationalised, this approval is not valid unless AICTE specifically revalidates.

COURSE(S)	INTAKE	LEVEL	PERIOD OF APPROVAL
MASTERS IN COMPUTER APPLICATION (MCA) (3 YRS FULL TIME DAY PROGRAMME)	30	Degree	2001-02

This approval has been accorded subject to fulfillment of general conditions and as per the Norms and Standards of the AICTE, and also specific conditions given at annexure-I.

The attention of the management is drawn to the fact that the approval given now is only for one academic session before the end of which an expert committee shall visit to assess if the norms and standards as stipulated by AICTE are fulfilled, and only then will the continuation or otherwise shall be intimated.

The admission will be made in accordance with Regulations notified by the AICTE vide GSR 476(E) dated 20.05.1994 based on the Hon'ble Supreme Court Judgement dated 04.02.1993 with regard to WP(C) No. 607 of 1992 in the case of Unni Krishanan JP and other etc. V/s State Government of Andhra Pradesh and others etc.
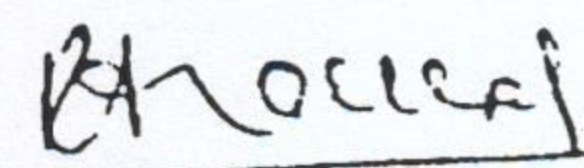
Contd..

2

In the event of infringement/contravention or non-compliance of the provisions of AICTE Regulations, Guidelines or the norms and standards as prescribed by the AICTE, the Council shall take further action to withdraw approval, and the liability arising out of such withdrawal of approval will be solely that of Management/Trust/Society and/or Institution.

The Council may inspect/ visit the Institution any time it may deem fit to verify the progress/ compliance.

You are requested to kindly monitor the progress made by this institution towards fulfilling the norms and standards prescribed by the Council and keep the concerned Regional Office and AICTE, New Delhi informed.

Yours faithfully,

(Prof. R.S. Gaud)

Copy to :

1. The Regional Officer, AICTE, ,SRO ,26 HADDOWS ROAD ,CHENNAI

He is requested to monitor compliance with the Norms and Standards and conditions stipulated by the Council and keep the concerned Regional Committee and the AICTE informed of the same.

He is also requested to ensure the receipt of notorised undertaking as specified by the Council from the institution/management concerned within the stipulate time frame.

2 . The Director of Technical Education, Govt. of TAMIL NADU , CHENNAI

3 . The Registrar, MARDAS UNIVERSITY.

He is requested to complete the process of affiliation for facilitating admissions.

4.   The Principal,   MADRAS CHRISTIAN COLLLEGE, TAMBARAM , CHENNAI – 600059 , TAMIL NADU

(i)The institution should submit a notorised undertaking on non-judicial stamp paper as per format given in Annexure I to the concerned Regional Office, AICTE with a copy to the Headquarters, AICTE, New Delhi within one month from the date of receipt of this approval letter.
(ii)The institution/management should also submit a notorised undertaking from the Governing Body to the concerned Regional Office, AICTE with a copy to Headquarters, AICTE, New Delhi and to the concerned State Government, that all the infrastructural and instructional facilities shall be in place as per the norms of AICTE prior to the admissions of any student for the academic year 2001-2002.

5. Guard File

(Notarized Undertaking to be submitted duly signed on a non-judicial stamp paper)

I/We hereby undertake on behalf of the .... (Name of Trust/ Society) to follow and fulfill the following of .... (Name of the Institution) vide AICTE letter No. .... dated .... We hereby bind ourself not to violate in this context including based on orders of the State Govt. or the affiliating University. :

1. The admissions shall be made only after required teachers are recruited and adequate infrastructure and all other facilities are created as per norms and guidelines of the AICTE/Govt. of India/ State Govt. and obtaining the affiliation from the concerned University in case of degree programs. The Institute shall fulfill all specific conditions(if any) as laid down in this letter and revised by the AICTE from time to time. We are aware that following all the norms of AICTE as amended from time to time will be our responsibility.

2. The admission to the approved program shall be made only once in a year for approved intake capacity only and no increase in intake over and above the intake mentioned in this letter shall be made.

3. The approved course shall commence as per the academic calender of the affiliating university or in the month of July - August of each academic year.

4. The curriculum of the course, the procedure for evaluation/ assessment of students shall be in accordance with the norms prescribed by the AICTE/ affiliating agency.

5. The faculty strength and quality shall be maintained by the institute as per qualifications and pay scales prescribed by AICTE from time to time. The selection of faculty shall be made by a selection committee having representation from the State Govt./University and AICTE.

6. The tuition fee and other charges shall be charged as prescribed by the competent authority (i.e. State Level Committee constituted by AICTE as stipulated in GSR 476(E)). The institutions will furnish a declaration giving the actual fees collected from the students. We are aware that collecting the fees over and above that fixed by Competent Authority will be a violation leading to withdrawal of approval by AICTE.

7. All academic and physical infrastructural facilities shall be continued to be provided/ updated by the institute with the state of art, latest equipments.

8. No new course(s) shall be started in the same premises and no increase shall be made in the intake of other existing courses without prior concurrence of the AICTE.

9. The Governing body and Advisory body of the institute shall be constituted as per Guidelines prescribed by the AICTE from time to time.

10. The location and name of institution shall not be changed after the date of issue of first approval letter. The name and title of the institution shall not violate "The Emblems and Names (Prevention of improper use) act 12 (1950) of Government of India.

11. No change in the composition of society / trust shall be permitted without AICTE's prior concurrence.

12. The institution shall furnish requisite documents and reports as desired by AICTE and its original from time to time.

13. The administrative, academic and financial records including accounts shall be maintained for this institution separately. The accounts shall be audited annually by a Chartered Accountant and all the records and reports shall be open for inspection by the AICTE or anybody authorized by it.

14. The Council may decide to send an Expert Committee or authorise any officer of AICTE including surprise visit to the institute to verify the compliance of the conditions as laid-down and any other specific conditions to make necessary recommendations for further extension of AICTE approval to the conduct of the approved course(s).

15. The information furnished in respect of the proposal are factual and correct. In the event of any information is found to be false, misleading or suppressed at a later date the approval accorded may be withdrawn by the AICTE in pursuance of Clause 12 of AICTE Regulations, 1994.

16. In the event of non-compliance by the Society with regard to Act, Gazette Regulations/ Guidelines, norms and conditions laid down by AICTE from time to time, the AICTE or a body or a person authorized by it will be free to take measures for withdrawal of its approval without consideration of any related issues and that all liabilities arising out of such a withdrawal would solely be that of the concerned Society.

17. The institute by virtue of the approval given by AICTE shall not automatically become claimant to any financial grant or assistance from the Central or State Government.

18. The institute shall observe all instructions/ guidelines issued by the AICTE and its regional office regarding mode of selection of candidates for admissions prescribing fees and on all matters having relevance to maintaining high quality and standards of teaching learning process in the institution. No capitation shall be charged and no charges other than the fee fixed by the Competent Authority shall be levied on students hereby agree to furnish a certificate to the effect on the last date of admissions during every academic year.

19. The Institution shall be liable to bear all expenses payable to the students admitted to academic programs due to discontinuation of the institution by its own will or by AICTE including all demurrages incurred due to loss of time already pursued by the admitted students in the programs. The Institution shall also be responsible for suitable demurrages to the faculty and staff recruited in it.

20. The management of the college shall fully comply with the "SCHEME" as prescribed by the Supreme Court in its judgment dated 4.2.93 with regard to WP(c) No. 607 of 1992 in the case of UnniKrishnan and others vs. State of Andhra Pradesh and others and the related guidelines and criteria as may be issued by the AICTE, UGC or the Central Government from time to time.

21. The institution will not indulge in advertisements which could be construed as commercialization of Technical Education.

    The institutions shall not collaborate or associate with any other institution or University neither Indian nor foreign to award one or more joint degrees or diplomas to the students admitted to the AICTE approved program.

23. Each institution shall submit to AICTE through its Regional Office, a list of candidates admitted to the approved program(s) after finalizing admission (latest by August 31 of each year) giving names, percentage of marks in qualifying examinations and score in written test in addition to the above mentioned particulars like score in group discussion and interview with relative weightage and criteria of admission followed, constitution of admission committee in respect of MBA and MCA programmes. A declaration shall be submitted to the effect that the institute indulged in no deviation from the norms of AICTE including actual intake in the institution.

Date :
Place :

Signature
(Chairman/President of Trust/ Society)

F.No.: TN-13/ET-MCA/2000

MADRAS CHRISTIAN COLLLEGE,
TAMBARAM ,
CHENNAI – 600059 ,
TAMIL NADU
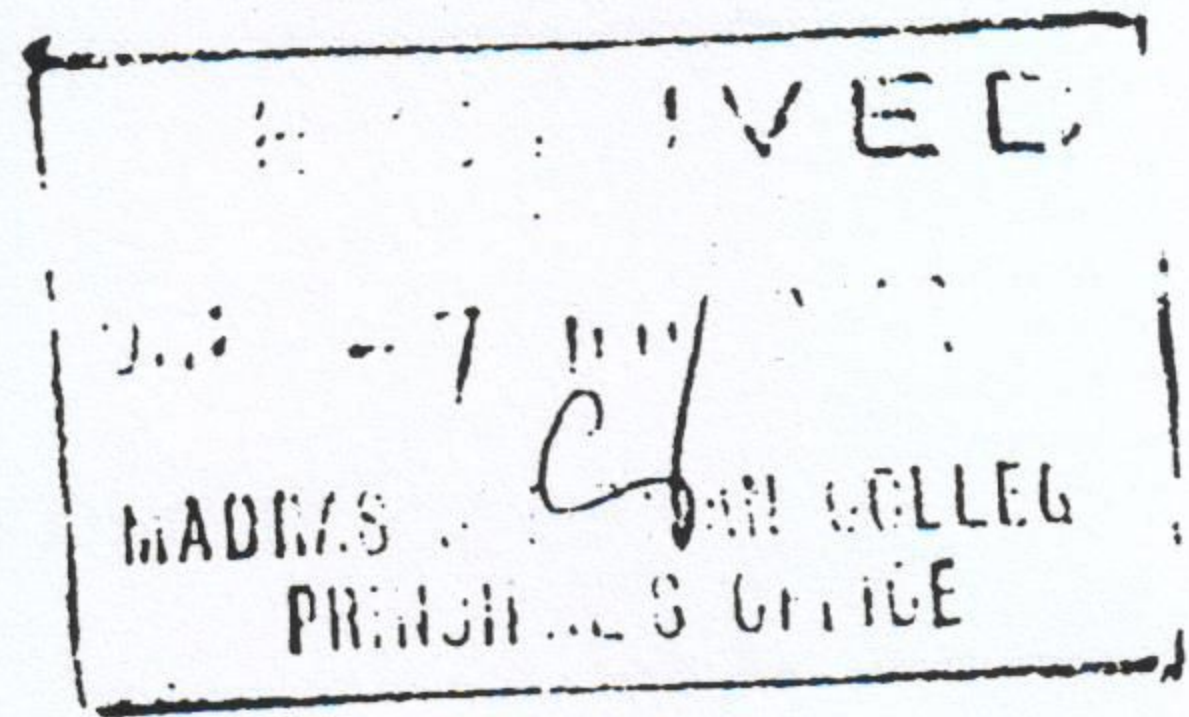
SPECIFIC CONDITIONS :

1. Library should be developed with more space & books.
2. At least one more faculty should be appointed. At the level of Asstt. Prof (
   Reader) .

Prof R.S.Gaud

Adviser(E&T)

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

F.No. Southern/1-455334892/2011/EOA   Date: 01-09-2011

To,
The Principal Secretary
(Higher Education) Govt. of Tamil Nadu,
N. K. M. Bld. 6th Floor Secretariat,
Chennai-600009

Sub: Extension of approval for the academic year 2011-12.
Ref : Application of the Institution for Extension of Approval for the Year 2011-12

Sir/Madam,

In terms of the Regulations notified by the Council vide F.No. 37-3/Legal/2011 dated 10/12/2010 and norms, standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the extension of approval of the Council to

Regional Office	Southern	Application Id	1-455334892
		Permanent Id	
Name of the Institute	MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)	Institute Address	TAMBARAM EAST CHENNAI-600 059,TAMBARAM,KANCHIPURAM,Tamil Nadu,600059
Name of the Society/Trust	MCC ASSOCIATION	Society/Trust Address	MADRAS CHRISTIAN COLLEGE TAMBARAM CHENNAI-600 059,TAMBARAM,KANCHIPURAM,Tamil Nadu,600059
Institute Type	Govt aided		

to conduct following courses with the intake indicated below for the academic year 2011-12

Application Id: 1-455334892			Course	Full/Part Time	Affiliating Body	Intake 2010-11	Intake Approved for 11-12	NRI	PIO	Foreign Collaboration
Program	Shift	Level								
MCA	1st Shift	POST GRADUATE	MASTERS IN COMPUTER APPLICATIONS	FULL TIME	University of Madras, Chennai	30	30	No	No	No

The above mentioned approval is subject to the condition that MADRAS CHRISTIAN COLLEGE (AUTONOMOUS) shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Application Number : 1-455334892   Page 1 of 2

Note: This is a Computer generated Extension of Approval Letter. No signature is required.   Date of printing: 25-10-2011

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

(Dr. K P Isaac)

Member Secretary, AICTE

Copy to:

1. **The Regional Officer,**
   All India Council for Technical Education
   Shastri Bhawan 26, Haddows Road
   Chennai - 600 006, Tamil Nadu

2. **The Director Of Technical Education,**
   Tamil Nadu

3. **The Registrar,**
   University of Madras, Chennai

4. **The Principal / Director,**
   MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)
   TAMBARAM EAST
   CHENNAI-600 059,
   TAMBARAM,KANCHIPURAM,
   Tamil Nadu,600059

5. **The Secretary / Chairman,**
   MCC ASSOCIATION
   MADRAS CHRISTIAN COLLEGE
   TAMBARAM
   CHENNAI-600 059,
   TAMBARAM,KANCHIPURAM,
   Tamil Nadu,600059

6. **Guard File(AICTE)**

Note: This is a Computer generated Extension of Approval Letter. No signature is required.   Date of printing: 25-10-2011

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

F.No. Southern/1-755366572/2012/EOA   Date: 10/05/2012

To,
The Principal Secretary
(Higher Education) Govt. of Tamil Nadu,
N. K. M. Bld. 6th Floor Secretariat,
Chennai-600009

Sub: Extension of approval for the academic year 2012-13

Ref: Application of the Institution for Extension of approval for the academic year 2012-13

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2010 notified by the Council vide notification number F-No.37-3/Legal/2010 dated 10/12/2010 and amendment vide notification number F-No.37-3/Legal/2011 dated 30/09/2011 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	Southern	Application Id	1-755366572
		Permanent Id	1-455334892
Name of the Institute	MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)	Institute Address	TAMBARAM EAST CHENNAI-600 059, TAMBARAM, KANCHIPURAM, Tamil Nadu, 600059
Name of the Society/Trust	MCC ASSOCIATION	Society/Trust Address	MADRAS CHRISTIAN COLLEGE TAMBARAM CHENNAI-600 059,TAMBARAM,KANCHIPURAM,Tamil Nadu,600059
Institute Type	Govt aided		

Opted for change from Women to Co-ed	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

to conduct following courses with the intake indicated below for the academic year 2012-13

Application Number: 1-755366572*   Page **1** of **3**

Note: This is a Computer generated Extension of Approval Letter. No signature is required.   Letter Printed On:11 January 2013.

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All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Application Id: 1-755366572			Course	Full/Part Time	Affiliating Body	Intake 2011-12	Intake Approved for 12-13	NRI	PIO	Foreign Collaboration
Program	Shift	Level								
MCA	1st Shift	POST GRADUATE	MASTERS IN COMPUTER APPLICATIONS	FULL TIME	University of Madras, Chennai	30	30	No	No	No

The above mentioned approval is subject to the condition that MADRAS CHRISTIAN COLLEGE (AUTONOMOUS) shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

(Dr. K P Isaac)

Member Secretary, AICTE

Copy to:

1. **The Regional Officer,**
   All India Council for Technical Education
   Shastri Bhawan 26, Haddows Road
   Chennai - 600 006, Tamil Nadu

2. **The Director Of Technical Education,**
   Tamil Nadu

3. **The Registrar,**
   University of Madras, Chennai

4. **The Principal / Director,**
   MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)
   TAMBARAM EAST
   CHENNAI-600 059,
   TAMBARAM,KANCHIPURAM,

Note: This is a Computer generated Extension of Approval Letter. No signature is required.   Letter Printed On:11 January 2013.

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PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Tamil Nadu,600059

5. **The Secretary / Chairman,**
   MCC ASSOCIATION
   MADRAS CHRISTIAN COLLEGE
   TAMBARAM
   CHENNAI-600 059,
   TAMBARAM,KANCHIPURAM,
   Tamil Nadu,600059

6. **Guard File(AICTE)**

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Printed By : ae6799211

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

F.No. Southern/1-1490712488/2013/EOA　　　　　　　　　　　　　　　　Date: 19-Mar-2013

To,
The Principal Secretary
(Higher Education) Govt. of Tamil Nadu,
N. K. M. Bld. 6th Floor Secretariat,
Chennai-600009

Sub: Extension of approval for the academic year 2013-14

Ref: Application of the Institution for Extension of approval for the academic year 2013-14

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	Southern	Application Id	1-1490712488
		Permanent Id	1-455334892
Name of the Institute	MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)	Institute Address	TAMBARAM EAST CHENNAI-600 059, TAMBARAM, KANCHIPURAM, Tamil Nadu, 600059
Name of the Society/Trust	MCC ASSOCIATION	Society/Trust Address	MADRAS CHRISTIAN COLLEGE TAMBARAM CHENNAI-600 059,TAMBARAM,KANCHIPURAM,Tamil Nadu,600059
Institute Type	Govt aided		

Opted for change from Women to Co-ed	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

to conduct following courses with the intake indicated below for the academic year 2013-14

Note: This is a Computer generated Extension of Approval Letter. No signature is required.　　　　Letter Printed On:16 May 2014.

Printed By : ae6799211

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Application Id: 1-1490712488			Course	Full/Part Time	Affiliating Body	Intake 2012-13	Intake Approved for 13-14	NRI	PIO	Foreign Collaboration
Program	Shift	Level								
MCA	1st Shift	POST GRADUATE	MASTERS IN COMPUTER APPLICATIONS	FULL TIME	Madaras University, Chennai	30	30	NA	NA	NA

- Validity of the course details may be verified at www.aicte-india.org>departments>approvals

The above mentioned approval is subject to the condition that MADRAS CHRISTIAN COLLEGE (AUTONOMOUS) shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

(Dr. Kuncheria P. Isaac)

Member Secretary, AICTE

Copy to:

1. **The Regional Officer,**
   All India Council for Technical Education
   Shastri Bhawan 26, Haddows Road
   Chennai - 600 006, Tamil Nadu

2. **The Director Of Technical Education,**
   Tamil Nadu

3. **The Registrar,**
   Madaras University, Chennai

4. **The Principal / Director,**
   MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)

Note: This is a Computer generated Extension of Approval Letter. No signature is required.   Letter Printed On:16 May 2014.

Printed By : ae6799211

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

TAMBARAM EAST
CHENNAI-600 059,
TAMBARAM,KANCHIPURAM,
Tamil Nadu,600059

5. **The Secretary / Chairman,**
    MCC ASSOCIATION
    MADRAS CHRISTIAN COLLEGE
    TAMBARAM
    CHENNAI-600 059,
    TAMBARAM,KANCHIPURAM,
    Tamil Nadu,600059

6. **Guard File(AICTE)**

Application Number: 1-1490712488*   Page **3** of **3**

Note: This is a Computer generated Extension of Approval Letter. No signature is required.   Letter Printed On:16 May 2014.

Printed By : ae6799211

F.No. Southern/1-2016622429/2014/EOA

Date: 04-Jun-2014

To,
The Principal Secretary
(Higher Education) Govt. of Tamil Nadu,
N. K. M. Bld. 6th Floor Secretariat,
Chennai-600009

Sub: Extension of approval for the academic year 2014-15

Ref: Application of the Institution for Extension of approval for the academic year 2014-15

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	Southern	Application Id	1-2016622429
		Permanent Id	1-455334892
Name of the Institute	MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)	Institute Address	TAMBARAM EAST CHENNAI-600 059, TAMBARAM, KANCHIPURAM, Tamil Nadu, 600059
Name of the Society/Trust	MCC ASSOCIATION	Society/Trust Address	MADRAS CHRISTIAN COLLEGE TAMBARAM CHENNAI-600 059,TAMBARAM,KANCHIPURAM,Tamil Nadu,600059
Institute Type	Govt aided		

Opted for change from Women to Co-ed	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

to conduct following courses with the intake indicated below for the academic year 2014-15

Note: This is a Computer generated Letter of Approval.No signature is required.

Letter Printed On:4 August 2014

Printed By : AE6799211

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Application Id: 1-2016622429			Course		Affiliating Body	Intake 2013-14	Intake Approved for 14-15	NRI Approval status	PIO Approval status	Foreign Collaboration Approval status
Program	Shift	Level		Full/Part Time						
MCA	1st Shift	POST GRADUA TE	MASTERS IN COMPUTER APPLICATIONS	FULL TIME	Madaras University, Chennai	30	30	NA	NA	N

- Validity of the course details may be verified at www.aicte-india.org>departments>approvals

The above mentioned approval is subject to the condition that MADRAS CHRISTIAN COLLEGE (AUTONOMOUS) shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal and subsequently upload and update the student/ faculty/ other data on portal as per the time schedule which will be intimated by AICTE.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

(Dr. Kuncheria P. Isaac)

Member Secretary, AICTE

Copy to:

1. **The Regional Officer,**
   All India Council for Technical Education
   Shastri Bhawan 26, Haddows Road
   Chennai - 600 006, Tamil Nadu

2. **The Director Of Technical Education,**
   Tamil Nadu

Note: This is a Computer generated Letter of Approval.No signature is required.

Letter Printed On:4 August 2014

Printed By : AE6799211

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

3. **The Registrar,**
    Madaras University, Chennai

4. **The Principal / Director,**
    MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)
    TAMBARAM EAST
    CHENNAI-600 059,
    TAMBARAM,KANCHIPURAM,
    Tamil Nadu,600059

5. **The Secretary / Chairman,**
    MCC ASSOCIATION
    MADRAS CHRISTIAN COLLEGE
    TAMBARAM
    CHENNAI-600 059,
    TAMBARAM,KANCHIPURAM,
    Tamil Nadu,600059

6. **Guard File(AICTE)**

Application Number: 1-2016622429*   Page **3** of **3**

Note: This is a Computer generated Letter of Approval.No signature is required.   Letter Printed On:4 August 2014

Printed By : AE6799211

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

F.No. Southern/1-2452366592/2015/EOA

Date: 07-Apr-2015

To,
The Principal Secretary
(Higher Education) Govt. of Tamil Nadu,
N. K. M. Bld. 6th Floor Secretariat,
Chennai-600009

Sub: Extension of approval for the academic year 2015-16

Ref: Application of the Institution for Extension of approval for the academic year 2015-16

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	Southern	Application Id	1-2452366592
		Permanent Id	1-455334892
Name of the Institute	MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)	Institute Address	TAMBARAM EAST CHENNAI-600 059, TAMBARAM, KANCHIPURAM, Tamil Nadu, 600059
Name of the Society/Trust	MCC ASSOCIATION	Society/Trust Address	MADRAS CHRISTIAN COLLEGE TAMBARAM CHENNAI-600 059,TAMBARAM,KANCHIPURAM,Tamil Nadu,600059
Institute Type	Govt aided		

Opted for change from Women to Co-ed	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2015-16

Note: This is a Computer generated Letter of Approval.No signature is required.

Letter Printed On:16 April 2015

Printed By : AE6799211

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Application Id: 1-2452366592			Course		Full/Part Time	Affiliating Body	Intake 2014-15	Intake Approved for 15-16	NRI Approval status	PIO Approval status	Foreign Collaboration Approval status
Program	Shift	Level									
MCA	1st Shift	POST GRADUATE	MASTERS IN COMPUTER APPLICATIONS		FULL TIME	Madaras University, Chennai	30	30	NA	NA	NA

Note: Validity of the course details may be verified at www.aicte-india.org>departments>approvals

The above mentioned approval is subject to the condition that MADRAS CHRISTIAN COLLEGE (AUTONOMOUS) shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Dr. Avinash S Pant
Actg Chairman, AICTE

Copy to:

1. **The Regional Officer,**
   All India Council for Technical Education
   Shastri Bhawan 26, Haddows Road
   Chennai - 600 006, Tamil Nadu

2. **The Director Of Technical Education,**
   Tamil Nadu

3. **The Registrar,**
   Madaras University, Chennai

4. **The Principal / Director,**
   MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)

Note: This is a Computer generated Letter of Approval.No signature is required.

Letter Printed On:16 April 2015

Printed By : AE6799211

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

TAMBARAM EAST
CHENNAI-600 059,
TAMBARAM,KANCHIPURAM,
Tamil Nadu,600059

5. **The Secretary / Chairman,**
    MCC ASSOCIATION
    MADRAS CHRISTIAN COLLEGE
    TAMBARAM
    CHENNAI-600 059,
    TAMBARAM,KANCHIPURAM,
    Tamil Nadu,600059

6. **Guard File(AICTE)**

Application Number: 1-2452366592*   Page **3** of **3**

Note: This is a Computer generated Letter of Approval.No signature is required.   Letter Printed On:16 April 2015

Printed By : AE6799211

All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela MargVasant Kunj, New Delhi-110067
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

F.No. Southern/1-3325079711/2017/EOA

Date: 30-Mar-2017

To,

The Principal Secretary
(Higher Education) Govt. of Tamil Nadu,
N. K. M. Bld. 6th Floor Secretariat,
Chennai-600009

Sub: Extension of approval for the academic year 2017-18

Ref: Application of the Institution for Extension of approval for the academic year 2017-18

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2016 notified by the Council vide notification number F.No.AB/AICTE/REG/2016 dated 30/11/2016 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Permanent Id	1-455334892	Application Id	1-3325079711
Name of the Institute	MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)	Institute Address	TAMBARAM EAST CHENNAI-600 059, TAMBARAM, KANCHIPURAM, Tamil Nadu, 600059
Name of the Society/Trust	MCC ASSOCIATION	Society/Trust Address	MADRAS CHRISTIAN COLLEGE TAMBARAM CHENNAI-600 059,TAMBARAM,KANCHIPURAM,Tamil Nadu,600059
Institute Type	Govt aided	Region	Southern

Opted for change from Women to Co-ed and Vice versa	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved and Vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable
Opted for Conversion from degree to diploma	No	Opted for Conversion from diploma to degree	No	Conversion (degree to diploma or vice-a-versa) Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2017-18

Application Id: 1-3325079711			Course	Full/Part Time	Affiliating Body	Intake Approved for 2016-17	Intake Approved for 2017-18	NRI Approval status	PIO / FN / Gulf quota/ OCI/ Approval status	Foreign Collaborarion/Twining Program Approval status
Program	Shift	Level								
MCA	1st Shift	POST GRA	MASTERS IN COMPUTER APPLICATIONS	FULL TIME	Madras University, Chennai	30	30	NA	NA	NA

Application Number: 1-3325079711
Note: This is a Computer generated Report.No signature is required.

Page **1** of 3
Letter Printed On:3 May 2017

Printed By : ae6799211

All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela MargVasant Kunj, New Delhi-110067
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

		DUA TE								

The above mentioned approval is subject to the condition that

MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)

shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Note: Validity of the course details may be verified at www.aicte-india.org

Prof. A.P Mittal
Member Secretary, AICTE

Copy to:

1. **The Regional Officer,**
   All India Council for Technical Education
   Shastri Bhawan 26, Haddows Road
   Chennai - 600 006, Tamil Nadu

2. **The Director Of Technical Education**,
   Tamil Nadu

3. **The Registrar**,
   Madras University, Chennai

4. **The Principal / Director,**
   MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)
   TAMBARAM EAST
   CHENNAI-600 059,
   TAMBARAM,KANCHIPURAM,
   Tamil Nadu,600059

5. **The Secretary / Chairman,**
   MCC ASSOCIATION
   MADRAS CHRISTIAN COLLEGE
   TAMBARAM
   CHENNAI-600 059,
   TAMBARAM,KANCHIPURAM,
   Tamil Nadu,600059

6. **Guard File(AICTE)**

Application Number: 1-3325079711
Note: This is a Computer generated Report.No signature is required.
Printed By : ae6799211

Page **2** of **3**
Letter Printed On:3 May 2017

All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela MargVasant Kunj, New Delhi-110067
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Note: ** - Approval letter copy will not be communicated through post/email. However, provision is made in the portal for downloading Approval letter through Authorized login credentials allotted to concerned DTE/Registrar.

Application Number: 1-3325079711
Note: This is a Computer generated Report.No signature is required.
Printed By : ae6799211

Page **3** of **3**
Letter Printed On:3 May 2017

All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg,Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org

APPROVAL PROCESS 2018-19

Extension of Approval (EoA)

F.No. Southern/1-3512560318/2018/EOA

Date: 04-Apr-2018

To,

The Principal Secretary
(Higher Education) Govt. of Tamil Nadu,
N. K. M. Bld. 6th Floor Secretariat,
Chennai-600009

Sub: Extension of Approval for the Academic Year 2018-19

Ref: Application of the Institution for Extension of approval for the Academic Year 2018-19

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2016 notified by the Council vide notification number F.No.AB/AICTE/REG/2016 dated 30/11/2016 and amended on December 5, 2017 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Permanent Id	1-455334892	Application Id	1-3512560318
Name of the Institute	MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)	Name of the Society/Trust	MCC ASSOCIATION
Institute Address	TAMBARAM EAST CHENNAI-600 059, TAMBARAM, KANCHIPURAM, Tamil Nadu, 600059	Society/Trust Address	MADRAS CHRISTIAN COLLEGE TAMBARAM CHENNAI-600 059,TAMBARAM,KANCHIPURAM,Tamil Nadu,600059
Institute Type	Govt aided	Region	Southern

Opted for Change from Women to Co-Ed and vice versa	No	Change from Women to Co-Ed and vice versa Approved or Not	NA
Opted for Change of Name	No	Change of Name Approved or Not	NA
Opted for Change of Site	No	Change of Site Approved or Not	NA
Opted for Conversion from Degree to Diploma or vice versa	No	Conversion for Degree to Diploma or vice versa Approved or Not	NA
Opted for Organization Name Change	No	Change of Organization Name Approved or Not	NA

To conduct following Courses with the Intake indicated below for the Academic Year 2018-19

Program	Shift	Level	Course	FT/PT+	Affiliating Body (Univ/Body)	Intake Approved for 2018-19	NRI Approval Status	PIO / FN / Gulf quota/ OCI/ Approval Status	Foreign Collaboration /Twining Program Approval Status*
MCA	1st	POST GRADUATE	MASTERS IN COMPUTER APPLICATIONS	FT	Madras University, Chennai	30	NA	NA	NA

+FT –Full Time,PT-Part Time

Application No:1-3512560318
Note: This is a Computer generated Report. No signature is required.
Printed By : ae6799211

Page **1** of **3**

Letter Printed On:14 June 2018

Deficiencies Noted based on Self Disclosure	
Particulars	**Deficiency**
Other Details Deficiency	
Are all approved teaching faculty being paid as per VI pay commission?	Yes
Other Facilities Deficiency	
Establishment of Internal Complaint Committee(ICC) As per section 4 of SexualHarassment of Women at Workplace (Prevention, Prohibition and Redressal) Act,2013	Yes
Compliance of the National Academic Depository(NAD) as per MHRD Directives	Yes
Display Board within the premises as well as in the Website of the Institution Indicating the Feedback Facility of Students and Faculty available in the AICTE Web Portal	Yes
Provision to watch MOOCS Courses through Swayam	Yes
Applied membership-National Digital Library	Yes
Online Grievance Rederssal Mechanism	Yes
Computational Facilities	
Internet Bandwidth-Applied Intake	Yes
Instructional Area- MCA	
Laboratories-All	Yes

*Please refer Deficiency Report for details

MADRAS CHRISTIAN COLLEGE (AUTONOMOUS) is hereby informed to submit the compliance of the deficiencies mentioned above to the Regional Office within a period of **6 months** from the date of issuance of this letter failing which the council shall initiate strict action as defined in Approval Process Handbook 2018-19 during the subsequent Academic Year.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation: - Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Prof. A.P Mittal
Member Secretary, AICTE

Copy to:
1. The Regional Officer,
   All India Council for Technical Education
   Shastri Bhawan 26, Haddows Road
   Chennai - 600 006, Tamil Nadu

2. The Director Of Technical Education**,
   Tamil Nadu

3. The Registrar**,
   Madras University, Chennai

4. The Principal / Director,
   MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)
   TAMBARAM EAST
   CHENNAI-600 059,
   TAMBARAM,KANCHIPURAM,
   Tamil Nadu,600059

5. The Secretary / Chairman,
   MCC ASSOCIATION
   MADRAS CHRISTIAN COLLEGE
   TAMBARAM
   CHENNAI-600 059,
   TAMBARAM,KANCHIPURAM,
   Tamil Nadu,600059

6. Guard File(AICTE)

Application No:1-3512560318
Note: This is a Computer generated Report. No signature is required.
Printed By : ae6799211

Page **2** of 3

Letter Printed On:14 June 2018

** Individual Approval letter copy will not be communicated through Post/Email. However, consolidated list of Approved Institutions(bulk) will be shared through official Email Address to the concerned Authorities mentioned above.

This EOA Report is for Academic Year 2018-2019 with Status as "EOA Recommended by Council".
Please print this Report from the application which has Academic year as 2018-2019 and Status as "EOA Recommended by Council".

Application No:1-3512560318
Note: This is a Computer generated Report. No signature is required.
Printed By : ae6799211

Page **3** of 3

Letter Printed On:14 June 2018

F.No. Southern/1-2811376804/2016/EOA   Date: 25-Apr-2016

To,

The Principal Secretary
(Higher Education) Govt. of Tamil Nadu,
N. K. M. Bld. 6th Floor Secretariat,
Chennai-600009

Sub: Extension of approval for the academic year 2016-17

Ref: Application of the Institution for Extension of approval for the academic year 2016-17

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	Southern	Application Id	1-2811376804
Name of the Institute	MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)	Permanent Id	1-455334892
Name of the Society/Trust	MCC ASSOCIATION	Institute Address	TAMBARAM EAST CHENNAI-600 059, TAMBARAM, KANCHIPURAM, Tamil Nadu, 600059
Institute Type	Govt aided	Society/Trust Address	MADRAS CHRISTIAN COLLEGE TAMBARAM CHENNAI-600 059,TAMBARAM,KANCHIPURAM,Tamil Nadu,600059

Opted for change from Women to Co-ed and Vice versa	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved and Vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2016-17

Application Id: 1-2811376804			Course	Full/Part Time	Affiliating Body	Intake 2015-16	Intake Approved for 2016-17	NRI Approval status	PIO / FN / Gulf quota Approval status	Foreign Collaboration/Twining Program Approval status
Program	Shift	Level								
MCA	1st Shift	POST GRADUA	MASTERS IN COMPUTER APPLICATIONS	FULL TIME	Madaras University, Chennai	30	30	NA	NA	NA

Application Number: 1-2811376804   Page **1** of **2**
Note: This is a Computer generated Report.No signature is required.   Letter Printed On:5 July 2016

Printed By : ae6799211

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

		TE							

The above mentioned approval is subject to the condition that MADRAS CHRISTIAN COLLEGE (AUTONOMOUS) shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Note: Validity of the course details may be verified at www.aicte-india.org

Dr. Avinash S Pant
Vice - Chairman, AICTE

Copy to:
1. **The Regional Officer,**
    All India Council for Technical Education
    Shastri Bhawan 26, Haddows Road
    Chennai - 600 006, Tamil Nadu

2. **The Director Of Technical Education,**
    Tamil Nadu

3. **The Registrar,**
    Madaras University, Chennai

4. **The Principal / Director,**
    MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)
    TAMBARAM EAST
    CHENNAI-600 059,
    TAMBARAM,KANCHIPURAM,
    Tamil Nadu,600059

5. **The Secretary / Chairman,**
    MCC ASSOCIATION
    MADRAS CHRISTIAN COLLEGE
    TAMBARAM
    CHENNAI-600 059,
    TAMBARAM,KANCHIPURAM,
    Tamil Nadu,600059

6. **Guard File(AICTE)**

Application Number: 1-2811376804
Note: This is a Computer generated Report.No signature is required.
Printed By : ae6799211

Page **2** of **2**
Letter Printed On:5 July 2016

All India Council for Technical Education

APPROVAL PROCESS 2019-20

Extension of Approval (EoA)

Date: 10-Apr-2019

F.No. Southern/1-4260781786/2019/EOA

To,

The Principal Secretary
(Higher Education) Govt. of Tamil Nadu,
N. K. M. Bld. 6th Floor Secretariat,
Chennai-600009

Sub: Extension of Approval for the Academic Year 2019-20

Ref: Application of the Institution for Extension of approval for the Academic Year 2019-20

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2018 notified by the Council vide notification number F.No.AB/AICTE/REG/2018 dated 31/12/2018 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Permanent Id	1-455334892	Application Id	1-4260781786
Name of the Institute	MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)	Name of the Society/Trust	MCC ASSOCIATION
Institute Address	TAMBARAM EAST CHENNAI-600 059, TAMBARAM, KANCHIPURAM, Tamil Nadu, 600059	Society/Trust Address	MADRAS CHRISTIAN COLLEGE TAMBARAM CHENNAI-600 059,TAMBARAM.KANCHIPURAM,Tamil Nadu,600059
		Region	Southern
Institute Type	Govt aided		

Opted for Change from Women to Co-Ed and vice versa	No	Change from Women to Co-Ed and vice versa Approved or Not	NA
Opted for Change of Name	No	Change of Name Approved or Not	NA
Opted for Change of Site/Location	No	Change of Site/Location Approved or Not	NA
Opted for Conversion from Degree to Diploma or vice versa	No	Conversion for Degree to Diploma or vice versa Approved or Not	NA
Opted for Organization Name Change	No	Change of Organization Name Approved or Not	NA
Opted for Merger of Institution	No	Merger of Institution Approved or Not	NA
Opted for Introduction of New Program/Level	No	Introduction of Program/Level Approved or Not	NA

To conduct following Courses with the Intake indicated below for the Academic Year 2019-20

Program	Shift	Level	Course	FT/PT+	Affiliating Body (Univ/Body)	Intake Approved for 2019-20	NRI Approval Status	PIO / FN / Gulf quota/ OCI/ Approval Status
Mca	1st	Post Graduate	Masters In Computer Applications	FT	Madras University. Chennai	30	NA	NA

+FT –Full Time,PT-Part Time

Page 1 of 2

Application No:1-4260781786
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In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation: - Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

It is mandatory to comply all the essential requirements as given in APH 2019-20(appendix 6)

NOTE: If the State Government / UT / DTE / DME has a reservation policy for admission in Technical Education Institutes and the same is applicable to Private & Self-financing Technical Institutions, then the State Government / UT/ DTE / DME shall ensure that 10 % of Reservation for EWS would be operational from the Academic year 2019-20 without affecting the percentage reservations of SC/ST/OBC/General . However, this would not be applicable in the case of Minority Institutions referred to the clause (1) of Article 30 of Constitution of India.

Prof. A.P Mittal
Member Secretary, AICTE

Copy to:
1. The Director Of Technical Education**, Tamil Nadu

2. The Registrar**,
   Madras University, Chennai

3. The Principal / Director,
   Madras Christian College (Autonomous)
   Tambaram East
   Chennai-600 059,
   Tambaram,Kanchipuram,
   Tamil Nadu,600059

4. The Secretary / Chairman,
   Mcc Association
   Madras Christian College
   Tambaram
   Chennai-600 059.
   Tambaram,Kanchipuram,
   Tamil Nadu,600059

5. The Regional Officer,
   All India Council for Technical Education
   Shastri Bhawan 26, Haddows Road
   Chennai - 600 006, Tamil Nadu

6. Guard File(AICTE)

Note: Validity of the Course details may be verified at http://www.aicte-india.org/

** Individual Approval letter copy will not be communicated through Post/Email. However, consolidated list of Approved Institutions(bulk) will be shared through official Email Address to the concerned Authorities mentioned above.

All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg,Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org

APPROVAL PROCESS 2018-19

Extension of Approval (EoA)

F.No. Southern/1-3512560318/2018/EOA

Date: 04-Apr-2018

To,

The Principal Secretary
(Higher Education) Govt. of Tamil Nadu,
N. K. M. Bld. 6th Floor Secretariat,
Chennai-600009

Sub: Extension of Approval for the Academic Year 2018-19

Ref: Application of the Institution for Extension of approval for the Academic Year 2018-19

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2016 notified by the Council vide notification number F.No.AB/AICTE/REG/2016 dated 30/11/2016 and amended on December 5, 2017 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Permanent Id	1-455334892	Application Id	1-3512560318
Name of the Institute	MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)	Name of the Society/Trust	MCC ASSOCIATION
Institute Address	TAMBARAM EAST CHENNAI-600 059, TAMBARAM, KANCHIPURAM, Tamil Nadu, 600059	Society/Trust Address	MADRAS CHRISTIAN COLLEGE TAMBARAM CHENNAI-600 059,TAMBARAM,KANCHIPURAM,Tamil Nadu,600059
Institute Type	Govt aided	Region	Southern

Opted for Change from Women to Co-Ed and vice versa	No	Change from Women to Co-Ed and vice versa Approved or Not	NA
Opted for Change of Name	No	Change of Name Approved or Not	NA
Opted for Change of Site	No	Change of Site Approved or Not	NA
Opted for Conversion from Degree to Diploma or vice versa	No	Conversion for Degree to Diploma or vice versa Approved or Not	NA
Opted for Organization Name Change	No	Change of Organization Name Approved or Not	NA

To conduct following Courses with the Intake indicated below for the Academic Year 2018-19

Program	Shift	Level	Course	FT/PT+	Affiliating Body (Univ/Body)	Intake Approved for 2018-19	NRI Approval Status	PIO / FN / Gulf quota/ OCI/ Approval Status	Foreign Collaboration /Twining Program Approval Status*
MCA	1st	POST GRADUATE	MASTERS IN COMPUTER APPLICATIONS	FT	Madras University, Chennai	30	NA	NA	NA

+FT –Full Time,PT-Part Time

Note: This is a Computer generated Report. No signature is required.
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Letter Printed On:14 June 2018

Deficiencies Noted based on Self Disclosure

Particulars	Deficiency
Other Details Deficiency	
Are all approved teaching faculty being paid as per VI pay commission?	Yes
Other Facilities Deficiency	
Establishment of Internal Complaint Committee(ICC) As per section 4 of SexualHarassment of Women at Workplace (Prevention, Prohibition and Redressal) Act,2013	Yes
Compliance of the National Academic Depository(NAD) as per MHRD Directives	Yes
Display Board within the premises as well as in the Website of the Institution Indicating the Feedback Facility of Students and Faculty available in the AICTE Web Portal	Yes
Provision to watch MOOCS Courses through Swayam	Yes
Applied membership-National Digital Library	Yes
Online Grievance Rederssal Mechanism	Yes
Computational Facilities	
Internet Bandwidth-Applied Intake	Yes
Instructional Area- MCA	
Laboratories-All	Yes

*Please refer Deficiency Report for details

MADRAS CHRISTIAN COLLEGE (AUTONOMOUS) is hereby informed to submit the compliance of the deficiencies mentioned above to the Regional Office within a period of **6 months** from the date of issuance of this letter failing which the council shall initiate strict action as defined in Approval Process Handbook 2018-19 during the subsequent Academic Year.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation: - Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Prof. A.P Mittal
Member Secretary, AICTE

Copy to:

1. The Regional Officer,
   All India Council for Technical Education
   Shastri Bhawan 26, Haddows Road
   Chennai - 600 006, Tamil Nadu

2. The Director Of Technical Education**,
   Tamil Nadu

3. The Registrar**,
   Madras University, Chennai

4. The Principal / Director,
   MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)
   TAMBARAM EAST
   CHENNAI-600 059,
   TAMBARAM,KANCHIPURAM,
   Tamil Nadu,600059

5. The Secretary / Chairman,
   MCC ASSOCIATION
   MADRAS CHRISTIAN COLLEGE
   TAMBARAM
   CHENNAI-600 059,
   TAMBARAM,KANCHIPURAM,
   Tamil Nadu,600059

6. Guard File(AICTE)

Application No:1-3512560318
Note: This is a Computer generated Report. No signature is required.
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Page 2 of 3

Letter Printed On:14 June 2018

te: Validity of the Course details may be verified at http://www.aicte-india.org/

** Individual Approval letter copy will not be communicated through Post/Email. However, consolidated list of Approved Institutions(bulk) will be shared through official Email Address to the concerned Authorities mentioned above.

This EOA Report is for Academic Year 2018-2019 with Status as "EOA Recommended by Council".
Please print this Report from the application which has Academic year as 2018-2019 and Status as "EOA Recommended by Council".

Application No:1-3512560318
Note: This is a Computer generated Report. No signature is required.
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Page 3 of 3

Letter Printed On:14 June 2018

All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela MargVasant Kunj, New Delhi-110067
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

F.No. Southern/1-3325079711/2017/EOA

Date: 30-Mar-2017

To,

The Principal Secretary
(Higher Education) Govt. of Tamil Nadu,
N. K. M. Bld. 6th Floor Secretariat,
Chennai-600009

Sub: Extension of approval for the academic year 2017-18

Ref: Application of the Institution for Extension of approval for the academic year 2017-18

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2016 notified by the Council vide notification number F.No.AB/AICTE/REG/2016 dated 30/11/2016 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Permanent Id	1-455334892	Application Id	1-3325079711
Name of the Institute	MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)	Institute Address	TAMBARAM EAST CHENNAI-600 059, TAMBARAM, KANCHIPURAM, Tamil Nadu, 600059
Name of the Society/Trust	MCC ASSOCIATION	Society/Trust Address	MADRAS CHRISTIAN COLLEGE TAMBARAM CHENNAI-600 059,TAMBARAM,KANCHIPURAM,Tamil Nadu,600059
Institute Type	Govt aided	Region	Southern

Opted for change from Women to Co-ed and Vice versa	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved and Vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable
Opted for Conversion from degree to diploma	No	Opted for Conversion from diploma to degree	No	Conversion (degree to diploma or vice-a-versa) Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2017-18

Application Id: 1-3325079711			Course	Full/Part Time	Affiliating Body	Intake Approved for 2016-17	Intake Approved for 2017-18	NRI Approval status	PIO / FN / Gulf quota/ OCI/ Approval status	Foreign Collaborarion/Twining Program Approval status
Program	Shift	Level								
MCA	1st Shift	POST GRA	MASTERS IN COMPUTER APPLICATIONS	FULL TIME	Madras University, Chennai	30	30	NA	NA	NA

Application Number: 1-3325079711
Note: This is a Computer generated Report.No signature is required.

Page 1 of 3
Letter Printed On:3 May 2017

Printed By : ae6799211

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela MargVasant Kunj, New Delhi-110067
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

		DUA TE									

The above mentioned approval is subject to the condition that
MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)
shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Note: Validity of the course details may be verified at www.aicte-india.org

Prof. A.P Mittal
Member Secretary, AICTE

Copy to:
1. **The Regional Officer,**
   All India Council for Technical Education
   Shastri Bhawan 26, Haddows Road
   Chennai - 600 006, Tamil Nadu

2. **The Director Of Technical Education**,
   Tamil Nadu

3. **The Registrar**,
   Madras University, Chennai

4. **The Principal / Director,**
   MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)
   TAMBARAM EAST
   CHENNAI-600 059,
   TAMBARAM,KANCHIPURAM,
   Tamil Nadu,600059

5. **The Secretary / Chairman,**
   MCC ASSOCIATION
   MADRAS CHRISTIAN COLLEGE
   TAMBARAM
   CHENNAI-600 059,
   TAMBARAM,KANCHIPURAM,
   Tamil Nadu,600059

6. **Guard File(AICTE)**

Application Number: 1-3325079711
Note: This is a Computer generated Report.No signature is required.
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Page 2 of 3
Letter Printed On:3 May 2017

Note: ** - Approval letter copy will not be communicated through post/email. However, provision is made in the portal for downloading Approval letter through Authorized login credentials allotted to concerned DTE/Registrar.

Application Number: 1-3325079711
Note: This is a Computer generated Report.No signature is required.
Printed By : ae6799211

Page 3 of 3
Letter Printed On:3 May 2017

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg,Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org

APPROVAL PROCESS 2020-21

Extension of Approval (EoA)

F.No. Southern/1-7013160653/2020/EOA

Date: 30-Apr-2020

To,

The Principal Secretary
(Higher Education) Govt. of Tamil Nadu,
N. K. M. Bld. 6th Floor Secretariat,
Chennai-600009

Sub: Extension of Approval for the Academic Year 2020-21

Ref: Application of the Institution for Extension of Approval for the Academic Year 2020-21

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2020 notified by the Council vide notification number F.No. AB/AICTE/REG/2020 dated 4th February 2020 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Permanent Id	1-455334892	Application Id	1-7013160653
Name of the Institute	MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)	Name of the Society/Trust	MCC ASSOCIATION
Institute Address	TAMBARAM EAST CHENNAI-600 059, TAMBARAM, KANCHIPURAM, Tamil Nadu, 600059	Society/Trust Address	MADRAS CHRISTIAN COLLEGE TAMBARAM CHENNAI-600 059,TAMBARAM,KANCHIPURAM,, 600059
Institute Type	Govt aided	Region	Southern

To conduct following Courses with the Intake indicated below for the Academic Year 2020-21

Program	Level	Course	Affiliating Body (University /Body)	Intake Approved for 2019-20	Intake Approved for 2020-21	NRI Approval Status	PIO / FN / Gulf quota/ OCI/ Approval Status
MCA	POST GRADUATE	MASTERS IN COMPUTER APPLICATIONS	Madras University, Chennai	30	30	NA	No

It is mandatory to comply with all the essential requirements as given in APH 2020-21 (Appendix 6)

Application No:1-7013160653
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ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Page **1** of **2**

Letter Printed On:24 May 2020

Important Instructions

1. The State Government/ UT/ Directorate of Technical Education/ Directorate of Medical Education shall ensure that 10% of reservation for Economically Weaker Section (EWS) as per the reservation policy for admission, operational from the Academic year 2020-21 is implemented without affecting the reservation percentages of SC/ ST/ OBC/ General. However, this would not be applicable in the case of Minority Institutions referred to the Clause (1) of Article 30 of Constitution of India. Such Institution shall be permitted to increase in annual permitted strength over a maximum period of two years beginning with the Academic Year 2020-21

2. The Institution offering courses earlier in the Regular Shift, First Shift, Second Shift/Part Time now amalgamated as total intake shall have to fulfil all facilities such as Infrastructure, Faculty and other requirements as per the norms specified in the Approval Process Handbook 2020-21 for the Total Approved Intake. Further, the Institutions Deemed to be Universities/ Institutions having Accreditation/ Autonomy status shall have to maintain the Faculty: Student ratio as specified in the Approval Process Handbook. All such Institutions/ Universities shall have to create the necessary Faculty, Infrastructure and other facilities WITHIN 2 YEARS to fulfil the norms based on the Affidavit submitted to AICTE.

3. In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

4. Strict compliance of Anti-Ragging Regulation: - Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 373/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Prof.Rajive Kumar
Member Secretary, AICTE

Copy to:

1. **The Director Of Technical Education**, Tamil Nadu**

2. **The Registrar**,**
   Madras University, Chennai

3. **The Principal / Director,**
   MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)
   Tambaram East
   Chennai-600 059,
   Tambaram,Kanchipuram,
   Tamil Nadu,600059

4. **The Secretary / Chairman,**
   MADRAS CHRISTIAN COLLEGE
   TAMBARAM
   CHENNAI-600 059
   TAMBARAM,KANCHIPURAM
   ,600059

5. **The Regional Officer,**
   All India Council for Technical Education
   Shastri Bhawan 26, Haddows Road
   Chennai - 600 006, Tamil Nadu

6. **Guard File(AICTE)**

Note: Validity of the Course details may be verified at http://www.aicte-india.org/

** Individual Approval letter copy will not be communicated through Post/Email. However, consolidated list of Approved Institutions(bulk) will be shared through official Email Address to the concerned Authorities mentioned above.

Application No:1-7013160653   **ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**   Page **2** of **2**
Note: This is a Computer generated Report. No signature is required.
Printed By : ae6799211   Letter Printed On:24 May 2020