Annexure 10

Mandatory Disclosures

1.

Name of the Institution	The American College
Address	
	Tallakulam
	Madurai - 625002
	Tamil Nadu, India
Telephone (Land Line)	0452-2530070
Mobile	
Email	office@americancollege.edu.in

2.

Name of the Trust/Society/Company and the Trustees	Governing Council of American College
Address of the Trust/Society/Company and the	
Trustees	Tallakulam
	Madurai - 625002
	Tamil Nadu, India
Telephone (Land Line)	0452-2530070
Mobile	
Email	office@americancollege.edu.in

3.

Name of the Vice Chancellor/Principal/Director	Dr. M. Davamani Christober Principal & Secretary
Address of the Vice Chancellor / Principal /	The American College
Director	Tallakulam
	Madurai - 625002
	Tamil Nadu, India
Telephone (Land Line)	0452-2530070
Mobile	9894114455
Email	office@americancollege.edu.in

4. Name of the Affiliating University - Madurai Kamaraj University

5. Governance

Governing Body	
	The Governing Council The college is governed by the Governing Council of American College headed by the Bishop - Church of South India (Madurai – Ramnad Diocese). The members of the council include the Principal & Secretary, Vice Principal, Bursar, nominees from university and various organizations along with two elected members from the faculty fraternity.
Academic Advisory Body	
	Deans are the executive officers who are entrusted with various tasks proposed by the Principal & Secretary and Senatus body. They help the administration on executing well- defined actions as required, thus the power of decentralization is realized.
Frequency of the Board Meeting and Academic Advisory Body	Minimum 7 meetings per Semester
Organizational Chart and Processes	Enclosed
Nature and Extent of involvement of Faculty and students in Academic affairs / improvements	Committees constitute a set of faculty and students who help the management in the effective functioning of the college. These committees are Administration, Nomination, Calendar and Time Table, Library, Athletic, Student Services, Magazine, Audio-visual, Anniversary, Publicity and Social Committee.
Board of Studies and Academic council	The reconstituted academic council of the College consisting of the Principal, Vice principal. Bursar, Heads of Departments, Dean for Academic Policies & Administration, Student Representatives, Experts from various fields, three University nominees and a faculty nominee, takes care of all academic activities including framing of curriculum, examinations, methods of evaluation and related matters.
Senatus	All academic discourses and practices of the Institution are validated by this body consisting of Officers of the College, Deans, Heads of Departments and Director/Coordinator of various centers.

Grievance Redressal Mechanism	
	Grievance Redressal Committee is constituted to look into the complaints lodged by any staff and student, judge its merit and take necessary action. The Grievance Redressal Committee is also empowered to look into matters of harassment. Grievances of students in the examination system are also addressed. Students register their grievances online and also in the Suggestion Box, Grievance cell for girls is constituted with women faculty as its members for attending the issues related to women students.
Establishment of Anti Ragging Committee	
	The College has an Anti-Ragging Committee constituted with members from various stake holders. Student representatives in the anti- Ragging committee help in mitigating ragging inside campus through interaction and representation at the college level.
Establishment of Internal Complaint	
Committee	ICC Committee includes Officers of the College, Faculty members, Non Teaching Staff and student representatives.
Establishment of Committee for SC/ST	
	SC/ST committee is constituted with the Officers of the college, University Nominee and senior faculty members.
Internal Quality Assurance Cell	
	The Internal Quality Assurance cell of the Institution conscientiously works with a vision to stimulate the academic environment for the promotion of quality teaching-learning and research.

THE GOVERNING COUNCIL

1	President	Rt. Rev. Dr. M. Joseph Bishop, Madurai – Ramnad Diocese
2	Secretary	Dr. M. Davamani Christober, Principal

Members of the Governing Council

3	Vice – Principal	Dr. G. C. Abraham
4	Bursar	Dr. C. Dorothy Sheela
5	Synod Nominee	Mrs. Leela Manohari Joseph "Rev. Grub"s Garden", No.5, Bhulabai Desai Road, Chokkikulam, Madurai-625002.
6	AIACHE Nominee (I)	Dr. C. Jothi Sophia Principal C.S.I. Jayaraj Annapackiam College of Nursing Pasumalai, Madurai – 625004.
7	AIACHE Nominee (II)	Dr. V. M. SpurgeonSt. Christopher College of Education,63, EVK Sampath Road, Veperry, Chennai-7.
8	CSI DM &R Nominee	Rev. D. Jeyasingh Prince Prabakaran Presbyter, Diocese of Madurai & Ramnad
9	College Elected Member (I)	Dr. David Jebaraj Assistant Professor, Dept. of Physics
10	College Elected Member (II)	Mr. K. Ravi, Assistant Professor, Dept. of Englsih
		Dr. G. Christopher Jaisunder Scientist "F", Govt. of India, Ministry of Electronics & Information Technology, National Informatics Centre, A-Block, CGO Complex, Lodhi Road,
11	Co-opted Member (I)	New Delhi – 110 003.
12	Co-opted Member (II)	Mr. C. Fernandas Rathinaraja General Secretary C.S.I. SYNOD, Chennai.
13	Co-opted Member (III)	Dr.A.Wilson Aruni Pro Vice Chancellor Sathyabama University, Chennai.

Dr. M. Lellis Thivagar., M.Sc., Ph.D., Chairperson, School of Mathematics, Madurai Kamaraj University, Palkalai Nagar, Madurai

14 University Nominee

ACADEMIC ADVISORY BODY

OFFICERS OF THE COLLEGE

Principal &Secretary	Dr.M.Davamani Christober, M.Sc.,M.Phil.,M.Ed.,PGDCA Ph.D.,(Inter Disciplinary), Ph.D (Math)
Vice- Principal	Dr. G. C. Abraham, M.Sc., M.Phil., Ph.D.,
Bursar	Dr. C.Dorothy Sheela, M.Sc., Ph.D.,
Chaplin	Rev.J.John Jeya Kamaraj, M.Sc.,M.Phil.,B.Ed.,PGDCA.,M.C.A.,M.Phil.,
ACADEMIC ADMINISTRATORS	
Controller of Examinations	Dr. A. Martin David, M.Com., M.Phil., Ph.D.,
Dean for Policies & Administration	Dr. D. Lourdu Immaculate M.Sc., B.Ed., M.Phil., Ph.D.,
Dean of Academic advising	Mr. J. Justin Manohar, M.Com., M.Phil.,
Dean for Curriculum Development & Research	Dr. S. Rajkumar Immanuel, M.Sc., M.Phil., Ph.D.,
Dean for International Exchange & Study Abroad	Dr. J. Paul Jayakar, M.A., M.Phil.,Ph.D.,PGDCA.,
Dean of Women Students	Dr. M. Vathanaruba M.Sc., M.Phil., B.Ed., Ph.D.
Dean of Self–Financed Programmes	Dr. M. Balakrishnan, M.P.Ed., M.Phil.,Ph.D.,
Deputy Controller of Examinations	Mrs.D. Anandha selvam, M.Sc., M.Phil.,
Additional Dean for Policies &Administration	Dr. J. Jebaraj , M.Sc., M.Phil.,M.Ed.,PGDCA., Ph.D.,

Additional Dean of Academic Advising

Additional Dean for Curriculum Development Research

Additional Dean for International Exchange & Study Abroad

Additional Dean of Women Students

Additional Dean of Self – Financed Programmes

Dr. B. Johnson, M.Sc., M.Phil., Ph.D.,

Dr. S. Israel, M.Sc., M.Phil., Ph.D.,

Dr. R. Mary Sophia Chitra, M.Com., M.Phil., Ph.D.,

Dr. M. Beaula Ruby Kamalam M.Sc., M.Phil., PGDCA., Ph.D.,

Dr.P. Arulappan M.A., M.Phil., Ph.D.,

ORGANIZATIONAL CHART



Dr. M. Davamani Christober M.Sc., M.Phil, Ph.D (Interdisciplinary), Ph.D (Maths) Principal & Secretary



The American College Madurai - 625 002, India. Ph :+91452 2530070, 2530973, Fax :+91452 2520711 Email : principal@americancollege.edu.in acmdu1881@gmail.com, acsc1881@gmail.com Web : www.americancollege.edu.in

PROCEEDINGS OF THE PRINCIPAL & SECRETARY, THE AMERICAN COLLEGE MADURAI 625 002. DATED: 30.03.2021

ANTI RAGGING COMMITTEE

Dr.M.Davamani Christober	Principal & Secretary
Mr.S.Thangaraj	Advocate
Mr.Justin Prabhakar	Assistant Commissioner of Police
Ms.I.Lydia Indra Priyadharshini	Vikatan (Sales Management)
Ms.Gayathri	Kadalosai FM, VJ
Dr.G.C.Abraham	Vice Principal
Dr.M.Balakrishnan	Director, Department of Physical Education
Dr.M.Vathanaruba	Assistant Professor
J.P.Edward John	Non Teaching, Lab Assistant,
Mr.E.Samuel Thavaraj	Parent
Mr.S.Pon Baskar	Parent
Ms.K.Narmatha(18MCA14)	Student Member
Mr.A.Antony Kishore(20MCA04)	Student Member
Mr.K.Noordeensha (19MBA220)	Student Member
Ms.R.Sarah Grace(20MBA227)	Student Member

Dr. M. Davamani Christober Principal & Secretary The American College Madurai-625 002 Dr. M. Davamani Christober M.Sc., M.Phil., Ph.D (Interdisciplinary), Ph.D (Maths) Principal & Secretary



The American College Madurai - 625 002, India. Ph : +91 452 2530070, 2530973, Fax : +91 452 2520711 Email : principal@americancollege.edu.in aomdu1881@gmail.com, acsc1881@gmail.com Web : www.americancollege.edu.in

PROCEEDINGS OF THE PRINCIPAL & SECRETARY, THE AMERICAN COLLEGE MADURAI 625 002. DATED: 30.03.2021

INTERNAL COMPLIANTS COMMITTEE

Dr.C.Dorothy Sheela Er.N.Thirupathirajan Dr.J.Frank Ruben Jebaraj Mr.S.Abraham Deivanayam Mr.Christopher Ponniah Ranjan Mr.Selvam Ramasamy Mr.S.Ulaganathan (20MCA15) Ms.S.Kiruthika (20MBA206) Mr.M.Bala Surya(20MBA218) Bursar & Associate Professor Associate Professor Associate Professor Non Teaching Staff Non Teaching Staff Social Worker, Madurai. Student Member Student Member Student Member

6 lu

Dr. M. Davamani Christober Principal & Secretary The American College Madurai-625 002 Dr. M. Davamani Christober M.Sc., M.Phil., Ph.D (Interdisciplinary), Ph.D (Maths) Principal & Secretary



The American College

Madunai - 625 002, India. Ph : +91 452 2530070, 2530973, Fax : +91 452 2520711 Email : principal@americancollege.edu.in acmdu1881@gmail.com, acsc1881@gmail.com Web : www.americancollege.edu.in

PROCEEDINGS OF THE PRINCIPAL & SECRETARY, THE AMERICAN COLLEGE MADURAI 625 002. DATED: 30.03.2021

SC/ST COMMITTEE

Dr.M.Davamani Christober Dr.C.Dorothy Sheela Dr.M.Lellis Thivagar Dr.A.Joseph Thatheyus Dr.B.Aribabu

Principal & Secretary Bursar University Member Associate Professor Assistant Professor

> Dr. M. Davamani Christober Principal & Secretary The American College Madural-625 002

Coordinator	Dr. K.Gnanasekar
Deputy Coordinators	: 1. Dr. David Jebaraj
Deputy Coordinators	2. Dr. P.M. Anurama
E- Officia Marshare	
Ex-Officio Members	: Principal & Secretary (Chairperson)
	Vice-Principal
	Bursar
	Controller of Examinations
	Dean (Academic Polices & Administration)
	Dean (Curriculum Development & Research)
	Dean (Academic Advising)
	Dean (Self-financed Programmes)
	Deputy Controller of Examinations
	Librarian
Faculty Representatives	: Dr. K. John Adaikalasamy
	Dr.A.JosephThatheyaus
One Member from Management GC Member	: Dr. M. LellisThivagar Chairperson, School of Mathematics Madurai Kamaraj University, Madurai
Two Nominees from Employ	er/ Industry:
	1) Dr. G. John
	Associate Professor of Commerce
	St. Joseph College, Tiruchirappalli.
	2) Dr. S. Jenefa
	Chairperson, Prof & Head
	School of Linguistics & Communication
	Madurai Kamaraj University
	3) Mr. R. Illangovan
	Chairman, VISHAAL Promoters Pvt Ltd, Madurai
Nominees from Alumni	 Mr. B. Immanuel Devaram – Entrepreneur Fantasy Foods B/1, Kambar Street S.S Colony, Madurai – 625 010

2) Ms. I. Lydia Indra Priyadharsini Vikatan Sales Management, Madurai

INTERNAL QUALITY ASSURANCE CELL 2021-22

6. Programmes

Name of programmes approved by AICTE	MCA
Name of programmes Accredited by NBA	
 Status of Accreditation of the Courses Total number of courses No. of courses for which applied for Accreditation Status of Accreditation- Primary / Applied for SAR and results awaited / Applied for SAR and visits completed/ Results of the visits awaited/Rejected/ Approved forCourses (Specify the number of courses) 	Approved

For each programme the following details are to be given (Preferably in Tabular form)

Name	Master of Computer Applications
Number of seats	30
Duration	2 years
Cut off marks/rank of admission during the last three years	55%
Fee (as approved by the state government)	as per Government norms fee structure enclosed
Placement Facilities	Available
Campus placement in last three years with minimum salary, maximum salary and average salary	Details given below

Year	Name of student placed and contact details	Program graduated from	Name of the employer with contact details	Pay package at appointment
2021	P.Abinaya	MCA	Solartis Technology Services Pvt.Ltd	10000
2021	R.Bowliya Mary	MCA	Vedhasoft Technologies, Bangalore	20000
2021	L.G.Karthik	MCA	Cholamandalam , Chennai	20000
2021	Shobika	MCA	IIServz, Madurai	15000
2021	Mohmed Shimer	MCA	Tata Consultancy Services, Chennai	30000
2021	Naveen Kumar	MCA	Zoho Corporation Private Ltd,	50000

		1		
2021	Bharath	MCA	Sri Mookambika Infosolutions, Madurai	15000
2021	Jeyasurya	MCA	Talodyn Networks Private Ltd., (TataElxsi)	15000
2021	Victor Immanuel .A	MCA	Tata Consultancy Services, Chennai	25000
2021	K.Abinaya	MCA	Osiz Technologies, Madurai	10000
2021	S.Kalavalli	MCA	Tata Consultancy Services, Plot No. 1/G1, Siruseri Special Economic Zone,	25000
2021	Bavadharani	MCA	Silver Dollar Technologies, Coimbatore	6500
2021	A.Syed Sheik Abdullah	MCA	FootBall Player - Representing District Team	
2020	B.Aishwarya	MCA	Toolagen Technologies, Bangalore	22000
2020	Ajith Kumar	MCA	Entrepreneur - Customer Verification for IT Companies	15000
2020	Aravind Kumar	MCA	Entrepreneur - Lislip private ltd	25000
2020	Athira Raj	MCA	Aruna Alloy Steel Pvt Ltd.	14500
2020	Joshua	MCA	Entrepreneur - Online Investments/ Share Trading	15000
2020	Kousalya	MCA	Nervgrid, Madurai	16500
2020	Mahalakshmi	MCA	LGT Technologies Private Limited	12750
2020	Nagarajan	MCA	Radio City - RJ	10000
2020	Pradeeep Kumar	MCA	ICICI Bank - Value Banker	15000
2020	M.Sakthi Mehra	MCA	Freelance Programmer	20000
2020	R.Tamil Selvan	MCA	Freelance Programmer	20000
2020	Karthikeyan	MCA	Seeroo IT Solutions Pvt. Ltd, Cochin	12000
2020	Satya Narayanan	MCA	Antano & Harini Legacy Accelerators	15000
2020	Ganesh Kumar	MCA	Web Manager	10000
2020	Santhosh Kumar	MCA	Entrepreneur - Photography Studio	25000
2020	Herbert	MCA	Plintron Mobility Solutions, Chennai	15000
2020	Ashwin	MCA	Family Business	25000

2020	Vinyak	MCA	Entrepreneur - Lislip private ltd	25000
2020	Ramya	MCA	Family Business	20000
2020	Gayathri	MCA	CapGemini, Chennai	37500
2019	Newslin Nesakumar	MCA	Amazon	40000
2019	Arlene Kingson	MCA	Inflow Technological Pvt Ltd	20000
2019	Rajadurai	MCA	The American College	10000
2019	J.Pavithra	MCA	Trioangle Minds Technologies Pvt Limited	8000

NA	AAC Accreditation Status	
1	Accredited	Re-accredited (2 nd Cycle) with Grade 'A' 3.46 on a 4 point scale.
2	Applied for Accreditation	Yes, NAAC 3 rd Cycle
	A. Applied but Visit not happened	Visit scheduled on 5th & 6th of April 2022
	B. Visit happened but result awaited	
3	Not Applied	





Nelson Mandela Marg Vasant Kuni, New Delhi-110070 Website: www.aicle-india.org

APPROVAL PROCESS 2021-22

Extension of Approval (EoA)

F.No. Southern/1-9317577016/2021/EOA

To,

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

Sub: Extension of Approval for the Academic Year 2021-22

Ref: Application of the Institution for Extension of Approval for the Academic Year 2021-22

Sir/Madam.

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Education) (1st Amendment) Regulations, 2021 notified on 24th February 2021 and other notifications as applicable and published from time to time, I am directed to convey the approval to

Permanent Id	1-518690991	Application Id	1-9317577016
Name of the Institution /University	THE AMERICAN COLLEGE	Name of the Society/Trust	GOVERNINGCOUNCILOF AMERICAN COLLEGE
Institution /University Address	ALAGARKOIL ROAD, TALLAKULLAM, MADURAI, MADURAI, Tamil Nadu, 625002	Society/Trust Address	ALAGAKOIL ROAD.TALLAKULLAM.MADURAI, MADURAI.Tamil Nadu,625002
Institution /University Type	Private-Self Financing	Region	Southern

To conduct following Programs / Courses with the Intake indicated below for the Academic Year 2021-22

Program	Level	Course	Affiliating Body {University /Body}	Intake Approved for 2020-21	Intake Approved for 2021-22	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
MCA	POST GRADUATE	MASTER OF COMPUTER APPLICATIONS	Madurai Kamaraj University, Madurai	30	30	NA	NA

It is mandatory to comply with all the essential requirements as given in APH 2021-22 (Appendix 6)

Application No. 1-9317577016	ALL INDIA COUNCIL FOR TECHNICAL EDUCATION	Page 1 of 2
Note: This is a Computer generated Report. No signature is	required	Letter Printed On 27 September
Printed By : alc000468		2021



Date: 01-Jul-2021

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 2019-20 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.
- 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 2021-22 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.
- Strict compliance of Anti-Ragging Regulation, Establishment of Committee for SC/ST, Establishment of Internal Compliant Committee (ICC), Establishment of Online Grievance Redressal Mechanism, Barrier Free Built Environment for disabled and elderly persons, Fire and Safety Certificate should be maintained as per the provisions made in Approval Process Handbook and AICTE Regulation notified from time to time.

4. 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.

> Prof.Rajive Kumar Member Secretary, AICTE

Copy ** to:

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

- 2. The Registrar**, Madurai Kamaraj University, Madurai
- The Principal / Director, THE AMERICAN COLLEGE Alagarkoil Road, Tallakullam, Madurai, Madurai, Tamil Nadu, 625002
- The Secretary / Chairman, ALAGAKOIL ROAD, TALLAKULLAM MADURAI, MADURAI Tamil Nadu, 625002

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.

This is a computer generated Statement. No signature Required

Application No. 1-5317577016		Page 2 of 2
Printed By : alc000468	Vo signature is required.	Letter Printed On:27 September 2021

7. Faculty

Course / Branch wise list Faculty members:	
Permanent Faculty	7
Adjunct Faculty	No
Permanent Faculty :Student Ratio	1:9
No. of Faculty employed and left during the last	Nil
three years	

8. Profile of Vice Chancellor / Director / Principal/Faculty

Principal & Secretary



Work Experience

Teaching	32 Years
Research	15 Years
Industry	
others	
Area of Specialization	Mathematics
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	Mathematics

Name	Dr. M. DavamaniChristober
Date of Birth	23/05/1965
Unique ID	1-821993674
Education Qualifications	M.Sc., M.Phil., M.Ed., PGDCA., Ph.D.

No. of papers published in National/ Ir Journals/ Conferences	nternational			
Master Projects(Completed/Ongoing)				
Ph.D. (Completed/Ongoing)	7	Completed		
Projects Carried out by faculty		and a strategy of the strategy		
Patents (Filed & Granted)				
Technology Transfer				
Research Publications (No.of papers p National/International Journals/Confe		47		
No. of Books published with details (N book, Publisher with ISBN, year of pub etc.)		Refer below		
Title of the Book	Publisher		Year	ISBN Number
Concepts of Data Science using R	Concepts of Data Science using R KanthagaPoo Sivakasi, Tam		2021	978-93-80368-41-2
Applications of IT	Dr.D.Y.Patil V	idyapeeth, Pune	2020	978-93-90291-11-3
"Computers for Nursing" - Text book for Dr. M.G.R. Medical University for the students of 2nd year 6.5c Nursing Ma		napackiam College of Iurai	2011	*1
"Concept mapping on Mathematics Education through CAI"	In Publicat		2010	978-81-928661-3-0



Name	Dr.J.Frank Ruben Jebaraj
Date of Birth	25-04-1971
Unique ID	1-518878555
Education Qualifications	M. Sc. (Phy), P.G.D.C.A., M.C.A., M.Phil., Ph.D

Work Experience

Teaching	25 years
Research	8 years
Industry	2 years
others	
Area of Specialization	Virtual Reality
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	Digital Principles, Software Engineerring, DataMining, OOAD & UML, Computer Hardware Architecture, Computer Hardware Components, System Analysis and Design

No. of papers published in National/ International Journals/ Conferences	National -4 International - 3 Conference-4
Master (Completed/Ongoing)	Completed
Ph.D. (Completed/Ongoing)	Completed
Projects Carried out	125 Student Projects
Patents (Filed & Granted)	
Technology Transfer	×
Research Publications (No.of papers published in National/International Journals/Conferences)	Journal -3
No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	2



Name	N.Thirupathirajan	
Date of Birth	03/04/1964	
Unique ID	1-518878555	
Education Qualifications	M.Sc., M.Phil., PGDCA., M.Tech.,	

Work Experience

Teaching	31
Research	2
Industry	8
others	÷
Area of Specialization	Fuzzy Logic
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	Mathematical Foundation, Computer Graphics, Mobile Computing, Design and Analysis of Algorithm, Python, Data Science

No. of papers published in National/ International Journals/ Conferences	International-1
Master (Completed/Ongoing)	Completed
Ph.D. (Completed/Ongoing)	
Projects Carried out	150 Student Projects
Patents (Filed & Granted)	*
Technology Transfer	A
Research Publications (No.of papers published in National/International Journals/Conferences)	International - 1
No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	÷



Name	A.Ann Ramola Jeyanthi	
Date of Birth	20/04/1971	
Unique ID	1-9322344082	
Education Qualifications	MCA., M.Phil	

Work Experience

Teaching	25
Research	5
Industry	
others	÷
Area of Specialization	Image Processing
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	Operating System, Computer Graphics, Computer Networks, Linux, Embedded Technology, Biometrics

No. of papers published in National/ International Journals/ Conferences	National – 8, International -3
Master (Completed/Ongoing)	Completed
Ph.D. (Completed/Ongoing)	Ongoing
Projects Carried out	125 Student Projects
Patents (Filed & Granted)	**************************************
Technology Transfer	A
Research Publications (No.of papers published in National/International Journals/Conferences)	Journal -1
No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	ê



Name	J.John Jeya Kamaraj	
Date of Birth	11/06/1968	
Unique ID	1-518878555	
Education Qualifications	M.Sc., M.Phil., PGDCA.,	

Work Experience

Teaching	25
Research	2
Industry	9
others	PG School Teaching – 2 years
Area of Specialization	Artificial Intelligence, Fuzzy Logic
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	C, C++, Java, Soft Computing, Multimedia Technology,

No. of papers published in National/ International Journals/ Conferences	International - 1
Master (Completed/Ongoing)	Completed
Ph.D. (Completed/Ongoing)	
Projects Carried out	100 Student Projects
Patents (Filed & Granted)	**************************************
Technology Transfer	A
Research Publications (No.of papers published in National/International Journals/Conferences)	1. Contract (1. Co
No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	÷



Name	T.Suganya	
Date of Birth	19/12/1969	
Unique ID	1-3221230887	
Education Qualifications	M.Sc., MPhil.,	

Work Experience

eaching 12 years			
Research	3 years		
Industry	1 year		
others 6 years			
Area of Specialization	Reinforcement Learning		
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	Operating System, C, C++, JAVA, DotNet, Data Structures, Web Programming, Computer Graphics, Linux, RDBMS		

No. of papers published in National/International Journals/ Conferences	National – 3 International – 7 Conferences - 8		
Master (Completed/Ongoing)	Completed		
Ph.D. (Completed/Ongoing)	Ongoing		
Projects Carried out	50 Student Projects		
Patents (Filed & Granted)	•		
Technology Transfer	* ·		
Research Publications (No.of papers published in National/International Journals/Conferences)	Journals - 1		
No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	•		



Name	J.Christy Jeeva Ratna Devi	
Date of Birth	22-06-1977	
Unique ID	1-3221670843	
Education Qualifications	MCA., M.Phil	

Work Experience

Teaching	19		
Research	2		
Industry	Nil		
others	Govt computer Literacy Programme for Govt College Students – 4 years		
Area of Specialization	Machine Learning		
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	C,C++, JAVA, Dotnet, Web Programming, Data Structures, Software Engineering, Unix, Operating System, RDBMS		

No. of papers published in National/ International Journals/ Conferences	National – 1, International-2
Master (Completed/Ongoing)	Completed
Ph.D. (Completed/Ongoing)	
Projects Carried out	40 Student Projects
Patents (Filed & Granted)	
Technology Transfer	G
Research Publications (No.of papers published in National/International Journals/Conferences)	Working on a paper
No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	



Name	N.Gayathri	
Date of Birth	30/09/1987	
Unique ID	1-3220296248	
Education Qualifications	M.E. Computer Science	

Work Experience

Teaching	5 years 7 months		
Research	-		
Industry	4 years 5 months		
others			
Area of Specialization	Cloud computing, Networks		
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	-		

No. of papers published in National/ International Journals/ Conferences	1
Master (Completed/Ongoing)	Completed
Ph.D. (Completed/Ongoing)	
Projects Carried out	25 Student Projects
Patents (Filed & Granted)	*
Technology Transfer	
Research Publications (No.of papers published in National/International Journals/Conferences)	2
No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	

Details of Fee, as approved by State Fee Committee, for the Institution	List enclosed
Time schedule for payment of Fee for the entire Programme	List Enclosed
No. of Fee waivers granted with amount and name of students	Nil
Number of scholarship offered by the Institution, duration and amount	Nil
Criteria for Fee waivers/scholarship	Nil
Estimated cost of Boarding and Lodging in Hostels	List Enclosed
Any other fee please specify	NA

Name of the Department : M.C.A

Fee Structure of Govt Quota

Tuition fee (A/c No.496030879)				
Tuition Fee	Rs.	35000	35000	350 00
Part V	Rs.	-	-	-
Admission Fee	Rs.	2000	-	-
Tuition Total		37000	35000	35000

Fee	Fee Structure of Management Quota				SF
	I YEAR II YEAR				
	Special fee (A/C.No.496030868)				
	Special Fee	Rs.	5000	5000	500 0
1	CBCS, SSC & Skill training	Rs.	500	500	500

2	Lab/ Computer fee	Rs.	15000	1600	160
	-		1000	0	00
3	Special Lab fee	Rs.	1000	1000	0
4	Project & Viva	Rs.	1000	1000	100 0
5	Gasoline fees	Rs.	-	-	-
6	Deposit (Refundable)	Rs.	1000	-	-
	Special fees Total		23500	23500	23500
	Tuition fee (A/c No.496030879)				
1	Tuition Fee	Rs.	35000	3500 0	350 00
2	Part V	Rs.	-	-	-
3	Admission Fee	Rs.	2000	-	-
	Tuition Total		37000	35000	35000
	Non-Salary (A/C No.6335921789)				
1	Library Fee	Rs.	2000	2000	200 0
2	Flag	Rs.	5	5	5
3	Basic Amenities(EB, Water, Wifi, Etc)	Rs.	2000	2000	200 0
4	Placement	Rs.	1000	1000	100 0
5	Councelling & Guidance	Rs.	200	200	200
6	Souvenir (Calendar, Magazine, etc)	Rs.	200	200	200
7	РТА	Rs.	100	100	100
	Non-Salary Total		5505	5505	5505
	SF-Management Fee (A/c No.496030799)				
1	Development Fee	Rs.	5000	5000	500 0
2	Insurance	Rs.	100	100	100
3	Orientation	Rs.	500	-	-
4	Sports Day	Rs.	250	250	250
5	ID & Filing	Rs.	150	150	150
6	Dispensary	Rs.	100	100	100
7	Store	Rs.	100	100	100
8	Celebration		150	150	150
9	Candle Lighting		-	-	150
10	English Text Book		-	-	-
11	Part-1	Rs.	-	-	
12	VAC	Rs.	400	400	400
	SF-Management Fee Total		6750	6250	6400
1	Alumini Membership A/c.No496025576	Rs.	-	-	500
	Grand Total	Rs.	72755	70255	70905

	HOSTEL FEES			
	STRUCTURE2021-2022			
S.NO	PARTICULARS	AMOUNT		
1	ESTABLISHMENTS	8500.00		
2	ROOM RENT	7500.00		
3	MAINTENANCE CHARGES	5000.00		
4	MEDICAL FEE	100.00		
5	OTHER AMMUNITY	2000.00		
6	ADMISSION FEE	2500.00		
		25600.00		
* REFUNDABLE DEPOSIT OF RS.5000/-WILL BE COLLECTED DURING ADMISSION				

10. Admission

Number of seats sanctioned with the year of approval	30
Number of students admitted under various categories each year in the last three years	As per the govt norms
Number of applications received during last	2020 - Applications received – 117, admitted-23
two years for admission under Management	2021- Applications received – 189, admitted - 21
Quota and number admitted	

11.Admission Procedure

Mention the admission test being followed, name and address of the Test Agency/ State Admission Authorities and its URL (website)	TANCET, Tamil Nadu Common Entrance Test. https://www.annauniv.edu/
Number of seats allotted to different Test Qualified candidate separately (AIEEE/CET (State conducted test/University tests/CMAT/GPAT)/ Association conducted test etc.)	TANCET - 9

Calendar for admission against Management/Vacant seats:

Last date of request for applications	30/06/2021
Last date of submission of applications	25/07/2021
Dates for announcing final results	03/08/2021
Release of admission list (main list and waiting list shall be announced on the same day)	03/08/2021
Date for acceptance by the candidate (time given shall in no case be less than 15days)	18/08/2021
Last date for closing of admission	15/10/2021
Starting of the Academic session	13/09/2021

The waiting list shall be activated only on the expiry of date of main list	Yes
The policy of refund of the Fee, in case of	
withdrawal, shall be clearly notified	If the student discontinued the programme before the orientation day, the entire amount with the reduction of Rs.1000 will be refunded. If discontinued after the orientation, 25 per cent of the total fee will be deducted. If discontinued after the closure of admission as per the MKU notification, no refund is given.

15. Information of Infrastructure and other Resources Available

Number of Class Rooms and size of each	3, 60sqm,60sqm,61sqm
Number of Tutorial rooms and size of each	1, 60sqm
Number of Laboratories and size of each	1, 250 sqm
Number of Drawing Halls with capacity of each	-
Number of Computer Centers with capacity of each	1, 290sqm
Central Examination Facility, Number of rooms and capacity of each	1, 300 seater
Online examination facility (Number of Nodes, Internet bandwidth, etc)	180 nodes, 200mbps
Barrier Free Built Environment for disabled and elderly persons	Yes
Occupancy Certificate	Yes
Fire and Safety Certificate	Yes
Hostel Facilities	Yes

C3/001292/20, dr: 26.2.2020

OCCUPANCY CERTIFICATE

CERTIFICATE OF TAHSILDAR

This is to certify that The American College occupied in the bearing survey no:4, 1c/1(p) situated in North Madurai Village of Madurai (North) Taluk, Madurai District, Tamil Nadu State is Registered Society in the name of The Governing Council of the American College, Madurai. Registration bearing document No: 4286/1929 by way Registered sale deed.

That there is no dispute pertaining to the said Land, the Land is Free from all encumbrances. The Building Plan for the Building constructed on the aforesaid Land is duly approved by the Madurai Corporation, which competent to approve the said building plan.

That the approved building plans from the competent authority considering the total built up area as required to run the program and the Division/ Department for the entire duration of the course submitted by the society are verified.



மினகரணை சிராமப் மதுரை வடக்கு வட்டம்

REVENUE INS KULAMANGALAM FIRKA MADURALNORTH. के का मार क

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LICENCE No: 157/2020 L.Dis No: 2301/D/2020 Date: 11.03.2020. District Office, Fire & Rescue Services, Madurai District, Madurai.

NO OBJECTION CERTIFICATE

SUB: Fire and Rescue Services- Madurai District – M/s. The American College – MCA Block (Paul Linder Love Hall) Alagar Kovil Road, Goripalayam,

Madurai North Taluk, Madurai - No Objection Certificate - Reg.

Ref: 1) Application received from The Principal, & Secretary The American College, Alagar Kovil Road, Goripalayam Madurai.

With reference to the letter cited above, The Assistant District Officer has inspected the building of M/s, The American College, MCA Block (Paul Linder Love Hall) S.No: 4, 1C/1, Alagar Kovil Road, Goripalayam, Madurai North Taluk, Madurai District on 10.03.2020 and the report is given as hereunder.

OBSERVATION

The existing building consists of Ground Floor + 3 Floors with the height of 13.70 Mtrs. Total Floor area 2090 Sq.mtrs. The building classified to comes under Group 'B' Educational Buildings, Sub Division 'B-2' All others training institutions as per NBC 2016 Part 4 Fire and Life Safety.

There is no objection to the fire and rescue service point of view for Paul Linder love hall building (MCA Block) subject to the following conditions

CONDITIONS

 Hose reel system should be provided with 450 LPM fire pump connected with terrace level tank of capacity 10000 liters.

- 2) Emergency staircase should be provided.
- 3) House keeping should be provided entire building neat and clean.

Side set back area should be cleared.

The Principal & Secretary The American College, Alagar Kovil Road, Goripalayam Madurai,

MAR 202

District Officer, Fire and Rescue Services, Madurai District, Madurai. Library

Number of Library books / Titles/ Journals available	Titles - 2827 Volumes – 9258, Journal - 14
List of Online National / International Journals subscribed	10



Your Institute The American College is now is now a part of the NDLI Club

Dear Vasanthakumar,

The request of The American College to set up NDLI Club at the institute has been approved. All interested students, faculty members and employees of The American College can now enroll themselves as members of The American College NDLI Club, using the passkey given below:

Passkey: -- 3d2765b5-6a29-4204-ad47-7715dc09e2ef

Club Registration Number : INTNNC4D2GZUHVC

You are requested to share the Passkey with all your students, faculty members and employees via e-mail and advise them to visit

https://club.ndl.litkgp.ac.in/sign-up to enroll themselves as member of the NDLI Club using their e-mail id and the Passkey. You may also take a printout of the enclosed document and paste it on the notice boards of The American College so that the students, faculty members and employees can view the details about the NDLI Club and enroll themselves as members of the Club by scanning the QR Code indicated in the page.

You will be able to download a Certificate of Registration for NDLI Club of The American College from the NDLI Club portal club url once you conduct 1st event of your NDLI Club (which may be NDLI User Awareness Session) within the next 30 days and that is attended by at least 100 members of the NDLI Club of The American College.

This NDLI Club Certificate of Registration is valid for 12 Month and will be renewed every 12 Month, subject to the NDLI Club of The American College conducting at least 6 reading/knowledge related Events and 4 Global Events conducted by others online within the next 12 months and at least 100 members of your Club attending.

The best performing NDLI Clubs at District/ State/ National level will be recognized appropriately.

We look forward to your continued support.

To verify your Club role, please Click Here. In case of any difficulty in accessing the above link please click on the url below

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The American College Mail - Fwd: Congratulations! Your Institute The American College is now an NDLI Club.



Computing Facilities

Internet Bandwidth	200mbps
Number and configuration of System	120,
Total number of systems connected by LAN	120
Total number of systems connected by WAN	-
Major software packages available	10
Special purpose facilities available (Conduct of online Meetings/Webinars/Workshops, etc)	Seminar Hall, 150sqm
Facilities for conduct of classes/courses in online mode (Theory & Practical)	Yes
Innovation Cell	-
Social Media Cell	-
Compliance of the National Academic Depository (NAD), applicable to PGCM/ PGDM	NAD

List of facilities available

Games and Sports Facilities	Track & Field, Football, Hockey, Volley ball,		
	Cricket		
Extra-Curricular Activities	Students can join the college cultural team		
Soft Skill Development Facilities	Timely guest lectures by eminent resource		
	persons		

Teaching Learning Process

MCA Programme CURRICULUM GRID

		SEMESTER 1		
Sno	Course Code	Course Title	Hrs / Crs	Marks
1	MCA 4655	Mathematical Foundation for Computer Application -I	6	120
2	MCA 4457	Advanced Programming in C	4	80
3	MCA 4459	Digital Principles and Computer Organization	4	80
4	MCA 4661	Operating System (TL)	4 + 2	120
5	MCA 4663	Web Programming (TL)	4 + 2	120
6	MCA 4465	LAB 1 – C Programming	4	80
		SEMESTER 2	·	·
Sno	Course Code	Course Title	Hrs / Crs	Marks
7	MCA 4656	Mathematical Foundation for Computer Application -II	6	120
8	MCA 4458	Design and Analysis of Algorithm using C++	4	120
9	MCA 4660	Advanced DBMS (TL)	4 + 2	120
10	MCA 4462	Embedded System (TL)	2 + 2	80
11	MCA 4664	OOAD & UML (TL)	4 + 2	120
12	MCA 4466	LAB 2 –Computer Algorithms using C++	4	80
		SEMESTER 3		
Sno	Course Code	Course Title	Hrs / Crs	Marks
13	MCA 5655	Data Science using Python (TL)	4 + 2	120
14	MCA 5557	Advanced Software Engineering	5	100
15	MCA 5559	Advanced Java Programming	5	100
16	MCA 5661	Computer Networks (TL)	4 +2	100
17		Elective I	4	80
18	MCA 5463	LAB 3 – Java Programming	4	100

SEMESTER 4							
Sno	Course Code	Course Title	Hrs / Crs	Marks			
19	MCA 5456	Dot Net Programming	4	120			
20	MCA 5558	Data Mining and Warehousing	5	100			
21	MCA 5460	Soft Computing	4	100			
22		Elective II	4	80			
23	MCA 5462	LAB 4 – Dot net Programming	4	80			
24	MCA 5964	Project – Viva Voce	9	180			

ELECTIVE COURSES

Sno	Course Code	Course Title	Hrs / Crs	Marks
1	MCA 0440	Android Programming (TL)	2+2	80
2	MCA 0441	Artificial Intelligence	4	80
3	MCA 0442	Computer Graphics (TL)	2+2	80
4	MCA 0443	Big Data Analytics	4	80
5	MCA 0444	Biometrics	4	80
6	MCA0445	Compiler Design	4	80
7	MCA 0446	Multimedia and Applications (TL)	2+2	80
8	MCA 0447	Parallel Computing	4	80

PROGRAMME SPECIFIED OUTCOMES (PSOs):

MCA programme has been designed to prepare graduates for attaining the following program outcomes:

- 1. An ability to apply knowledge of mathematics, computer science and management in practice
- 2. An ability to identify, critically analyse, formulate and develop computer applications
- 3. An ability to select modern computing tools and techniques and use them with dexterity
- 4. An ability to design a computing system to meet desired needs
- 5. An ability to make realistic constraints such as safety, security and applicability
- 6. An ability to devise and conduct experiments, interpret data and provide well informed conclusions
- 7. An ability to understand the impact of system solutions in a contemporary, global, economical, environmental, and societal context for sustainable development
- 8. An ability to function professionally with ethical responsibility as an individual as well as in multidisciplinary teams with positive attitude
- 9. An ability to communicate effectively
- 10. An ability to appreciate the importance of goal setting and to recognize the need for lifelong learning.
| Courses | PSO | PSO | PSO | PSO | PSO | PSO | PSO | PSO | PSO | PSO |
|----------|--------------|--------------|--------------|--------------|-----|--------------|-----|--------------|--------------|-----|
| Courses | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| MCA 4655 | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | |
| MCA 4457 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| MCA 4459 | ~ | ~ | ~ | ~ | ~ | | | \checkmark | | |
| MCA 4661 | ~ | ~ | | ~ | ~ | | ~ | | ~ | |
| MCA 4663 | ~ | ~ | ~ | ~ | ~ | | | | \checkmark | |
| MCA 4465 | ~ | ~ | ~ | ~ | ~ | ~ | | \checkmark | | |
| MCA 4656 | \checkmark | \checkmark | ~ | \checkmark | | \checkmark | ~ | | | |
| MCA 4658 | ~ | ~ | \checkmark | \checkmark | | \checkmark | ~ | | | |
| MCA 4660 | ~ | ~ | ~ | ~ | ~ | ~ | | | | |
| MCA 4462 | ~ | ~ | ~ | ~ | ~ | ~ | | | | |
| MCA 4464 | ✓ | ✓ | ✓ | ✓ | | ✓ | ~ | | | |
| MCA 4466 | ✓ | ✓ | ✓ | ✓ | ~ | | | ~ | | |
| MCA 5655 | ✓ | ✓ | ~ | ~ | ~ | | | ~ | | |
| MCA 5557 | ✓ | ✓ | ~ | ~ | | ~ | ~ | ~ | | |
| MCA 5559 | ✓ | ✓ | ~ | ~ | ~ | | | ~ | ~ | ~ |
| MCA 5561 | ✓ | ✓ | | ~ | ~ | | ~ | | | |
| MCA 5563 | ✓ | ✓ | ~ | ~ | ~ | ~ | | ~ | | |
| MCA 5456 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| MCA 5458 | ✓ | ✓ | ~ | ~ | ~ | ~ | | | | |
| MCA 5460 | ✓ | ✓ | ~ | ~ | ~ | | ~ | ~ | ~ | |
| MCA 5462 | ✓ | ✓ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ |
| MCA 5464 | ✓ | ✓ | ~ | ~ | ~ | ~ | | | | |
| MCA 0440 | ✓ | ✓ | ✓ | ✓ | | ✓ | ~ | | | |
| MCA 0441 | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | | | |
| MCA 0442 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ~ | |
| MCA 0443 | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | |
| MCA 0444 | ✓ | ✓ | | ✓ | ✓ | | ✓ | | ✓ | |
| MCA 0445 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| MCA 0446 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | |
| MCA 0447 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | |
| | | | | | | | | | | |

Mapping of Course Outcomes (COs) with Programme Specific Outcomes (PSOs)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
PSO 1		✓								
PSO 2		\checkmark								
PSO 3					\checkmark					
PSO 4									✓	
PSO 5					\checkmark					
PSO 6	✓		\checkmark							
PSO 7	✓							✓		
PSO 8	✓						✓		✓	✓
PSO 9						✓				
PSO 10				\checkmark						

Mapping Programme Outcome (POs) for Post graduation with MCA (PSOs)

This course will enable the students to know the logic and relation, graph theory and automata. Theorems are discussed with examples. This course explores various techniques in numerical methods for solving different mathematical models such as linear and non-linear equations.

Upon completing the course students will be able to

- i. Natural language encoded to proposition calculus and model design by relation.
- ii. Real world problem describe by diagram by means of vertex and edges and analyze the properties
- iii. Analyze abstract machines and automata, as well as the computational problems that can be solved using them.
- iv. Find the solution for algebraic and transcendental and system of equations
- v. Find the unknown values from known values

Unit 1: Logic

LOGIC-Connectives –Normal Form - Rules of Inference Theory in Statement Calculus - Relation – Equivalence Relation- Partial Order Relation - Relational Matrix - Relational Graph

Unit 2: Graph

GRAPH – Walk – Path – Tree - Binary Tree - Kruskal Algorithm - Prims Algorithm – Connectivity- Planner Graph – Colouring.

Unit 3: Automata

Finite Automata – Deterministic Finite Automata – Non-deterministic Finite Automata - Languages – Grammars - Push Down Automata.

Unit 4: Linear Equations

Methods for finding roots of linear and non-Linear equations - Bisection Method- False Position Method Newton - Raphson Method – System of linear equations - Gauss-Elimination Method, Gauss - seidel.

Unit 5: Interpolation

Interpolation – Newton Forward and Backward differences interpolation methods – Lagrange Interpolation – – Numerical Differentiation – Integration - Solving first order ordinary differential equations using R-K method.

14hrs

10hrs

12hrs

12hrs

Textbook

1. Tremblay JP, Manohar R, "Discrete Mathematical Structures with application to Computer Science", McGraw HillPublication, 2018.

- 1. Narsingh Deo, "Graph Theory with applications to Engineering and Computer Science", Prentice Hall India, 2012.
- 2. HopcroftJEullman, JD, "Introduction to Automata Theory, Languages and Computation", Narosa Publishing House, 2013
- 3. M.K.Jain, S.R.K. Iyengar, R.K. Jain, "Numerical Methods Problems and Solutions", New Age International, 2008.
- 4. EBalagurasamy, "Numerical Methods", Tata McGraw Hill, 2012.

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1					
CO2		2				
CO3			3			
CO4				4		
CO5					5	

MCA 4457

Advanced Programming in C

4 Hrs/4cr

Objective

This course introduces programming concepts and helps them to write programs in an advanced level. It introduces control structures, arrays, functions, pointers, file handling. Also, gives Introduction to TSRs programs and interfaces programming using C.

Upon completing the course students will be able to

- i. Classify data types, operators and Functions.
- ii. Build code using Pointers and Arrays.
- iii. Discover the role of pointers in DMA and examine its usage in OOP.
- iv. Implements Structure and Data Files.
- v. Categorize BIOS functions and examines network and low level programming.

Unit 1: C Introduction

C introduction – Operators and expressions – Data types – Arithmetic expressions - I/O statements – Control statements – Looping statements – Arrays – Strings and string functions – Procedures – Functions – User defined functions – Built-in-functions including all graphics commands.

Unit 2: Pointers Arrays and Functions

Introduction to pointers – Operators - expressions, passing on addressing to a function, function returning pointers. Pointers and Arrays – Passing an array element to a function – Multidimensional Arrays - array of pointers.

Unit 3: Pointers and Strings

Pointers and strings – Strings – Standard library functions - array of pointers to string - limitation of array of pointers - Pointers and structures – array of structure -structure pointer - dynamic memory allocations - Pointers and miscellaneous – Pointers to function - Command line arguments – Near, far and huge pointers.

Unit 4: Structures

Structure definition - processing a structure, user defined data types –typedef array of structures – Self referential structures – More about structures – Union – Files – C pre-processor

Unit 5: Low Level Programming

Advanced concepts – pointers and type casting - ROM-BIOS Functions –Basics of TSR – Introduction to Network programming and Interface – introduction to Low level programming

10hrs

14hrs

12hrs

14hrs

Textbook

1. Yashwant Kanetkar, "Understanding C pointers", BPB Publications, New Delhi, 2009.

- Henry Mullish Herbert L. Cooper, "The Spirit of C", Jaico Publishing House, 1987.
 Les Han Cock, Morris Kriger, "C primer", 3rd Edition, Tata McGraw Hill, 1991.
 Yashwant Kanetkar, "Writing TSRs through C", BPB Publications, 1995.

- 4. Barry Nance, "Network Programming in C", PHI, New Delhi, 2002.

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1					
CO2		2				
CO3		2				
CO4			3		5	
CO5				4		6

This course aims to give the students basic ideas regarding digital hardware components at the level of Gate and realization of sequential circuits and combinatorial circuits. Also will enable the students to design digital systems employing the techniques and give better insights into the basic digital hardware building blocks.

Upon completion of this course students will be able to:

- i. Understand the need for digital system and Perform conversion, arithmetic calculations on number system
- Gain Knowledge to apply digital principles to create and synthesize combinatorial logic ii. circuits and simplify problems using Boolean algebra and K map.
- Evaluate and design the data processing circuits and various types of flip flops iii.
- Design and synthesize the sequential logic circuits iv.
- Acquire knowledge on memory subsystem organization and different types of memory v.

Unit 1: Digital System Concepts

Introduction to digital systems and computers – Applications of digital systems Number systems and Codes - Conversion Binary to Decimal - Hexadecimal - octal - Representation of Negative Numbers, Complements in other Number systems 1's Complement – 2's Complement BCD Representation. ASCII, Excess_3, Gray, Weighted and unweighted codes.

Unit 2: Basic Building Blocks

Introduction to logic circuits – Basic building blocks - Boolean algebra - Universal gates - De Morgan's Law - Truth tables - Boolean Expressions -Sum of products - Products of sum methods - Karnaugh map - Don't care conditions

Unit 3: Data Processing Circuits and Sequential Logic Circuits

Multiplexers – De_Multiplexers - Decoder - Encoder - Introduction to Flip Flops -RS Flip-flop -Clocked Flip Flop – D Flip Flop - JK Flip Flop - JK Master - Slave Flip Flop.

Unit 4: Memory Element and Basic Computer Organization 15hrs

Introduction to Registers - Types of Registers - Introduction to Counters - Counter Design -Basic computer Organization - System buses - instruction cycles. CPU Organization .

Unit 5: Memory Subsystem Organization

Memory subsystem organization - Types of memory - memory subsystem configuration - I/O Subsystem Organization

15hrs

10hrs

10hrs

4Hrs/4cr

Textbooks

- 1. Malvino AP & Leach DP, "Digital Principles and Applications", Tata McGraw Hill Publications, 6th Edition 2002.
- 2. John D Carpinelli, Computer systems Organization & Architecture, Pearson Education, 1st Edition, 2012

- 1. TC Bartee, "Digital Computer Fundamentals", Tata McGraw Hill, 6th Edition, 2011.
- 2. Morris Mano, "Digital Design", Prentice Hall of India Pvt. Ltd, 2012.
- 3. John P. Hayes, Computer Architecture and Organization, Tata McGraw Hill, 2nd Edition, 2013.

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1	1				
CO2			2	2	2	2
CO3			3	3		
CO4		4	4	4		
CO5		5				

Operating System (TL)(4+2)

MCA 4661

Objective

This course aims at to teach the students about the evolution of Operating systems and to understand the organization and strategies of the Operating Systems. This course makes the student to create an environment in which a user can execute programs in a convenient manner.

Upon completing the course students will be able to

- i. Understand the structure and functions of OS.
- Learn about processes and threads. ii.
- Implementing the principles of concurrency scheduling algorithms and deadlocks. iii.
- Learn and Implement the different memory management schemes. iv.
- Understand and Implement the different Input, Output and file management schemes. v.

Unit 1: Introduction

Architecture of OS (Ex. Monolithic, Microkernel, Layered, Exokernel) - Virtual Computers, Interaction of O. S. & hardware architecture - Evolution of operating systems, Batch, multiprogramming. Multitasking - Multiuser, parallel, distributed & real -time O.S. Computers and Software - Operating System Strategies - The abstract model of computing- resources processes - threads - Operating System Organization - Device Management - Process Management - Storage Management-Scheduling-Computing Environment-Mobile Operating system.

Unit 2: Processes and Threads

Basic Synchronization principles - Interacting and Coordinating Processes, Semaphores - Highlevel synchronization - Monitors - Inter process Communication - Deadlock - Memory Management - Virtual Memory - Paging, Segmentation and algorithms - Operating System Services- Operating System Structure-System calls and its types- Operating System Design and Implementation-Virtual Machines- Operating System Generation-System Boot.

Unit 3: Concurrency and Scheduling

Threads-Multithreads-Thread Libraries-Models File Management - Protection and Security -Remote Files - Distributed Computing-CPU Scheduling-Deadlocks-Three Memory Management (Main Memory, Virtual Memory, Secondary Memory) - Storage Management.

Unit 4: Memory Input/Output and File Systems

Introduction to UNIX and the Shell - UNIX Directories and Pathnames - Working with UNIX files - Shell Programming -User and system administration - pipelining - Communicating with other user and systems – Accessing other Unix systems on the network or Internet – Accessing

15hrs

6Hrs/6Cr

20hrs

20hrs

Unix from windows – Unix and the internet-Production and Security(Cryptography, Firewall)-Distributed File System-Seven Special-Purpose Systems(Real Time and Multimedia)

Unit 5: Case Studies

20hrs

Case Studies on LINUX, WINDOWS, MAC-OS, ANDROID and IOS- protection and security.

Textbook

1. Gary Nutt, "Operating Systems a Modern Perspective", Pearson Education Asia, 2010.

- 1. Deital & Deital, "Operating Systems", Addison Wesley publications, 2013.
- 2. Milan Milenkovic, "Operating Systems", Tata McGraw Hill, 2012.
- 3. Tanenbaum, "Operating systems", Tata McGraw Hill, 2011.
- 4. W. Richard stevens, Stephen A. Rago "Advanced programming in the Unix environments", second Edition Addison Wesley publication, 2013.
- 5. Steart E. Madnick, John J. Donovan "Operating Systems" Tata McGraw-Hill-2009 edition.

Bloom's Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1					
CO2		2				
CO3			3			
CO4				4		6
CO5					5	

This course aims at preparing the students to gain theoretical skills and practical experience required for designing web pages and use variety of latest technologies to create responsive websites.

Upon completing the course students will be able to

- Recall Web Basics, history of Internet and use HTML tags, attributes and write i. simple web pages
- Apply DHTML to web pages and make it dynamic ii.
- Compare XML with HTML and develop xml documents. iii.
- Build interactive web pages using Java Script. iv.
- Define PHP commands, write programs and establish database connectivity in Mysql. v.

Unit 1: Web Basics and HTML

Introduction, Concept of Internet- History of Internet, Protocols of Internet, World Wide Web, URL, Web Server, Web Browser. Introduction, History of HTML, Structure of HTML Document: Text Basics, Structure of HTML Document: Images and Multimedia, Links and webs, Document Layout, Cascading Style Sheet- HTML 4 style sheet features, Creating Forms, Frames and Tables.

Unit 2: Dynamic HTML

Introduction of DHTML- HTML vs. DHTML, Advantages of DHTML, CSS of DHTML, Event Handling, Data Binding, Browser Object Models.

Unit 3: XML

Introduction of XML- Some current applications of XML, Features of XML, Anatomy of XML document, The XML Declaration, Element Tags- Nesting and structure, XML text and text formatting element, Table element, Mark-up Element and Attributes, Document Type Definition (DTD), types.

Unit 4: Javascript

JAVA SCRIPT - Introduction - Usage of variables - operations - control structures - looping structures - predefined keywords - arrays - predefined functions - user defined functions arrays and functions – mathematical functions – string functions – objects – expressions –pattern matching using RegEXp Class - String Class - Exception Handling - Built-in objects -Bgcolor/Fgcolor - Date Object - Events and Event Handling - Validations - Window -Confirmation, alert message.

15hrs

15hrs

20hrs

Unit 5: PHP and MySQL

Introduction and basic syntax of PHP, decision and looping with examples, PHP and HTML, Arrays, Functions, Browser control and detection, string, Form processing, Files, Advance Features: Cookies and Sessions, Object Oriented Programming with PHP. Basic commands with PHP examples, Connection to server, creating database, selecting a database, listing database, listing table names, creating a table, inserting data, altering tables, queries, deleting database, deleting data and tables, PHPMyAdmin and database bugs.

Textbook

1. "HTML5 Black Book: Covers CSS3, JavaScript, XML, XHTML, Ajax, PHP and Jquery", Kogent Learning Solutions Inc 2016.

- 1. Ecky Putrady, "Practical Web Development with Haskell: Master the essential skills to build fast and scalable web applications", !st edition , Apress, 2018
- 2. Danny Goodman, "Dynamic HTML" 3rd Edition, O'reilly, 2006.
- 3. Media Paul Colton, R Allen Wyke, Richard Wagner, "JavaScript Unleashed", Sams Publication, 3rd Edition, 2000.
- 4. Eric. C Richardson, "Programming web server", Galgotia Publications, 1996.
- 5. Joe Fawcett, Danny Ayers, Liam R.E Quin, "Beginning XML", 5th Edition, Wrox, 2012
- 6. Jon Duckett, "PHP & MYSQL Server side development", 1st edition 2019.

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1					
CO2		2				
CO3				4		
CO4			3			
CO5					5	

The course aims at training the students in the developing the following programs and enable them to develop a mini project.

Upon completing the course students will be able to

- i. Apply different types of User Defined Functions and Arrays.
- ii. Summarize application software using pointers on different Data Types.
- iii. Create code using Structure and Union.
- iv. Solve problems using File Handling Techniques.
- v. Design TSR and simple Network Programs.

Lab Cycle

- 1. I/O Statements and Control Structures
- 2. Arrays and strings
- 3. Functions
 - i) Call by Value
 - ii) Call by Reference
 - iii) User defined
 - iv) Built-in
- 4. Pointers
 - i) Operators & expressions
 - ii) Pointers and arrays
 - iii) Pointers and strings
 - iv) Pointers and structures
 - v) Pointers to function
- 5. Structures and Unions
- 6. C Preprocessors, Command line arguments
- 9. File Handling
- 10. TSR programs
- 11. Simple network programming
- 12. Program to implement Client / Server concepts
- 13. Interface programming

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1					
CO2	1	2				
CO3		2	3			
CO4				4		
CO5						6

MCA4656 Mathematical Foundation for Computer Application -II 6Hrs / 6 Cr

Objective

This course aims to solve the various statistical methods such as Distribution of Random variables, Distributions and analyse sample using different method. Solve the Linear programming problem, transportation problem and assignment problem and also help to understand network modeling for planning and scheduling the project activities and different models on queuing theory

Upon completing the course students will be able to

- i. Illustrate the characterization of probability density functions
- ii. Test and analyses mean and variance of small and large samples
- iii. Management problems convert to L.P.P and find the optimum solution for it.
- iv. Find the solution for transportation problem and Assignment problem and construct network diagram and obtain critical path and project length.
- v. Identify and analyze queue model and find the different values.

Unit 1: Mathematical Expectations

Distributions of Random Variables – probability set function – Distribution function – probability models – mathematical expectations – Some special mathematical Expectations – Conditional probability -marginal and conditional distributions.

Unit 2: Sampling Theory

Sampling theory - confidence intervals for means – confidence intervals for difference of variance – Hypothesis – Examples and Definitions – T_Tests – Chi_square Tests – F_Test – The Analysis of Variance.

Unit 3: Simplex Method

Mathematical Formulation - Graphical Solution of linear programming models – Simplex method –Artificial variable Techniques- Two Phase Method.

Unit 4: Transportation Problem

Transportation problem- assignment problem-Network Construction – Critical Path Method – Project Evaluation and Review Technique – Resource Analysis in Network Scheduling

Unit 5: Queuing Models

Characteristics of Queuing Models – Poisson Queues - (M / M / 1) : (FIFO / ∞ / ∞), (M / M / 1) : (FIFO/ N / ∞), (M / M / C) : (FIFO / ∞ / ∞), (M / M / C) : (FIFO / N / ∞) models.

20hrs

15hrs

15hrs

20hrs

Textbooks

- 1. Freund, "Mathematical Statistics", 5th Edition, Prentice Hall India, 1997.
- 2. Taha H.A., "Operations Research: An Introduction", 8th Edition, Pearson Education, 2008

- 1. S.C. Gupta & VK Kapoor Sultan Chand, "Elements of Mathematical Statistics", New Delhi, 1992
- 2. A.M.Natarajan, P.Balasubramani, A.Tamilarasi, "Operations Research", Pearson Education, Asia, 2005

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
C01	1					
CO2		2				
CO3		2	3			
CO4				4	5	
CO5						6

MCA4658 Design and Analysis of Algorithm using C++

Objective

The aim of this course is to enable the student to understand and apply OOP features to solve different computer algorithms. This course also aims at making the student to implement and analyse the basic operations of data structures and the programming techniques such as Divide and Conquer, Greedy method, Dynamic programming, Graph Algorithms and Back Tracking.

Course Outcomes

- i. Understand Object Oriented Programming and its features
- ii. Advanced features of OOP
- iii. Understand the concepts of data types, data structures and linear structures analyse linear data sorting
- iv. Sort and Searching algorithms.
- v. Greedy Method and Dynamic Programming.

Unit 1: OOPS

Introduction – Programming Paradigms –Advantages and Features of OOP – objects - classes-Data Abstraction-User Defined Types – Namespace -Abstract Types- Inline Functions - Friend function-Virtual Functions - Constructor and destructor functions – Overloading Functions -Passing objects and returning objects in functions – Using pointers to objects – the this pointer – Using new and delete functions.

Unit 2: Additional Features in OOPS

Operator overloading – Inheritance –Types of inheritance –Virtual base classes - Pointers to derived classes – Virtual functions - Applying polymorphism + File Handling in C++ -Templates and exception handling - class templates-function templates.

Unit 3: Data Structures

Computer Algorithms - Introduction – Algorithm as technology – Designing an algorithm - Analysing an algorithm — Asymptotic notations – Standard notations and common functions - Elementary Data Structures – Types – Implementation Examples - Implementing pointers and objects - Trees – Hashing – Types of Sorting – Examples.

Unit 4: Sorting and Searching

Divide and Conquer-Merge sort – Quick Sort – performance of quick sort – randomized version of quick sort - Binary Search Tree – Insertion and deletion in Binary Search Tree – Red Black Trees – Implementations.

16hrs

15hrs

14hrs

14hrs

4hrs/4cr

Unit 5: Greedy Method and Dynamic Programming

Greedy Method- Optimal Storage on Tapes – Knapsack Problem – Minimum Spanning Trees – Single Source Shortest Path- Bellman-Ford algorithm – Dijkstra's algorithm. Dynamic Programming - General Method – Multistage Graphs – Optimal Binary Search Trees – 0/1 Knapsack – Reliability Design – Travelling Sales Man Problem --Eight queen problembacktracking.

Textbook

- 1. Herbert Schildt, "C++ Complete reference, Osborne McGraw Hill", 2ndEdition, 2012.
- 2. Thomas H Cormen, Charles E Leiserson, Ronald L Rivest, Clifford Stein, "Introduction to algorithms", 2nd edition,PHI,2011.

- 1. Robert Latfore, "Object Oriented Programming in Microsoft C++", Galgotia publication, 2009.
- 2. E Balagurusamy, "Object Oriented programming with C++", PHI 6th Edition
- 3. Debasish Jana, "C++ and Object Oriented Programming Paradigm", PHI, NewDelhi, 2010.
- 4. Ellis Horowitz, SartajSahni, "Fundamentals of Computer Algorithms", Galgotia Publications, 2010.
- 5. Donald E Knuth, "Fundamental algorithms -The art of computer programming", PearsonEducation, 3rd Edition, 2002.

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
C01	1					
CO2		2	3			
CO3			3			
CO4				4		
CO5					5	

MCA 4660 Advanced Database Management Systems (TL)(4+2) 6 Hrs/ 6Cr

Objective

This course aims to train the students to design databases in an efficient manner. In these course fundamental concepts in DBMS, Data models, and relational algebra concepts are discussed. Hands on training is given using ORACLE.

Upon completion of this course students will be able to

- i. Obtain basic knowledge on database, relational database, data Models and ER model.
- ii. Demonstrate the DDL, DML, TCL using SQL constructs.
- iii. Apply PL/SQL using Programming language constructs.
- iv. Understand the Data Management concepts to organize the data.
- v. Understand and Design Advanced Databases systems.

Unit 1: Introduction to DBMS

Introduction to DBMS – Data Models – Database Languages – Database System Structures – ER Model – Relational Model

Unit 2: Introduction to RDBMS

Introduction to RDBMS-SQL – Introduction to ORACLE – Data types - DDL – DML – TCL – QBE. Sub queries – Functions and Procedures – Triggers.

Unit 3: PL/SQL

Packages - Types – Objects – Methods – Collectors – PL/SQL – Built in Functions – Programming constructs – Cursors – Error Handling-normalization.

Unit 4: Data Management

Data Storage and Indexing – File Organizations – Query Optimization – Security -Transaction Management – Concurrency Control – Crash Recovery.

Unit 5: Introduction to Advanced Database Systems

Introduction to: Parallel and Distributed Databases – Internet Databases – Decision Support - Data Mining – Object Database Systems – ORDBMS – OODBMS.

Textbook

1. Silberschatz, Sudharshan and Koth, "Database System Concepts", McGraw Hill Publications, 6th Edition, 2010.

20hrs

15hrs

20hrs

15hrs

20hrs

ive

- 1. Ramakrishnan and Gehrke, "Database Management Systems", McGrawHill, 3rd Edition, 2012.
- 2. Loney and Koch, "ORACLE 9i The Complete Reference", Tata McGraw Hill Edition, 2010.
- 3. Urman, "ORACLE PL/SQL programming", Tata McGraw Hill, 1997.
- 4. McFadden, Hoffer and Prescott, "Modern Database Management", Pearson Education, 5th Edition, 2001.
- 5. Nilesh Shah, Database Management Systems using Oracle, Pearson Education, 2015.
- 6. Arun Majumdar & Pritimoy Bhattacharya, Database Management systems, TMH publications,2007.

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1					
CO2	1	2				
CO3		2	3			
CO4			3	4		
CO5					5	

This course facilitates to gain an understanding of the overall system architecture involving hardware and software components as well as of its complex communication structures, enabling them to understand the underpinnings of modern design methodology.

Upon completing the course students will be able to

- i. Understanding the concepts and development of microprocessor
- ii. Exploring the TASM / MASM / NASM
- iii. To know Microcontroller based system design and applications
- Exploring advanced micro processor iv.
- Knowledge up gradation on recent trends in digital design for embedded systems v.

Unit 1: Microcomputer Architecture

Microcomputer architecture- The IntelCPU's-8086/8088 CPU components: Bus interface unitexecution unit - 8086 CPU registers- instruction set: addressing modes. Programmable peripheral Interface-8279 Programmable keyboard / display interface-8254 Timer - 8251A Communications interface-DMA - Interrupts - A Simple Micro Controller - Parallel I/O Ports -Serial I/O Interface - Counter Timer - Interrupt Control Mechanism - Assembly Language Programming For Micro Controllers - Micro Controllers For Embedded Systems.

Unit 2: Assembly Language

Assembly language fundamentals: segment and end directives-data definition directives - the assume directives - Input/output services - interrupts - Dos function calls - Assembly language program development tools - editor - assembler (MASM/TASM) - linker - loader - debugger simple assembly programs - Interfacing Assembly Language Routines to High Level Language Programmes.

Unit 3: Processor

Introduction to ES-What is ES, Examples of ES-Inside ES : processor, memory, peripherals, software.- Embedded Processors, Memories & Peripherals, Microcontrollers 8051 - Discrete processors : 8-bit architecture, 16/32 bit CISC, RISC, DSP-Integrated processors : ARM RISC-Choosing a processor-Memory systems : types (SRAM, DRAM, FLASH), organization, accesstime, validating the contents of memory-Basic peripherals : parallel ports, timers, clocks

15hrs

10hrs

Unit 4: Microprocessor and Controller

Advanced Microprocessors - EDA tools - Coprocessors: Math Coprocessor (8087) - Microcontrollers: introduction - architecture - addressing modes. Case study: X86 compatible VIA C7, Via Nano, AMD's Geode, Athlon Neo, Intel Atom.

Unit 5: Case Study

Case study on strain sensors, Temperature sensors, Pressure sensors, Humidity sensors, Accelerometers, Gyroscopes, RF MEMS Switch, phase shifter and smart sensors. Case study of MEMS pressure sensor Packaging – real time interfacing with raspberry pi -arduino board.

Textbook

1. Barry B Brey, "The Intel Microprocessor 8086/8088, 80186/80188, 80286, 80386, 80486, Pentium and Pentium Pro Processor: Architecture, programming and Interfacing", 4th Edition, Prentice Hall of India 2011.

References

- 1. Carl Hamacher, ZvonkoVranesic, SafwatZaky, "Computer Organization", McGraw Hill Higher Education, Fifth Edition, 2013.
- 2. Douglas V Hall, "Microprocessor and Interfacing Programming and Hardware", McGraw-Hill, 2011.
- 3. Muhammad Ali Mazidi, Janice GillispieMazidi, "The 8051 Micro controller and Embedded systems", Pearson Education Asia, 2002.
- 4. Christian Hill, Learning Scientific Programming with Python, Cambridge university press, 2016.
- 5. Internet Sites: www.chips.ibm.com, www.intel.com, www.nexgen.co

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1					
CO2		2				
CO3		2				
CO4			3			
CO5			3	4		6

This course is to enable the students to understand the existing system and to provide practical guidance on construction of Object-Oriented Systems. Here the basic concepts in systems analysis and design are introduced with emphasis to Object-Oriented Analysis and Design. UML is used for the realization of OOAD. In UML the basic structural, behavioural and architectural modellings are discussed.

Upon completion of this course students will be able to

- i. Understand and apply the software development life cycle concepts.
- ii. Design and Analyze systems using the design principles.
- iii. Understand and Design using the Object Oriented Methodology.
- iv. Understand and Apply UML for visualizing, specifying, constructing, and documenting information about software intensive systems.
- v. Model the structure of the run-time system and their physical hardware elements.

Unit 1: Introduction to Systems

Systems - Role of System Analyst - SDLC – Feasibility Analysis – Fact Finding Techniques – SSAD - ER Diagrams – DFD – Decision Table – Decision Trees – Structured English.

Unit 2: System Design

System Design - Application Architecture and Modelling – Database Design - Input and Output Design - User Interface Design – System Construction and Implementation – System Operations and Support.

Unit 3: System Modelling

OOAD - Comparison of SSAD and OOAD - Modelling as a Design Technique – Object Modelling – Dynamic Modelling - Functional Modelling – Object Design – OOD Design Process.

Unit 4: Introduction to UML

Introduction to UML – Basic Structural Modelling – Classes – Relationships Common Mechanisms – Class Diagrams – Behavioural Modelling – Interaction – Uses cases - Architectural Modelling.

15hrs

15hrs

10hrs

Unit 5: UML Diagrams

Component Diagrams - Deployment Diagrams - Collaboration - Case Study.

Textbook

1. Sen, "System Analysis and Design", Tata McGraw Hill, 1989.

- 1. Jeffrey, "Structured System Analysis and Design", Tata McGraw Hill 2002.
- 2. Rumbaugh, Blaha, Premerlani, Eddy and Lorensen, "Object-Oriented Modeling and Design", PHI, 1997.
- 3. Booch, Rumbaugh and Jacobson, "The Unified Modeling Language User Guide", Pearson Education, 2003.
- 4. Jason, "UML A Beginners Guide", Tata McGraw Hill, 2003.
- 5. Yourdon, "Object-Oriented Analysis", Pearson Education, 2nd Edition, 2001.
- 6. Object- Oriented Analysis and Design with Applications, Addison-Wesley Professional, 2nd Edition, 2007.

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1	1	3	4	5	6
CO2		2	3	4		6
CO3		2	3			6
CO4		2	3	4		6
CO5		2	3	4		6

This course aims at training the student to implement the following problems which includes the important Computer Algorithms.

Upon completing the course students will be able to

- i. Explain different types of User Defined Functions through OOP.
- ii. Create code using Reusability Techniques.
- iii. Categorize different types of Polymorphism.
- iv. Solve problems using different Data Structures.
- v. Implement different problem solving techniques such as Divide and Conquer, Greedy Method and Dynamic Programming.

Lab cycle Objectives:

- 1. Different User Defined Functions.
- 2. Function Overloading
- 3. Functions with default arguments
- 4. Constructors and Destructor
- 5. Passing objects to functions
 - a. By Value and By Reference
 - b. Friend functions and Inline functions
 - c. Call by Reference and Return by Reference
- 6. Operator overloading
- 7. Virtual Function
- 8. Inheritance Types
- 9. Function and Class Templates
- 10. Implementations of linear Data Structures.
- 11. Implementations of nonlinear Data Structures.
- 12. Sorting Techniques
- 13. Implementation of Divide and Conquer method.
- 14. Implementation of Greedy method.
- 15. Implementation of Dynamic Programming approach.

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1					
CO2	1	2				
CO3		2	3			
CO4				4		
CO5						6

This course is to enable the students to learn program and concepts acquiring programming skills in python. To Train the students to analysis and visualize the different type on Data.

Upon completing the course students will be able to

- i. Built-in Data Types, introduces you to Python built-in data types
- Explain the modules and its features. ii.
- Illustrate different type of analytic iii.
- Ability to done testing ,GUI and script iv.
- Describe the Data Science by analysis and visualize v.

Unit 1: Python Basics

Introduction to Python — Built-in data types -Control Statements-Iterations – Conditional **Programming – Looping - Functions**

Unit 2: Modules

Modules- Importing module - Math module - Random module Packages - Composition-Testing -Profiling – Dealing with Exceptions – GUIs and Scripts

Unit 3: Data Science Skills

Skills required for Data Science – Deep Dive of Analytics – Descriptive Analytics – Diagnostic Analytics - Predictive Analytics - Prescriptive Analytics - Classification - Forecasting -Recommendations - Optimization - Simulation

Unit 4: Python

Hands on Data Analysis with Python - Manipulating Data Streams - Working with flat files -Working with unstructured files - Interacting with relational databases - Interacting with webbased data

Unit 5: Data Analysis

Exploratory Data Analysis and Visualization with Python – Creating basic graph – Adding measurements – Graph with styles and color – Graph with annotations and legends

Textbook

1. Introduction to Computing and Problem Solving Using Python, Balagurusamy, McGraw Hill Education India Private Limited; First edition ,2017

15hrs

20hrs

20hrs

6hrs / 6crs

15hrs

References

- 1. Python for Data Science for Dummies by Luca Massaron and John Paul Mueller
- 2. Think Python: How to Think Like a Computer Scientist, Allen B. Downey, Updated for Python 3, Shroff/O'Reilly Publishers,2nd edition, 2016.
- 3. Core Python Programming, R. NageswaraRao, Dreamtech Press, 2016
- 4. An Introduction to Python Revised and updated for Python 3.2, Guido van Rossum and Fred L. Drake Jr, Network Theory Ltd., 2011

Websites

- 1. <u>www.learnpython.org</u>
- 2. www.codecademy.com/learn/learn-python

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1					
CO2		2				
CO3			3			
CO4				4		6
CO5					5	

This course aims to equip the students to analyse, estimate and design new software with quality standards. In this course the Essentials in Software Engineering, software processes and the various software engineering paradigms are introduced. Software testing methods and quality maintenance strategies are included.

Upon completion of this course students will be able to

- i. Define diverse software application domains with different process models used in software development.
- ii. Elucidate the need for software specifications and requirements with their gathering techniques.
- iii. Transform requirements model into design model and demonstrate software and UI design principles.
- iv. Differentiate SCM and SQA models, classify testing strategies and tactics and evaluate them.
- v. Generate project schedule and construct, design and develop network diagrams for different types of Projects.

Unit 1: Introduction to Software and Software Engineering

The Nature of Software – The Unique Nature of WebApps – Software Engineering - The Software Process- Software Engineering Practice – Software Myths – Process Models: A Generic process Model – Process Assessment and improvement - Prescriptive process Models – Specialized Process Models- Unified process - personal and team process models.

Unit 2: Modelling: Principles that guide practice

Software Engineering Knowledge – Core Principles – Principles that guide Each Framework Activity. Understanding Requirements: Requirements engineering Establishing the Groundwork – Eliciting Requirements – Requirements Modelling: Scenarios, Information, and analysis Classes: Requirements Analysis- Scenario-Based Modelling - UML Models that supplement that use case – Data Modelling Concepts – Class-Based Modelling.

Unit 3: Design Concepts

Design with the Context of software Engineering – The Design Process – Design Concepts – The design Model. Architecture Design: Software Architecture- Architecture Genres – Architecture Styles - Architecture Design. QUALITY MANAGEMENT: Quality Concepts: What is quality? – Software Quality –The Software Quality Dilemma – Achieving Software Quality.

15hrs

15hrs

Unit 4: Software Testing Strategies

A Strategic Approach to Software Testing- Strategic Issues – Test Strategies for Conventional Software – Validation Testing – System Testing – Testing Conventional Applications - Software Testing Fundamentals – Internal and External Views of Testing – White Box Testing – Basis Path Testing – Control Structure Testing - Black Box Testing.

Unit 5: Managing Software Products

15hrs

Project Management Concepts: - The Management Spectrum – People – The Product – The Process – The Project – The W5HH Principle – Critical Practices. Project Scheduling: Basic Concepts - Project Scheduling – Scheduling. Risk Management: Reactive versus Proactive Risk Strategies - Software Risks – Risk Identification - Risk Projection – Risk Refinement.

Textbook

1. "Software Engineering a Practitioner's Approach", Roger S. Pressman, McGraw – Hill International Edition, Seventh Edition 2013.

- 1. Roger S Pressman, "Software Engineering -A Practical Approach" Tata McGraw Hill, 7th Edition, 2013
- 2. Stephen R Schach, "Object Oriented and Classical Software Engineering", Tata McGraw Hill, 8th Edition,2010
- 3. Watts S Humphrey, "A Discipline for Software Engineering", Pearson Education, 2001.
- 4. Boriz and Beizer, "Software Testing Techniques", DreamTech, 2nd Edition, 2000.
- 5. "Software Engineering", Ian Sommer Ville, Pearson Education, Nineth Edition, 2011.

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1	2	3			
CO2		2	3	4	5	6
CO3			3	4	5	6
CO4		2	3	4		
CO5	1	2	3	4	5	

MCA 5559

Objective

This course aims at developing the students to understand the power of Java and make them develop Web Applications using Java Servlet, JSP and create J2EE applications and also create database connectivity using JDBC.

Upon completion of this course students will be able to

- i. Develop simple java programs to demonstrate OOPs concepts.
- ii. Define Web Basics and Java Servlets
- iii. Explain Java Server Page features & database connectivity using JDBC
- iv. Analyze Enterprise architecture
- v. Create Java Applications using the features learnt.

Unit 1: Core Java

Introduction -Genesis of Java- Types of Java applications – Java Virtual Machine - Data types, Variables - Control statements - Arrays – String – Classes and Objects - Methods – Constructors - Inheritance - Interfaces - Packages – Exception Handling - to AWT - Java Applets- Life Cycle of An Applet – AWT controls -: Introduction to Java Foundation Classes(JFC) – Swings.

Unit 2: Introduction to Java Servlets

Java Server Technologies - Basics of Web Application, Architecture and challenges of Web Application, Introduction to servlet, Servlet life cycle, Developing and Deploying Servlets, Exploring Deployment, Descriptor (web.xml), Handling Request and Response Tracking Session.

Unit 3: JSP & Database Connectivity

JSP Architecture ,JSP Standard / Implicit Objects, JSP Page Implementation Class, JSP Basics & Syntax, JSP Directive Tags, JSP Action Tags, JSP Script related Tags, Using Java Beans from JSP, UseBean Tag, setProperty Tag, getProperty Tag, JSP Custom Tag Library. Database Programming using JDBC Introduction to JDBC, JDBC Drivers & Architecture, CURD operation Using JDBC, Connecting to non-conventional Databases.

Unit 4: J2EE Architecture

J2EE Platform Introduction -Enterprise Architecture Styles - J2EE Architecture - J2EE Technologies -Developing J2EE Applications - Naming and directory services - Application Servers - Implementing the J2EE Specifications - J2EE packaging and Deployment - J2EE packaging overview - Configuring J2EE packages.

15hrs

15hrs

5hrs/5cr

15hrs

Unit 5: Struts

Basics of Struts, Core Components, Struts Action, Struts Configuration, Interceptors, Struts Validation, Aware Interfaces, Zero Configuration, Struts with Tiles2, Hibernate with Struts, spring with Struts, Project Development in Struts.

Textbooks

- 1. Patrick Naoghton and Herbert Schidt, "The Complete Reference JAVA" 9th Edition Tata McGraw Hill, 2014.
- 2. John Hunt and Chris Loftus, "Guide to J2EE: Enterprise Java", 2nd Edition, Springer, 2012

- 1. Santosh Kumar K., Kogent Solutions Inc., Santosh Kumar K. And Kogent Solutions Inc, "Jdbc Servlets, And Jsp Black Book," New Edition (With Cd), Dreamtech Press, 2008
- 2. Bryan Basham, Kathy Sierra, Bert Bates, "Head First Sevlets and JSP: Passing the Sun Cetified Web Component", 2nd edition, O'Reilly Media, 2008
- 3. Kogent Solutions Inc, "JAVA SERVER PROGRAMMING, JAVA EE5", 1st edition, Dreamtech Press, 2008.
- 4. Ted Husted Cedric Dumoulin, "Struts in Action", 1st edition, Manning Dreamtech Press, 2007.

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1					
CO2		2				
CO3			3			
CO4				4		
CO5						6

MCA 5661

Computer Networks (TL)(4+2)

Objective

In order to play role in this era network-based computing, student must have a thorough understanding of these emerging networking technologies and applications.

Upon completion of this course students will be able to

- i. Basic Networking Concepts
- ii. Fundamental Radio Propagation Waves
- iii. Basic wireless networking concepts: Wifi, MAC protocols, mobile networking, 5G MILLI METER WAVES, ULTRA DENSE NETWORKS.
- iv. Network function virtualization and software defined networking
- v. Machine Learning Assisted Networking.

Unit 1: OSI Model

Uses of computer networks – Network hardware – Network software – Reference models – The OSI Reference models – The TCP / IP Reference – A comparison of the OSI and TCP Reference models – Example networks – Novell NetWare, The ARPANET – NSFNET – The Internet – X.25 networks – network standardization.

Unit 2: Application Layer

Fourier analysis – Bandwidth limited signals – The maximum data rate of a channel – Transmission media –Wireless transmission – The telephone system – Structure of the telephone system – The local loop – Cellular radio – Communication Satellites.

Unit 3: Network Layer

The channel allocation problem – Multiple accesses protocols – IEEE standard for LANS and MANS – Bridges – High speed LANS – Satellite networks - Data link layer design issues – error detection and correction elementary data link protocols. Network layer design issues – Routing algorithms –congestion control algorithms-internetworking- Internet layer in the internet.

Unit 4: Transport Layer

The transport – The transport service – Elements of transport protocols – A simple transport protocol - Network security – Domain Name system – Electronic Mail – USENET NEWS – The World Wide Web – Multimedia - Distributed processing

20hrs

20hrs

15hrs

15hrs

6hrs/6cr

Unit 5: Data Link Layer

Connectivity of vehicles : protocols AND frameworks – Security trust safety and privacy - Information Security –homomarphic encryption for cloud computing – Adhoc and deterministic network for mobility challenges and limitations relating to VANET and MANET- Sensor technologies and networks – ambient Intelligence in the network.

Textbook

1. Andrew S Tanenbaum, "Computer Networks", Prentice Hall of India private Ltd., New Delhi 3rd edition, 2013

References

- 1. John Freer Pitman, "Computer Communication and Network", Computer system series, 2010.
- 2. Sitnie, "Computer Network (TCP/IP), Tata McGraw Hill, 2011.
- 3. Willams Stallings, "Data & computer communications", Pearson Education Asia, Sixth Edition, 2012.
- 4. RS Rajesh, KS Easwarakumar, R Balasubramanian, "Computer Networks-Fundamentals and Applications", 12th Edition, Vikas Publications, NewDelhi, 2012.

Lab Exercises

- 1. Implementing a simple client/server application using sockets and TCP/IP
- 2. Using of open SSH
- 3. Port forwarding
- 4. Sniffing
- 5. Proactive filtering of weak pass words and salting passwords
- 6. Using open SSH for communication confidentiality and integrity
- 7. Using open SSL to set up a simple certifying authority
- 8. Issuing and verifying certificates to avoid MITM attacks
- 9. Setting up of a firewall
- 10. Setting up of IP Sec virtual private network (VPN)
- 11. Packet capturing and packet replay attack
- 12. ARP spoof, DNS spoof attacks- man in the middle attacks demonstration
- 13. Logic for brute force attacks
- 14. Program that using hashing technique. Encryption and Decryption of file program.

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1					
CO2		2				
CO3			3			
CO4				4		
CO5					5	

MCA 5463

Lab -3 Java Programming

Objective

This course is to train the student to develop problem solving abilities and facilitate them to build the necessary skill set and analytical abilities for developing java based software for real life problems.

Upon completion of this course students will be able to

- i. Develop simple java servlets to handle forms, session and Cookies.
- ii. Construct programs using JSP, create user defined tags and bean applications
- iii. Establish database connectivity and perform DDL, DML operations.
- iv. Understand Enterprise architecture and create ee applications
- v. Write programs using Struts.

Lab Components

- 1. Implementation of Array and flow control statement.
- 2. Write a Java program to count the letters, spaces, numbers and other characters of an input string.
- 3. Demonstrate the use of constructor or destructor.
- 4. Implementation of forms using servlet.
- 5. Develop Session handling using 4 different methods (Cookies, Hidden form field, URL rewriting and HttpSession
- 6. Demonstrate the advantages of JSP over Servlets.
- 7. Form handling in JSP
- 8. Create user defined Tags and demonstrate the same.
- 9. Write Java bean applications.
- 10. Create Java database connectivity
- 11. Perform DDL operations.
- 12. Perform DML Operations.
- 13. Develop applications J2EE, J2ME and JNDI.
- 14. Design applications using Struts

Bloom Taxonomy	K1	K2	K3	K4	K5	K6
CO1			3		5	
CO2				4		6
CO3		2				6
CO4					5	6
CO5						6

MCA 5456

Dot Net Programming

4hrs/4cr

Objective

The aim of the course is to understand the fundamental concepts of .NET framework and its merits over other programming languages, it will enable the students to develop desktop applications and web applications.

Upon completion of this course students will be able to

- i. Define .net technology and its salient features
- ii. Explain the attributes of vb.net and write programs.
- iii. Perform database connectivity with vb.net and ado.net
- iv. Compare the properties of C# with vb.net and C++.
- v. Create simple application systems using .net.

Unit 1: Dot Net Technology

Introduction - .Net revolution - Building blocks of .Net, overview of .Net applications .Net framework and its architecture Intermediate Language(IL), Common Language Runtime (CLR), JIT Compilation, Common Type System (CTS), Common Language System (CLS), Assemblies –Components of Assembly – DLL hell and Assembly Versioning

Unit 2: VB.NET

Introduction to VB.Net – and features of VB.NET- Arrays - procedures –scope – built-in functions – classes and objects – features of oops –constructors and destructors – creating property procedures – creating events – namespaces – import keyword - Inheritance, Polymorphism and Interfaces – overriding methods and properties – MyBase Keyword – MyClass Keyword – Abstract Base Classes – Shared members.

Unit 3: ADO.NET

Working with forms – Inheritance in windows forms – loading and showing forms –visual inheritance – adding controls – layout enhancement properties of controls – working with simple controls – adding menus – context menus - delegates -overview of ADO.Net – ADO.NET Architecture – ADO.NET Components – Using ADO.NET – Data form wizard Components and Inter operability.

Unit 4: C#.NET

Overview to C# - C # Compilation and Execution Process – C# Fundamentals (Data types, Operators, Programming constructs) –Inheritance –Sealed Classes – Interface - Polymorphism – Method Hiding – C# Property –Exception Handling.

15hrs

10hrs

10hrs

Unit 5: ASP.NET

ASP.Net- IIS - ASP.Net Page Life Cycle – ASP Vs ASP.Net - HTML Controls Vs Server side Controls –Validation Controls – Data binding in ASP.Net – Caching – Configuration in ASP.Net (web.config) –Session management – View State in ASP.Net.

Textbook

1. Kogent Learning Solutions Inc., ".NET 4.5 Programming 6-in-1, Black Book", 1 st edition, Dreamtech Press, 2013.

- 1. Evangelos Petroutsos, "Mastering Visual Basic .NET" 3d Edition, SYBEX, 2006
- 2. Bill Hamilton, "ADO.NET 3.5 Cookbook: Building Data Centic .net Applications", 2nd edition, O'Reilly, 2008.
- 3. Joseph Albahari, Ben Albahari, "C# 7.0 in a nutshell: The Definitive Reference", 1st edition, O'Reilly Media, 2017.
- 4. Dino Esposito, "Programming ASP.NET Core (Developer Reference)", 1st edition, Microsoft Press, 2018.

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1					
CO2		2				
CO3			3			
CO4				4		
CO5					5	6

The aim of the course is to enable the students to understand the basic concepts of data mining and its classification along with its applications. It introduces data mining and data warehousing and its architectures, Tasks under data mining, Association Rules, Classifications of data mining and Application in data mining.

Upon completion of this course students will be able to

- i. Understand the basic functionalities and concepts of data mining and data warehousing.
- ii. Analyse the need for data pre-processing and various steps involved in it.
- iii. Categorize the methodologies and algorithms and be familiar with association rule mining techniques and constraint based association mining.
- iv. Analyse the usages of Decision tree Algorithm, Bayesian Classification and Back Propagation techniques.
- v. Understand Clustering and Outline the applications and trends in Data mining.

Unit 1: Introduction to Data Mining and Data Warehousing

Introduction – Data mining – Data mining functionalities – kinds of patterns can be mined – classification – major issues. Data warehouse – A multidimensional data model – Data warehouse architecture – Data warehouse implementation – From data warehouse to data mining

Unit 2: Data Pre-Processing

Data pre-processing – Data cleaning – Data Integration and Transformation – Data Reduction – Discretization and concept hierarchy generation – Data mining primitives – Data mining Task – A data mining query language - Architecture of Data mining systems – Characterization and comparison

Unit 3: Association Rule Mining

Association Rule Mining – Mining single dimensional Boolean association rules from transactional databases – mining multilevel association rules from transaction databases – mining multidimensional association rules from Relational databases and Data warehouses – From association mining to correlation analysis

Unit 4: Classification and Prediction

Classification and prediction – Issues regarding classification and prediction – classification by decision Tree Induction – Bayesian Classification – Classification by Back propagation – classification based on concepts from association rule mining – prediction – classifier accuracy.

15hrs

15hrs

15hrs
Unit 5: Clustering and Trends in Data Mining

Clustering – Introduction to types of Clustering - Applications and Trends in Data Mining – Data mining system products and Research prototypes – Additional themes on Data mining – Social Impacts of Data Mining – Trends in Data mining.

Textbook

1. Jiawei Han, Michelien Kamber, "Data Mining Concepts and Techniques", 3rd Edition, 2014.

- 1. Arun K. Pujari, "Data Mining Techniques", Universities Press (India) Limited,2 nd Edition, 2013.
- 2. Alex Berson, Stephen j Smith , Data Warehousing ,Data mining and OLAP (Data warehousing / Data Management) , McGraw Hill 2012.
- 3. George M Marakas, Modern Data warehousing, Mining and Visualization: core concepts, Prientice Hall, First Edition, 2002
- 4. John Wang, Encyclopaedia of Data warehousing and Mining, Idea Group Publishing, 2009.
- 5. Shawkat Ali A B M, Saleh A. Wasimi, "Data Mining: Methods and Techniques, Third Indian Reprint, Cengage Learning, 2010.
- 6. Soman K. P., ShyamDiwakar, Ajay V. "Insight into Data Mining Theory and Practice", Fifth Printing, PHI Learning, 2011.

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1	2				
CO2		2	3	4		
CO3		2	3	4		
CO4			3	4		
CO5			3	4		6

Objective

The aim of this course is to provide the basic idea about Fuzzy sets and fuzzy logics. It also discusses the operations and applications of fuzzy logics. Introduces various ANN structures such as feed forward with back propagation, Counter propagation networks, Hopfield nets, BAM structure and ART architecture.

Upon completion of this course students will be able to

- Recall the difference between Crisp and Fuzzy sets and recognize Fuzzy Operations. i.
- Design Fuzzy Based Applications. ii.
- Compare and contrast Biological and Artificial Neurons and explain the basic ANN iii. algorithm.
- Assess different ANN training algorithms iv.
- Design Recurrent Networks and Elaborate ART architecture v.

Unit 1: Introduction to Soft Computing

Soft Computing: Meaning and Features - Introduction to Fuzzy Logic - Fuzzy Set - Fuzzy Set versus Crisp set – Operation on Fuzzy Sets – Fuzzy Arithmetic - Fuzzy relations.

Unit 2: Fuzzy Set

Constructing Fuzzy Sets and Operations on Fuzzy Set - Fuzzy rule based system: Fuzzy propositions - formation - decomposition & aggregation of fuzzy rules, fuzzy reasoning, fuzzy inference systems, fuzzy decision making & Applications of fuzzy logic.

Unit 3: Neural Networks

Why Neural Networks? - Characteristics of ANN - Training of ANN - Activation function -Multilayer networks - Back Propagation - The training algorithm, Forward pass, reverse pass, Adjusting weights – Advanced Algorithms – Applications.

Unit 4: Propagation

Counter Propagation Networks - Network Structure - Kohonen layer - Training, Interpolative Mode - The Grossberg Layer - An Application. Statistical methods - Training applications -Boltzmann Training - Cauchy Training.

Unit 5: Art

Hopfield Nets - Recurrent Network Configuration, Stability, Associative Memory BAM -Adaptive Resonance Theory – ART Architecture

10hrs

15hrs

15hrs

10hrs

4 Hrs/4cr

10hrs

Textbook

1. Phillip D Wasserman – Neural Computing Theory and Practice – Van Nostrand Reinhold Publications, Newyork, 1989.

- 1. Valluru Rao, Haya Griva Rao and Valluru B Rao C++ Neural Networks and Fuzzy Logic Addison Wesley, 1999.
- 2. Stamastios V Kartalopoulos Understanding Neural Networks and Fuzzy Logic Basic Concepts and Applications IEEE press, PHI publications, 1996.
- 3. Klir, GJ, Youan Bo, "Fuzzy Sets and Fuzzy Logic", Prentice Hall, 2012.

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1					
CO2						6
CO3		2				
CO4					5	6
CO5						

Objective

This course aims at training the students to develop simple desktop and web applications using Dot Net Technology.

Upon completion of this course students will be able to

- i. Recall simple programs and write programs on various concepts of VB.NET
- ii. Restate VB.NET forms
- iii. Apply ADO.NET on VBNET forms
- iv. Illustrate OOPS concepts in C#.net
- v. Design web pages in ASP.NET

Lab Exercises

- 1. Create Simple application using web controls
- 2. Use of calendar control, Tree view control & Validation controls
- 3. Query textbox and Displaying records & Display records by using database
- 4. Implement Single Inheritance and Overloading and Overriding
- 5. Explore the use of MyBase and MyClass
- 6. Data binding using data list control.
- 7. Data binding using data grid & Data grid control template
- 8. Inserting record into a database & Deleting record from a database
- 9. Create a complete system for student database
- 10. Implement Inheritance, Polymorphism in C#.NET
- 11. Implement Operator Overloading using C#.NET
- 12. Design a simple web page
- 13. Create an Digital Advertisement
- 14. Implement Data Connectivity in a web page
- 15. Handle Validation Operations in ASP.NET.

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1	2				
CO2		2	3			
CO3			3	4		
CO4				4	5	
CO5					5	6

Project Viva Voce

9hrs/4cr

Objective

This course is to encourage the students to develop a Real Time Application for client with the guidance of internal and external faculty.

Upon successful completion of the course the students will be able to

- i. Identify the company's software technology and methodologies
- ii. Develop the software projects by understanding the client requirement
- iii. Evaluate and analyse the SDLC, understand software design, coding techniques and software testing principle
- iv. Analyse a given problem and develop an algorithm to solve the problem
- v. Implement the various programming languages like C, C++, VB. Net, Java Construct in the right way

Evaluation Pattern

Internal (3 Presentations) -75 marks External (Final Presentation and Viva Voce) - 25 marks

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1					
CO2						6
CO3					5	
CO4			3			
CO5						6

Android programming (TL) (2+2)

Objective

The aim of this course is to understand the theory as well as practical knowledge of mobile computing using android.

Upon completion of this course students will be able to

- i. Describe the features of the WAP
- ii. Discuss the Introduction to Android
- iii. Construct the different buttons and menus
- iv. Illustrate different types of layout
- v. Creating different type of view

Unit 1: Wap Overview

Overview of the WAP – Components of WAP standard – WAP architecture – Design principles-Design

Unit 2: Android Architecture

Introduction to Android – Android Architecture – Features – Applications - Versions – Flavours - Building the project.

Unit 3: Controls

User Interface Architecture –Activity life cycle - Intents – Services – Content providers - UI Widgets – Text controls –Button controls – Toggle buttons – Menus – Options menu – Context menu – popup menu.

Unit 4: Layout

Layout manager – Relative layout – Linear layout - Table layout – Grid layout – Adaptor – Array adaptor – ArrayList adaptor – Base adaptor – Lists.

Unit 5: Viewing

View – Grid view – Web view – Scroll view – Search view – Dynamic list view – Expanded list view – Working with data storage – Shared preferences – Preferences activity – Files access – database connectivity using SQLite. App Development.

Textbook

1. Learning Android, Marko Gargenta, Masumi Nakamura, O'Reilly, 2nd edition, 2014.

10hrs

15hrs

4hrs/4cr

. . .

15hrs

10hrs

10hrs

References

- 1. Principles of Mobile Computing, UweHansmann, LotharMerk, Martin S.Nicklous and Thomas Stober, Springer Professional Computing, 2nd Edition, 2008.
- 2. Mobile Computing Theory and Practice, KumKumGarg, Pearson Education, illustrated edition, 2010.
- 3. Mobile Computing and Wireless Communications, Amjad Umar, NGE Solutions, 2004.

Websites

- 1. www.edunotes.in/mobile-computing
- 2. www.tutorialspoint.com/android.
- 3. www.javapoint.com/android.

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1					
CO2		2				
CO3			3	4		
CO4					5	
CO5						

Objective

The primary objective of this course is to introduce the basic principles, techniques, and applications of Artificial Intelligence. Emphasis will be placed on the teaching of these fundamentals, not on providing a mastery of specific software tools or programming environments.

Upon completion of this course students will be able to

- i. Formulate the AI problem using strategies
- ii. To solve different problems using AI algorithm
- iii. Formulate a given problem in the language/framework of different AI methods.
- iv. Illustrate knowledge base system
- v. Classify the expert systems

Unit 1: Introduction to AI

Introduction to AI-Problem formulation, Problem Definition -Production systems, Control strategies, Search strategies. Problem characteristics, Production system characteristics - Specialized production system.

Unit 2: AI Algorithms

Problem solving methods – Problem graphs, Matching, Indexing and Heuristic functions -Hill Climbing-Depth first and Breath first, Constraints satisfaction – Related algorithms, Measure of performance and analysis of search algorithms

Unit 3: Knowledge Representation

Game playing – Knowledge representation, Knowledge representation using Predicate logic, Introduction to predicate calculus, Resolution, Use of predicate calculus, Knowledge representation using other logic-Structured representation of knowledge.

Unit 4: Rules of Inference

Knowledge representation -Production based system, Frame based system. Inference – Backward chaining, Forward chaining, Rule value approach, Fuzzy reasoning – Certainty factors, Bayesian Theory-Bayesian Network- Dempster – Shafer theory.

Unit 5: Expert Systems

Expert systems – Architecture of expert systems, Roles of expert systems – Knowledge Acquisition – Meta knowledge, Heuristics. Typical expert systems – MYCIN, DART, XOON, Expert systems shells. Introduction to Deep Leaning.

12hrs

13hrs

11hrs

11hrs

4 hrs/4cr

13hrs

Textbook

1. Stuart Russel and Peter Norvig, "Artificial Intelligence – A Modern Approach", Pearson Education, 2010.

- 1. David W. Rolston, "Principles of Artificial Intelligence and Expert System Development", McGraw Hill Book Company, 1988.
- Elaine rich, Kevin Knight, "Artificial Intelligence", Tata McGraw Hill.
 Carl Townsend, "Introduction to Turbo Prolog", 2nd Edition, Sybex Inc, 1987.
- 4. Stamations V. Kartalopous, "Understanding Neural Networks and Fuzzy Logic", Wiley Press, 1995.

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1					
CO2		2				
CO3			3			
CO4				4		
CO5					5	6

Objective

The course aims to provide knowledge and understanding in the fundamental principles of Computer Graphics and Mathematical concepts related to Computer graphical operations. To provide in-depth knowledge of display systems, image synthesis and shape modeling of 3D applications.

Upon completion of this course students will be able to

- i. Recall display devices, Line and circle drawing algorithms
- ii. Interpret 2d transformations and clipping on images
- iii. Apply 3D concept on objects and surface.
- iv. Analyse 3D transformation and Projection
- v. Create a real life picture with fractals

Unit 1: Computer Graphics Algorithms

Introduction to Computer Graphics: Display devices - Hard copy devices - Interactive input devices Graphics System, Application of computer graphics - Line Drawing Algorithms- Circle Generating Algorithms- ellipse generating -Scan-Line Polygon

Unit 2: 2D Transformations and Clipping

Two dimensional Geometric Transformations - Composite Transformations - Transformations between Coordinate Systems Raster methods for Transformations- Two Dimension Viewing. TWO-Dimension Viewing- Clipping- Line Clipping- Polygon Clipping – Text Clipping.

Unit 3: 3D Representation

Three Dimensional Concepts- Three Dimensional Display Methods viewing – Three Dimensional Object Representations – Polygon Surfaces- Polygon Tables-Polygon Meshes-Bezier Curves - Bezier Surfaces- Sub Division Method – Octrees - BSP Trees.

Unit 4: Projections

Three Dimensional Transformations – Projection - Parallel Projection - Perspective Projection Hidden Surface and Hidden – Line Removal-Classification of Algorithms – Back Face Removal – Depth Buffer Method – Scans Line Method

Unit 5: Fractals

Fractals : Fractals and Self similarity – Peano curves – Creating image by iterated functions – Mandelbrot sets – Julia Sets – Random Fractals – Overview of Ray Tracing – Intersecting rays

10hrs

15hrs

10hrs

10hrs

15hrs

4hrs/4cr

with other primitives – Adding Surface texture – Reflections and Transparency – Boolean operations on Objects

Textbook

1. Computer Graphics by Donald Hearn and M Pauline Baker PHI Publications 2013.

- 1. Principles of Interactive computer graphics William M. Newman & F Sproull.
- 2. Steven Harrington. Computer Graphics McGraw Hill International Edition 2nd Edition, 1987.
- 3. Edward Angel, Dave Shreiner, "Interactive Computer Graphics: A Top Down Approach with Webgl", 7th Edition, Pearson, 2014
- 4. Steven J Gortler, "Foundations of 3D Computer Graphics", 1st edition, MIT Press 2012

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1					
CO2		2				
CO3			3			
CO4				4		
CO5					5	

BIG DATA ANALYTICS

4Hrs/4cr

Objective

The aim of the course is to explore the fundamental concepts of Big Data Analytics, and analyse the big data using intelligent techniques, and facilitate them to understand various search methods and visualization techniques, and help them to employ the various techniques for mining data stream, and understand the applications using analytics tools to solve big data problems.

Upon completion of this course students will be able to

- i. Explain the challenging nature of big data and differentiate it with existing technologies.
- Design strategies to collect, manage, store, query, and analyze various datasets. ii.
- Develop hands-on experience on large-scale analytics tools to solve big data problems. iii.
- Understand the impact of big data in business decisions and strategy designing. iv.
- Exhibit New skills in Big data analytics v.

Unit 1: Big Data in the Enterprise

Big Data in the Enterprise: Search at Scale- Multimedia Content-Sentiment Analysis- Enriching and Contextualizing Data- Data Discovery or Exploratory Analytics- Operational Analytics or Embedded Analytics- Realizing Opportunities from Big Data- Taming the "Big Data". The New Information Management Paradigm: What Is Enterprise Information Management?- New Approach to Enterprise Information Management for Big Data- Implications of Big Data to Enterprise IT.

Unit 2: Big Data implications for Industry

Big Data Implications for Industry: The Opportunity- Big Data Use Cases by Industry Vertical. Emerging Database Landscape: The Database Evolution- The Scale-Out architecture Database Workloads- Database Technologies for Managing the Workloads- Columnar Databases-Requirements for the Next Generation Data Warehouses- Polyglot Persistence: The Next Generation Database Architecture.

Unit 3: Architecture for Big Data and Analytics

Application Architectures for Big Data and Analytics: Big Data Warehouse and Analytics- Big Data Warehouse System Requirements and Hybrid Architetures- Enterprise Data Platform Ecosystem- BDW and EDW- How Does Traditional Data Warehouse processes map to tools in Hadoop Environment- How Hadoop Works- The Hadoop Suitability Works- Additional Considerations for Big Data Warehouse- Big Data and Master Data Management- Data quality Implications for Big Data- Putting it all Together- A Conceptual BDW Architecture. Data Modelling Approaches for Big Data and Analytics Solutions: Understanding Data Integration Patterns- Big Data Workload Design Approaches- Map-Reduce Patterns, Algorithms, and Use Cases- No SQL Data Modelling Techniques.

15hrs

10hrs

10hrs

Unit 4: Big Data Analytics Methodology

Big Data Analytics Methodology: Challenges in Big Data Analysis- Big Data Analytics Methodology- Analyze and Evaluate Business Use Case- Develop Business Hypotheses. Extracting Value from Big Data: In Memory Solutions, Real Time Analytics, And Recommendation Systems: Building a Recommendation System.

Unit 5: Data Scientist

Data Scientist: The New Skill: Data Scientist- The Big Data Workflow- Design Principles for Contextualizing Big Data- A Day in the Life of a Data Scientist.

Textbooks

- 1. "Big Data Principles and best practices of scalable real time data systems" Nathan Marz, James Warren Dreamtech Press Edition, 2015.
- 2. "Big Data Analytics: Disruptive Technologies for Changing the game", Dr. Arvind Sathi, Elsevier, 2013, ISBN 978-1-58347-380-1.

Reference

- 1. Michael Berthold, David J. Hand, "Intelligent Data Analysis", Springer, 2007.
- 2. Chris Eaton, Dirk DeRoos, Tom Deutsch, George Lapis, Paul Zikopoulos, "Understanding Big Data: Analytics for Enterprise Class Hadoop and Streaming Data", 1st Edition, Tata McGrawHill, 2012.
- 3. Anand Rajaraman, Jeffrey David Ullman, "Mining of Massive Datasets", Cambridge University Press, 2012.
- 4. Bill Franks, "Taming the Big Data Tidal Wave: Finding Opportunities in Huge Data Streams with Advanced Analytics", John Wiley & sons, 2012.
- 5. Glenn J. Myatt, "Making Sense of Data", John Wiley & Sons, 2007.
- 6. Pete Warden, "Big Data Glossary", O'Reilly, 2011.
- 7. Da Ruan, Guoquing Chen, Etienne E.Kerre, Geert Wets, "Intelligent Data Mining", Springer, 2007.
- 8. Michael Minelli (Author), Michele Chambers (Author), Ambiga Dhiraj (Author), Big Data, "Big Analytics: Emerging Business Intelligence and Analytic Trends for Today's Businesses", Wiley Publications, 2013.

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1	2				
CO2	1	2	3			
CO3		2	3	4		6
CO4		2	3	4	5	
CO5			3			6

10hrs

Objective

The aim of this course is to enable the student to understand the security and authentication methods available in biometrics techniques such as finger prints, hand print, face, Iris, Retina, and voice recognition and the technology behind them.

Upon completion of this course students will be able to

- i. Exploring the biological characteristics
- ii. Individual physically and behaviourally distinctive in a number of ways
- iii. Making them to understand technology uses and applications
- iv. Exploring with the scientific basis of biometrics
- v. Enhancing the security by combining more than one

Unit 1: Introduction

Biometrics – Introduction- Verification vs Identification – Applications – Facts other common Biometric characteristics. Finger print technology - Technical Description – Finger print security characteristics – Technology uses and applications increased or decreased costs.

Unit 2: Face Recognition

Face Technology – Technical Description – Face Recognition security characteristics – Face Technology uses - Face Technology considerations – Network product commonalities. Iris and Retina Vascular Pattern Technology – Technical Description- Technology uses and applications-Implementation criteria – Increased or Decreased costs – Sample product.

Unit 3: Signature

Other Physical Biometrics – Hand Scan Geometry – Hand Print Biometrics – DNA Biometrics – Signature And Hand Writing Technology – Technical Description – Classification – Technology Uses And Applications.

Unit 4: Voice Recognition

Voice Recognition – The speaking voice and factors to consider – How vowels are formed – Rules for modifying vowels – Spectral Analysis – Factors influencing fundamental frequency – Voice qualities and Recognizing Distinctiveness.

Unit 5: Authentication

Multi-biometrics and Two factor authentication – Executive decision – Establish goals – Need analysis – Selection criteria – Ripple security logic – Selection process – Implementation Plan.

15hrs

10hrs

15hrs

10hrs

10hrs

Biometrics

4 Hrs/4cr

Textbook

1. John D Woodward Jr, Nicholos M Orlans and Peter T Higgins, "Biometrics", Osborne Publications, 2003.

- 1. Julian Ashbourn, "Practical Biometrics: From Aspiration to Implementation", Springer Professional Computing, 2001.
- 2. RundBolleJohnathan, H. Connell, Nalini K Ratha, "Guide to Biometrics" Springer Professional Publications, 2000.

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1					
CO2		2				
CO3			3			
CO4				4		
CO5					5	

Objective

This course is to enable the students to understand the basic concepts in compiler construction. Fundamental concepts in compilers, structure of the compiler and the tools to write compilers are introduced. Internal process mechanism in a compiler is included. Parsing techniques and Translation schemes are introduced.

Compiler Design

Upon completion of this course students will be able to

- i. Understand the different phases of compiler.
- ii. Design a lexical analyzer for a sample language.
- iii. Apply different parsing algorithms to develop the parsers for a given grammar.
- iv. Describe syntax-directed translation and run-time environment.
- v. Discuss to implement code optimization techniques and a simple code generator.

Unit 1: Introduction

Introduction To Compilers – Structure of a compiler – Lexical Analysis – Role of Lexical Analyzer – Input Buffering – Specification of Tokens – Recognition of Tokens – Lex – Finite Automata – Regular Expressions to Automata – Minimizing DFA.

Unit 2: Parsers

Parsers – Shift-reduce parsing – Operator-precedence parsing – Top-down parsing – Predictive parsers – LR Parsers – The canonical collection of LR (0) items- Constructing SLR parsing tables – Constructing canonical LR parsing tables – Constructing LALR parsing tables – Using ambiguous grammars – An automatic parser generator – Implementation of LR parsing tables – Constructing LALR sets of items.

Unit 3: Syntax

Syntax-directed translation schemes – Implementation of syntax-directed translators – Intermediate code – Postfix notation

Unit 4: Symbol

Three-addresses code, quadruples and triples – Postfix translations – The contents of a symbol table – Data structures for symbol tables – Representing scope information.

10 hrs

15hrs

15hrs

4 Hrs /4cr

10 hrs

Unit 5: Lexical and Semantic

Errors – Lexical-phase errors – Syntactic-phase errors – Semantic errors – The principal sources of optimisation – Loop optimization – The DAG representation of basic blocks – Object programs – Problems in code generation – A simple code generator – peephole optimization.

Textbook

1. Aho AV, Ullman JD, Principles of Compiler Design, Narosha Publications, 1999.

- 1. William A Bar, RM Bates, DA Gustaf, John D. Couch, "Compiler Construction", Galgotia Publications 2000
- V. Raghavan, Principles of Compiler Design^I, Tata McGraw Hill Education Publishers, 2010

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1					
CO2		2				
CO3				4		
CO4			3			
CO5					5	

Objective

This course gives a detailed study of the multimedia systems and the technologies that support the components of multimedia. Hands on training will be given on multimedia applications with the help of Sound Forge, Movie Maker and macro media FlashMX. Advanced concepts of action script in flash will be implemented.

Upon completion of this course students will be able to

- i. Recall Distributed Multimedia Systems and the components of Multimedia.
- Summarize the need and requirements of Continuous Multimedia Systems. ii.
- iii. Develop Audio and Video applications using Authoring Tools.
- Create interactive media applications using basic animation techniques in Flash. iv.
- Build interactive Forms using Action Script and the Objects in Flash. v.

Unit 1: Introduction

Uses of multimedia information - Architectures and issues for distributed multimedia systems -Digital Audio representation and processing - Video Technology - Digital video and Image Compression - Time based media representation and delivery.

Unit 2: Middleware

Operating System support for continuous media applications - Middleware system services -Architecture - Multimedia file systems and information models - Multimedia services over the public network – Knowledge based Multimedia systems.

Unit 3: Audio

Introduction to Sound Forge - Non-linear editing: meaning and process -sequencing -Audio Editing Tools - Process of equalization - Applying effects to sound - Audio Mixing - Introduction to Movie maker- Design, create and edit a movie using Movie maker - import audio clips into Movie Maker.

Unit 4: Flash

Introduction to Flash MX - Animation Techniques in Flash MX - Action Scripts - constructs -Functions - Objects - Understanding Text usage - Predefined objects.

Unit 5: Forms

Using and building Components - Data driven Flash solutions - scrolling, dragging, making menus, dynamic drawing, Using Forms.

14hrs

12 hrs

14hrs

10hrs

10hrs

4Hrs/4cr

Textbook

1. John F Koegel Buford, "Muiltimedia Systems", Pearson Education, 2001.

- 1. James E Shuman, "Multimedia in Action", Vikas Publications, 2001.
- 2. Robert Reinhardt and Joey Lott, "Flash Action Script Programming Bible", John Willey Dream Tech Publications, 2002.
- 3. "Macro Media Director 8.5 Shockwave studio user manual", Macromedia Publications, 2002.
- 4. Derek Franklin and Jobe Makar, "Flash MX Action scripting training from the source", Macromedia Press, 2003.
- 5. Colin Moock, "Action Script for Flash MX", Oreilly publications 2nd Edition, 2002.
- 6. Gary Rosenweig, "Special Edition Using Macromedia Director MX", QUE Publications, 2003.

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1					
CO2		2				
CO3			3			
CO4						6
CO5						6

Parallel computing

4Hrs/4cr

Objective

The aim of the course is to enable the students to understand OpenCL standard for programming heterogeneous computers built from CPUs, GPUs and other processors. Using OpenCL to write task-based and data-parallel programs to realize the advantage of these different types of processors in a single system.

Upon completion of this course students will be able to

- i. Exploring the parallel computing knowledge
- ii. Making them to design software using suitable searching technique.
- iii. Exploring Graph algorithm to speed up the processing.
- iv. Students to develop program compatible to any gadgets.
- v. Develop to optimize the memory usage

Unit 1: Introduction

Introduction - Need for Parallel Computing - Scope of Parallel Computing – Issues in Parallel Computing - Models of Parallel Computing - Taxonomy of Parallel Architectures - Dynamic Interconnection Networks - Static Interconnection Networks - Message Transfer - Reduction, Parallel Prefix - GPU thread model

Unit 2: Modelling

Performance Modelling - Metrics - Granularity - Scalability – Overhead - Isoefficiency - Matrix Algorithms - Matrix Partitioning - Matrix Transposition - Matrix Vector Multiply - Matrix Multiply - CUDA, vector add, matrix multiply, sequence alignment -Linear Equations - LU(P) Decomposition-Searching and Optimization - The knapsack problem -Branch and Bound -Dynamic Programming -Sorting - Types of sorters -Sorting networks - Radix / Bucket sorts

Unit 3: Graph

Graph algorithms -Minimum Spanning Tree - Single Source Shortest Paths -All Pairs Shortest Paths - Fast Fourier Transforms - Fourier Series, basis functions, Euler - Discrete and Fast Fourier Transforms - Convolution, roots of unity, divide and conquer - Evaluation and Interpolation -Recursive, bit reversal, iterative Cooley - Tukey FFT - Pease FFT, locality.

Unit 4: Open CL

Introduction to OpenCL - OpenCL Architecture - Programming Model - Getting Started - Software Development Environment and Tools - Debugging tools -Getting into OpenCL Details OpenCL Kernel Programming - Data Types and Type Checking-GPU - specific Features-

15hrs

10hrs

15hrs

10hrs

Advanced OpenCL - Developing applications on Heterogeneous devices - OpenCL Images - API Features – Graphics API Bindings.

Unit 5: Applications

10hrs

Generic Application tuning - Evaluating Application Performance - Performance Tuning Tips -Optimizations on Multi - Core CPUs-Optimization on Many - Core Architectures - GPU architectures - GPU Threading Concepts - GPU Memory Hierarchy - ATI GPU Architecture -Nvidia GPU Architecture.

Textbook

1. Kai Hwang and Zhi.WeiXu, "Scalable Parallel Computing", Tata McGraw-Hill, New Delhi, 2003

- 1. David E. Culler & Jaswinder Pal Singh, "Parallel Computing Architecture: A Hardware/Software Approach", Morgan Kaufman Publishers, 1999.
- 2. Michael J. Quinn, "Parallel Programming in C with MPI & OpenMP", Tata McGraw-Hill, New Delhi, 2003.
- 3. Kai Hwang, "Advanced Computer Architecture" Tata McGraw-Hill, New Delhi, 2003.
- 4. David B. Kirk, Wen-mei W. Hwu. Programming Massively Parallel Processors: A Hands-on Approach. Morgan Kaufmann, 2010.
- 5. http://amd.developers.opencl/

Blooms Taxonomy	K1	K2	K3	K4	K5	K6
CO1	1					
CO2		2				
CO3			3			
CO4				4		
CO5					5	

		JANUARY 2022		
DATE	DAY		DAY	WORKING DAYS
1	SAT	New Year		
2	SUN	Even Semester begins		
3	MON		11	81
4	TUE		ш	82
5	WED	11 Internal Test Period for 21 series (05 Jan-13 Jan)	IV	83
6	THU		v	84
7	FRI		VI	85
8	SAT		1	86
9	SUN			
10	MON		1	87
11	TUE		11	88
12	WED		III	89
13	THU		IV	90
14	FRI	Pongal Holidays (14-16)		
15	SAT	Pongal/ Thiruvalluvar Day		
16	SUN	Uzhavar Thirunal		
17	MON	Retest if needed (17-19)		
18	TUE			
19	WED			
20	THU			
21	FRI	Odd Semester Examination begins		El
22	SAT			E2
23	SUN			
24	MON			E3
25	TUE			E4
26	WED	Republic Day		
27	THU			E5
28	FRI			E6
29	SAT			E7
30	SUN			
31	MON			E8

Dr. M. DAVAMANI CHRISTOBER Principal & Secretary The American College Madurai-625 002



7		FEBRUARY 2022	45	
DATE	DAY		DAY	WORKING DAYS
1	TUE			E9
2	WED			E10
3	THU			E11
4	FRI			E12
5	SAT			E13
6	SUN			
7	MON			E14
8	TUE	Semester Holidays (8 - 15)		
9	WED			
10	THU			
11	FRI			
12	SAT			
13	SUN			
14	MON			
15	TUE			1
16	WED	Even Semester Begins	I	1
17	THU		п	2
18	FRI		III	3
19	SAT		IV	4
20	SUN			
21	MON		v	5
22	TUE		VI	6
23	WED		I	7
24	THU		П	8
25	FRI		ш	9
26	SAT		IV	10
27	SUN			
28	MON		v	11

Dr. M. DAVAMANI CHRISTOBER Principal & Secretary The American College Madural-625 002 - Calendar 2021 - 22



		MARCH 2022	20	
DATE	DAY		ORDER	WORKING DAYS
1	TUE		VI	12
2	WED	Ash Wednesday	1	13
3	THU		П	14
4	FRI		ш	15
5	SAT		IV	16
6	SUN			
7	MON		V	17
8	TUE		VI	18
9	WED		I	19
10	THU		П	20
11	FRI	Sports Day	ш	21
12	SAT		IV	22
13	SUN			
14	MON		v	23
15	TUE		VI	24
16	WED		1	25
17	THU		П	26
18	FRI		111	27
19	SAT		IV	28
20	SUN			
21	MON		V	29
22	TUE		VI	30
23	WED		1	31
24	THU		H	32
25	FRI		III	33
26	SAT	Hostel Day	IV	34
27	SUN			
28	MON	I Internal Test Period (28 Mar - 6 Apr)	V	35
29	TUE		VI	36
30	WED		I	37
31	THU		II	38

Dr. M. DAVAMANT CHRISTOBER Principal & Secretary The American College Madurai-625 002



		APRIL 2022		
DATE	DAY		DAY	WORKING
1	FRI		111	39
2	SAT	Telugu New Year		
3	SUN			
4	MON	Registration and payment of Even Semester Exam fees without fine	IV	40
5	TUE		V	41
6	WED		VI	42
7	THU	A.S.	1	43
8	FRI		11	44
9	SAT			
10	SUN	Palm Sunday	1.22	
11	MON		111	45
12	TUE		IV	46
13	WED		V	47
14	THU	Tamil New Year/ Mahavir Jayanthi		
15	FRI	Good Friday		
16	SAT			
17	SUN	Easter		
18	MON		VI	48
19	TUE		1	49
20	WED	Registration and payment of Even Semester Exam fees with fine	п	50
21	THU		III	51
22	FRI		IV	52
23	SAT	College Day	v	53
24	SUN			
25	MON		VI	54
26	TUE		1	55
27	WED		П	56
28	THU		ш	57
29	FRI		IV	58
30	SAT		v	59

Dr. M. DAVAMANI CHRISTOBER Principal & Secretary The American College Madurai-625 002



		MAY 2022		1.2
DATE	DAY		DA Y ORDER	WORKING
1	SUN	May Day		
2	MON		VI	60
3	TUE	Ramzan		
4	WED		1	61
5	THU		11	62
6	FRI		111	63
7	SAT	Graduation Day	IV	64
8	SUN			
9	MON		v	65
10	TUE		VI	66
11	WED		1	67
12	THU	Thirukalyanam		
13	FRI		п	68
14	SAT		111	69
15	SUN			
16	MON	Ethirsevai		
17	TUE	II Internal Test Period (17-25)	IV	70
18	WED		V	71
19	THU		VI	72
20	FRI		I	73
21	SAT		11	74
22	SUN			
23	MON		ш	75
24	TUE		IV	76
25	WED		v	77
26	THU		VI	78
27	FRI		1	79
28	SAT			
29	SUN			
30	MON		п	80
31	TUE		III	81

Dr. M. DAVAMANI CHRISTOBER Principal & Secretary The American College Madural-625 002

---- Calendar 2021 - 22



_		JUNE 2022		
DATE	DAY		DAY	WORKING DAYS
1	WED	III Internal Test Period (if needed) 1-4	IV	82
2	THU		V	83
3	FRI		VI	84
4	SAT		1	85
5	SUN			
6	MON		11	86
7	TUE	Candle Lighting Satellite Campus	III	87
8	WED	Candle Lighting PG	IV	88
9	THU	Candle Lighting UG SF	V	89
10	FRI	Candle Lighting UG Aided Even Semester Ends	VI	90
11	SAT			
12	SUN.	C		
13	MON			
14	TUE	End of Semester Examination begins		EI
15	WED			E2
16	THU			E3
17	FRI			E4
18	SAT			E5
19	SUN			
20	MON			E6
21	TUE			E7
22	WED			E8
23	THU			E9
24	FRI			E10
25	SAT			E11
26	SUN			
27	MON			E12
28	TUE			E13
29	WED			E14
30	THU			E15

Dr. M. DAVAMANI CHRISTOBER Principal & Secretary The American College Madurai-625 002

= Calendar 2021 - 22

Academic Time table

THE AMERICAN COLLEGE, MADURAI-2. DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS TIME TABLE APRIL 2022

Day ORDE R	YEAR	08.00 - 08.55	09.00 - 09.55	10.15 - 11.10	11.15 - 12.10	12.15 - 1.10
	I MCA	MCA 4664 LAB 1 JFR	MCA 4664 LAB 2 JFR	MCA 4656 NTR 1	MCA 4660 RJ 1	MCA 4458 JJK1
D1	II MCA	MCA 5462 LAB1 TS	MCA 5462 LAB 2 TS	MCA 5460 JJK1	MCA 5558 NG 1	MCA 5964 CJ 1
-271	I MCA	MCA 4660 LAB 1 RJ	MCA 4660 LAB 2 RJ	MCA 4656 NTR	MCA 4664 JFR 1	MCA 4458 JJK2
D2	II MCA	MCA 0440 LAB 1 JC	MCA 0440 LAB 2 JC	MCA 5558 NG 2	MCA 5460 JJK2	MCA 5964 TS1
D3	I MCA	MCA 4466 LAB 1 NG	MCA 4466 LAB 2 NG	MCA 4656 NTR 3	MCA 4664 JFR 2	MCA 4660 RJ 2
	ПМСА	MCA 5460 JJK 3	MCA 0440 JC 1	MCA 5456 TS 1	MCA 5964 NTR1	MCA 5964 NTR2
	I MCA	MCA 4458 JJK3	MCA 4462 JC 1	MCA 4656 NTR 4	MCA 4664 JFR 3	MCA 4660 RJ 3
D4	II MCA	MCA 5462 LAB 3 TS	MCA 5462 LAB 4 TS	MCA 5558 NG 4	MCA 0440 JC 2	MCA 5964 TS2
	I MCA	MCA 4462 LAB 1 JC	MCA 4462 LAB 2 JC	MCA 4656 NTR 5	MCA 4458 JJK4	MCA 4660 RJ 4
D5	ПМСА	MCA 5456 TS 2	MCA 5558 NG 3	MCA 5558 NG 5	MCA 5964 JFR 1	MCA 5964 JFR2
	I MCA	MCA 4466 LAB 3 NG	MCA 4466 LAB 4 NG	MCA 4656 NTR 6	MCA 4664 JFR. 4	MCA 4462 JC
D6	II IMCA	MCA 5456 TS 3	MCA 5456 TS 4	MCA 5460 JJK 4	MCA 5964 RJ1	MCA 5964 RJ2

JFR - Dr.J.Frank Ruben Jebaraj

NTR - Er N. Thirupathirajan

RJ - Mrs.A.Ann Ramola Jeyanthi JJK – Prof. J.John Jeya Kamaraj

TS – Mrs.T. Suganya CJ – Mrs.J. Christy Jeeva Ratna Devi

NG - Mrs.N.Gayathri

DEPARTMENT OF MCA

WORKLOAD FOR THE SEMESTER APRIL 2022

ER.N.THIRUPATHIRAJAN

SNO	COURSE CODE	COURSE TITLE	HOURS
1	MCA 4656	Mathematical Foundation for Computer Application -II	6
2	MCA 5964	Project	2
		TOTAL	8

DR.J.FRANK RUBEN JEBARAJ

SNO	COURSE CODE	COURSE TITLE	HOURS
1	MCA 4664	OOAD & UML (TL)	6
3	MCA 5964	Project	2
		TOTAL	8

Mrs.A.Ann Ramola Jeyathi

SNO	COURSE CODE	COURSE TITLE	HOURS
1	MCA 4660	Advanced DBMS (TL)	4 + 2
2	MCA 5964	Project	2
		TOTAL	8

REV.J.JOHN JEYA KAMARAJ

SNO	COURSE CODE	COURSE TITLE	HOURS
1	MCA 4458	Design and Analysis of Algorithm using C++	4
2	MCA 5460	Soft Computing	4
		TOTAL	8

MRS. T.SUGANYA

SNO	COURSE CODE	COURSE TITLE	HOURS
1	MCA 5456	Dot Net Programming	4
2	MCA 5462	LAB 4 – Dot net Programming	4
3	MCA 5964	Project	2
		TOTAL	10

MRS. J.CHRISTY JEEVA RATNA DEVI

SNO	COURSE CODE	COURSE TITLE	HOURS
1	MCA 4462	Embedded System (TL)	2+2
2	MCA 0440	Android Programming (TL)	2+2
3	MCA 5964	Project	1
		TOTAL	9

MRS. N.GAYATHRI

SNO	COURSE CODE	COURSE TITLE	HOURS
1	MCA 4466	LAB 2 –Computer Algorithms using C++	4
2	MCA 5558	Data Mining and Warehousing	5
		TOTAL	9

Memorandum of Understanding



Memorandum of Understanding (MoU)for Industry- Institution collaboration between The American College(Autonomous), Affiliated to Madurai Kamaraj University, Madurai – 625 002 And Sysfore Technologies Pvt. Ltd., Bengaluru-560 034

This Memorandum of Understanding has been agreed to between The American College (Autonomous), Tallakulam, Madurai – 625 002,hereinafter called First Party and Sysfore Technologies Pvt. Ltd, #117-120, 80 feet road, 4th Block, Koramangala, Bengaluru – 560 034,herein after called Second Party for Academic Co-operation, Research and Placementherein after called Second Party for Academic Co-operation, Research and Placement.

The American College and, recognize the strength in education, practical training and research in accordance with their individual mission and objective to foster and identify their areas of mutual interest for college and corporate institute tie-up.

Now therefore Memorandum of Understanding by The American College witnesseth as under:

- Faculty uplift programme in the following realms:
 - Technology updation (once in a quarter)
 - hands on experience on the new trends and how IT industry operates (once in a year)
 - To invite the experts to act as members of Board of Studies in Information Technology.
- b) Enrich students knowledge and soft skill support through the following modus operandi:
 - Regular connects to run soft skill programs with the Rhein Brucke support.
 - The American College to set up the state-of-the art Lab to enable students to acquire technical skills so as to have an easy jump start in the IT world.





- To jointly organize seminars, conferences, or workshops on topics of mutual interest for students so as to invite each other's faculty to participate therein.
- To provide hands-on experience and internship training in IT industry for the students of The American College.
- To provide placement opportunity for the students of The American College.
- To provide project placement for the students of The American College

Duration of the Agreement

This agreement will take effect from the date it is signed by representatives of the two institutions. It will remain valid for a years, and may be continued thereafter after suitable review and agreement.

Arbitration and Termination

In the event of any dispute, difference or disagreement arising out of or in connection with this agreement, the matter will be referred in the first instance and Principal & Secretary of The American College. They will endeavour to resolve the matter in a spirit of interdependence, mutual respect, and shared responsibility.

Either party may terminate the agreement by giving written notice of not less than 180 days notice to expire on the proposed termination date. Agreements for termination must include provision by and The American College for continuing students to complete their studies and the period of notice should take account of any re-assessment requirements that may be outstanding.

Intellectual Property

The American College and agree to respect each other's rights to Intellectual Property. Further, the intellectual property rights that arise as a result of young collaborative research or activity under this agreement will be worked out on a case-by-case basis, and will be consistent with officially laid down IPR policies of the two institutions.

Publicity Materials

The American College will not include the name, visual identity, crest or logo of the other institution in any advertising or publicity material without that institution's prior approval on a case-by-case basis. The format and style of any visual identity and logo, and advertising and publicity material relating to the Agreement and any guidelines for their use, and responsibility



1.000



for funding such material must be agreed jointly by and Principal & Secretary, The American College prior to the appearance in the media.

The legal dispute of this Memorandum of Understanding will be at the jurisdiction of Tamilnadu. Signed at Madurai on the 21st October 2015.

Agreed on behalf of The American Colleger, M. Davamani Christober Principal & Secretary The American College Agreed on behalf of Sysfore Technologies Pvt. Ltd. Upsita yhooh. Madural-625 002 Authorised Signatory 11 + 7 Authorised Signatory Date: Date: 20.2. 2016 Witnesses: Witnesses BURSAR 1. Grom THE AMERICAN COLLEGE 1. MADURAL 2, Nd 2. CHNOLOG Er. N. THIRUPATHIRALLY, M.S.C.M.Pat. PGD 24, M.Tech. BANGALORI Ř Director - Incharga Dept of MCA The American College, Madural 7



This Manorandum of Understanding has been agreed to between The American College (Autonomous), Tallakulam, Madurai – 625 002, hereinafter called First Party and RheinBrucke IT Consulting, Chennai – 600 032 herein after called Second Party for Academic Co-operation, Research and Placement.

HOdry

The American College and RheinBrucko IT Consulting. Chennal – 600 032 recognize the strength in education, practical training and research in accordance with their individual mission and objective to foster and identify their areas of mutual interest for college and Corporate Institute tie-up.

Now therefore Memorandum of Understanding by The American College and RheinBrucke IT Consulting, Chennai witness as under:

- To exchange information on local demand and Commercial opportunity and educational programmes.
- b) To exchange information on teaching and learning materials relevant to their education and research programmes.
- c) To jointly organize short-term training programmes on topics of mutual interest and to invite each other's faculty/ staff to participate therein.
- d) To jointly organize seminars, conferences, or workshops on topics of mutual interest and to invite each other's faculty to participate therein.
- To provide hands-on experience and internship training in Data Science for the students of The American College.
- f) It would be agreed that selected students of the first party to do their internship in RheinBrucke IT Consulting, Chennal, second party venue and Selected students can work as a Data Analyst, Business Analyst, Digital Marketing Anslyst, Data Survey Analyst and Project Analyst for RheinBrucke IT Consulting, Chemnai and at the end of the internship, the student should submit the projects in the format of CD or Hard disc. The resources and the equipment of the first party shall be used for this purpose and the certificates of acknowledgement can be issued to the concerned students.
- g) To provide placement opportunity for the students of The American College.
- h) To invite the experts from RheinBrucke IT Consulting, Chennal for delivering guest lectures and act as members of Board of Studies in Data Science.

Every year the partners will evaluate the number and extent of activities and, where it is considered necessary, agree on any adjustment that should be made in the subsequent year to redress any imbalance.

Student Exchanges

The American Colloge and RheinBrucke IT Consulting, Chennal agree that student's exchanges shall be confided to Diploma, undergraduate, post-graduate and research student exchanges between both the institutions for doing their internship, course-work and other research work as well as training.

joint Conferences, Workshops, and short-term Courses

The American College and RheinBrucke IT Consulting, Chennai agree to identify and invitefaculty members from other institutions to participation will be worked out by mutual agreement courses. The terms and conditions for such participation will be worked out by mutual agreement between the invited faculty member(s) and the institutions extending such an invitation. When a faculty member visits the other institution on invitation or as part of such joint activity, then such a visit will be classified as such, and handled as per the rules of the respective institution.

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Duration of the Agreement

This agreement will take effect from the data it is signed by representatives of the two institutions. It will remain valid for five years, and may be continued thereafter after autable review and agreement.

Arbitration and Termination

In the event of any dispute, difference or disagreement arising out of or in connection with this agreement, the matter will be referred in the first instance to RheinBrucke IT Consulting, Chennal and Principal & Secretary of The American College, They will endeavour to resolve the matter in a spirit of interdependence, mutual respect, and shared responsibility.

Either party may terminate the agreement by giving written notice of not less than 180 days notice to expire on the proposed termination date. Agreements for termination must include provision by RheinBrucke IT Consulting, Chennal and The American College for continuing students to complete their studies and the period of notice should take account of any re-assessment requirements that may be outstanding.

Intellectual Property

The American College and RheinBrucke IT Consulting, Chennai agree to respect each other's rights to Intellectual Property, Purther, the Intellectual property rights that arise as a result of young collaborative research or activity under this agreement will be worked out on a case-by-case basis, and will be consistent with officially laid down IPR policies of the two institutions.

Publicity Materials

RheinBrucke IT Consulting, Chennai and The American Gollege will not include the name, visual identity, crest or logo of the other institution in any advertising or publicity material without that institution's prior approval on a case-by-case basis. The format and style of any visual identity and logo, and advertising and publicity material relating to the Agreement and any guidelines for their use, and responsibility for funding such material must be agreed jointly by RheinBrucke IT Consulting, Chennai and Principal & Secretary, The American College prior to the appearance in the media.

The legal dispute of this Memorandum of Understanding will be at the jurisdiction of Tamilaadu. Signed at <u>Haddunas</u> on the <u>3⁻⁴</u> day of <u>Jaby</u> in the year <u>4040</u>.

Agreed on behalf of The American College, Madural

HOw Authorised Sit

Seal: Dr. M. DAVAMANICHRISTOBER Principu's Secretary The American College Madural-625 002 Date: S^{ref} July, Acco

Witnesses: 1. C.D. BURSAN

THE AMERICAN COLLEGE

[Dr. N. Rune shabran nonver] The American Cellege

Agreed on behalf of RheinBrucke IT Consulting, Chennai - 600 032 0.015 n thorised Seal: Date:

Witnesses 1. 2
Memorandum of Understanding

Between

Ureka Education Group Oxford Science Park, Oxford, OX4 4GP United Kingdom

and

The American College Alagar Kovil Road, Goripalayam, Madurai-625002 Tamil Nadu, India.

This Memorandum of Understanding (MOU) sets for the terms and understanding between the Ureka Education Group (hereby referred as "Ureka") that comprises of Ureka Education Ltd, London and its associate companies in UAE, France and India and The American College, Madurai, Tamil Nadu, India.

Purpose

This MOU aims to develop strategic association and explore long term collaboration opportunities between both parties to

- support development of employability enhancing skills and traits that lead to
 overall success of students, teachers and their institution.
- promote a global mindset through hands-on experiences and exposure to best practices from the best institutions in the world.
- create international engagement and development opportunities for students and faculty through programmes, lectures, seminars, conferences, visits, events, study trips, internships and initiatives like Data Science, Analytics & Cybersecurity club or the Global Business Leaders club for students etc

The above goals will be accomplished by undertaking the following activities. Any financial consideration or expenses relating to any of the activities will be agreed separately agreed between both parties through a written notification.

What can Ureka Education UK provide

- International Programmes for students that include those cited below and others:
 - Setting up a Data Science, Analytics & Cybersecurity Club and / or the Global Business Leaders Club for students, a free of charge initiative of Ureka Foundation
 - IBM, Pearson or University of Oxford Certified Online Training + Virtual Internship in Data Science and Analytics
 - Global Work Experience Programme with optional Certificate from University of Oxford – work on two live international projects in team with students from different countries and travel to UK / France / UAE / Austria for project completion after Covid related travel restrictions are eased.
 - International Management Professional Programme A job-skills programme with Experience Certificate from Ureka UK to prepare those with no or little prior work experience for top MNC jobs post Covid-19.
 - University of Oxford Certified Online Training + Virtual Internship in areas of Marketing, Finance, HR, Product Management, Sports Management and Entrepreneurship
 - Global Immersion Programmes academically rigorous, certified international study trips to California, London, Oxford, Lyon, Dubai, Singapore and Kuala Lumpur
- International Programmes for faculty that include those cited below and others:
 - o Harvard Certified Future of Learning programme
 - University of Pennsylvania Certified Teaching Online Classes programme
- Arrange international faculty, experts, students visit to campus
- Co-organise international conferences, seminars, events etc
- Provide analytics driven Career Guidance by University of California certified professional
- Anything else not mentioned here but agreed between both parties through a written notification from either party

What can The American College provide

- Co-brand and Promote Ureka Education UK's services amongst its students using online and offline media on a regular basis.
- Help establish and promote the Data Science, Analytics & Cybersecurity Club and/or the Global Business Leaders Club.
- Co-organise and host international events, conferences, seminars that may include visits by international executive speakers, experts, faculty and students invited by Ureka to your city.
- Co-organise with Ureka, international and national conferences, seminars, events etc by means of nominating experts / faculty from the institution as speakers, panelists etc
- Jointly with Ureka, apply for research grants like Innovate UK, UKIERI, La French Tech etc
- Anything else not mentioned here but agreed between both parties through a written notification from either party

What does this MOU not provide unless agreed between both parties through a written notification from either party

- Any form of financial commitment in the form of payments, discounts, vouchers etc
- Assignment of any IPRs, patents, etc.

All financial arrangements to be agreed separately agreed between both parties through a written notification.

Lapse of MOU

 This MOU will lapse if there is no activity or engagement between both the parties for a continuous period of 12 months from the start of the agreement date and each anniversary thereon.

Duration

3 years from the date of signing. This MOU is at-will and may be modified by both parties through a written notification from authorised officials from each party. This MOU shall become effective upon signature by the authorised officials and will remain in effect until modified or terminated by any one of the parties through a written notification or the end of term of the MOU is reached.

Authorised Signatories

Ureka Education Group

- Ms Aamna Sultan, Chief Learning Officer Email: <u>as@ureka.co.uk</u> Telephone: +971 4 501 3917
- Dr. M. Davamani Christober, Principal & Secretary, The American College, Alagar Kovil Road, Goripalayam, Madurai-625002. Tamil Nadu, India. Email: <u>principal@americancollege.edu.in</u> Mobile: +91 9894114455 Telephone: +91 452-2530070

Through these contact persons, either party may initiate proposals for activities under this agreement. Specific details will be set forth in a letter of agreement which will form part of this general arrangement following signature by the appropriate authorities of both parties.

A letter of agreement will include such items as:

- Elaboration of the responsibilities of each institution for the agreed upon activity. Scheduled for specific activity
- 2. Financial arrangement agreed between both parties for each activity
- Any other terms deemed necessary for the efficient management of the activity.

Signatures of concerning officials

Date:

Name: Aamna Sultan Organization: Ureka Education Group Designation: Chief Learning Officer



Name: Dr. M. Davamani Christober Organization: The American College Designation: Principal & Secretary

> Dr. M. DAVAMANI CHRISTOBER Principal & Secretary The American College Madurai-625 002





This Memorandum of Understanding has been agreed to between The American College (Autonomous), Tallakulam, Madural – 625 002, hereinafter called First Party and V.A.Palani Kumar, Winways Systems Private Limited, No-34c, Hakim Ajmal Khan Rd, Chinna Chokikulam, Madurai - 625002 herein after called Second Party for Academic Co-operation, Research and Placement.

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The American College and Winways Systems Private Limited, No-34c, Hakim Ajmol Khan Rd, Chinna Chokikulam, Madurai - 625002 recognize the strength in education, practical training and research in accordance with their individual mission and objective to foster and identify their areas of mutual interest for college and Corporate institute tie-up.

Now therefore Memorandum of Understanding by The American College and Winways Systems Private Limited, No-34c, Hakim Ajmol Khan Rd, Chinna Chokikulam, Madurai witness as under:

- To exchange information on local demond and Commercial opportunity and educational programmes.
- b) To exchange information on teaching and learning materials relevant to their education and research programmes.
- c) To jointly organize short-term training programmes on topics of mutual interest and to invite each other's faculty/ staff to participate therein.
- d) To jointly organize seminars, conferences, or workshops on topics of mutual interest and to invite each other's faculty to participate therein.
- To provide hands-on experience and internahip training in Data Science for the students of The American College.
- f) It would be agreed that selected students of the first party to do their intenship in Winways Systems Private Limited, Madural, second party venue and Selected students can work as a Data Analyst, Basiness Analyst, Digital Marketing Analyst, Data Survey Analyst and Project Analyst for Winways Systems Private Limited, Madural and at the end of the internship, the student should submit the projects in the format of CD or Hard disc. The resources and the equipment of the first party shall be used for this purpose and the certificates of acknowledgement can be issued to the concerned students.
- g) To provide placement opportunity for the students of The American College.
- To invite the experts from Winways Systems Private Limited, Madural for delivering guest lectures and act as members of Board of Studies in Data Science.

Every year the partners will evaluate the number and extent of activities and, where it is considered necessary, agree on any adjustment that should be made in the subsequent year to redress any imbalance.

Student Exchanges

The American College and Winways Systems Private Limited, Madural agree that student's exchanges shall be confided to Diploma, undergraduate, post-graduate and research student exchanges between both the institutions for doing their internship, course-work and other research work as well as training.

Joint Conferences, Workshops, and short-term Courses

The American College and Winways Systems Private Limited, Madaral agree to identify and invite faculty members from other institutions to participate in conferences, workshops and shortterm courses. The terms and conditions for such participation will be worked out by mutual agreement between the invited faculty member(s) and the institutions extending such an invitation. When a faculty member visits the other institution on invitation or as part of such joint activity, then such a visit will be classified as such, and handled as per the rules of the respective institution.

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Duration of the Agreement

This agreement will take effect from the date it is signed by representatives of the two institutions. It will remain valid for five years, and muy be continued thereafter after suitable review and agreement.

Arbitration and Termination

In the event of any dispute, difference or disagreement arising out of or in connection with this agreement, the matter will be referred in the first instance to Winways Systems Private Limited, Madurai and Principal & Secretary of The American College. They will endeavour to resolve the matter in a spirit of interdependence, mutual respect, and shared responsibility.

Either party may terminate the agreement by giving written notice of not less than 180 days notice to expire on the proposed termination date. Agreements for termination must include provision by Wieways Systems Private Limited, Madural and The American College for continuing students to complete their studies and the period of notice should take account of any reassessment requirements that may be outstanding.

Intellectual Property

The American Collogs and Winways Systems Private Limited, Madural agree to respect each other's rights to Intellectual Property. Further, the intellectual property rights that arise as a result of young inflaborative research or activity under this agreement will be worked out on a case-bycase basis, and will be consistent with officially laid down IPR policies of the two institutions.

Publicity Materials

Winways Systems Private Limited, No-34c, Hakim Ajmal Khan Rd, Chinna Chokikulam, Madurai and The American College will not include the name, visual identity, crest or logo of the other institution in any advectising or publicity material without that institution's prior approval on a case-by-case basis. The format and style of any visual identity and logo, and advectising and publicity material relating to the Agreement and any gaidelines for their use, and responsibility for funding such material must be agreed jointly by Winways Systems Private Limited, Madurai and Principal & Secretary, The American College prior to the agreements in the media.

The legal dispute of this Memorandum of Understanding will be at the jurisdiction of Tamilnada. Signed at Houdarian on the 11 day of 522 in the year 2010



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This Memorandum of Understanding has been agreed to between The American College (Autopomous). Tailakulam, Madural – 625 002, horeinafter called First Party and K.Senthilnathan, Preinier Systems & Peripherals, 153 L, North Veli Street, Simmakal, Madurai-625 00; berein after called Second Party for Academic Co-operation, Research and Placement. The Amorican College and Premier Systems & Peripherals, 153 L, North Vall Street, Simmakal, Madural- 625 001 recognize the strength in education, practical training and research in accordance with their individual mission and objective to foster and identify their areas of mutual interest for college and Corporate Institute bie-up.

Now therefore Memorandum of Understanding by The American College and Premier Systems & Peripherals, 153 L, North Veli Street, Simmakal, Madural witness as under:

- a) To exchange information on local demand and Commercial opportunity and educational programmes.
- b) To exchange information on teaching and learning materials relevant to their education and research programmes.
- c) To jointly urganize short-term training programmes on topics of mutual interest and to invite each other's faculty/ staff to participate therein.
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- f) It would be agreed that selected students of the first party to do their Internship in Premier Systems & Peripherals, second party venue and Selected students can work as a Data Analyst, Business Analyst, Digital Marketing Analyst, Data Survey Analyst and Project Analyst for Premier Systems & Peripherals and at the end of the internship, the student should submit the projects in the format of CD or Hard disc. The resources and the equipment of the first party shall be used for this purpose and the certificates of atknowledgement can be issued to the concerned students.
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Duration of the Agreement

Arbitration and Termination

Alternation of the

In the event of any dispute, difference or disagreement arising out of or in connection with this agreement, the matter will be referred in the first instance to Premier Systems & Peripherals. Madural and Principal & Secretary of The American College. They will endeavour to resolve the matter in a spirit of interdependence, mutual respect, and shared responsibility.

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Intellectual Property

The American Collage and Premier Systems & Peripherals, Madurai agree to respect each other's rights to intolloctual Property. Further, the intellectual property rights that arise as a result of young collaborative research or activity under this agreement will be worked out on a case-bycase basis, and will be consistent with officially laid down IPR policies of the two institutions.

Publicity Materials

Premier Systems & Peripherals. 153 l., North Veli Street, Simmakal, Madurai and The American Colloge will not include the name, visual identity, crest or logo of the other institution in any advertising or publicity material without that institution's prior approval on a case-by-case basis. The format and atyle of any visual identity and logo, and advertising and publicity material relating to the Agreement and any guidelines for their use, and responsibility for funding such material must be agreed jointly by Premier Systems & Peripherals and Principal & Secretary, The American College prior to the appearance in the media.

The legal	dispute of this	Memorandum	of Us	derstanding will be a	t the Jurisdic	tion of Tamilnadu.
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Agreed on hebalf of The American College,	Agreed on behalf of Premier Systems
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59,000 Membership Subscription 29,500.00 55,000 Misic Expenses 35,388.00 - MomentoExpenses 15,678.00 - Postage Exps., 10,000.00 292,845 Refreshment Expenses 311,290.00 - Remmeration 2,000.00 333,937 Repairs&Maintenance - 1,849,800 Retreat Expenses, Non-Teaching, - - Transport Charges 220.00 4,776,984 Carried Over 12,830,145.49 17,854,947 Carried Over 22,285,936.20	59,000 Membarship Subscription 29,500.00 55,000 Miss.Expenses 35,388.00 - MomentoExpenses 15,678.00 - Postage Exps., 10,000.00 292,845 Refrestment Expenses 311,290.00 - Remmeration 2,000.00 333,937 Repairs&Maintenance - 1,849,800 Retreat Expenses, Non-Teaching, - - Transport Charges 220.00 4,776,984 Carried Over 22,285,936.2			CVC 101220000			
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. MomentoExpenses 15,678.00 . Postage Exps., 10,000.00 .292,845 Refreshment Expenses 311,290.00 . Remuneration 2,000.00 .333,937 Repairs&Maintenance . .849,800 Retreat Expenses 6,560.00 409,730 Retreat Expenses, Non-Teaching . . Transport Charges 220.00	. MomentoExpenses 15,678.00 . Postage Exps., 10,000.00 292,845 Refinestment Expenses 311,290.00 . Remuneration 2,000.00 . Remuneration 2,000.00 . Remuneration 2,000.00 . Retreat Expenses 6,560.00 409,730 Retreat Expenses, Non-Teaching . . Transport Charges 220.00 4,776,984 Carried Over 12,830,145.49 17,854,947 Carried Over 22,285,936.2						
- Postage Exps., 10,000.00 292,845 Refreshment Expenses 311,290.00 - Remuneration 2,000.00 333,937 Repairs&Maintenance 6,560.00 409,730 Retrent Expenses, Non-Teaching - - Transport Charges 220.00 4,776,984 Carried Over 12,830,145,49 17,854,947 Carried Over 22,285,936.20 - UNIVER 7 2,285,936.20	- Postage Exps., 10,000.00 292,843 Refreshment Expenses 311,290.00 . Remuneration 2,000.00 333,937 Repairs&Maintenance 1,849,800 Retreat Expenses 4,09,730 Retreat Expenses, Non-Teaching - Transport Charges 220,00 -						
292,845 Refreshment Expenses 311,290.00 7333,937 Repairs&Maintenance 2,000.00 1,849,800 Retrent Expenses 6,560.00 409,730 Retrent Expenses, Non-Teaching 220.00 - Transport Charges 220.00 4,776,984 Carried Over 12,830,145.49 17,854,947 Carried Over 22,285,936.20	292,845 Refreshment Expenses 311,290.00 7333,937 Repairs&Maintenance 2,000.00 1,849,800 Retrent Expenses 6,560.00 409,730 Retrent Expenses, Non-Teaching 220.00 4.776,984 Carried Over 12,830,145.49 17,854,947 Carried Over 12,285,936.2						
333,937 Repairs&Maintenance 6.560.00 409,730 Retrent Expenses 6.560.00 409,730 Retrent Expenses, Non-Teaching 220.00 4,776,984 Carried Over 22,285,936.20	333,937 Repairs&Maintenance 6,560.00 409,730 Retrent Expenses, Non-Teaching 220.00 4,776,984 Carried Over 12,830,145.49 17,854,947 Carried Over 22,285,936.2	292,845		311,290.00			
1,849,800 Retrent Expenses 6,560.00	1,849,800 Retrent Expenses 6,560.00			2,000.00			
409,730 Retrent Expenses, Non-Teaching Transport Charges 220.00 4,776,984 Carried Over 22,285,936.20 4,776,984 Carried Over 22,285,936.20	409,730 Retreat Expenses, Non-Teaching Transport Charges 220.00 4,776,984 Carried Over 12,830,145,49 17,854,947 Carried Over 22,285,936.2 4,776,984 Carried Over 12,830,145,49 17,854,947 Carried Over 22,285,936.2						
Transport Charges 220.00 4,776,984 Carried Over 12,830,145.49 17,854,947 Carried Over 22,285,936.20 4,776,984 Carried Over 12,830,145.49 17,854,947 Carried Over 22,285,936.20	Transport Charges 220.00 4,776,984 Carried Over 12,830,145.49 17,854,947 Carried Over 22,285,936.2 4,776,984 Carried Over 12,830,145.49 17,854,947 Carried Over 22,285,936.2 9 Partial Partial Partial 100 mini Selvarai 100 mini Selvarai			1000			
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Partiel Dentise University Hereit Mino:200322	Pating Pating Damin Selvara) M No.200322						
Patient 1 Optimit Solvara) M.No.200322	Padadi Padadi (10anini Solvara) M.No.200322	4,776,984	Carried Over	12,830,145.49	17,854,947		22,285,936.20
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	.,		m				
			.*				1 51

March 31, 2018 4,776,984	EXPENDITURE	Year Ended	Year Ended	INCOME	March 31, 2019
	Brought Forward	March 31, 2019 12,830,145.49	March 31, 17,854,947	Brought Forward	
111.140.111	Brought Por ward	120001110110			
198,242	Telephone Expenses	303,187.00			
159,329	Travelling Expenses	254,150.00			
	University Expenses-MKU	200,000.00			
760,802	Advertisment Expenses	1,150,783.00			
301,979	Building Maintenance	2,217,243.00			0.1
129,051	Electrical materials				
60,000	Fountain & Planting Exp	20,000,00			
35,000	Meeting Expenses	28,500,00			
43,850	Electrical Equipment Maintenance				
146,660	Garden Maintenance				
27,080	Souvenir Expenses	15,000.00			
101,200	Inspection Expenses - New Courses	13,000.00			
6,718	Xerox Expenses - Audit Report	2			
450	Short Credit in Bank Entry	18 8			
3,000	Food Science Conference-Emerging trends in				
1 440 000	Multydisplinery research	2:65			
1,660,000	International Conference Exps.,	479,045.00			
8	International Contractive surplu-	Contractor			
1,814,141	To depreciation	1,615,926.66			
7,630,461	To Excess of income over Expenditure	3,191,956.05			
17,854,947	TOTAL	22,285,936.20	17,854,947	TOTAL	22,285,936.20
DATE : 27.09.2	19	C.P 8424		CHA CUOWDHRY & CHA Partner Partner I Daniel Selvarzi	WDHRY & ASSOCIATES RTERED ACCOUNTANTS imm Registration No.001997S)))))))))))))))))))
	Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College Moderni - 625 002	Dr. C. DOROTHY S BURSAR The American Col Madami - 625 00	lefte	CAMPART ACCOUNT	Partner Membership No.200323

larch 31,-2018	EXPENSION	Name of Column 2 and	in a start		
	TO DEPARTMENTWISE EXPENSES			Come Fairly Chiller	- and a set
27,800	Attaces Comment in the first		46,091,063	Salary Recovered	A DESCRIPTION OF
100000	Confistence-Emerging Trends in Multidisciplinary		1.000		38,918.00 738,987,30
625,416	Research B.Com. (S.F.)		60,071 281,792	Bank Interest FD Interest	671,898.80
35,400	Commerce Dept.	5 I	20,000	Retreat Recovery -	256,350.00
	M5W Dept., MSW Dept.,		100	Contribution for Global Service -Sales X-Max Dinner Contribution	22,000.00
17,100	At Duil Turnil	1010 112 00	30,700	Mise income	27,372.00
169,950	Remuteration (Teaching & Non Teaching)	104,233.00 40,818,918.00		Salary Recovered-LLP	115,997.00
35,810,301	Salary A/c AJCTE Exps.,	75,023.60			1
4,591	Bank Charges	2,972.68 6,214,896.00			1 1
891,576		601,537.00			
656,370	ESI - Penalty PF - Penalty	1,012,308.00			
1100	MiseEsps.	100,422.80			1
188,220 3,489,133		maria			
1,173,70	Security Exps. (Outsourced)	1,001,714.00 85,321.00			
97,44) Building Maintainance				
7,83	Remains and Maintainance	24,300.00			
745,30	6 Cleaning Charges - Tollet(Outsouced)	924,682.00			
60,00	 Stadents Intenship training Retrest recovery 	105,918.00			
191,00	0 Staff welfare expenses	195,000.00			1
91		2,850.00	50		
	Travel expenses	93,965.00			
	All and a state of the second s	1,583,271.00			
610,60 1,643,90		10,765,990.08			
1,0000					
2000.00-00	10.000 L 2	63,713,322,16	20.000 000	TOTAL	63,713,322.16
46,483,72		03,113,344,10	45,483,726	Asperour	Report of Even Date
46,483,73 PLACE : M. DATE : 27.	ADURAI	C. P. V.	H " HY SHEELA SAR an College	As per our For MANOHAR CHOWDHR CHARTERE Partner Daniel Selvarai	Report of Even Date
PLACE : M	ADURAI 69.2019 H. D. A. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	e e y e Dr. C. DOROT BURI The Americ	H " HY SHEELA SAR an College	As per our For MANOHAR CHOWDHR UDWDNAT & CHARTERE UDWDNAT & Rim Regi Daniel Serversi M. No 20022	Report of Even Date Y & ASSOCIATES D ACCOUNTANTS stration No.0019973
PLACE : M	ADURAI 69.2019 H. D. A. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	e e y e Dr. C. DOROT BURI The Americ	H " HY SHEELA SAR an College	As per our For MANOHAR CHOWDHR UDWDNAT & CHARTERE UDWDNAT & Rim Regi Daniel Serversi M. No 20022	Report of Even Date Y & ASSOCIATES D ACCOUNTANTS stration No.0019973
PLACE : M	ADURAI 69.2019 H. D. A. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	e e y e Dr. C. DOROT BURI The Americ	H " HY SHEELA SAR an College	As per our For MANOHAR CHOWDHR UDWDNAT & CHARTERE UDWDNAT & Rim Regi Daniel Serversi M. No 20022	Report of Even Date Y & ASSOCIATES D ACCOUNTANTS stration No.0019973
PLACE : M	ADURAI 69.2019 H. D. A. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	e e y e Dr. C. DOROT BURI The Americ	H " HY SHEELA SAR an College	As per our For MANOHAR CHOWDHR UDWDNAT & CHARTERE UDWDNAT & Rim Regi Daniel Serversi M. No 20022	Report of Even Date Y & ASSOCIATES D ACCOUNTANTS stration No.0019973

March 31, 201	EXPENDITURE	Year ended March	Year ended Marri	Distance	Trac under Sta
	To Educational Expenses	31, 2019	31, 2018	INCOME	31, 2019
5,388,182	Solary	5,982,448.25	278,250	To Educational Income Bus Fors	
677,567 47,692		190,758.00	19,624,488	Course fees collected by challans	1,598,0003
	EPF Expenses	344,250.00	226,860	Course fees	285,828.0
	Student Subscribtion Fee (AIACHE)	639.00	-	Application fees	292,000,0
100	Affliation Fee -University	39,500.00		Staff Retreat Adv Deducation	3,441,806,0
63,520 370,000	Pentival Expenses	114,405.00	400	Exam Pine Amount	
510,631	Advertisement Expenses EB Charges	251,213.00	25	and the particular	
125,067	Traveling	688,515.00	•	Other Income	2,500.0
\$3,628	Orientation Exp	41,290.00 57,900.00		Tancet Admission Fee CBE16-17	
[→] 67,930	Printing & Stationary Exp	84,177.00	95,900	Scrap Sales	3,358.00
182,000 229,100	Prize & Giff Expreses	22,650.00	6,000	Sale of Application Forms Hall Booking	5 000 M
459,493	Remaineration Security Service Charges	198,356.00			5,000.00
	Faculty Enrichment Programme	494,900.00	67,000	Tanost Admission Fees CBE 16-17	
	Acedemic Council Expense	9,810.00	28.402	10.00	
10,560	AICTE Expense	75,023,60	38,603 8,000	Bank Interest	\$8,754.00
3,911	Application Fee Refind	30,073,00	21,283	Bus Rental Income FD Interest - Indian Bank	12,150.00
3,911	Bank Chatges Bus Fees Refund	8,173.15		FD Interest	482,713.00
	Ford Expenses -Bus	25,009,00	64,900	Conference Deduction	49,500.00
183,160	Inturnoe-Bus	123,201,00	420	Exam External	
223,443	Telephone & Internet Exp				
1,950	Tamilandu Lahour & Transport	9,918.00			
45,949	Property Tax Repair & Maintenance	44,700.00			
5,040	Award Committee Expenses	146,655.00			
and the second	Cable Trench & Transformer	53,			
3,139,188	Connection and electrical materials	489,690.00	-		
4,000 4,000	Contingency expense	7,000.00			
8,000	Dept Contingency Expense Exam Contingency Expense	2,000.00			
191,401	Telephone Expense	6,000.00 385,206.00			
17,140	Batta - Driver	\$7,718.00			
270,000	Caution Deposit Refind - MBA	11100000			
7,950	Chair Maintenance Chalk & Notice Board	\$5,525.00			10
6,000	Chiristmas Gift - Staff		-		
5,004	College Maintenance	21,000.00 41,880.00			
19,350	Computer Comunables	\$1,345.00			
22,460 400	Computer Maintenance				
4,971	Conveyance Exam Refreshment Expenses	648.00			
2,400	Field mp bus exp	12,178.00			
8,500	Field trip bus RTO exp	2 H			
1,200	Fish Aquarium	Sec. Sec.			
1,190,000 23,000	Fuel Expenses - Petro Card	1,586,199.00			- 1
	Honey bee -Box Expense Bus F C Expenses	110 110 10			
9,000	Field Trip Expenses	119,335.00			
270,583	Hostel Repairs & Maintenance	-			
155,478	Hostel - Telfer Mook Name Board				
	Innaugral - Main Gete Main - Safety Certificate	÷			
1	Newspaper & Periodicals	8.114.00			
and the second sec	Printer Maintenance	45,252.00			
	Prinring & Xerox	13,263.00			
	roperty tax	70,860.00			
	lepairs & Mainténance Repairs & Mainténance -Main Building	163,210.00			
	lepuirs & Maintenance -Main	161,736.00 29,400.00			
4,785,160	CARRIED OVER	12,525,663.00	20,598,890	CARRIED OVER 20	0,184,627.00

Year ended	103000000000000000000000000000000000000	Year ended March	Year ended March	Contraction of the second second	
March 31, 201	8 EXPENDITURE	31, 2019	31, 2018	INCOME	31,2019
14,785,160		12,525,663.00	20,598,890	BROUGHT FORWARD	20,184,627
2,455		3,560,00			-
1,350		1			
25,613			1 1		
139,92	Paper & Printing		1 1		-
320,12		230,801.00			
9,250			1 1		1
7,500		71,000.00			
1000	Computer & Accessories	31,189.00			1.
	Furniture Maintenance	7,800,00			
146,652		471,661.00			
266,318	College Name Board Building Maintenance	2,500.00			
	Other Expenditure	\$78,917.00 6,635.00			
582,042					1
	Borowell Maintenance	42,052.00			
24,473		24,248,00			
	Miscellaneous exp Incidental Charges	23,500.00			
1,200	Forwarding Charge	\$7,000,00	1		
23,950	Garden Maintenance	7,861.00			1
100	Insurance Maruthi Omni TN59AD 941.	7,484.00			
22,000	LTCT Cable Laying Exp	247,000.00			
49,450	Remuteration - Extra work Electrical Maintenance	8,000.00			
200	Travell Allowance	55,250.00			
	Play Ground Sports & Material	23,908.00			10
903	Printing A/c	27,794.00			
-1	Projector Service	9,440.00			
38	Society Registration-Renewal Sports Material Purchase	21,309.09) N		1
	Staff Welfrre	7,616.00			
3,096,250	To Depreciation	3,880,564,17	 . 		
	and the second sec	2002204111			
NOTIFICATION OF	To Excess of Income over	Noncalatorna			
1010 330	Expenditure	1,793,883.83			· · · · · ·
1,013,346	a second s				-
20,598,890	Total	20,184,627.00	20,598,890	Total	20,184,627.0
20,598,890 PLACE : MAD	URAL	20,184,627.00		As per our	report of even da
20,598,890	URAI 19		for	As per our MANOHAR CHOWDHRY OWDHRY CHARTERET	A ASSOCIATI
20,598,890 PLACE : MAD	URAL		for	As per our MANOHAR CHOWDHRY OWDHRY CHARTERET	a ASSOCIATI
20,598,890 PLACE : MAD Date : 27,09,20	urai 19 H.@.Ly	e.p.tha	for	As per our MANOHAR CHOWDHRY OWDHRY CHARTERET	A ASSOCIATI
20,598,890 PLACE : MAD Date : 27,09,20	URAL 19 I-(ELu	E-P+K-	for	As per our MANOHAR CHOWDHRY OWDHRY CHARTERET	r report of even da & ASSOCIATI D ACCOUNTANT stration No.001997
20,598,890 PLACE : MAD Date : 27,09,20	URAI 19 1- D. Lu Dr. M. DAVAMANI CHRISTOBER PEINCIPAL & SECRETARY	E-P-TLA Dr. C. DORC BUR	for At	As per our MANOHAR CHOWDHRY LOWDHRY CHARTERE UNDHRY CHARTERE From Regis	report of even de & ASSOCIATI D ACCOUNTANT stration No.001997 ANTEL SELVAR.
20,598,890 PLACE : MAD Date : 27,09,20	URAL 19 I-(ELu	E.P. KA Dr. C. DORC BUR The Amer	for At SAR con College	As per our MANOHAR CHOWDHRY HOWDHRY CHARTERE HOWDHRY CHARTERE From Regis	report of even da & ASSOCIATE D ACCOUNTANT dration No.001997 ANIEL SELVAR. PARTNI
20,598,890 PLACE : MAD Date : 27,09,20	URAL 19 Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	E.P. KA Dr. C. DORC BUR The Amer	for At	As per our MANOHAR CHOWDHRY HOWDHRY CHARTERE UNDHRY CHARTERE From Regis Postner Daniel Seivars M, No. 200322	report of even da & ASSOCIATE D ACCOUNTANT dration No.001997 ANIEL SELVAR. PARTNI
20,598,890 PLACE : MAD Date : 27,09,20	URAL 19 Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	E.P. KA Dr. C. DORC BUR The Amer	for At SAR con College	As per our MANOHAR CHOWDHRY HOWDHRY CHARTERE HOWDHRY CHARTERE From Regis	20,184,627.0 report of even da A ASSOCIATE D ACCOUNTANT stration No.001997 ANIEL SELVAR. PARTNE MIEL SELVAR.
20,598,890 PLACE : MAD Date 1 27,09,20	URAL 19 Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	E.P. KA Dr. C. DORC BUR The Amer	for At SAR con College	As per our MANOHAR CHOWDHRY HOWDHRY CHARTERE UNDHRY CHARTERE From Regis Postner Daniel Seivars M, No. 200322	report of even da & ASSOCIATE D ACCOUNTANT dration No.001997 ANIEL SELVAR. PARTNI
20,598,890 PLACE : MAD Date 127,09,20	URAL 19 Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	E.P. KA Dr. C. DORC BUR The Amer	for At SAR con College	As per our MANOHAR CHOWDHRY HOWDHRY CHARTERE UNDHRY CHARTERE From Regis Postner Daniel Seivars M, No. 200322	report of even da & ASSOCIATT D ACCOUNTANT dration No.001997 ANIEL SELVAR PARTNI
20,598,890 PLACE : MAD Date 127,09,20	URAL 19 Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	E.P. KA Dr. C. DORC BUR The Amer	for At SAR con College	As per our MANOHAR CHOWDHRY HOWDHRY CHARTERE UNDHRY CHARTERE From Regis Postner Daniel Seivars M, No. 200322	report of even da & ASSOCIATE D ACCOUNTANT dration No.001997 ANIEL SELVAR. PARTNI
20,598,890 PLACE : MAD Date : 27,09,20	URAL 19 Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	E.P. KA Dr. C. DORC BUR The Amer	for At SAR con College	As per our MANOHAR CHOWDHRY HOWDHRY CHARTERE UNDHRY CHARTERE From Regis Postner Daniel Seivars M, No. 200322	report of even da & ASSOCIATT D ACCOUNTANT dration No.001997 ANIEL SELVAR PARTNI
20,598,890 PLACE : MAD Date : 27,09,20	URAL 19 Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	E.P. KA Dr. C. DORC BUR The Amer	for At SAR con College	As per our MANOHAR CHOWDHRY HOWDHRY CHARTERE UNDHRY CHARTERE From Regis Postner Daniel Seivars M, No. 200322	report of even da & ASSOCIATE D ACCOUNTANT dration No.001997 ANIEL SELVAR. PARTNI
20,598,890 PLACE : MAD Date : 27,09,20	URAL 19 Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	E.P. KA Dr. C. DORC BUR The Amer	for At SAR con College	As per our MANOHAR CHOWDHRY HOWDHRY CHARTERE UNDHRY CHARTERE From Regis Postner Daniel Seivars M, No. 200322	report of even da & ASSOCIATE D ACCOUNTANT dration No.001997 ANIEL SELVAR. PARTNI
20,598,890 PLACE : MAD Date : 27,09,20	URAL 19 Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	E.P. KA Dr. C. DORC BUR The Amer	for At SAR con College	As per our MANOHAR CHOWDHRY HOWDHRY CHARTERE UNDHRY CHARTERE From Regis Postner Daniel Seivars M, No. 200322	report of even da & ASSOCIATT D ACCOUNTANT dration No.001997 ANIEL SELVAR PARTNI
20,598,890 PLACE : MAD Date : 27,09,20	URAL 19 Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	E.P. KA Dr. C. DORC BUR The Amer	for At SAR con College	As per our MANOHAR CHOWDHRY HOWDHRY CHARTERE UNDHRY CHARTERE From Regis Postner Daniel Seivars M, NO 200322	report of even da & ASSOCIATT D ACCOUNTANT dration No.001997 ANIEL SELVAR PARTNI
20,598,890 PLACE : MAD Date : 27,09,20	URAL 19 Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	E.P. KA Dr. C. DORC BUR The Amer	for At SAR con College	As per our MANOHAR CHOWDHRY HOWDHRY CHARTERE UNDHRY CHARTERE From Regis Postner Daniel Seivars M, NO 200322	report of even du & ASSOCIATI D ACCOUNTANT dration No.00199 ANIEL SELVAR PARTM
20,598,890 PLACE : MAD Date : 27,09,20	URAL 19 Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	E.P. KA Dr. C. DORC BUR The Amer	for At SAR con College	As per our MANOHAR CHOWDHRY HOWDHRY CHARTERE UNDHRY CHARTERE From Regis Postner Daniel Seivars M, NO 200322	report of even da & ASSOCIATE D ACCOUNTANT dration No.001997 ANIEL SELVAR. PARTNI
20,598,890 PLACE : MAD Date : 27,09,20	URAL 19 Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	E.P. KA Dr. C. DORC BUR The Amer	for At SAR con College	As per our MANOHAR CHOWDHRY HOWDHRY CHARTERE UNDHRY CHARTERE From Regis Postner Daniel Seivars M, NO 200322	report of even du & ASSOCIATI D ACCOUNTANT dration No.00199 ANIEL SELVAR PARTM
20,598,890 PLACE : MAD Date : 27,09,20	URAL 19 Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	E.P. KA Dr. C. DORC BUR The Amer	for At SAR con College	As per our MANOHAR CHOWDHRY HOWDHRY CHARTERE UNDHRY CHARTERE From Regis Postner Daniel Seivars M, NO 200322	report of even da & ASSOCIATE D ACCOUNTANT dration No.001997 ANIEL SELVAR. PARTNI
20,598,890 PLACE : MAD Date : 27,09,20	URAL 19 Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	E.P. KA Dr. C. DORC BUR The Amer	for At SAR con College	As per our MANOHAR CHOWDHRY HOWDHRY CHARTERE UNDHRY CHARTERE From Regis Postner Daniel Seivars M, NO 200322	report of even da & ASSOCIATT D ACCOUNTANT dration No.001997 ANIEL SELVAR PARTNI
20,598,890 PLACE : MAD Date : 27,09,20	URAL 19 Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	E.P. KA Dr. C. DORC BUR The Amer	for At SAR con College	As per our MANOHAR CHOWDHRY HOWDHRY CHARTERE UNDHRY CHARTERE From Regis Postner Daniel Seivars M, NO 200322	report of even da & ASSOCIATT D ACCOUNTANT dration No.001997 ANIEL SELVAR PARTNI
20,598,890 PLACE : MAD Date : 27,09,20	URAL 19 Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	E.P. KA Dr. C. DORC BUR The Amer	for At SAR con College	As per our MANOHAR CHOWDHRY HOWDHRY CHARTERE UNDHRY CHARTERE From Regis Postner Daniel Seivars M, NO 200322	report of even da & ASSOCIATT D ACCOUNTANT dration No.001997 ANIEL SELVAR PARTNI
20,598,890 "LACE : MAD hate : 27,09,20	URAL 19 Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	E.P. KA Dr. C. DORC BUR The Amer	for At SAR con College	As per our MANOHAR CHOWDHRY HOWDHRY CHARTERE UNDHRY CHARTERE From Regis Postner Daniel Seivars M, NO 200322	report of even da & ASSOCIATE D ACCOUNTANT dration No.001997 ANIEL SELVAR. PARTNI

Year ende March 31 2018	1d	Expenditure Account Year raded March 31, 2019	Year ended March 31,	INCOME	Year ended March
			2018		31, 2019
	To Educational Expenses			Do Fdoord and	
3,203,7		6,852,661.00	12,715,956	By Educational Income Fors collection	10040-00048-000
2,0		1	141110.000	Place counchion	16,130,197.00
2,161,50		15,493,180.00		By Other Income	-
129,00		Committee of	22,555	Bank Interest	-
293,15 735,29		605,433.00	1.	FD Interest	108,265.00
50,64		CONCERNING.	2	Faculty Devlepment Programme	548,821,00
nates	0 Water Charges	\$2,260.00	2,920	Sale of old news paper	4,847.00
	To Indirect Expenses	1		The second streams like the	
402,18	7 Advi., Exps.,		251	" Excess of Expenditure over income	11,820,209.80
5,01		3,086.00			0.000003398
202,52		2/060.00	1		
20,50		1 0 1			1 1
235,690					
24,620		2			
61,975		66,954.00			
700.000	Electrical Cable work	152,000.00			1
369,592		181,234.00			1 1
1,500 78,172		+	1		
37,896	Furniture Materials	57,280.00			
319,464		14,954.00			1
17,418		599,681.00			
106,733	ID Cand Holder with Rope	361,620.00			
19,425	Printing and stationary	10110100			
1,441	Refreshment exp	3,086.80	1		
225,873	Repairs&Maintenetce	56,604.00			
14,500	Telephone Exp	1000000	1		
S	Lab consumables Food Science	239,300.00			
- 12 I	Meeting Expenses Mist.Expe	10,000,00			6 1
10 I	Tonor Refiling charges	19,300.00			
	Donation to MR. School	2,250.00			1. I.
1,100	Travel Exps.,	500,000.00			
	Course and and the second s	15,510.00			
00000-00	To Physical Education				
158,872	A Zone inter Zone Tournament	142,835.00			
126,470	Hockey Tournament Exp	143,077.00		15	
99,370	Inter Collegiate Tournament	55,457.00			
62,950	Outstation Tournaments(DA & TA)	41,700.00			
10,000	Food ball tournaments Hand ball tournaments	+1			+
107,808	Uniform Exp	13,300.00			
101,985	Volley ball Tournament	100 014 04			
28,200	Atheletic MKU interzone	120,838.00			
114,038	Sports Day exp	152,202.00			
422,708	Sports materials	392,943.00			
30,320	Printing & Stationery	274,743.00			
7,800	Printer & Service	221			
385,850	Repairs & Maintenance	17,750.00			
2001.004	#04/03/03/0	ALCONTRACTOR A			
2,091,854	To depreciation	2,228,694.00			
271,420	Excess of Income Over Expenditure				
2,741,431	TOTAL	28,712,339.80	12,741,431	TOTAL	28.712.22
CE : MADU	RAI				28,712,339.80
E 27.09.20	19			for MANOHAR CHOWDERY	report of even data
4.02					ACCOUNTANTS
M	duy	Mult.		Eiter Deniste	ration No.0019975
		O.P. Hult .		A ANDMARY S	
.M. DAVAM	ANI CHRISTOBER Dr.	DOROTHY SHEELA	39	3 161	
	A SECRETARY	BURSAR	//	2/ Parine)2	TEL OPT STORE
The Am	witan College T	te American College	1	≦{ Daniel Selveraj]≦ LDAN	IEL SELVARAJ
Mach		Maclural + 625-002	11		Partier ership No.200322
				190 18	- sub northants
				EPED ACCOUNT	

Year ended	RECEIPTS	Anani	Your ended March 31, 2809	Year ested March 31, 2018	PAYMENTS	A second 11 3	Tares 35, 2712
neth 31, 2018			March 21, 2012		y Educational Expenses	6,852,661.00	
man and a	To Opening Balance HDPC Als No.50100113790713	45,964.92	78,456.03	3,203,203	Building Maintenance Bio-Chemistry Dept	15,453,580.00	
11,003	Indian Bask A/c No.6723923788	- 124,461.00		2,161,500 129,000	Building commution Cash Award to sports students	605,433.00	
12,713,856	To Educational Income Faci collection	16,138,197.66	16,130,197.00	293,190 735,294	Printing and stationary Electric materials	51,260.05	23,065,554.00
	To Other Jacanti	108,205,00		50,640	Miller Omline		0
23,555	Barik Istoreti FD Istoreti	845,821.00 4,547.00	1 m 1	432,187	By Individ Expenses Adve., Exp.,	3,086.00	
1,923	Failulty Devlopment Programme Sale of old news paper	-	761,933.00	5,019 202,972	Bank Charges Calassier2017-2018	-	
	To Seleveral transfere			20,500	College day exp college Magazinie		
400,000 2,901,497	SatelBin	4,000,000.00		14,620 61,975	Eleor mai devil mai E.B.Exps.,	66,954.00	
3,200,000		4,100,000.00		369,972	Elacrical Materials Electrical Cable work	152,000.00	
1	Shops & Office Great is aid	255,000.00		1,500	Fearing development programme Forniture Maintenance	57,280.00 14,954.00	
1,200,000	SF VIII	\$00,000.00 6,600,000.00	19,000,000.00	37,895 319,464	Purnitare Materials Garden Maleterstoca	929,681.00	
2,100,000 66,608		1,300,000,00	Calminum.	17,418	Souvenit D Card Holder with Rope	361,670.00	
	To Loose and Advances	SUSS		19,428	Printing and stationary Referiturent 600	3,086.80	
2,012,47	8 Loan & Advances	162,458.00		223,873 14,500	Repaired: Maleisanoce Telephone Exp	279,305.00	
51,23 917,52	3 Bills Receivable	495,000.0	15,129,748.00		Lab consumables Food Science Meeting Experient	10,000.00	
644,59	To Fixed deposit	1		1 3	Muc Liris. Tour Refling sharpes	2,250.00	4
	Fd renewal		5,000,900.00	1,100	Dention to MR, School Travel Exps.,	15,510,00	2,282,908.80
				1	By Physical Education	142,835.00	
				158,872 128,470	Bodory Tournament Exp	143,077.00 55,457.00	
				99,37 62,37	Outstation Tournerent(DA # 1A		
				10,80	Itatal ball tournaments	13,300.0	
0			1.1	(07,80 t01,98	e Volley hall Tournavant	120,838.0	0
				28,20 [14,03	Sports Day stip	152,202.0 392,943.0	a l
				422,70	D Printing & Stationery	1	
1.0				7,9 185,8	Repairs & Maintenauce	17,750,0	0_1,197,202.00
				2,042,9	By Losses and Advances	14,710,790,0	20
				644,0 50,4	64 Sandry Creditors 11 TDS meditance	107,205/	00
				912.5	TDS receivable	34,000	15,203,940.00
					By Jater Unit Transfer Stand Ale	1,500,003	00
					Manigerent II Ale	\$00,000 300,000	00
				1 3	SF Spi Fees A/e No.XVII Sgodže	1,505,000 500,000	.00
					, 5# VIII	100,000	(0) +(m),
				6,399	By Capital Expense Farnhure and Fatings (Chain a	nd 2,150,000	
				04334	311 New Infrastrumure Cristian Computer & Accesseries	478,75 136,50	0,00
					750 CCTV carners	572,50 315,90	0.00 3,612,764.00
	1				715 Electical antipotet To Investments	5,613,80	8.00 3,613,866.00
		1.5	-	5,00	1,000 FD -Indian bank - researd By Charles Balance	350-54	
					5.563 HDFC A/6 No.501001137307 (461 Ledion Bank A/a No.63399257	12	P) 00 410,596 1 55 943,341,9
	TOTAL		55,542,3		TOTAL	As 91	r our report of even dat
PLACES	MADURAL	. A		Sc			ULED ACCOUNTANT Registration No.001997
DATE :	: 17,89.2019		0.016	· - 14	A GONDI	- the	P
	Filen		De. C. DOROT	ITY SILEELA	(Internet M. No	Inthe PET	LDANIEL SELVAIU
	De. M. DAVAMANI CERIS PRINCIPAL & SECRETA	40.1	BURS The Areador	in College	La Danis	Selvaral E	Marabenabia No. 2003
	The American College Midural - 635 022		Midural -	635.003	181	15th	
					annu annu	4000	

INCOME AND EXPENDITURE EXPENDITURE EDUCATIONAL EXPENSES Affiliation Fee - Miss Conference Exps., Fees Refand (UTACT - Membership Fee Physical Education - Expenses Printing & Stationery R, O PlantExpenses Salary Vechicke Maintenance Audit Feer Bank Charges Books & Journals Cleaning Materials Computer Accesseries-Expenses	FOR THE	PREVIOUS YEAR ENDED 31-03-2019 2,01,67,814 17,58,200 1,54,128 1,49,794 56,000	INCOME BY COURSE FEE RECEIVED Course Fees By challan Sale of Application BY OTHER INCOME Bank interest Interest on FD Tennis ground Fee International Conf. + Hindi Dept Regn. Fee	FOR THE YEAR ENDED 31-03-2020 2,20,17,479.00 15,389.00 1,38,896.00 28,900.00
Affiliation Fee - Mins Conference Exps., Fees Refand (CTACT - Membership Fee Physical Education - Expresses Printing & Stationery R, O.PlantExpenses Salary Vechicle Maintenance Audit Fees Bank Charges Books & Journals Cleaning Materials	2,72,428.00 29,500.00 2,60,095.00 2,19,43,439.00 1,69,315.00	17,58,200 1,54,128 1,49,794	Course Fees By challan Sale of Application BY OTHER INCOME Bank interest Interest on FD Tennis ground Fee International Conf. + Hindi Dept	15,389.00 1,38,896.00
Affiliation Fee - Mins Conference Exps., Fees Refand (CTACT - Membership Fee Physical Education - Expresses Printing & Stationery R, O.PlantExpenses Salary Vechicle Maintenance Audit Fees Bank Charges Books & Journals Cleaning Materials	2,72,428.00 29,500.00 2,60,095.00 2,19,43,439.00 1,69,315.00	17,58,200 1,54,128 1,49,794	Sale of Application BY OTHER INCOME Bank interest Interest on FD Tennis ground Fee International Conf. + Hindi Dept	15,389.00 1,38,896.00
Conference Exps., Fees Refand ICTACT - Membership Fee Physical Education -Expresses Printing & Stationery R, O PlanExpenses Salary Vechicle Maintenance Andit Fees Bank Charges Books & Journals Cleaning Materials	29,500,00 2,60,095,00 2,19,43,439,00 1,69,315,00	1,54,128 1,49,794	BY OTHER INCOME Bank interest Interest on FD Tennis ground Fee International Conf. + Hindi Dept	1,38,896.00
ICTACT - Membership Fee Physical Education - Expresses Printing & Stationery R,O.PlantExpenses Salary Vechicle Maintenance Andit Fees Bank Charges Books & Journals Cleaning Materials	29,500,00 2,60,095,00 2,19,43,439,00 1,69,315,00	1,49,794	Bank interest Interest on FD Tennis ground Fee International Conf Hindi Dept	1,38,896.0
Physical Education - Expresses Printing & Stationery R,O.PlantExpenses Salary Vechicle Maintenance Andit Feex Bank Charges Books & Journals Cleaning Materials	2,60,095.00 2,19,43,439.00 1,69,315.00	1,49,794	Bank interest Interest on FD Tennis ground Fee International Conf Hindi Dept	1,38,896.0
Printing & Stationery R.O.PlantExpenses Salary Vechicle Maintenance Audit Fees Bank Charges Books & Journals Cleaning Materials	2,19,43,439.00 1,69,315.00		Tennis ground Fee International Conf. + Hindi Dept	2.800
R,O.PlantExpenses Salary Vechicle Maintenance Audit Feen Bank Charges Books & Journals Cleaning Materials	1,69,315.00	56,000	International Conf. + Hindi Dept	28,900.0
Salary Vechicle Maintenance Audit Fees Bank Charges Books & Journals Cleaning Materials	1,69,315.00	- 07		
Audit Fees Bank Charges Books & Journals Cleaning Materials		=_07	DOM THE	54,000.0
Bank Charges Books & Journals Cleaning Materials	1,184.46			03
Books & Journals Cleaning Materials	A 104 900 -		Data Nandor State Contraction	
Cleaning Materials			By Excess of Expenditure	79,41,124.4
Committee Apparentier, Expenses	D monthly		over income	19,41,124,4
	10,000.00			
DTH Maintenance	19,613.00			
Driver Batta Entrance Fee & Recog. Fee -2019-20	8,12,445.00			
Furniture Maintenance- General	0.000000000000000000000000000000000000	1 2 6		
Gifts	and the			
LegalExpenses				
		1		
MomentoExpenses		1.45	5.5.1	
Postage Exps.,				
Refreshment Expenses			1. S. S.	
SAN MERCE HE POINT AND				
	1,85,564.00		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Retreat Expenses, Non-Teaching	11/200805-100M	100		
Transport Charges	- Supervisition	1.5	5	
Electrical Work Exps				
Telephone Expenses			1	
University Expenses-MKU	1,50,000.00		100 Mark	
19 19 19 19 19 19 19 19 19 19 19 19 19 1	2,59,66,136.46	2,22,85,936	Carried Over	3,01,95,788
	Giffs Insurance - TN59 BD 1881 LegalExpenses Membership Subscription Misc.Expenses MomentoExpenses Postage Expes, Refreshment Expenses Remuneration Repairs&Maintenance Retreat Expenses Retreat Expenses, Non-Teaching Transport Charges Electrical Work Exps	Giffs 1 Insurance - TN59 HD 1881 20,342,00 LegalExpenses 55,000,00 Membership Subscription 34,838,00 Mise Expenses - MomentoExpenses - MomentoExpenses - Postage Exps., - RefrestIment Expenses 2,29,701,00 Remuneration 2,11,000,00 Retreat Expenses 1,85,564,00 Retreat Expenses, Non-Teaching - Transport Charges 10,33,500,00 Electrical Work Exps 60,272,00 Telephone Expenses 28,200,00	Giffs - Insurance - TN59 HD 1881 20,342,00 LegalExpenses 55,000.00 Membership Subscription 34,838.00 Mise.Expenses - MomentoExpenses - MomentoExpenses - MomentoExpenses - Refreshment Expenses 2,29,701.00 Remuneration 2,11,000.00 Retreat Expenses, Non-Teaching - Transport Charges 10,33,500.00 Electrical Work Expenses 60,272.00 Travelling Expenses 28,200.00 University Expenses-MKU 1,50,000.00	Giffs 20,342,00 Insurance - TN59 HD 1881 20,342,00 LegalExpenses 55,000,00 Membership Subscription 34,838,00 Mise.Expenses - MomentoExpenses - Postage Exps., - Refueshment Expenses 2,29,701,00 Remuneration 2,11,000,00 Retreat Expenses, Non-Teaching - Transport Charges 10,33,500,00 Telephone Expenses, 60,272,00 - Travelling Expenses 28,200,00 University Expenses-MKU 1,50,000.00



Josephiloz Disegni Perward 2,59,66,136,46 2,22,85,936 Brought Forward 3,01,95,788.4 11,50,733 Advertisment Expenses 11,49,031.00 8,48,668.00 6,823.00 6,823.00 22,17,243 Building Maintenance 8,48,668.00 6,823.00 6,823.00 15,000 Meeting Expenses 6,823.00 6,823.00 15,000 Inspection Expenses 53,100.00 10,000.00 Medical Coding course fee 908.00 20,81,119.96 4,79,045 International Conference Exps., 1 16,15.927 To depreciation 20,81,119.96 31,91,956 To Excess of income over Expenditure 1 2,222,85,936 TOTAL 3,01,95,788.42 DATE : 22,12,2020 Dr. M. DAVAMANI CHRISTOBER Dr. C. DOROTHY SHEELA Dr. M. DAVAMANI CHRISTOBER Dr. C. DOROTHY SHEELA Partnef DANIEL SELVARAJ Da Antel & Secretary DUBXAR	FOR THE YEAR ENDE 31-03-2020	INCOME	PREVIOUS VEAR ENDED 31-03-2019	FOR THE YEAR ENDED 31-03-2020	EXPENDITURE	PREVIOUS YEAR ENDED 31-03-2019
11,50,783 Advertisment Expenses 11,49,031.00 22,17,243 Building Maintenance 3,48,668.00 28,500 Garden Maintenance 6,825.00 13,000 Garden Maintenance 10,000.00 15,000 Inspection Expenses - New Courses 53,100.00 15,000 Medical Expe - Student 908.00 Consortium Application Expenses 5,000.00 4,79,045 International Conference Exps., - 16,15,927 To depreciation 20,81,119.96 31,91,956 To Excess of income over Expenditure - 2,22,85,936 TOTAL 3,81,95,788.42 2,22,85,936 TOTAL 3,81,95,788.42 2,22,85,936 TOTAL 2,21,2,2020 JDIN: 20200322AAAARR4702 Dr. M. DAVAMANI CHRISTOBER PLACE : MADURAL Dr. M. DAVAMANI CHRISTOBER Dr. C. DOROTHY SHEELA PENCIPAL & SECRETARY BUSAR DANIEL SELVARAJ Data metric of Even Data metric of Even Data metric of Even	and the second se	Brought Forward	2,22,85,936	2,59,66,136.46	Brought Forward	1,35,87,482
31,91,956 To Excess of income over Expenditure 20,01,119,95 2,22,85,936 TOTAL 3,01,95,788.42 2,22,85,936 PLACE : MADURAI DATE : 22,12,2020 As per our Report of Even Date For MANOHAR CHOWDHRY & ASSOCIATES CHARTERED ACCOUNTANTS UDIN: 20200322AAAARR4702 C, N, Multiclassical Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY Dr. C. DOROTHY SHEELA BURSAR Pattors Hold 200322				8,48,668.00 6,825.00 10,000.00 53,100.00 75,000.00 908.00	Building Maintenance Moting Expenses Garden Maintenance MKU Fees for new Courses Inspection Expenses - New Courses Medical coding course fee Medical Exps - Student Consortium Application Expenses	22,17,243 28,500 - 15,000 - -
2.22,85,936 TOTAL 3,81,95,788.42 2,22,85,936 TOTAL 3,81,95,788.42 PLACE : MADURAI DATE : 22,12,2020 (DIN: 20200322AAAARR4702 As per our Report of Even Data For MANOHAR CHOWDHRY & ASSOCIATES CHARTERED ACCOUNTANTS CHARTERED ACCOUNTANTS CHARTERED ACCOUNTANTS Firm Registration No.0019975 Dr. M. DAVAMANI CHRISTOBER PRONCIPAL & SECRETARY DO MUCH Dr. C. DOROTHY SHEELA BURSAR Dr. M. DAVADANI CHRISTOBER DI MUCH COLOR Dr. C. DOROTHY SHEELA BURSAR DANIEL SELVARAJ Partner			·]	20,81,119.96	and the second	Comments.
LACE : MADURAI ATE : 22,12,2020 DIN: 20200322AAAARR4702 Dr. M. DAVAMANI CHRISTOBER PRDCAL& SECRETARY Dr. M. DAVAMANI CHRISTOBER Dr. C. DOROTHY SHEELA BURSAR Dr. M. DAVAMANI CHRISTOBER PRDCAL& SECRETARY Dr. M. DAVAMANI CHRISTOBER PRDCAL	2.01.05.700.4	TOTAL	2.22.85.936	3,51,95,788,42		
Madami - 625 002 Madami - 625 003		000000000000000000000000000000000000000			RAL	

PREVIOUS	205025-00000	FOR THE	PREVIOUS	ED JIST MARCH 2000	The second
YEAR ENDER 31-03-2019		YEAR ENDED 31-03-2020	YEAR ENDED 31-03-2019	INCOME	FOR THE YEAR ENDER
1,35,87,482	Brought Forward	2,59,66,136.46	2,22,85,936	Brought Forward	31-03-2020
11,50,783 22,17,243 28,500 15,000 4,79,045	The second state of the se	11,49,031.00 8,48,668.00 6,825.00 10,000.00 53,100.00 75,000.00 5,000.00			
16,15,927	To depreciation	20,81,119.96	1.1		
31,91,956	To Excess of income over Expenditure	(*)			1

PLACE : MADURAI DATE : 22.12.2020 UDIN: 20200322AAAARR4702

4 Blue Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College Madami - 625 002

0.0-11-09 Dr. C. DOROTHY SHEELA BURSAR The American College Madarai - 625 002

As per our Report of Even Date For MANOHAR CHOWDHRY & ASSOCIATES CHARTERED ACCOUNTANTS DHRYA

Partner 1.Daniai Salvazal Partner Membarship No.200322

	INCOME & EXPEND	ITTER ACCOUNT POR	THE TRANSFORM	AN ANT A CALL OF A TANK AND A	Takt
PREVIOUS VEAR ENDED 31-03-2019	EXPENDITURE	FOR THE YEAR ENDED 31-03-2020	PREVIOUS	A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OWNE	POR THE YEAR ENDS
	To Educational Expenses		51-13-2915		31-03-2020
13,220	B.A.Hinfi			To Educational Income	
	BBA	27,725.00	39,055,784	Course Fee	64,328,947,0
3,500	BCA	6,595.00		S.389534825	94,224,947,1
4,500	B.Con.	9,950.00			
4,250	B.Com. IT	25,912.00		To Direct Income	1 2 -
6,500	B.Com, (CA)	5,300.00		Sale of Terril Books	229,840.0
374,137	B.Sc. Food Science			National Confirmence - Matha Dep	11,060.0
13,500	B.Sc., (Maths)	749,826.00		and a second second second	11,060,0
36.680	B.Sc., Physics	33,500.00	10000000	To Other Income	
.3,180	B.Sc. (Cos)	79,670.00	140,367	Blank Interest	00.447
198,855	B.Sc.Cheminty	100,885,001	234,495	FD Interent	93,663.4
42,171		200,274.00	300,215	Sale of Indext Books (chemistry)	
	B.Sz.Information Technology	16,870.00	8,451	Sale of Scrip	
2,505	B.Sc.Microbiology	61,966,00	90,000	Rent received	19,730.0
104,573	Blo-Chemistry	8,659.00		and second	\$0,000.00
31,070	Bursar's Office	3,270.05			
3,000	Commerce	3,000.00			
19,150	Driver Batta				
14,500	Eaglish Dept.,	60,390.00			
2,901,231	Fors Refland	-			1.1
\$1,000	Franch Dept.	93,350.00			11 P.1
66,300	M.Con.,	7,500.00	- 11		1 3
6,483	M.Phil English	1.000			
in the second	Tamil Dept	2,000,00			
54,332	MJPhil Chemistry	where we are			
44,580	M.Sa.physics	4,955.00			
58,653	M.Sc.Food Science	78,450.00			
47,179	MCA				
216,145	MIM Dept.,	24,384.00			
27,550	MSW	6613013 7771			
197,947	Physical Education	11,455.00			
5,000	PG-English	3,860.00			
136,133	Psychology Dept_	3,180,00			
11,710	Physics-P()	184,002.00			
\$3,092.00	Principal Office	12,033.00	1		
8,960	Visual Communication	17,078.00			
100.000	PG Matha	2,050.00			
	B.com/PA)	249,000.00			
	Bank Charger	187,000.00			
	building Maintenance	11,389.36			
		1,145,987,00			
	Computer Accessries	30,260,00			
	Computer Lab Expenses	136,336,00			
	Dattion Deposit Refund	118,500.00			
	tefund	3,483,520,00			
396,234 1	lectrical Materials & Inspection charges	299,994.00			
	rinter Maintenance	3,880.00			
	rinting & Stationery	373,754,00			
	effestiment Expenses	and the second second			
2,284,331 3	ommeration	3,715,056.00			
12 Date 10	Carried Over	9,779,058,36	39,829,311	Carried Over	45,578,683,42

12.523.99 Brought Forward 9,779,053.36 39,829,313 Brought Forward 45,578,463.45 400,785 Registr & Maintenoce 388,347.09 25,600.00 45,578,463.45 25,519 Registr & Maintenoce 1,300.00 5,600.00 45,578,463.45 72,735 TrueSlipe Rogenes 2,040.48 0.01 90.00 45,578,463.45 71,233.00 Funzine Maintenoce 60,940.00 45,578,463.45 45,578,463.45 13,000,00 Funzine Maintenoce 60,940.00 45,578,463.45 45,578,463.45 13,000,00 Funzine Maintenoce 17,790.00 17,790.00 16,000.01 45,578,463.45 13,000,00 Funzine Maintenoce 17,790.00 17,790.00 17,790.00 17,790.00 17,790.00 17,790.00 17,990.00 <td< th=""><th>13.523.999 Brought Forward 9,779,053.36 39,829,311 Brought Forward 45,578,683.62 403,762 Repairs & Maintennose 388,547.06 26,00.06 45,578,683.62 235,19 Repairs & Maintennose 1,300.00 9,00.06 1,300.00 45,578,683.62 72,255 Trueoling Expenses 26,048.00 45,578,683.64 45,578,683.64 72,255 Internet Expenses 358,130.00 7,599.00 7,599.00 74,670 True K Maintennoc Charges 17,599.00 7,599.00 7,599.00 74,870 Semire Hall - Maintennoc 39,283.00 7,599.00 7,599.00 74,870 Semire Hall - Maintennoc 39,283.00 7,599.00 7,599.00 7,599.00 7,599.00 7,599.00 7,599.00 7,599.00 7,599.00 7,5</th><th>13:52:00 Brought Forward 9:72:965.45 19:82:01 Brought Forward 45:75:60.2 400,70 Regist & Maintenco 38:347:00 38:347:00 38:347:00 45:75:60.2 22:51 Regist & Maintenco 38:347:00 26:00.0 45:75:60.2 32:51:00 Accel Mother Statements 30:00 10:00 10:00 72:51:01 Treeding Experient 30:00:0 10:00 10:00 72:50:01 Treeding Experient 30:00:0 10:00 10:00 72:50:01 Treeding Experient 35:10:00 10:00 10:00 70:02:00:01 Maintenance Charges 35:10:00 10:00:00 10:00:00 30:00:20 Treeding Maintenance 10:20:00 10:00:00 10:00:00 50:00 Solid Pole Statements 36:00:00 10:00:00 10:00:00 50:00 Solid Pole Statements 36:00:00 10:00:00 10:00:00 50:00 Solid Pole Statements 36:00:00 10:00:00:00 10:00:00:00:00:00 50:00 Solid Pole Statements</th><th>PREVIOUS YEAR ENDED</th><th>ENPENDITURE</th><th>FOR THE YEAR ENDED</th><th>PREVIOUS YEAR ENDED</th><th>INCOME</th><th>YEAR ENDED</th></td<>	13.523.999 Brought Forward 9,779,053.36 39,829,311 Brought Forward 45,578,683.62 403,762 Repairs & Maintennose 388,547.06 26,00.06 45,578,683.62 235,19 Repairs & Maintennose 1,300.00 9,00.06 1,300.00 45,578,683.62 72,255 Trueoling Expenses 26,048.00 45,578,683.64 45,578,683.64 72,255 Internet Expenses 358,130.00 7,599.00 7,599.00 74,670 True K Maintennoc Charges 17,599.00 7,599.00 7,599.00 74,870 Semire Hall - Maintennoc 39,283.00 7,599.00 7,599.00 74,870 Semire Hall - Maintennoc 39,283.00 7,599.00 7,599.00 7,599.00 7,599.00 7,599.00 7,599.00 7,599.00 7,599.00 7,5	13:52:00 Brought Forward 9:72:965.45 19:82:01 Brought Forward 45:75:60.2 400,70 Regist & Maintenco 38:347:00 38:347:00 38:347:00 45:75:60.2 22:51 Regist & Maintenco 38:347:00 26:00.0 45:75:60.2 32:51:00 Accel Mother Statements 30:00 10:00 10:00 72:51:01 Treeding Experient 30:00:0 10:00 10:00 72:50:01 Treeding Experient 30:00:0 10:00 10:00 72:50:01 Treeding Experient 35:10:00 10:00 10:00 70:02:00:01 Maintenance Charges 35:10:00 10:00:00 10:00:00 30:00:20 Treeding Maintenance 10:20:00 10:00:00 10:00:00 50:00 Solid Pole Statements 36:00:00 10:00:00 10:00:00 50:00 Solid Pole Statements 36:00:00 10:00:00 10:00:00 50:00 Solid Pole Statements 36:00:00 10:00:00:00 10:00:00:00:00:00 50:00 Solid Pole Statements	PREVIOUS YEAR ENDED	ENPENDITURE	FOR THE YEAR ENDED	PREVIOUS YEAR ENDED	INCOME	YEAR ENDED
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235.319 RepainMAindesance - Furnitive 2,600.00 Amust Member Subscription 900.00 72,2350 Trevelling Digensis 2,604.00 72,2350 Trevelling Digensis 2,604.00 72,2350 Vehick Maintenance 60,940.00 72,2350 Premium Maintenance 17,700.01 72,000 Honoration 2,332,161.00 3,062,245 Interest Digensis 3,58,130.00 7,000 Honoration 2,332,161.00 3,062,245 Interest Digensis 3,58,130.00 7,000 State A Maintenance Charges 54,000.00 9,000 PC Cheasing 1 9,000 PD Constance 39,780.00 9,000 PD Ensity Network System 1,26,500.00 10,000,00 Minitenance 39,780.00 9,000 PD Ensity Network System 5,65,000.00 17,901,700 To Excess of Income and Excession 3,900.00 17,901,700 To Dogensidian 3,66,152.00 17,901,700 To Dogensidian 3,66,152.00 <td< td=""><td>235,319 Repetial/Maintenance - Furniture 2,400.00 - Annus/Minter Subscription 900.00 77,759 TweeDing Expenses 26,040.00 71,759 TweeDing Expenses 26,040.00 71,759 TweeDing Expenses 26,040.00 71,759 TweeDing Expenses 26,040.00 71,759 TweeDing Expenses 25,210.00 71,701,700 Externet Maintenance Charges 35,130.00 71,701,700 Service Charges 35,130.00 71,701,700 Service Charges 12,244.00 71,701,700 Second flooree extra Expension 25,650.00 71,701,700 Second flooree extra Expension 25,640.00 71,701,700 Second flooree extra Expension 25,640.00 71,71,7100 Second flo</td><td>22.5.1 RepitAlXAbanese-Finither 2.60.00 MOU Depress 1,200.00 MOU Depress 2.00.00 T2.210 Moule Ruber Statution Parties Matchin 6.0300.00 Parties Matchin 8.110.00 Parties Matchin 8.11700.00 Parties Matchin 8.11700.00 Parties Matchin 8.11700.00 Status 1.1700.00 Status 1.1</td><td>12,523,939</td><td>Brought Forward</td><td>9,779,058.36</td><td>39,829,311</td><td>Brought Forward</td><td>45,575,683.43</td></td<>	235,319 Repetial/Maintenance - Furniture 2,400.00 - Annus/Minter Subscription 900.00 77,759 TweeDing Expenses 26,040.00 71,759 TweeDing Expenses 26,040.00 71,759 TweeDing Expenses 26,040.00 71,759 TweeDing Expenses 26,040.00 71,759 TweeDing Expenses 25,210.00 71,701,700 Externet Maintenance Charges 35,130.00 71,701,700 Service Charges 35,130.00 71,701,700 Service Charges 12,244.00 71,701,700 Second flooree extra Expension 25,650.00 71,701,700 Second flooree extra Expension 25,640.00 71,701,700 Second flooree extra Expension 25,640.00 71,71,7100 Second flo	22.5.1 RepitAlXAbanese-Finither 2.60.00 MOU Depress 1,200.00 MOU Depress 2.00.00 T2.210 Moule Ruber Statution Parties Matchin 6.0300.00 Parties Matchin 8.110.00 Parties Matchin 8.11700.00 Parties Matchin 8.11700.00 Parties Matchin 8.11700.00 Status 1.1700.00 Status 1.1	12,523,939	Brought Forward	9,779,058.36	39,829,311	Brought Forward	45,575,683.43
235,319 Reprint MMinitestruct - Furthure 2,600.00 Annual Member Subscription 900.00 Annual Member Subscription 900.00 72,759 Trevelling Express 2,6048.00 72,2350 Welsch Mitistemono 60,940.00 72,2350 Preview Mitistemono 60,940.00 72,2350 Preview Mitistemono 60,940.00 72,2350 Preview Mitistemono 60,940.00 72,2350 Homoardian 2,332,161.00 7,200,01 Homoardian 2,332,161.00 1,600,500 Homoardian 2,332,161.00 3,060,257 Minit Aminestance Charges 358,130.00 4,007 Minit Minitestance 17,599.00 6 Minit Math 4,500.00 7 Stoffice 1,999.00 9,000 PC Chestinty 5,650.00 1,509.00 Not Stoffice 1,999.00 1,509.00 Lagtor Minitestance 3,000.00 1,509.00 Lagtor Minitestance 3,000.00 1,609.17,700 To Exoces of Income ever Expendian	235,319 Repetited Maintenance - Fermittree 2,600.00 - Annuel Munter Mosciption 1,300.00 72,755 Traveling Expenses 26,046.00 72,233.00 Valide Maintenance 6,040.00 72,233.01 Function Maintenance 87,160.00 72,233.02 Function Maintenance 87,160.00 72,233.02 Function Maintenance 87,160.00 72,757 Traveling Expenses 358,190.00 74, 707 Internet Maintenance 17,399.00 74, 707 Service Charges 358,290.00 74, 707 Service Charges 12,2446.00 74, 707 Mointonance 17,399.00 75,777,787 Sector of Incense extra Expenditure 28,146,172.26 74,777,787 Sector of Incense extra Expenditure 28,146,172.26 74,777,7787 Tottal 45,578,683.41 39,313.31 76,778,787 Sector of Incense extra Expenditure 28,146,172.26 77,778,787 Sector of Incense extra Expenditure 28,146,172.26 77,80,703 To Deparation 36,403.20<	22.5.1 RepitAlXAbanese-Finither 2.60.00 MOU Depress 1,200.00 MOU Depress 2.00.00 T2.210 Moule Ruber Statution Parties Matchin 6.0300.00 Parties Matchin 8.110.00 Parties Matchin 8.11700.00 Parties Matchin 8.11700.00 Parties Matchin 8.11700.00 Status 1.1700.00 Status 1.1	403,782	Repairs & Maistennoce	388,547.00			
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			ATE: 22.12.3	020			for MANOHAB CHOWDED C	RY & ASSOCIATES Thartered Accountant
			ATE: 22.12.3	Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	Dr. C.	DOROTHY SHEEL BURSAR e American College	for MANOHAR CHOWDEN Firm Reg Dataset La Partner LDaniel Selvarel M.No: 200122	ASSOCIATES hartered Accountant patrations No.0015977 ANIEL SELVARA. Partne Partne
	20		ATE: 22.12.3	Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	Dr. C.	DOROTHY SHEEL BURSAR e American College	for MANOHAR CHOWDEN Firm Reg Dataset La Partner LDaniel Selvarel M.No: 200122	ASSOCIATES hartered Accountant patrations No.0015977 ANIEL SELVARA. Partne Partne
			ATE: 22.12.3	Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	Dr. C.	DOROTHY SHEEL BURSAR e American College	for MANOHAR CHOWDEN Firm Reg Dataset La Partner LDaniel Selvarel M.No: 200122	ASSOCIATES hartered Accountant patrations No.0015977 ANIEL SELVARA. Partne Partne
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			ATE: 22.12.3	Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	Dr. C.	DOROTHY SHEEL BURSAR e American College	for MANOHAR CHOWDEN Firm Reg Dataset La Partner LDaniel Selvarel M.No: 200122	ASSOCIATES hartered Accountant patrations No.0015977 ANIEL SELVARA. Partne Partne
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			ATE: 22.12.3	Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College	Dr. C.	DOROTHY SHEEL BURSAR e American College	for MANOHAR CHOWDEN Firm Reg Dataset La Partner LDaniel Selvarel M.No: 200122	ASSOCIATES hartered Accountant patrations No.0015977 ANIEL SELVARA. Partne Partne
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RECEIPTS AND PATHON PREVIOUS YEAR ENED 31-03-2019 FOR THE YEAR ENDED 31-02-2020 PREVIOUS YEAR ENED 31-03-2019 ENDED 32-45-2829 RECEIPTS PAYMENTS 118,632,928 BROUGHT FORWARD 141,980,090.91 100,155,367 BROUGHT FORWARD 122,756,114,74 BY INVESTMENTS FD - 50350245803511 - HDPC FD - 50300245803951 - HDPC FD - 50300245803952 - HDPC Bank FD 50300354784948 HDPC FD 50300354785372 HDPC 6,000,000 6,000,000 4 6,000;000.00 6,000,000.00 FD in Indian bank BY CLOSING BALANCE (572,979) 7,050,540 Cash at Bank - Indian bank Cash at Bank - HDFC bank (549,602.02) 1,773,578.10 118,632,928 TOTAL 141,980,090.91 118,632,928 TOTAL 141,980,098.91 PLACE : MADURAI As per our Report of Even Date For MANOHAR CHOWDHRY & ASSOCIATES CHARTERED ACCOUNTANTS . DATE : 22.12.2020 UDIN: 20200322AAAARR4702 Firm Registration No.001997S 0.0. Yhul HBur 20 e Pertner LDanier Selvaraj M.No: 200322 Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY C Mod Dr. C. DOROTHY SHEELA BURSAR DANIEL SELVARAJ OHIM Partner The American College Madurai - 625 002 / The American College Membership No.200322 dW x THE ED ACCOUNTS Madurai + 625 002 NME 700

		ATTELLITE CANTER	ACCOUNT NO. 12	- (I I I I I I I I I I I I I I I I I I	
	A REAL PROPERTY AND A REAL	TTURE ACCOUNT FO	R THE YEAR EN	DED SIST MARCH 3139	Contraction of the local division of the
PREVIOUS	TENENDETURE	FOR THE YEAR ENDED 31-03-2020	YEAR ENDED	INCOME	FOR THE YEAR ENDED 31-03-2020
EAR ENDER	EALMAN	ENDED 31-03-2440	31-03-2019	By Educational Income	100000000
31-03-2019	To Educational Expenses	× + + + + + + + + + + + + + + + + + + +	1,598,000	Due Leet	38,700.00
5,982,44	Salary	9,141,134.00 1,387,952.00	13,953,018	Course fees collected by challans	33,875,682.00 315,673.00
190,75	Course Fee Refund	770,248.00	285,828	Course fees	313,073.00
344,25	Uncertaium	110,648.00	292,000	Application fees	
63	EPF Administration Charges A/c	1. 22.	3,441,806.	Staff Retreat Adv Deducation	2,920.00
20,65	Food & Safety Certificate	3,000.00	0.000.0000	Exam Fine Amount	Competeral -
39,50		54,290.00	2,500	Other Income	13,040.00
114,40		251,213.00	3,358	Scrap Sales	and the second second
251,23		\$71,200.00	5,000	Hall Booking	149,970.00
688,51		15,123.00	58,754	Bank Interest	
41,25		81,051.00	12,150	Bun Rental Income FD Interest - Indian Bank	20,175.00
\$7,90	and the second se	0.00	482,713 49,500	Conference Deduction	
84,17		CANADA		Completence Dependence	
22,63		53,200.00			
494,7	and the second se	725,161.00			
3,0	n Book Binding Exp	- E			
1,0		1 3	2		1 1
75.0					
8.0	Remuneration - Extra work	10.000.00			
12.5	Admission Work Exp	632,851.00			
55.2	ch Electrical Maintenance	7,650.00			
4.5	Travell Allowance	1,41,41,11	\$1		
30.0	73 Exam Fee Refund	4,599,10	0		1 2 1
8.1	73 Bank Charges		-		
25.0	00 Bus Fees Refund	1.00000			
123,2	01 Exam External	339,936.0	0	V.	
182,5	88 Insurance-Bus	\$31,366.0	0		1
	Telephone & Internet Exp	1			
	Tamilrad Labour Transport Repair & Maintenance - Satelite		10	0	10.00
44.	and the second second second	3,286,814.0	10		1
146/	Duilding Maintenance	-			10 1
578,	and the set & Tessaringener	1.3.8			
489,	100 Contingency expense	4,000.0			
	non Dent Contingency Expense	4,000.0	00		
	exam Contingengy Expense		2		
385.		116.000	00		
	718 Batta - Driver	337,761	0.000		
	\$25 Chair Maintenance	167,792		-	
20	- Chalk & Notice Board	107,134			
23	000 Christmas Gift - Staff				
	college Maintenance				
	and Communat Consumables	16,154	00		
0.55	 Curricular Development - MB/ 	10400			
	CAR Committee	11,705	.00		
32	178 Exam Refreshment Expenses	13,000		11 12	
5.	et-14 min hut exp	1,394,026			
1,585	199 Fuel Expenses - Petro Cord	220,395		1	10000
E	- Bus Maintenance	20,751,621		CARRIED OVER	34,416,160.00



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EAR ENDED	EXPENDITURE	FOR THE YEAR ENDED 31-03-2020	PREVIOUS YEAR ENDED 31-03-2019	INCOME	FOR THE YEAP ENDED 31-03-2020 34,416,160.00
31-03-2019 12,563,160	BROUGHT FORWARD	20,751,621.10	31-03-2019 20,184,627	BROUGHT FORWARD	34,410,100000
LADOLLIDO					
119,335	Bus F C Expenses				
10,500	Field Trip Expenses Carpenter Work Maintenance	5,975.00			
	Afflintion Fee - University	197,900.00			
8,114	Newspaper & Periodicals	8,631.00			9
45,252	Printer Maintenance	10,940.00		*:	
13,263	Printing & Xerox	69,410.00			
70,850	Property tax	and the second			
163,210	Repair & Maintenance Repairs & Maintenance - Main Building				
161,736 29,400	Repairs & Maintenance -Main Buildin	1. 53			
3,560	Staff Refreshment	8,187.00			
+ ()	Stationary	6,197.00	1 1		
230,801	Hostal Expenses	15,000.00			
	UPS Maintenance Water Charges	17,500.00			
71,000 31,189	Refreshement Expense	35,556.00			
23,500	Miscellaneous Exp	212,043.00 237,500.00		-	
7,800	Genset Maintanance	64,365.00			
471,661	Vehicle Maintenance				
2,500	College Name Board Borewell Repairs & Maintenance	A commence		- A -	
42,052 57,000	Incidental Charge	27,325.00	1	3	
7,484	Insurance Manuthi Omni TNS9AD 94				
247,000	LTCT Cable Laying Exp	1 2		1	
6,635	Other Expenditure Play Ground Sports & Material	64,736.0	0		
23,908	Play Ground Sports & Handrand Printing A/c	100,569.0	D	17	
27,794 9,440	Projector Service	E .		16	
21,300	Society Registration-Renewal	1 2 2 3			
7,616	Sports Material Purchase				
1,000	Staff Welfare	214,955.0	0		
17	Insugration Expenses Inspection Expenses	25,040.0			
3	Cleaning Charges	195,304.0			
	Faculty Meeting Expenses	9,500.0 43,205.0			
	FD Interest	45,117.0			
24,248	Cleaning material expenses		57)		
7,861	Gneden Maintenance Licenses Renewal	300,000	00		
		5,924,324.4	4		
3,880,564	To Depreciation	2,764,264.2	10	1.1	
1000000000000	Charles and the second second				
CORRECT OF	To Excess of Income over	5,811,456.4	46		5
1,793,884	Expenditure	*			34,416,160.00
	Total	34,416,160.	00 20,184,62	7 Total	Colorador Color
20,184,627 PLACE : MAI DATE: 22.12.1 UDIN: 202003	DURAI			for MANOHAR CHOWD	per our report of even date HRY & ASSOCIATES TERED ACCOUNTANTS m Registration No.0019975
	N@lue-		S ALA DOROTHY SHEEL	LA CHONDHRY & ASS	1 CONTEL SELVARAJ
	Dr. M. DAVAMANI CHRISTOB PRINCIPAL & SECRETARY	1 miles	DIRSAR	Dell - And Agai	PARTNER
	The American College	COAM × VILLE	American College adurai - 625 002	THE COMPANY AND A STREET	Membership No.200322
	Madurai - 625 902	1 2 1	andrai - 625 904	M.No: 200322	
	12	()≊		140 AN	
	×	15		ERED ACCO	54
	1.	5			
	1	27703			

31-03-2029	EXPENDITURE	FOR THE YEAR ENDED 31-03-2021	PREVIOUS YEAR ENDED 31-03-2020	INCOME	FOR THE YEAR ENDED 31-63-
	To Educational Expenses		31-43-2020		2021
17,72	5 B.A.Hindi	2,000.00		By Educational Income	
6,595		2,500.00	4,43,28,947	Course Fee	5,31,02,734.00
9,950		16,500.00		By Direct Income	1
25,911		14,080.00	2,29,840	Sale of Tamil Booka	1 E.
5,300		2,250.00	11,060	National Conference - Mathe Dep	
7,49,826 33,500		88,304.00	10-00.821	Tool and a second strain buy	
79,670		1,17,258.00		By Other Income	1
1,00,885		48,018.00	93,663	Bank Internst	82,132.00
3,00,274		50,950.00 5,450.00	8,15,443	FD Interest	3,08,801.00
16,870		7,869.00	19,730 80,000	Sale of Scrap	700.00
61,966	and the second se	10000000	- entrain	Rent received	1,00,000.00
8,689		44,846.00			
3,270	Burnar's Office	26,338.00			
3,000	Books and Journals Commerce	21,373.00			
60,390	English Dept.	10 1000	I		
93,550	French Dept.	10,500.00	1.0		
7,500	M.Com,	7,430.00			
	M.Phi English	4,500.00			
2,000	Tamil Dept.	550.00			
4,955	M.Sc physics M.Sc Freed Science	13,600.00			
78,450 24,384	M.Sc.Food Science MCA	2,500.00			
1.86,163	MIM Dept.	10,839.00			
11,455	MSW	1,69,624.00			
	LIG Economics	7,000.00			
3,850	Physical Education	1,47,678.00			
3,180	PG-English	2,500.00			
1,84,002	PG-DNB Science	2,500.00			
12,035	Paychology Dept_ Physics-PG	5,470.00			
17,078	Principal Office	660.00 14,727.00			
2,050	Vitual Communication	5,500.00	- 1		B
2,49,000	PG Matha	1,56,500.00			
1,87,000	D.com.(PA)	2,60,500.00			
11 740	ACCIC Bast Channel	95,710.00			
11,389	Bank Charges Building Maintenance	11,434.00			
30,260	Computer Acceptation	\$,49,993.00 2,55,030.00	1		10 I. I. I.
	Computer Centre	1,770.00	1		
1,36,236	Computer Lab Expenses				
1,18,500	Caution Deposit Refund	1 14 1			
	Courpenter Expenses-DRDO	900.00			
-	Data Centre	1,22,620.00			
2,99,994	Refund Electrical Materials & Inspection charges	31,18,132.00			
	Electrical Maintenance	2,48,987.00			
28	Green Audit	1,23,350.00			
÷.	Loading and Unloading Charges	1,330.00			
3,880	Printer Maintenance				
3,73,754	Printing & Stationery	25,054.00			
7,15,056	Remuneration	8,27,920.00	1.1		
7,79,058	Carried Over	69,67,736.80	4.55,78,683	Carpin Chile	6 38 64 3 (7) 44
			Contraction 1	· ·	5,35,94,367.08
	UNDWERT A	1400		13/ do 12	
	(S can bive	29 月1		18	
	In Transform Vol.			13 8	
	Taline Even Op	51 /E		122 + 302	
	Charren act	38/			
	. 1	-			a
	2				(8)
					0

REVIOUS EXPENDITURE FOR THE YEAR FREVIOUS ENCOME FOR THE YEAR ENED INCOME ENDED 31-03-		SEI INCOME & EXPENDITURE	LF-FINANCE ACC ACCOUNT FOR		DED 31ST MARCH 2021	
2.339 Bernamion - 7,41,71,376 Conset Fee 8,15,41,956.00 2.35,417 Alter Stary Arc 3,273,40,213.09 1,45,391 Bank Interest 1,22,858.00 2.35,417 AICTE Exps., - - 1,64,85,388 Salary Recovery - - 2.15,417 Benk Charges - - 1,64,85,388 Salary Recovery - - 1.060 Benk Charges - 1,64,85,388 Salary Recovered-LLP - <	PREVIOUS EAR ENED 11-03-2020	1	FOR THE YEAR ENDED 31-03-	PREVIOUS YEAR ENED		ENDED 31-03-
TOTAL 1,31,04,096,80 7,72,80,973 TOTAL 8,21,04,096,80 CCE : MADURAI FE : 20,11,2021 As per our Report of Even Date For MANOHAR CHOWDHRY & ASSOCIATES CHARTERED ACCOUNTANTS Firm Registration No.0019975 De. M. DAVAMANI CHRISTOBER FRINCIPAL & SECRETARY The American College Madurai - 625 003 Dr. C. DOROTHY SHEELA BURSAR The American College Madurai - 625 003 Dr. C. DOROTHY SHEELA BURSAR	2,351 2,88,41,724 2,35,047 1,040 74,23,664 11,23,945 11,23,945 11,23,945 11,23,945 11,23,945 11,23,940 10,58,533	Remuneration Salary A/c Gloss Leonare ALCTE Expla, Bank Charges E.B.Exps, ESI - Penalty Mise.Exps, EFF Security Exps, (Outsourced) Recognition Expenses Legal Exps, Cleaning Charges - Tnilet(Outsourced) Interest on Loon Staff welfare expenses Contributions to Global services - tales day AMC Charges - Winways Systems P Ltd ESI Garden Maintenance To Depreciation	23,000,00 3,185,00 34,17,798,00 54,681,00 1,000,00 1,80,503,00 1,00,000,00 12,22,543,30 1,0,000,00 12,25,57,00 10,57,870,00 10,57,870,00	1,45,391 7,69,072 16,85,388	Course For Bank Interest FD Interest Salary Recovery	1,22,858.00
CE : MADURAI E : 20.11.2021 N: 21200322AAAAUS3518			1.25 VE2.0480413.202			
					CHARTERE Firm Rogi	D ACCOUNTANTS
		De. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College Madural - 625 002	Dr. C. DOROT BUR The Americ	TTY SHEELA SAR an College	CHARTERE Firm Rogin PRot do 19970	D ACCOUNTANTS stration No.001997S
		De. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College Madural - 625 002	Dr. C. DOROT BUR The Americ	TTY SHEELA SAR an College	CHARTERE Firm Rogin PRot do 19970	D ACCOUNTANTS stration No.001997S

THE AMERICAN COLLECE MATCRAS SATELLITE CAMPUS ACCOUNT NO. XIX INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED JIST MARCH 1921

PREVIOUS EAR ENDED	EXPENDITURE	FOR THE YEAR ENDED 31-03-2021	PREVIOUS YEAR ENDED 31-03-2020	INCOME	FOR THE YEAR ENDED 31-03-2021
31-03-2020	T. Educational Exceptor		ALCON ANAL	By Educational Income	
	To Educational Expenses	1,20,54,183.00	38,700	Bun Fees	10000000
91,41,134	Salary	7,76,222.00	3,38,75,682	Course fees collected by challent	4,02,86,581.15
13,87,952	Course Fee Refund	7,30,500.00	3,15,673	Course fees	12,87,152.00
7,70,248	Henorarium	50,015.00	2,920	Exam Fine Amount	
	Annual Fees for BMS Course	6,146.00	13,040		
	Catridge Refilling Toner	0,140.00	1,49,970		\$1,311.00
3,000	Remuneration to Staff	1	21407410	Pees Structure	100.00
54,290	Festival Exponses	39,850.00	20,175	FD Jeterest - Indian Bank	28,443.00
2,51,213	Advertisement Expenses	1,57,200.00	-20,175	Affiliation Fee	2,700.00
8,71,200	EB Charges	6,76,565.00			1,19,768.00
15,123	Traveling	765.00		Loss of Pay	
81,051	Orientiation Exp	*A			
	Inauguration Function	6,200.00			
	Collabouration fee	60,005.00			
\$3,200	1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	42,240.00			
7,25,161	Security Service Charges	7,26,000.00			
7,25,101	Board of Studies Exp	5,000.00	12		1 C C C
	Envince Recognition	1,46,175.00			
7.2	AICTE Espense	25,023.60			
		5,000.00		17	1
10,000		1_52,163.00		16	
6,32,851	Electrical Maintenance		1		
7,650		3,180.00			
4,599		4,24,800.00			
17. 20	Internet - Lease Line	68,972.00			
3,39,936	lesurance-Bus	1,73,067.00			
8,31,366	Telephone & Internet Exp	3,178:00			
	Tamilead Labour Transport				
÷.	AC Maintenato	32,144,00	8	1	
32,86,814	Repair & Maintenarice		3 I I I G.		
	Building Maintenance	24,58,586.00			
4,000	Contingency expense	23,313.00	8		
4,000	10111120000000000000000000000000000000	1 models			
4,000	Lab Consumables	10,000.00			
	MEA Student Assumptor	5,082.00			
1,16,000	C 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	200.01	1		
	A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF				
3,37,761		and the second			
1,67,792	Transport Excesses	13,800.0	D		
	Computer Maintenance	7,500.0			
10.00		10,000.0	0		
16,15		040044			
11,703					
13,000		4,30,256.0	0		
13,94,028		36,222.0			
2,20,395.00	0 Bus Maintenance			S S INCOME	4,18,06,055,15
2,07,51,62	CARRIED OVER	1,93,67,562.6	0 3,44,16,16	0 CARRIED OVER	The second s



PREVIOUS EAR ENDED 31-03-2020	EXPENDITURE	FOR THE YEAR ENDED 31-03-2021	R THE YEAR EN PREVIOUS YEAR ENDED 31-03-2020	INCOME	FOR THE YEAR ENDED 31-03-2021
	TO EDUCATIONAL EXPENSES			BY COURSE FEE RECEIVED	
3,89,400	Affiliation Fee - Mku	8,31,900.00	2,20,17,479	Course Fees By challan	3,58,35,545.28
2,72,428	Fees Refund	26,450.00	9897-30.000		-268255323-4782-4
29,500	ICTACT - Membership Fee	82,600.00		BY OTHER INCOME	L'anna anna anna a' leanna a' l
2,60,095	Physical Education -Expenses	2,94,045.00	15,389	Bank interest	58,703.00
2,19,43,439	Salary	3,22,65,014.00	1,38,896	Interest on FD	3,78,395.00
1,69,315	Vechicle Maintenance	70,427.00	28,900	International Conf Hindi Dept	
1,184	Bank Charges	1,141.85	54,000	Regn. Fee	ec.,
19,613	Computer Accessories-Expenses DTH Maintenance	15,726.00			1.2
8,12,445	Entrance Fee & Recog. Fee -2019-20	13,720.00		By Excess of Expenditure	
0.11.043	Entrance For & Recognition Fee -2020-	7,40,280.00	79,41,124	over income	21,19,188.64
21	Hand Sanitizer	950.00		uter locolor	
20,342	Insurance - TN59 BD 1881	14,326.00			
64.274	Insurance - TN59 CH 1881	49,345.00			
55,000	LegalExpenses	45,000.00			
4.	MOU Collabration Fee to LSC	1,50,000.00			
÷.	NSS Iyear Registration Fee - MKU	12,240.00			
34,838	Membership Subscription				
2,29,701	Refreshment Expenses	2,54,167.00			
S. Contract	Research Centre Approval Fee - MKU	35,400.00			
<u>.</u>	Research Centre Renewal - MKU	1,05,200.00			
- 100 See	Software Exp., Zoom	1,33,056.00			
2,11,000	Remuneration				
50,300	Repairs&Muintenanot Retreat Expenses				
1,85,564	Electrical Work Exps				
60,272	Telephone Expenses	38,760.00			
28,200	Travelling Expenses	50.00			
1,50,000	University Expenses-MKU	3,10,000.00			
11,49,031	Advertisment Expenses	6,34,979.00			
8,48,668	Building Maintenance	4,08,800,00			
6,825	Meeting Expenses		_		
10,000	Garden Maintenance	19,550.00			
53,100	MKU Fees for new Courses	35,400.00		_	
******	Inspection Expenses - New Courses	35,400.00			
75,000	Medical coding course fee Medical Exps - Student				
5,000	Consortium Application Expenses				
abene	Comparison editoriante e deserve	183			
20,81,120	To depreciation	18,16,025.07			1
			20105000	TOTAL	3,83,91,831.92
3,01,95,758	TOTAL	3,83,91,831.92	3,01,95,788	IOTAL	2402,211021228.1
ACE : MAD TE : 20.11.2/ IN: 2120032		C.D. 1	why (For MANOHAR CHOWDHRY UNUMER 2 CHARTERED Station 24.070 Promotion 10 Super Station	port of Even Date & ASSOCIATES ACCOUNTANTS nition No.001997S
	Dr. M. DAVAMANI CHRISTORER PRINCIPAL & SECRETARY The American College Madurai - 625 002	E AMERICE The Art	ROTHY SHEELA URSAR heriche College mi - 625 062	TRED ACCOS	IEL SELVARAJ Partner ership No.200322
	and the second s	11 1			(8)

	EXPENDITURE	FOR THE YEAR ENDED 31-43-2021	PREVIOUS YEAR ENDED 31-03-2020	INCOME	POR THE YEAR ENDED 31-83-
	To Educational Expenses		21-49-2428	Contact of the second of the	2021
27,725	B.A.Hindi	2,000.00	447.25042	By Educational Income	456165
6,595	BBA	2,500.00	4,43,28,947	Course Fee	5,31,02,734.00
9,950	BCA	16,500.00		By Direct Income	1 2 -
25,912 5,300	B Con., B Con IT	14,080.00	2,29,840	Sale of Tamil Books	100
7,49,826	B.Sc. Food Science	2,250.00	11,050	National Conference - Matter Dep	
33,500	B.Sc., (Mathe)	85,304.00	(CONTRACTOR OF A	S. 1
79,670	B.Sc., Physics	1,17,258.00 48,018.00	1221222	By Other Income	
1,00,885	B.Sc. (Cos)	50,950.00	93,663 8,15,443	Bank Interest	\$2,132.00
2,00,274	B.5c Chemistry	3,450.00	19,730	FD Interest Sale of Screp	3,08,801.00
16,870	B.Sc.Information Technology	7,869.00	\$0,000	Rent received	700.00
689.8	B Se Microhiology Bio Chemistry	an Sugar	11	Service of the servic	1,00,000,00
3,270	Burnar's Office	44,846.00			
	Books and Journals	26,330.00			
3,000	Commerce	21,373.00			1
60,390	English Dept ,	10,500.00			1
95,550	French Dept ,	13,750.00			
7,500	M.Com,	7,430.00			
2 000	M.Phil English	4,500.00			
2,000	Tamil Dept. M.Sc.phynics	550.00			
78,450	M.Sc.Food Science	13,600,00			
24,384	MCA	2,500.00			
1,86,163	MIM Dept.,	1,69,624.00			
11,455	MSW	450.00			
	LKI Economics	7,000.00			
3,850	Physical Education PG-English	1,47,678.00			
3,180	PG-English PG-Data Science	2,500.00			
1,84,002	Psychology Dept_	2,500.00			
12,033	Physics-PG	660.00			
17,078	Principal Office	14,727.00			11. II. II.
2,050	Vitual Communication	5,500.00			
2,49,000	PG Maths	1,55,500.00			
1,87,000	B.com.(PA) ACCIC	2,60,500.00			
11,389	Book Charges	96,710.00		1.00	
	Building Maintenance	11,434.00			
	Computer Accessries	2,55,030.00			
10000	Computer Centre	1,770.00			
	Computer Lab Expenses	3			
	Caution Deposis Refund Courpenter Expenses-DRDO	1 Star			
	Data Centre	900.00			
and the second se	Refund	1,22,620.00			
	Electrical Materiala & Impection charges	a congradador			
-	Electrical Maintenance	2,48,987.00			
	Oreen Audit	1,23,350.00			
	Leading and Unloading Charges	1,330.00			
	Printer Maintenance				
a search 1	Printing & Stationery	25,054.00			
7,13,056	(emuneration	8,27,920.00			
	Carried Over	69,67,736.88			



Ginest Lessurer 23,000.00 T.69,072 FD Interest 4,09,282,00 2,35,047 AICTE Exps., 16,85,338 Salary Recovery			LF-FINANCE ACC			
2.199 Remonention 7,41,77,376 Corrents Fee \$15,41,956.00 2.18,41,724 Salary Avic 23,000.00 1,69,773 Back Interest 1,22,856.00 2.35,041 AICTE Exps. 3,000.00 1,69,773 Back Interest 1,22,856.00 1.065 Back Charges 1,24,774 Salary Recovery Salary Recovery Salary Recovery 1.065 Back Charges 1,23,746 Salary Recovery Salary Recovery Salary Recovery 1.23,664 E.B.Brpa, 2,16,010 1,32,000.00 1,23,746 Salary Recovery Salary Recovery 1.23,746 Security Exps. (Outsourced) 1,38,0305.00 1,22,243.80 1,21,746 1.23,747 Salary Mac Charges - Toilet(Outsourced) 1,22,243.80 1,000.00 1,22,243.80 1.23,746 Salary Mac Charges - Vinesys Systems P Lud 10,55,570.00 10,000.00 1,23,404.906.80 7,72,40.973 TOTAL \$21,04,096.40 7,244,783 To Depreciation 3,50,02,907.90 10,55,570.00 1,36,02,907.90 TOTAL \$21,04,096.40 7,244,783 To Depreciation 1,36,02,907.90 10,000.00 7,72,40.97	AR ENED		FOR THE YEAR ENDED 31-03-	PREVIOUS YEAR ENED	Contraction of the local distance of the loc	ENDED 31-03-
AS per our Report of Even Date AS per our Report of Even Date For MANOHAR CHOWDHRY & ASSOCIATES CHARTERED ACCOUNTANTS Firm Registration No.0019925 Firm	2,359 2,88,41,724 2,35,047 1,016 74,23,645 11,23,945 11,23,945 2,150 4,23,000 7,35,214 3,920	Remaneration Salary A/c Guest Learner AICTE Exps., Bank Charges E.B.E.ps., ESI - Penalty Misc.Exps., EPF Security Exps.,(Outsourced) Recognition Exproses Logal Exps., Clearing Charges - Toiler(Outsouded) Interest on Loan Staff wildfore expenses Contributions to Global services - sales day. AMC Charges - Winnays Systemi P Ltd. ESI Garden Maintenance To Depreciation	23,009.00 3,185.00 34,17,398.00 54,681.00 1,000.00 3,57,007.00 11,89,303.00 1,00,000.00 12,22,343.00 26,66,057.00 10,000.00 10,57,870.00 10,57,870.00	1,45,391 7,69,072 16,85,388	Course Fee Bank Interest FD Interest Salary Recovery	1,22,858.00
AS per our Report of Even Date AS per our Report of Even Date For MANOHAR CHOWDHRY & ASSOCIATES CHARTERED ACCOUNTANTS Firm Registration No.0019925 Firm		10,000 1.0		3 33 40 431	TOTAL	8 31 04 036 80
	TE :20.11.	2021	2		As per our For MANOHAR CHOWDHR CHARTERE Firm Rog	Report of Even Date Y & ASSOCIATES D ACCOUNTANTS
	TE :20.11.	2021 2AAAAUS3518 Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American Collage Madural - 625 002	Dr. C. DOROJ BUR: The Americ	HY SHEELA SAR an College	As per our For MANOHAR CINARTERE For MANOHAR CINARTERE Firm Rogi Forman Area Forman Area L. D/	Report of Even Date Y & ASSOCIATES D ACCOUNTANTS stration No.0019975 ANIEL SELVARAJ Partner

B KNDED EXPENDITURE ENDED 31-85-2021 EXPENDITURE ENDED 31-85-2021 EXPENDITURE ENDED 31-85-2021 39-2020 Te Educational Expenses 1,0.0.12020 By Educational Income 4,0.2.6,581.15 13.87.92 Course Fee Relind 7,74,222.06 3,8,75081 Course fee Relind 4,02.36,581.15 7,70,348 Howaresion 6,015.00 2,5757 Course fee Relind 12,47,132.00 3,000 Remember Tome 6,015.00 2,200 Bank Interest 100.00 3,000 Remember Tome 6,164.00 13,0406 Sens Stack 11,11.00 3,000 Remember Tome 6,755.00 - Pees Simulare 100.00 8,71.20 EB Charges 1,57,200.00 2,0175 FD Interest-Indira Back 2,700.00 15,122 Traveling 62,000.00 - Loss of Pay 1,13,268.00 15,122 Traveling 62,000.00 - Loss of Pay 1,13,268.00 1,242 Traveling 1,73,600 - 1,73,600 - 1,15,2		INCOME AND EXPEN		PREVIOUS	NDED 31ST MARCH 2021	FOR THE YEAR
Display The Educational Expenses 1.00.54,183.60 35,705 Des Educational Expenses 91,41,187.952 Course For Retind 7.24,222.60 3.38,755.81 Course for Rescaled by challens 4.02,86,581.15 7.70,224 Heatmetion 60,015.00 2,557.75 Course for Rescaled by challens 4.02,86,581.15 7.70,224 Carridge Refiling Tome 6,104.00 1,069.75 States for Amount 1.000 Rememeration to Staff 9,850.00 2,707 Eases File 4.13,11.00 5.3,200 Petivel Expenses 6,75,553.00 20,175 FD Interest - Indian Bank 2,8,453.00 7.1,212 Advertiment Expension 6,76,553.00 Affiliation Fee 1,19,768.00 5.1,212 Advertiment Expension 6,70,553.00 Affiliation Fee 1,19,768.00 5.1,212 Advertiment Expension 1,22,75,700,00 Affiliation Fee 1,19,768.00 5.1,212 Advertiment Expension 1,23,7691 Advertiment Expension 1,20,768.00 6,12,28,11 Expension 1,22,75,700,00 Affiliiiiii Expension 1,22,76,770,00	REVIOUS AR ENDED	EXPENDITURE	FOR THE YEAR ENDED 31-03-2021	YEAR ENDED 31-03-2020	INCOME	ENDED 31-03-2021
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13,37,221 Control Feed Nations 7,01,500,00 3,15,573 Consider form 14,47,124,00 7,70,224 Monatricina 60,015.00 2,200 Essent File Alexenset 14,11,100 3,000 Rememeration to Staff 99,80,00 1,49,970 Back bitterest 10,00,00 2,51,213 Adventisement Expentes 1,57,200,00 20,175 Back bitterest 100,000 8,71,200 EB Change 72,05,653,00 20,175 File Simular 28,443,00 15,123 Trending 72,05,00,00 1,19,768,50 1,19,768,50 1,19,768,50 15,123 Trending 72,50,00,00 1,19,768,50 1,19,768,50 1,19,768,50 15,123 Trending 72,50,00,00 1,19,768,50 1,19,768,50 1,19,768,50 15,123 Trending 72,50,00,00 1,50,00,00 1,19,768,50 1,19,768,50 15,123 Exemise K.Espenice 5,000,00 1,50,00,00 1,19,768,50 1,19,768,50 10,000 Administive Next Exp 1,31,800 1,50,00,00 1,50,00,00 1,50,00,00 10,000 Administive Next Exp 1,73,76,7		Salary			Course fees collected by challens	
(a) (b) (b) (b) (c) (c) <th(c)< th=""> <th(c)< th=""> <th(c)< th=""></th(c)<></th(c)<></th(c)<>		Course Fee Refund			Course fees	12,87,152.00
Dummer 6,146.00 13,000 Scrap Sides \$1,311.00 3,000 Remunation to Staff 39,850.00 1,49.070 Back Interest 100,00 2,51,213 Advertisement Expense 1,57,200.00 Z,54,200 Fees Structure Interest 2,700.00 8,71,200 EB Charps 6,76,565.00 Affinition Fee 2,700.00 15,123 Treveling 76,500 Affinition Fee 2,700.00 15,123 Treveling 6,200.00 Loss of Fary 1,19,768.00 15,123 Treveling 6,200.00 Loss of Fary 1,19,768.00 15,123 Remoneration 6,200.00 Loss of Fary 1,19,768.00 15,124 Remoneration 4,2,400.00 East of Fary 1,19,768.00 7,25,161 Secarity Service, Charges 5,203.260 Trevel Alware 1,32,765.00 7,25,91 Trevel Alware 3,180.00 Trevel Alware 3,180.00 Trevel Alware 2,144.00 7,595 Insummers - Lene Line 6,8972.00 3,173.00 Trevelanone 2,144.00	7,70,248					
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FREVIOUS EAR ENDED	EXPENDITURE	FOR THE YEAR ENDED 31-03-2021	PREVIOUS YEAR ENDED	INCOME	FOR THE YEAR ENDED 31-03-2021
31-03-2020 2,07,51,621	BROUGHT FORWARD	1,93,67,562.60	31-03-2020 3,44,16,160	BROUGHT FORWARD	4,18,06,055.15
ALCONDUCT.	SASTURE FOR THAT		Contraction of the second		
12	Insurance	1,92,583.00			
5,975	Carpenter Work Maintenance	- E			
1,97,900	Affliation Fee - University				
8,631	Newspaper & Periodicals				
10,940	Printer Maintenance	2053			
	Printing & Xerox	1,050.00			
69,410	Property tax	69,410.00 5,55,662.00			
-	Repair & Maintenance	1,20,000.00			
	Rain water Harvest Stationary	2,180.00			
8,187 15,000	UPS Maintenance	a, transit			
17,500	Water Charges	12			
55,556	Refreshment Expense	5,170.00			
2,12,043	Miscellaneous Exp	11,347.00			
2,37,500	Genset Maintanance	23,056.00			
64,365	Vehicle Maintenance	1,05,108.00			
27,325	Incidental Churge	5,000.00			100
matrice	Installation Charge	8,260:00			
64,736	Play Ground Sports & Material	47.262.00			
1,00,569	Printing A/c	47,262.00 2,420.00			
5	NSS Registration Fex OMNI Insurance	6,700.00			
10	Painting Work	8,74,974,00			
2,14,955	Inaugration Expenses	distantian .			
25,040	Impection Expenses				
1,95,304	Cleaning Charges	3,78,191.00			
9,500	Faculty Menting Expenses	10,000.00			
43,205	FD Interest				
45,817	Cleaning material expenses				1
	Garden Maintenance	2,53,100.00			
3,00,000,00	Licenses Renewal	-			
	To Depreciation	68,81,307.56			
77,20,108	10 Deblectation	A SPECTOR STORY			
	To Excess of Income over				
40,15,673	Expenditure	1,28,85,711.99	1		
40,15,073	Expenditure				110.01.000.10
3,44,16,160	Total	4,18,06,055,15	3,44,16,160	Total	4,18,06,055,15
3,44,10,100			CHICKED SHOT SHEAT AT		r our report of even date
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