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 / Director	The American College 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

Rt. Rev. Dr. M. Joseph
President Bishop, Madurai – Ramnad Diocese

Dr. M. Davamani Christober,
2 Secretary 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. Spurgeon St. 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
11	Co-opted Member (I)	Dr. G. Christopher Jaisunder Scientist "F", Govt. of India, Ministry of Electronics & Information Technology, National Informatics Centre, A-Block, CGO Complex, Lodhi Road, 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

Dr.M.Davamani Christober, M.Sc., M.Phil., M.Ed., PGDCA.

Principal & Secretary 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.,

Rev.J.John Jeya Kamaraj,

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

Additional Dean for Curriculum

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

Additional Dean for International

Exchange & Study Abroad Dr. R. Mary Sophia Chitra, M.Com., M.Phil., Ph.D.,

Additional Dean of Women Students Dr. M. Beaula Ruby Kamalam M.Sc., M.Phil.,PGDCA., Ph.D.,

Additional Dean of Self – Financed

Programmes 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 (Interdsciplinary), 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

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

INTERNAL COMPLIANTS COMMITTEE

Dr.C.Dorothy Sheela Bursar & Associate Professor

Er.N.Thirupathirajan Associate Professor

Dr.J.Frank Ruben Jebaraj Associate Professor

Mr.S.Abraham Deivanayam Non Teaching Staff

Mr.Christopher Ponniah Ranjan Non Teaching Staff

Mr.Selvam Ramasamy Social Worker, Madurai.

Mr.S.Ulaganathan (20MCA15) Student Member

Ms.S.Kiruthika (20MBA206) Student Member

Mr.M.Bala Surya(20MBA218) Student Member

Dr. M. Davamani Christober Principal & Secretary The American College Madural-825 002

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
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

Principal & Secretary

Dr.C.Dorothy Sheela

Bursar

Dr.M.Lellis Thivagar

University Member

Dr.A.Joseph Thatheyus

Associate Professor

Dr.B.Aribabu

Assistant Professor

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

INTERNAL QUALITY ASSURANCE CELL 2021-22

Coordinator : Dr. K.Gnanasekar

Deputy Coordinators : 1. Dr. David Jebaraj

2. Dr. P.M. Anurama

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

: Dr. M. LellisThivagar

Management GC Member Chairperson, School of Mathematics

Madurai Kamaraj University, Madurai

Two Nominces from Employer/ 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

: 1) Mr. B. Immanuel Devaram - Entrepreneur

Fantasy Foods

32, B/1, Kambar Street

S.S Colony, Madurai - 625 010

2) Ms. I. Lydia Indra Priyadharsini

Vikatan

Sales Management, Madurai

6. Programmes

Name of programmes approved by AICTE	MCA
Name of programmes Accredited by NBA	
Status of Accreditation of the Courses	Approved
 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)	

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

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

N/	NAAC 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		







राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

Certificate of Accreditation

The Executive Committee of the Xational Assessment and Accreditation Council on the recommendation of the duly appointed Peer Jeam is pleased to declare the The American College (Autonomous) Tallakulam, Madurai, affiliated to Madurai Kamaraj University, Tamil Nadu as

Accredited with CSPA of 3.46 on four point scale

at A grade valid up to March 16, 2021

Date: March 17, 2016





BC(SC)/13/A&A/26.3



All India Council for Technical Education

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





APPROVAL PROCESS 2021-22

Extension of Approval (EoA)

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

Date: 01-Jul-2021

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, 825002	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 Note: This is a Computer generated Report. No signature is required.

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Important Instructions

- 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.
- 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 Complaint 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.
- 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
- The Registrar**,

Madurai Kamaraj University, Madurai

- The Principal / Director, THE AMERICAN COLLEGE Alagarkoi Road, Tallakullam, Madurai, Madurai, Tamii Nadu 825002
- The Secretary / Chairman, ALAGAKOIL ROAD, TALLAKULLAM MADURAI, MADURAI Tamii Nadu, 625002
- The Regional Officer, All India Council for Technical Education Shastri Bhawan 26, Haddows Road Chennai - 800 006, Tamil Nadu
- 6. Guard File(AICTE)

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

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Application No. 1-9317577016

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION Note: This is a Computer generated Report. No signature is required.

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Letter Printed On:27 September 2021

^{**} 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.

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/International Journals/ Conferences	
Master Projects(Completed/Ongoing)	
Ph.D. (Completed/Ongoing)	Completed
Projects Carried out by faculty	
Patents (Filed & Granted)	
Technology Transfer	
Research Publications (No. of papers published in National/International Journals/Conferences)	47
No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	Refer below

Title of the Book	Publisher	Year	ISBN Number
Concepts of Data Science using R	KanthagaPookkalpathippagam, Sivakasi, Tamilnadu	2021	978-93-80368-41-2
Applications of IT	Dr.D.Y.Patil Vidyapeeth, Pune	2020	978-93-90291-11-3
"Computers for Numing" - Text book for Dr. N.G.R. Medical University for the students of 2nd year 6:Sc Nursing	CSI JeyarajAnnapackiam College of Nursing, Madural	2011	•
"Concept mapping on Mathematics Education through CAI"	JGR Publications, Madural	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	2
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		
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	3
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	Α	
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.)	÷	



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

Work Experience

Teaching	25
Research	2
Industry	2
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)	(7)
Projects Carried out	100 Student Projects
Patents (Filed & Granted)	*
Technology Transfer	Λ
Research Publications (No.of papers published in National/International Journals/Conferences)	*
No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	ê



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

Work Experience

Teaching	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++, IAVA, 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	-	
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.)	*

9. Fee

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 Structure of Management Quota

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

				1600	160
2	Lab/ Computer fee	Rs.	15000	0	00
3	Special Lab fee	Rs.	1000	1000	100
4	Project & Viva	Rs.	1000	1000	100
5	Gasoline fees	Rs.	_	_	-
6	Deposit (Refundable)	Rs.	1000	_	_
	Special fees Total		23500	23500	23500
	Tuition fee (A/c No.496030879)				
1	,	Rs.	35000	3500	350
1	Tuition Fee		33000	0	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
5	Councelling & Guidance	Rs.	200	200	200
6	Souvenir (Calendar, Magazine, etc)	Rs.	200	200	200
7	PTA	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	Rs.	150	150	150
9	Candle Lighting	Rs.	-	-	150
10	English Text Book	Rs.	-	-	-
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 two years for admission under Management Quota and number admitted	2020 - Applications received — 117, admitted-23 2021- Applications received — 189, admitted - 21

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	03/08/2021
list shall be announced on the same day)	
Date for acceptance by the candidate (time	18/08/2021
given shall in no case be less than 15days)	
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

(3/001292/20, dux: 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.

Jeger 12000

மின்கர்கை கராம் மின்கர்களை கராம் REVENUE INSPECTOR KULAMANGALAM FIRKA, MADURAI NORTH.

ंड कामान क

வட்டாட்சியர் சதுரை வடக்கு ஒருகா

District Office, Fire & Rescue Services, Madurai District, Madurai.

LICENCE No: 157/2020 L.Dis No: 2301/D/2020 Date: 11.03,2020.

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

- 1) 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.
- House keeping should be provided entire building neat and clean.

Side set back area should be cleared.

Principal & Secretary he American College, Alagar Kovil Road, Goripalayam Madurai.

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.

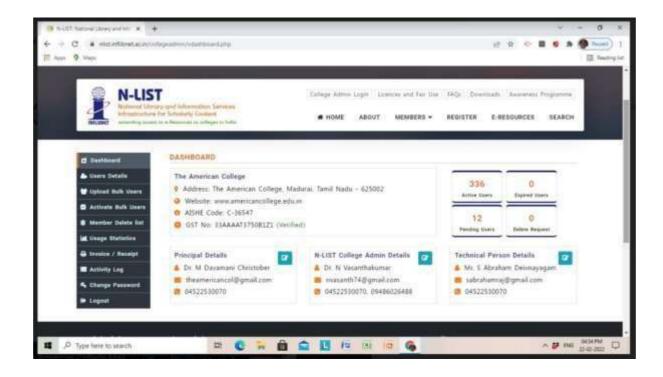
This NDLI Club Certificate of Registration is valid for 12 Month and will be renewed every 12 Month, subject to the NDLI Club of The American College conducting at least 6 reading/knowledge related Events and 4 Global Events conducted by others online within the next 12 months and at least 100 members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

#mail.google.com/mail/u/07ik=5d48f03f83&view=pt&search=all&permthid=thread-f%3A1696552035164998713&simpl=msg-f%3A169655203516... 1/2



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.

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

Courses	PSO									
	1	2	3	4	5	6	7	8	9	10
MCA 4655	✓	✓	✓	✓		✓	✓			
MCA 4457	✓	✓	✓	✓	✓	✓				
MCA 4459	✓	✓	✓	✓	✓			✓		
MCA 4661	✓	✓		✓	✓		✓		✓	
MCA 4663	✓	✓	✓	✓	✓				✓	
MCA 4465	✓	✓	✓	✓	✓	✓		✓		
MCA 4656	✓	✓	✓	✓		✓	✓			
MCA 4658	✓	✓	✓	✓		✓	✓			
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 Programme Outcome (POs) for Post graduation with MCA (PSOs)

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

MCA 4655 Mathematical Foundation for Computer Applications - 1 6Hrs / 6 Cr

Objective

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 10hrs

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

Unit 2: Graph 14hrs

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

Unit 3: Automata 12hrs

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

Unit 4: Linear Equations

12hrs

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 12hrs

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

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	

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 12hrs

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

10hrs

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

14hrs

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 14hrs

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

10hrs

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

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

Unit 1: Digital System Concepts

10hrs

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

10hrs

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

15hrs

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

10hrs

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

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				

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

Unit 1: Introduction 15hrs

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

20hrs

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 Calls and its types- Operating System Design and Implementation-Virtual Machines- Operating System Generation-System Boot.

Unit 3: Concurrency and Scheduling

15hrs

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

20hrs

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

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	К3	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

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

Unit 1: Web Basics and HTML

20hrs

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

15hrs

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

Unit 3: XML 15hrs

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 20hrs

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.

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

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

15hrs

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

20hrs

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

20hrs

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

Unit 4: Transportation Problem

15hrs

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

Unit 5: Queuing Models

20hrs

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

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
CO1	1					
CO2		2				
CO3		2	3			
CO4				4	5	
CO5						6

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 16hrs

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

14hrs

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 15hrs

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

14hrs

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.

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 problem-backtracking.

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
CO1	1					
CO2		2	3			
CO3			3			
CO4				4		
CO5					5	

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

15hrs

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

Unit 2: Introduction to RDBMS

20hrs

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

Unit 3: PL/SQL 20hrs

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

Unit 4: Data Management

20hrs

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

Unit 5: Introduction to Advanced Database Systems

15hrs

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, 6^{th} Edition, 2010.

- 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	К3	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
- iv. Exploring advanced micro processor
- v. Knowledge up gradation on recent trends in digital design for embedded systems

Unit 1: Microcomputer Architecture

15hrs

Microcomputer architecture- The IntelCPU's-8086/8088 CPU components: Bus interface unit-execution 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

10hrs

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 15hrs

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, access-time, validating the contents of memory-Basic peripherals: parallel ports, timers, clocks

Unit 4: Microprocessor and Controller

10hrs

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 10hrs

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.

- 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

15hrs

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

15hrs

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

10hrs

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

10hrs

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

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	K 1	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
- ii. Explain the modules and its features.
- iii. Illustrate different type of analytic
- iv. Ability to done testing ,GUI and script
- v. Describe the Data Science by analysis and visualize

Unit 1: Python Basics

15hrs

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

Unit 2: Modules 20hrs

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

Unit 3: Data Science Skills

15hrs

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 20hrs

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

20hrs

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

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. www.learnpython.org
- 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

15hrs

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

15hrs

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

15hrs

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.

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	

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

15hrs

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

15hrs

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

15hrs

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.

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

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 20hrs

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

15hrs

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

20hrs

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

15hrs

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

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	

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

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

10hrs

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.

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

15hrs

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

15hrs

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

15hrs

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

15hrs

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.

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

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

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

Unit 1: Introduction to Soft Computing

10hrs

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

Unit 2: Fuzzy Set 10hrs

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 15hrs

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 15hrs

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

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						

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

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	К3	K4	K5	K6
CO1	1					
CO2						6
CO3					5	
CO4			3			
CO5						6

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

15hrs

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

Unit 2: Android Architecture

10hrs

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

Unit 3: Controls 10hrs

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 10hrs

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

Unit 5: Viewing 15hrs

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.

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	K 1	K2	K3	K4	K5	K6
CO1	1					
CO2		2				
CO3			3	4		
CO4					5	
CO5						

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

12hrs

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

13hrs

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

13hrs

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

11hrs

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

11hrs

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.

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

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

10hrs

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

15hrs

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

15hrs

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 10hrs

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 10hrs

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

 $with \ other \ primitives - Adding \ Surface \ texture - Reflections \ and \ Transparency - Boolean \ operations \ on \ Objects$

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	

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

Unit 1: Big Data in the Enterprise

10hrs

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

10hrs

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

15hrs

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.

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 10hrs

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.

- 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

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 10hrs

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

15hrs

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 10hrs

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

15hrs

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 10hrs

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

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	

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.

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 15hrs

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 15hrs

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 10 hrs

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

Unit 4: Symbol 10 hrs

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

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
- 2. V. Raghavan, Principles of Compiler Design||, Tata McGraw Hill Education Publishers, 2010

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

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

Unit 1: Introduction 14hrs

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 12 hrs

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 10hrs

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

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

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 10hrs

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 15hrs

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 15hrs

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-

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 ORDER	WORKING
1	SAT	New Year		
2	SUN	Even Semester begins		
3	MON		11	81
4	TUE		ш	82
5	WED	II 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	and and the subscript and the		
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

----- Calendar 2021 - 22



		FEBRUARY 2022	30V	SV.
DATE	DAY	3370 301710.	DAY	WORKING
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			
16	WED	Even Semester Begins	1	1
17	THU		11	2
18	FRI		III	3
19	SAT		IV	4
20	SUN			
21	MON		V	5
22	TUE		VI	6
23	WED		1	7
24	THU		П	8
25	FRI		111	9
26	SAT		IV	10
27	SUN			
28	MON		v	- 11

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- Calendar 2021 - 22

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



		MARCH 2022	20	
DATE	DAY		ORDER	WORKING
1	TUE		VI	12
2	WED	Ash Wednesday	1	13
3	THU		П	14
4	FRI		III	15
5	SAT		IV	16
6	SUN			
7	MON		V	17
8	TUE		VI	18
9	WED		1	19
10	THU		Ш	20
11	FRI	Sports Day	III	21
12	SAT		IV	22
13	SUN			
14	MON		V	23
15	TUE		VI	24
16	WED		1	25
17	THU		н	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		1	37
31	THU		11	38

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

= Calendar 2021 - 22



		APRIL 2022	W 3.50	ya
DATE	DAY		DAY	WORKING
1	FRI		III	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	20	1	43
8	FRI		- 11	44
9	SAT			
10	SUN	Palm Sunday	132	
11	MON		III	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		Ш	51
22	FRI		IV	52
23	SAT	College Day	V	53
24	SUN			
25	MON		VI	54
26	TUE		1	55
27	WED		н	56
28	THU		III	57
29	FRI		IV	58
30	SAT		V	59

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

- Calendar 2021 - 22



		MAY 2022		J
DATE	DAY		ORDER	WORKING
1	SUN	May Day		
2	MON		VI	60
3	TUE	Ramzan		
4	WED		1	61
5	THU		н	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		11	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		1	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		T.	79
28	SAT			
29	SUN			
30	MON		11	80
31	TUE		III	81

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

----- Calendar 2021 - 22



		JUNE 2022	12	50
DATE	DAY		DAY	WORKING
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	Ш	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			
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
1100	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	МСА 5460 ЛК1	MCA 5558 NG I	MCA 5964 CJ 1
- 10			77	117	13	7
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	IMCA	MCA 4466 LAB 1 NG	MCA 4466 LAB 2 NG	MCA 4656 NTR 3	MCA 4664 JFR 2	MCA 4660 RJ
	IIMCA	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
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
D5	HMCA	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 2
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

THE AMERICAN COLLEGE 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			

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







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 College. M. Davamani Christober
Principal & Secretary
The American College
The American College

Madural-625 002

Authorised Signatory

Date:

Witnesses:

1. 6/m

BURSAR THE AMERICAN COLLEGE

MADURAL

Er. N. THIRUPATHIRALLY.
M.Sc., M. Polit. PGD JA, M. Tech. Director - Incharg) Dept of MCA

The American College, Madural 3

Agreed on behalf of

Sysfore Technologies Pvt. Ltd.

Authorised Signatory

Date: 20.2. 2016

BANGALORE



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M. நாஜமோகன் டும் சின்றத்தின் விற்படையாக சுவைப்பர்ஆடுள் தொடு RC, 6246 / C2 / 93

Memorandum of Understanding (MoU) for Research and Academic Co-operation

between

The American College (Autonomous),

Affiliated to Madurai Kamaraj University,

Madurai - 625 002

and

M/S RheinBrucke IT Consulting

Chennai - 600 032

This Mamorandum 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.

H@dev_

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.
- 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, Chennai, second party venue and Selected students can work as a Data Analyst, Business Analyst, Digital Marketing Analyst, 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.
- To Invite the experts from RheinBrucke IT Coossilting, 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 say imbulance.

Student Exchanges

The American College 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, Chennat agree to identify and invitefaculty members from other institutions to participate in conferences, workshops and short-term 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.

Law

20

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 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 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, Chennal 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

RheinBrucke IT Consulting, Chennai and 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 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 modia.

media.	
The legal dispute of this Memorandum of Unders	tanding will be at the jurisdiction of Tamiliaadu, day of 1 y in the year 1010 .
Agreed on behalf of The American College, Madurai	Agreed on behalf of RheinBrucke IT Consulting, Chennai - 600 032
Authorised Signatory	Authorised Signatory
Seal: Dr. M. DAVAMANICHRISTOBER Prinches & Secretary The American College Date: Matural-625 002	Seal:
Witnesses: 1. C.D. Bulleton	Witnesses:
THE AMERICAN COLLEGE MADURA 2 N. Madura [Dr. N. Paura Shabran Tonnean]	Channel 32 is
The American College	•

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:
 - 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: as@ureka.co.uk Telephone: +971 4 501 3917
- Dr. M. Davamani Christober, Principal & Secretary, The American College, Alagar Kovil Road, Goripalayam, Madurai-625002. Tamil Nadu, India. Email: principal@americancollege.edu.in Mobile: +91 9894114455

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.

Ver 2020

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

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



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Memorandum of Understanding (MoU) for Research and Academic Co-operation

between

The American College (Autonomous), Affiliated to Madurai Kamaraj University, Madurai - 625 002

and

Winways Systems Private Limited No-34c, Hakim Ajmal Khan Rd, Chinna Chokikulam, Madurai - 625002

This Memorandum of Understanding has been agreed to between The American College (Autonomous), Tallakulam, Madurai – 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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Plunger

The Assertion 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 Ajmel Khan Rd, Chinna Chokikulien, Madurai witness as under:

- To exchange information on local demand and Commercial opportunity and educational programmes.
- To exchange information on teaching and learning materials relevant to their education and research programmes.
- To jointly organize short-term training programmes on topics of mutual interest and to invite each other's faculty/ staff to purticipate 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 interaship in Winways Systems Private Limited, Madural, second party venue and Selected students can work as a Data Analyst, Business 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 intereship, 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, Madural agree to identify and invite faculty members from other institutions to participate in conferences, workshops and short-term 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 may be continued thereafter after suitable roview 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, 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.

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 Winways 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 College and Winways Systems Private Limited, Madural agree to respect each other's rights to Intelloctual 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

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 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 Winways Systems Private Limited, Madural and Principal & Secretary, The American College prior to the appearance in the media.

The legal dispute of this Memorandum of Under Signed at Householder on the	rstanding will be at the jurisdiction of Tamilnadu. day of the jear to the je
Agreed on behalf of The American College, Madural	Agreed on behalf of Winways Systems Private Limited, Madurai
SC 98077 7	Dhenn I

Welve Authorised Signatory

Seal: Dr. St. OANAMAN CHRISTOBER
Prompol & Secretary
The American College
Date: Madure-625 962

Authorised Signatory

Seal: Winways Systems Private Limited No. 960

Madurai-625 862.

C. D. Sing MADERAL-625 003.

2 n. Glado [an N Rama Shabnam Passeen] Assistant Professor, The American College

Witnesses:

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Head Direct Soles Wings Octors Publis Media - 625 00



Madurai - 625 002

and

Premier Systems & Peripherals

153 L. North Veli Street, Simmakal, Madurai- 625 001

This Memorandum of Understanding has been agreed to between The American College (Autopomous). Tallakulam, Madural — 625 002, hereinafter called First Party and K.Senthilnathan, Premier Systems & Peripherals, 153 L. North Veli Street, Simmakal, Madurai-625 00) berein after called Second Party for Academic Co-operation, Research and Placement.

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tun Tother

The American College and Premier Systems & Peripherals, 153 L, North Vell 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 tie-up.

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

- a) To exchange information on local demand and Commercial opportunity and educational programmes.
- To exchange information on teaching and learning materials relevant to their education and research programmes.
- 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 interrobip 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 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 interasting, 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 Premier Systems & Peripherals, 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 Premier Systems & Perigherals, 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 Premier Systems & Peripherals, Madural agree to identify and invite faculty members from other institutions to participate in conferences, workshops and short-term 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.

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 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 to Premier Systems & Peripherals, Madurai and Principal & Socretary 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 Premier Systems & Peripherals, Medural 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 Collage and Premier Systems & Peripherals, Madural 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-by-case 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, Simmakel. Madural and The American Collage 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 acyte 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 to the media.

Signed at Landown on the 17 th day	
	greed on behalf of Premier Systems Peripherals, Madural
Authorised Signatory Dr. M. DAYANANI CHRISTOBER Principal & Secretary The American College	Authorised Soustory
Seal:	Seal: PREISE
Date 14 June 1010	Date:
t. c.o. vi-ti-	1. Jan
MADURAL-228 CO2.	bromier 243 sewly been
2 N. Malor	2 Sall
Assistant Revolution	Support Enginees Premies Systems & Perliphent
Assistant Perolesson, The American Callige	Perl show

Year Ended March 31, 2018	EXPENDITURE	Year Ended	Trac Ended		
Staren 31, 2018	TO	March 31, 2019	March 31,	ASSET LANGE	Marry In the
	EDUCATIONAL Expenses			BY	The second second
805,000	Affillistion Fee - Mkn	200 000 00	1000000000	COURSE FEE RECEIVED	The second
12,000	B.Sc., (Maths)	300,000.00	14,748,141	Course Fees By challen	20,167,814.0
12,000	Conference Exps.	80,200.00	1,350,850	Sale of Application	1,758,200.0
	Fees Refund	11,000.00		OTHER INCOME	
5,000	Maths Dept.,	11,000.00	34,636	Bank interest	
36,000	MBA Expenses	231	21,320	Interest on FD	154,128.0
102,735	Physical Education -Expenses	149,900.00	41,320	Tennis ground Fee	56,000.0
1,100	Physics Dept.,	1-07,5000.00		Conference-Emerging trends in	30,000,0
5,000	5594375055901E-1	- 20	1,700,000	Multydisciplinery research	
90.570	Printing & Stationery	58,105.00	14100,000	many savipulery research	1.00
-	R.O.PlantExpenses	3,750.00			
7,500	Salary	10,594,328.00			
431,444	Vechicle Maintenance	69,620.00			
	Audit Fees	150,000.00			12.5
1,716	Bank Charges	3,300.49			
2.5	Books & Journals	9,000.00			
	Cleaning Materials	11,565.00			
76,400	Computer Accesseries-Expenses	25,000.00			1
15,117	DTH Maintenance	7,000.00			1
200	Driver Batta	2,596.00			
	Entrance Fee & Recognition Fee -2018-19	780,425.00			1
100	Furniture Maintenance- General	8,858.00			
5000	Gifts	123,621.00			1
37,990	Insurance - TN59 BD 1881	36,241.00			
150,000	LegalExpenses	75,000.00			
59,000	Membership Subscription	29,500.00			
55,000	Misc.Expenses	35,388.00			
	MomentoExpenses	15,678.00			
	Postage Exps.,	10,000.00			
292,845	Refreshment Expenses	311,290.00			
***	Remuneration	2,000.00			100
333,937	Repairs&Maintenance	200 May 200 Ma	- 1		
1,849,800	Retrent Expenses	6,560.00			
409,730	Retreat Expenses., Non-Teaching	2043			
-	Transport Charges	220.00		79	
4,776,984	Carried Over	12,830,145.49	17,854,947	Carried Over	22,285,936,2



AND DESIGNATION AND DESIGNATIONS	The second second				
INCOME	CENTRES.	The second	THE REAL PROPERTY.	KCOT	

Year Ended	EXPENDITURE	Year Ended	Year Ended March 31.	INCOME	March 31, 2019
March 31, 2018		March 31, 2019	17.854,947	Brought Forward	22,285,936.20
4,776,984	Brought Forward	12,838,145.49	17,854,347	Plankin Lotward	- sajaoujo poise
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			
129,051	Electrical materials	7/2			
60,000	Fountain & Planting Exp	108			
35,000	Meeting Expenses	28,500,00			
43,850	Electrical Equipment Maintenance	12			
146,660	Garden Maintenance	135			-1
27,080	Souvenir Expenses				
101,200	Inspection Expenses - New Courses	15,000.00			
6,718	Xerox Expenses - Audit Report				
450	Short Credit in Bank Entry				
3,000	Food Science	10 62			
IITMS60-	Conference-Emerging trends in	10 TH			
1,660,000	Multydisplinery research	A0000000000000000000000000000000000000			
	International Conference Exps.,	479,045.00			
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

PLACE: MADURAI DATE: 27.09.2019

1- Why

Dr. M. DAVAMANI CHRISTOBER Dv. C. DOROTHY SHEELA PRINCIPAL & SECRETARY The American College Madurni - 625 002

C.D Krong.

BURSAR The American College Madarai - 625 002 As per our Report of Even Date
For MANOHAR CHOWDHRY & ASSOCIATES
CHARTERED ACCOUNTANTS
Firm Registration No.001997S

HOWDHRY

000

Partner I Daniel Selvaral M.No.200322

I. DANIEL SELVARAJ Partner Membership No.200322

Year ended arch 31, 2018	EXPENDITION		The State of		
. т	O DEPARTMENTWISE EXPENSES Visual Communication Conference-Emerging Trends in Multidisciplinary	104,233.00 40,818,918.00 75,023.60 2,972.68 6,214,896.00 601,537.00 1,012,308.00 100,422.80	46,091,063 60,071 281,792 20,000 100 30,700	Salary Recovered Bank Interest FD Interest Retreat Recovery Contribution for Global Service -Sales X-Max Dinner Contribution Misc income Salary Recovered-LLP	38,918 00 718,987,30 671,898,80 256,350,00 27,372,00 115,997,00
1,173,709 97,440 7,830 745,305 60,000 191,000 916 - 610,602 1,643,964	Section Assets Building Maintainance Medical Staff Repairs and Maintainance Cleaning Charges - Toilet(Outsoecod) Stadents Intenship training Retriest recovery Staff webfane expenses Salary Recovered - LLP Driver batts Travel expenses To Depreciation To Excess of Income Over Expenditure	85,321.00 24,300.00 924,682.00 105,918.00 195,000.00 2,850.00 93,965.00 1,583,271.00 10,765,990.08	200		
46,483,726	TOTAL	63,713,322.16	46,483,726	TOTAL	63,713,322

PLACE: MADURAI DATE: 27.09.2019

Haler_

Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College Madurai - 625 002 Dr. C. DOROTHY SHEELA BURSAR The American College Madurm - 825 002 As per our Report of Even Date
For MANOHAR CHOWDHRY & ASSOCIATES
CHARTERED ACCOUNTANTS
Kimm Registration No. 0019978

I Daniel Selvarai C I, DANIEL SELVARAJ Partner Membership No. 200322

March 31, 20		Year ended March 31, 2019	Year ended Marri 31, 2018	INCOME	Test miles)
	To Educational Expenses		111000000		31, 201
5,388,18	2 Silary	5,982,448.25	440.000	To Educational Income	
677,56	7 Course Fee Refund	190,758.00	278,250		1,598,0
47,69	2 Honorarium		19,624,488	Course fees collected by challans	13,953,0
	EPF Expenses	344,250.00	226,860	Course fees	285,8
17 72	Charlest Rub Data - m care - care	639.00	743	Application fees	
- 3	Student Subscribtion Fee (AJACHE)	20,651.00	12		292,0
1000	Affliation Fee -University	39,500,00	1 3	Staff Retreat Adv Deducation	3,441,8
63,52		114,405.00	200		> 5000000
370,00	Adventisement Expenses		400	Exam Pine Amount	
510,63	IB Charges	251,213.00	* 1	Take commence process.	
125,06		688,515.00	*	Other Income	2,5
		41,290.00	- 2	Tancet Admission Fee CBE16-17	2,3
53,62		57,900.00	22	Scrap Sales	185
67,930		84,177.00	0.000		3,3
182,000	Prize & Oiff Exprises		95,900	Sale of Application Forms	
229,100	Remuneration	22,650.00	6,000	Hall Booking	5,00
459,493	Sacrada Carrier Character	198,356.00	(*)		100000
		494,700.00	67,000	Tancet Admission Fees CBE 16-17	10
*	Faculty Enrichment Programmie	9,810.00	Eigen	saver virtuining toss CHF 19-11.	
*	Acedemic Council Expense	1,000,00	38,603	SINCE	
10,560	AICTE Expense			Bank Interest	58,75
	Application Fee Refund	75,023.60	8,000	Bus Rental Income	12,15
3,911		30,073,00	21,283	FD Interest - Indian Bank	482,71
	The state of the s	8,173.15	166,886	FD Interest	404,/1
	Dus Fees Refund	25,000.00	64,800	Conference D. A. and	12.5
777	Fuel Expenses -Elux	123,201.00	420	Conference Deduction	49,50
183,160	Intumnce-Bus	182,588.00	0.420	Exam External	
223,443	Telephone & Internet Exp	102,388,00	- 1	- maconage	
1705	Territredu Labour & Transport	tipeges 7/4 i			
1,950	Continuous Canour & Transport	9,918.00			
	Property Tax	44,700.00			
45,949	Repair & Maintenance	146,655.00			
5,040	Award Committee Expenses	N			
100	Cable Trench & Transformer		1		
3,139,188	Connection and electrical materials				
	Constitution and electrical materials	489,690.00			
4,000	Contingency expense	7,000.00			
4,000	Dept Contingency Expense	2,000,00			
8,000	Exam Contingengy Expense			1	
191,401	Telephone Expense	6,000.00			
17,140		385,206.00			
	Batta - Driver	57,718.00			
270,000	Caution Deposit Refund - MBA	2-13-00-01-0			
7,950	Chair Maintenance	55,525.00			
35,724	Chalk & Notice Board	999,000,000			
6,000	Chiristmas Gift - Stoff	Name of the last			
5,004		21,000.00	- 4		
	College Maintenance	41,880,00			
19,350	Computer Comumables	\$1,345.00			
22,460	Computer Maintenance	225			
400	Conveyance	440.00		1	
4,971		648.00			
	Exam Refreshment Expenses	12,178.00			
2,400	Field trip bus exp				
8,500	Field trip bus RTO exp	92			
1,200	Fish Aquanum	8			
1,190,000	Fuel Expenses - Petro Card	1.686.000.00			
23,000	Honey bee -Box Expense	1,586,199:00			
		10 mar 1 m			
50,579	Bus F C Expenses	119,335.00			
9,000	Field Trip Expenses	10,500.00			
270,583	Hostel Repairs & Maintenance	2.000			
155,478	Hostel - Telfer Mook Name Board	5.0			
5,175	Interest Main Co.				
	Innaugnal - Main Gate	-			
40,200	Main - Safety Certificate				
8,532	Newspaper & Periodicals	8,114.00			
6,600	Printer Maintenance				
2,000		45,252.00			
	Printing & Xerox	13,263.00			
69,410	Property tax	79,860.00			
89,723	Repairs & Maintenance	163,210.00			
356,088	Repairs & Maintenance -Main Building				
111,982	Repairs & Maintenance -Main	161,736.00			
785,160	CARDON OLORS	29,400.00		and the second s	
	CARRIED OVER	12,525,663.00	20,598,890	CARRIED OVER 2	0,184,627,0



Year ended March 31, 2018	EXPENDITURE	Year ended March 31, 2019	Year ended March 31, 2018	INCOME	True main 102
14,785,160	BROUGHT FORWARD	12,525,663.00	20,598,890	BROUGHT FORWARD	20,184,627.0
2,459		3,560,00	20,000,000	MOUGHI PORWAND	49,164,027.0
13,395					
1,350		1923	I .		
26,613					
139,923		1	1		1
320,129		238,801.00			
9,250		***	1		1
65,250		71,000.00			
7,500		12,500.00			
35	Computer & Accessories	31,189.00			
	Furniture Maintenance	7,800,00			1
146,652		471,661.00			1
A	College Name Board	2,500.00			
266,318		578,917.00			
582,042	Other Expenditure	6,635.00			
382,042	Buil Main-Ryarson Gate - Main Gate	3			
24,473	Borowell Maintenance	42,052.00			
49,972	Cleaning material expenses	24,248,00			
- 1	Miscellaneous exp	23,500.00			1
1,200	Incidental Charges	57,000,00	- 10		1
23,958	Forwarding Charge Garden Maintenance	2000			0 0
23,930	Insurance Maruthi Omni TNS9AD 941.	7,861.00	7		
	LTCT Cable Leying Exp	7,484.00			
22,000	Remuneration - Extra work	247,000.00			
49,450	Electrical Maintenance	8,000.00			
200	Travell Allowance	55,250.00			1
200	Play Ground Sports & Material	4,500.00			1
81	Printing A/c	27,794.00			
20	Projector Service	9,440.00			
	Society Registration-Renewal	21,300.00	0		
233	Sports Material Psychase	7,616.00	J) [1		
	Staff Welfare	1,000.00			
3,096,250	To Depreciation	3,880,564.17			
10000000000	To Excess of Income over				
1,015,326	Expenditure	1,793,883.83			
0.598,890	Total	20,184,627,00	20,598,890	Total	20,184,627,00

PLACE: MADURAI Date: 27,09,2019

HOW.

Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College Madurni - 625 002 e.p. Hade ..

Dr. C. DOROTHY SHEELA BURSAR The American College Madurai - 625 002

for MANOHAR CHOWDHRY & ASSOCIATES
HARTERED ACCOUNTANTS
Firm Registration No.0019978

I Daniel Scharzi M.No. 200322

PERIO MEGO

LDANIEL SELVARAJ PARTNER Membership No.200322 Self Finance Non Salary Account

Year ended March 31, 2018	EXPENDITURE	Year roded March 31, 2019	Year ended March 31, 2018	INCOME	Year ended Marc 31, 2019
	To Educational Expenses			5250	
3,203,703	Building Maintenance	6,852,661.00	12,715,956	By Educational Income	
2,070	Bio-Chemistry Dept	4,004,004,00	14,713,930	Fees collection	16,130,197.00
2,161,500		15,493,180.00		By Other Income	-
129,000 293,250		September 1900	22,555	Bank Interest	TO KANDOON
735,294		605,433.00	2000000	FD Interest	108,265.00
50,640		\$2,260.00	2,920	Faculty Devlepment Programme Sale of old news paper	548,821,00 4,847.00
	To Indirect Expenses		4	The control of the said of the	
402,187	Advt., Exps.,			" Excess of Expenditure over income	11,820,209.80
5,019	Bank Charges	3,086.00			2.33513325493
202,522	Ctriender2017-2018	2,000,00	14		
20,500	College day exp				
235,690	college Magazine	2.1			
24,620	Door mat &rell mac	2.1			
61,975	E.B.Exps.,	66,954.00			
	Electrical Cable work	152,000.00			
369,592	Electrical Materials	181,234.00			
1,500	Faculty development programme	101900000	- 1		
78,172	Furniture Maintenance	57,280.00			
37,496	Furniture Materials	14,954.00	- 1		
319,464	Garden Maintenance	399,681.00	- 1		
17,418	Souvenir	5363555			
106,733	ID Cant Holder with Rope	361,670.00	- 1		1
19,425	Printing and stationary				1
1,441	Refireshment exp	3,086.80	1		
225,873	Repairs&Maintenance	56,604.00			
14,500	Telephone Exp	0.03502505			1
	Lab consumables Food Science	239,300.00			1
- 33	Meeting Expenses	10,000,00			
8	Misc.Exps.,	19,300.00	- 11 Y		
-	Tonor Refiling charges	2,250.00	1		
	Donation to MR. School	500,000.00			
1,100	Travel Exps.,	15,510.00			
e0 031	To Physical Education				1
158,872	A Zone inter Zone Tournament	142,835.00			
99,370	Hockey Tournament Exp	143,077.00		13	1
	Inter Collegiate Tournament	55,457.00	- 10	1	
10,800	Outstation Tournaments(DA & TA.) Food ball tournaments	41,700.00			
		**			
	Hand ball tournaments Uniform Exp	13,300.00			
	Volley ball Toornament	suevate.			
28,200	Atheletic MKU interzone	120,838.00			
	Sports Day exp	117,100.00			
	Sports materials	152,202.00			
		392,943.00			100
	Printing & Stationery	300			
	Printer & Service Repairs & Maintenance	17,750.00			
91,854	To depreciation	7,228,694.00			
		-07.0386-5000			
11.45.44	Excess of Income Over Expenditure	•			
41,431	TOTAL	28,712,339.80 1			

DATE | 27.09.2019

Haley_

Dr. M. BAVAMANI CHRISTOBER
PRINCIPAL & SECRETARY
The American College
Madzen - 625 002

0.p. Hely.

Dr. C. DOROTHY SHEELA BURSAR The American College Mackeni - 625 002

As per our report of even date for MANORAR CHOWDHRY & ASSOCIATES CHARTERED ACCOUNTANTS Firm Registration No.0019978

HOWDHAY I Daniel Selvaraj M.No.200322

LDANIEL SELVARAJ Partner Membership No.200322

ented	RECEIPTS	Annel	Year ended March 31, 2819	Year eated March 31, 2018	PAYMENTS		aren 31, 2017
31, 2018			Partition Land		By Educational Expenses	C 2000 AND 100	
	o Opening Bylance	5000000		3,200,703	Building Maintenance	6,852,661.00	- 10
Ba 155 H	IDEC All No.50100113759713	45,964.92	T\$,456.03	2,010	Bio-Chemistry Dept	15,493,580.00	711
11,000 (1	ndian Bank A/6 No.6325921789	- 124,461.00	100000	3,161,500	Sulfring construction	TO/40012 money	
	To Educational Income	COMPRISORS IN	Central	129,000 295,190	Cash Award to sports students Printing and trationary	635,433.00	- 1
715,956	Feei collection	16,138,197.68	16,130,197.00	735,294	Electric materials Water Charges	\$2,260,00	25,005,534.00
1	To Other Issues	108,265.00	-	50,640	The State of the same of the s		
23,355	Bank Isourest	845,821.00		2350	By Indirect Expenses	90	
4)	FD Interest	4,547,00		432,187	Adve., Exps.,	3,086.00	
A.	Faculty Devlopment Programme	-	761,933.00	5,019	Bank Charges Calender 2017-2018	-	1
2,933	Sale of old never paper			202,922		-	
	41			20,500		*	
	To Sateronia transfera			231,690		*2.4	
400,000	Satellita A South	4,000,000,00			E.B. Freek	66,954.00	
2,901,497	SF Spl Feet XVIII	4,100,000:00		369,597	Elaptrical Magnists	191,234.00	
3,200,000	ST XVIII ST Exam Fees	2,100,000.00	1	2007	Electrical Cable work	130,000,000	
	Shops & Office	200,000.00	1	1,500	Faculty development programme	57,280.00	
. *	Great is aid	200,000.00	21	38,177	Forniture Maintenance	14,954.00	
0.00	SF VIII	500,000.00	2]	37,89	Furniture Materials	529,681.00	
1,200,000	Hostel .	6,602,000.0		All market trees		220,041.00	
1,100,000	Management	1,300,000,0	Talvarian.	17,41	No contact to	361,670.00	11
66,608	A.3002000		1	106,75	(3) Card Histoir with Rope	SAFERIN	D
				19,42	Printing and stationary	3,046.80	M M
	To Laura and Advances		0	1,44		16,604.00	
2,012,478	Loan & Advances	14,472,280.0	0	225,87) Repairsh Maintenance	32004	VI (i)
51,218	TDS deducted	162,458.0	**	14,80	Tylephone Bxp Lab consumables Food Science	229,300.00	
9)7,523	923s Receivable	495,000.5	15,129,748.0	0.		10,000,00	
644,294		493,000			Meeting Experient	19,200.00	D 93
Market Co.	1				Misc Expt., Tour Refling sharpes	2,250.00	n
	To Fixed deposit		5,000,000.0	0	Denation to MR, School	500,000.00	2,282,908.80
	Pd resewal	1	100000	300		15,510,00	2,282,700.50
	TOUR TOUR			361		The Constant	
	1			To 2000	Dy Physical Education A Zone Star Zone Toursament	142,835.00	
				158,8		143,077.00	
		1		128,4		55,457.00	1
	1			993		TA 3 41,200.00	1
				62,5			l.
				503	00 Food has tournaments	13,300.00	1
			1	10000		100000	1
				107,		120,838.00	
				28,		117,100.00	1
				114		152,202.00	
	1			422	you Secreta meterials	392,943,00	1
	4	- 1			320 Printing & Stationery	(2)	- 33110
					man Brinster & Service	17,750,0	1,197,202.0
	1		1	185	850 Repoirt & Maintenance	31424000	20000000
		10			By Lones and Advances	14,710,780.0	0
		70		2,003	175 Leans & Advances	110,000,0	0
				544	164 Sondry Creditors	107,205,0	
					441 TDS conditione	34,955.0	0
				14 62	LD2 tecepatrie	820.3	15,203,940.0
				913	523 Bifa Fujeble		
				196	By later Unit Transfer	1,500,000	00
					Stored A/c	500,000	00
					Management II A/c	300,000	00
		10			SE XVIII	1,300,000	
		10.		la la	SF Spi Fees A/c No.XVII	500,000	00
		1/			5 St VIII	100,000	65 4,600,800
					- C - C - C - C - C - C - C - C - C - C	VEH L	
				100	By Capital Expenses Furniture and Fatings [Chair	m and 2,150,000	.00
	1			6,3	Table()	479 951	09010
				1000	MALL New Infrastructure Counties	136,500	700
				- 10	Computer & Accesseries	572,500	160
				17.6	11 750 CCTV carners	315,000	
					13,715 Electrical equipment	202300	
	4			700	To Investments OC 000 FD -Indian bank - recessed	5,613,89	1,613,86
				5,0	well to the second seco		
						STATE STATES	e elect
					By Charles Balance	10,88k III	104
			1				0.00 410.59
		-		1 2	45.963 HDFC AV No. 5010011375 124.461 Judise Bank Ale No.63398 165,227 TDTAL	21789 - 57,84	9.00 410.36 25.343.36 out report of even

26,385,227 PLACE: MADURAL DATE: 27,09,2019

De. M. DAVAMANI CERRISTORER PRINCIPAL & SECRETARY THA American Cyling Michril - 635 022

C. D. Kreek "

De, C. DOROTHY SHEELA BURSAR The Americin Coffage Madural - 625 002

As yet our report of even date
for MANOBAR CHOWDERY & ASSOCIATES
CHARTISED ACCOUNTANTS
Fren Registration No.0019975

Painth Danisl Salvaral M Mor200322

LDANIEL SELVARAJ Pariner Mambership No 200322

DOCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED INT MARCH III

PREVIOUS YEAR ENDED 31-03-2019	EXPENDITURE	FOR THE YEAR ENDED 31-03-2828	PREVIOUS YEAR ENDED 31-03-2019	INCOME	FOR THE YEAR ENDED 31-03-2020
A79C04C9C9C4CF671	TO EDUCATIONAL EXPENSES	3,89,400.00	2.01,67,814	BY COURSE FEE RECEIVED Course Fees By challan	2,20,17,479.00
3,00,000	Affilliation Fee - Mks	3,89,400.00	17,58,200	Sale of Application	2000 100 100 100 100 100 100 100 100 100
80,200	Conference Exps.,	2,72,428.00	17,50,200	Care in repair	
11,000	Fees Refund	29,500,00		BY OTHER INCOME	· warness
100/00 0 00	ICTACT - Membership Fee	2,60,095.00	1,54,128	Bank interest	15,389.00
1,49,900	Physical Education - Expenses	2,00,015.00	1,49,794	Interest on FD	1,38,896.00
58,105	Printing & Stationery		56,000	Tennis ground Fee	230
3,750	R,O.PlantExpenses	0.10.42.420.00	20,000	International Conf Hindi Dept	28,900.00
1,05,94,328	Salary	2,19,43,439.00		Regn. Fee	54,000.00
69,620	Vechicle Maintenanon	1,69,315.00	= 07	11.00	0.0
1,50,000	Audit Fees	1,184.46			
3,300	Bank Charges	1,184.40		By Excess of Expenditure	
9,000	Books & Journals			over income	79,41,124.42
11,565	Cleaning Materials			aver mionic	0.0000000000000000000000000000000000000
25,000	Computer Accesseries-Expenses	10,000.00			
7,000	DTH Maintenance	19,613.00		134	
2,596	Driver Batta	73 Y Y Y Y Y Y Y Y			
7,00,425	Entrance Fee & Recog. Fee -2019-20	8,12,445.00			
8,858	Furniture Maintenance- General	- 55			
1,23,621	Giffs	2400000000			
36,241	Insurance - TN59 BD 1881	20,342.00			
75,000	LegalExpenses	55,000.00			
29,500	Membership Subscription	34,838.00	1.		
35,388	Misc.Expenses		N sec		
15,678	MomentoExpenses				
10,000	Postage Exps.,				
3,11,290	Refreshment Expenses	2,29,701,00			
2,000	Remuneration	2,11,000.00			
0,000	Repairs&Maintenance	50,300.00			
6.560	Retreat Expenses	1,85,564.00		W 40 60	
0,000	Retreat Expenses, Non-Teaching	*	100		
220	Transport Charges		100 %		
220	Electrical Work Exps	10,33,500.00			
3,03,187	Telephone Expenses	60,272.00			1
2,54,150	Travelling Expenses	28,200.00		1, 00	
2,00,000	University Expenses-MKU	1,50,000.00			
		The state of the s	-		A CONTRACTOR OF THE PROPERTY OF THE PARTY OF



INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 3

1,35,87,482 11,50,783 22,17,243	Advertisment Expenses	2,59,66,136.46 11,49,031.00	31-03-2019 2,22,85,936	Brought Forward	31-03-2020
28,500 15,000 4,79,045	Building Maintenance Meeting Expenses Garden Maintenance MKU Fees for new Courses Inspection Expenses - New Courses Medical coding course fee Medical Exps - Student Consortium Application Expenses International Conference Exps.,	8,48,668.00 6,825.00 10,000.00 53,100.00 75,000.00 908.00 5,000.00			
16,15,927	To depreciation	20,81,119.96			
31,91,956	To Excess of income over Expenditure	169.4			10.75
2,22,85,936	TOTAL	3,61,95,788.42	2,22,85,936	TOTAL	3,01,95,788,42

PLACE: MADURAI DATE: 22.12.2020 UDIN: 20200322AAAARR4702

Dr. M. DAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College

Maderai - 625 002

Dr. C. DOROTHY SHEELA DURSAR The American College Madami - 625 002

As per our Report of Even Date
For MANOHAR CHOWDHRY & ASSOCIATES
CHARTERED ACCOUNTANTS
irm Registration No.001997S

partner LiDaniel Salvara; M.No. 200322

DANIEL SELVARAJ Partner Membership No.200322

PREVIOUS YEAR ENDED 31-03-2019	200.00001000	FOR THE YEAR ENDED 31-03-2020	PREVIOUS YEAR ENDED 31-03-2019	INCOME	FOR THE YEAR ENDED
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	Advertisment Expenses Building Maintenance Meeting Expenses Garden Maintenance MKU Fees for new Courses Inspection Expenses - New Courses Medical coding course fee Medical Exps - Student Consortium Application Expenses International Conference Exps.,	11,49,031.00 8,48,668.00 6,825.00 10,000.00 53,100.00 75,000.00 908.00 5,000.00			3,01,73,788.4
16,15,927	To depreciation	20,81,119.96	170		1
31,91,956	To Excess of income over Expenditure	1.6			
2,22,85,936	TOTAL	3,01,95,788.42	2,22,85,936	TOTAL	3,01,95,788,42

PLACE: MADURAI DATE: 22.12.2020 UDIN: 20200322AAAARR4702

Dr. M. DAVAMANI CHRISTOBER
PRINCIPAL & SECRETARY

The American College Madami - 625 002

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

As per our Report of Even Date
For MANOHAR CHOWDHRY & ASSOCIATES
CHARTERED ACCOUNTANTS
Timn Registration No.001997S

Partner
1 Daniel Selvarel Daniel Selvaral
M.No. 204322

Partner Membership No.200322

PREVIOUS		FOR THE	PREVIOUS	CO MET SERVICED IN	
VEAR ENDER 31-03-2019	EXPENDITURE	YEAR ENDED 31-03-2020		INCOME	YEAR ENDE
	To Educational Expenses				31-03-2020
13,220	B.A.Hinii	27.775.00		To Educational Income	
200	18A	27,725.00 6,595.00		Course Fee	64,328,947.00
3,500	BCA	9,950.00		SCHOOL STREET	10.000000000000000000000000000000000000
4,500	B.Com.	25,912.00			1
4,250	E.Com, TT	5,300.00		To Direct Income	
6,500	B.Com., (CA)	3,300,00	2	Sale of Tamil Books	229,840.00
374,137	B.Sc . Food Science	749,826,00		National Conference - Matha Dep	11,060.00
13,500	B.Sc., (Maths)	33,500.00	1 1	MENTAL STATE OF THE STATE OF TH	201/201/03
36,680	B.Sc., Physics	79,670.00	140,367	To Other Income	
3,180	H.Sc./(Cos)	100,885,001	234,495	Bank Interest	93,663.47
198,855	B.Sc.Chemitry	200,274.00	300,215	FD Interest	815,643.00
42,171	B.Sc.Information Technology	16,870,00	8,451	Sale of Indent Books (chemistry)	
2,500	B.Sc.Microbiology	61,966.00	90,000	Sale of Screp	19,730.00
104,573	Blo-Chemistry	8,689.00	20,000	Rest received	80,000.00
31,070	Bransar's Office	3,270.00			
3,000	Commerce	3,000,00			
19,150	Driver Batta		- 1		
14,500	English Dept.,	60,390.00			
2,901,231	Fees Refund	-5			
51,000	Franch Dept.,	93,350.00			11 11
66,300	M.Con.,	7,500.00	- 1		3.1
6,483	M.Phil English				
195130250	Terril Dept	2,000,00			M
54,132	MJ/hil Chemistry	F-002309			100
44,580	M.Se.physics	4,955.00			11
58,653	M.Sc.Food Science	78,450.00			1
47,179	MCA	24,384.00			
216,145	MIM Dept.,	186,163.00			1
27,550	MSW	11,455.00			
197,947	Physical Education	3,860.00			1
5,000	PG-English	3,180,00			
136,133	Psychology Dept_	184,002.00			
11,710	Physics-PO	12,033.00	- 1		
53,092.00	Principal Office	17,078.00			
8,980	Visual Communication	2,050.00			
46,000	PG Matha	249,000.00			
41,000	B.com.(PA)	187,000.00			
5,800	Bank Charger	11,389.36			
4,528,971	Building Maintenance	1,145,987.00			
176,109	Computer Acceseries	30,260,00			
200	Computer Lab Expenses	136,236,00			
	Castion Deposit Refund	118,500.00			
0.000 CONT.	Refund	3,483,520,00			
	Electrical Materials & Inspection charges	299,994.00			
	Printer Maintenance	3,880.00			
	Printing & Stationery	373,754,00			
	Refreshment Expenses	The second second			
,284,331	Remuneration	1,715,036.00			
,513,939	Carried Over	9,779,058,36	39,829,311	Carried Over	45,578,683,42

Partner Selvario

	THE OWNER BETTERDS	TERE SCHOOL SINCE		TRACTICE .	The state of the s
PREVIOUS EAR ENDER	EXPENDITURE	FOR THE YEAR ENDED	PREVIOUS VEAR ENDED	INCOME	YEAR ENDE
31-63-2019	EAFERDITORE	31-03-2020	31-03-2019	INCOME	31-03-2020
12,523,939	Brought Forward	9,779,058,36	39,829,311	Brought Forward	45,578,683,4
AMPORAÇÃO.	arrosges you warm	Security	O'SSERVICE I	prosper year out of	40921090005
403,782	Repairs & Maintenance	388,547.00			
235,819	Repain&Maintenance - Furniture	2,600.00			
30000	Annual Member Subscription	960.00	-		
-	MOU Expenses	1,300.00			
72,759	Travelling Expenses	26,048.00			
12,233.00	Vehicle Maintenance	60,940.00			
	Furniture Materials	87,116.00			
0000000000	Furniture Maintenance	17,790.00			
1,600,500	Honorariem	2,332,161.00			
3,106,243	Internet Charges			1	
4,707	Internet Expenses	358,130.00			
- CA	Xmas Celebration expenses	42,600.00			
368,800	Annal Maintenance Charges	+ + -			
9,000	PG Chemistry	100000000000000000000000000000000000000			
1000	Seminar Hall - Maintenace	17,599.00			
- 2	M.Phil Matha	4,500.00			
	RO Flant & Maintenance	39,283.00			
3.4	Drone Service Charges	12,046.00	(
	Workshop on Data Analysis	5,620.00			
1.0	NSS Office	1,050.00	3		
	PG English SF Exps	6,550.00	1		
	Laptop Misintenance	27,960,00			
	Solary Power Systems	556,500.00			
53339374	TA & DA to chief Guest	8,000,00			
	To Depreciation	3,646,152.80			
17,971,780	To Excess of Income over Expenditure	28,146,172.26			
39,829,311	TOTAL	45,578,683,42	39,829,311	TOTAL	45,578,683.

DATE: 22.12.2020 UDIN: 20200322AAAARR4702

As per our report of even date for MANOHAR CHOWDERY & ASSOCIATES Chartered Accountants Firm Registration No. C01997S

Han_ Dr. M. DAVAMANI CHRISTOBER
PRINCIPAL & SECRETARY
The American College
Madurai - 625 002

7700

Dr. C. DOROTHY SHEELA
BURSAR
The American College
Madural - 625 002

Dariner LDaniel Selvaroi M.No: 200322 LIDANIEL SELVARAJ

Partner obership No 200322

		1000

PREVIOUS YEAR ENED 31-03-2019	RECEIPTS	FOR THE YEAR ENDED 31-03- 2020	PREVIOUS YEAR ENED 31-03-2019	PAYMENTS	POR THE TEXAS
118,632,528	BROUGHT FORWARD	141,980,090,91	100,155,367	BROUGHT FORWARD	122,756,114,74
			6,000,000 6,000,000 (572,979) 7,050,540	BY INVESTMENTS FD - 50300265803511 - HDFC FD - 50300265802952 - HDFC Bank FD 50300354785372 HDFC FD in Indian bank BY CLOSING BALANCE Cash at Bank - Indian bank Cash at Bank - HDFC bank	6,000,000.00 6,000,000.00 6,000,000.20 (\$49,602.02 1,773,578.19
118,632,928	TOTAL	141,580,090.91	118,632,928	TOTAL	141,580,098,91

PLACE: MADURAI DATE: 22.12.2020 UDIN: 20200322AAAARR4702

Dr. M. BAVAMANI CHRISTOBER PRINCIPAL & SECRETARY The American College Madurai - 625 002

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Dr. C. DOROTHY SHEELA BURSAR The American College Madurai - 625 002

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

Firm Registration No.001997S

Pertner Daniel Salvara M.No: 200322

L DANIEL SELVARAJ Partner Membership No.200322

SATELLITE CASOT'S ACCOUNT FOR THE YEAR ENDED SIST MARCH SIST

EXPENDITURE ENDED 31-03-20	YEAR ENDED		ENDED 31-03-2020
		By Educational Income	38,700.00
Educational Expenses 9,141,134.	0 1,598,000	Bus Fees	33,875,682.00
Salary		Course fees collected by challans	315,673.00
Course Fee Resums 770 248		Course fees	2.5
Honorarium	292,000	Application fees	
EPF Administration Charges A/c	3,441,806	Staff Retreat Adv Deducation	2,920.00
Food & Safety Certificate	31 3558 5570 88	Exam Fine Amount	-
3,000		Other Income	13,040.00
Time of European	2.000	Scrap Sales	13,040.00
A Aveniesment Symenter. 231,213	# MAD		120000000000000000000000000000000000000
The Change	00 000	20000040000000000	149,970.00
	00 58,754		
Traveling 81,051	00 12,150		20,175.00
Orientation Exp	482,713	FD Interest - Indian Bank	4.1
Printing & Stationary Exp	49,500	Conference Deduction	1
Prize & Giff Expneses 53,200	00		
Remuneration and said			
Security Service Charges 725,101		1	
Book Binding Exp			1
Cont Physical Education			1 01
AJCTE Expense			1
m Detect work	Ŧ.	1	1
Remuneration - Extra work 10,00	0.00	1	1
Admission Work Exp 632,85	.00		1
Electrical Maintenance 632,85 7,65	0.00		1
Travell Allowance	100		
Exam Fee Refund 4 59	0.10		1 2
Rank Charges	25.440		
Bus Fees Refund			74
	7.0		
279/20			
Telephone & Internet Exp 831,30	6.00		110
Tamilnad Labour Transport			
a succession Extending	8.0	10	10
Repair & Maintenance - Salaria 3,286,8	4.00		Mir A
Renair & Maintenance	232	1	10
Building Maintenance			10
Cable Trench & Transformer	00,00		
Continuency expense	00.00	-	
Dent Contingency Expense			
Exam Contingengy Expense	2		
of the free Property	2000		
W. Chinese	00.00		
on A. S.E. Laboratoria	61.00		1
Chair Maintenance 167,	92.00		
Chalk & Notice Board	*		
Christmas Gift - Staff	2		1
College Maintenance			
Communar Consumables	54.00		
Curriculum Development - MBA 16,	Carried		
Commence	******		
m. C. August Evnentes	705.00		
	00.00		
Field trip bus exp 1,394	026.00	10	
Fuel Expenses - Ferro Coro	395,00		1000
Bus Maintenance		627 CARRIED OVER	34,416,160.0
CARRIED OVER 20,751,6	21.10 20,184,	627 CARRIED OVER	DHRYS

Pasthar Daniel Selvaral M.No: 200322

SATULLITE CAMPUS ACCOUNT NO XIII INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2020

REVIOUS	EXPENDITURE	FOR THE YEAR ENDED 31-03-2020	PREVIOUS YEAR ENDED	INCOME	FOR THE YEAR ENDED 31-03-2020
AR ENDED			31-03-2019 20,184,627	BROUGHT FORWARD	34,416,160.00
12,563,160	BROUGHT FORWARD	20,751,621.10	20,104,027		
		4			
119,335	Bus F C Expenses				
10,500	Field Trip Expenses	5,975.00			
-	Carpenter Work Maintenance Affliction Fee - University	197,900.00			1
	Affilmion Fee - University	8,631.00			
8,114	Newspaper & Periodicals	10,940.00		42	
45,252	Printer Maintenance	0000 C			
13,263	Printing & Xerox	69,410.00			1
70,860	Property 12X				
163,210	Repair & Maintenance Repairs & Maintenance - Main Building				
161,736	Repairs & Maintenance - Main Building				
29,400	Staff Refreshment	23	1		
3,560	Control of the Contro	8,187.00			
****	Stationary Hostal Expenses				
230,801	UPS Maintenance	15,000.00			
1	Water Charges	17,500.00			
71,000	Refreshment Expense	55,556.00	4		1
31,189		212,043.00			
23,500	Miscellaneous Exp Genoet Maintanance	237,500.00			
7,800	Vehicle Maintenance	64,365.00	6		
471,661		(#)			
2,500	College Name Board Borewell Repairs & Maintenance			19	
42,052	Boreweii Kepaira & Millimania	27,325.00)		
57,000	Incidental Charge Insurance Manuthi Omni TN59AD 94				
7,484	Insurance Manuful Citim 1743945				
247,000	LTCT Cable Laying Exp	- 3			
6,635	Other Expenditure Play Ground Sports & Material	64,736.0	0		
23,908	Play Ground Sports at Instance	100,569.0	0	N.	
27,794	Printing A/e	110000000	9	1//	
9,440	Projector Service Society Registration-Renewal	1 2 2 2		Tr.	
21,300	Sports Material Purchase	5. 9		137	31
7,616	Staff Welfare		8.1		
1,000	Inaugration Expenses	214,955.0	00	10	
7	Inspection Expenses	25,040.0			
	Cleaning Charges	195,304.			
	Faculty Meeting Expenses	9,500.			
	FD Interest	43,205		1	
	Cleaning material expenses	45,117	00		
24,248	Garden Maintenance		2		
7,861	Licenses Renewal	300,000.	00:1		
	Detailes Now you	10.8187584010	22		
w. ores 257	To Depreciation	5,924,324	14		
3,880,564	10 Delitectures			1	
	To Excess of Income over	SHOWN VIARO	0.00		
POST CONTRACTOR		5,811,456	46		1
1,793,884	Expenditure	***		- 1	24.435.460
	2000000	34,416,160.	00 20,184,62	7 Total	34,416,160.
20,184,627	Total	34,410,100	87175(3)	At 1	Water
				As	per our report of even of
PLACE : MA	DURAL		0	for MANOHAR CHOW	RTERED ACCOUNTAN
DATE: 22.12.					m Registration No.0019

Malue_ Dr. M. DAVAMANI CHRISTOBER
PRINCIPAL & SECRETARY
The American College
Madurai - 625 002

Dr. C. DOROTHY SHEELA BURSAR Die American College Madurai - 625 002 OAM * LIKE

LDANIEL SELVARAJ PARTNER Membership No.200322

NOHRY SAU

Partner LDaniel Selvara) M.No: 20/322

PREVIOUS EAR ENDED 31-03-2020	EXPENDITURE	YEAR ENDED	PREVIOUS YEAR ENDED	INCOME	FOR THE Y
21-10-2122		31-03-2021	31-03-2020	711000000	ENDED 31-4 2021
- 5	To Educational Expenses				2021
27,725	B.A.Hindi	2,000.00		By Educational Income	
6,595	BBA	2,500.00	4,43,28,947	Course Fee	5,31,02,73
9,950	BCA			AND THE PROPERTY OF THE PARTY O	1
25,912	B.Com.,	16,500.00	-55,000	By Direct Income	1 #1
5,300	B.Com. IT	2,250.00	2,29,840	Sale of Tamil Books	
7,49,826	B.Sc. Food Science	88,304.00	11,060	National Conference - Martin Dep	
33,500	B.Sc., (Marhs)	1,17,258.00		Authorities and the state of th	1
79,670	B.Sc., Physics	48,018.00	192020	By Other Income	(386)
1,00,885	B.Sc. (Cos)	50,950.00	93,663	Bank Interest	82,13
3,00,274	B-Sc.Chamistry	100000000000000000000000000000000000000	8,15,443	FD Interest	3,08,80
16,870	B.Sc.Information Technology	5,450.00	19,730	Sale of Scrap	700
61,966	B.Sc.Microbiology	7,869,00	80,000	Rent received	1,00,000
8,689	Bio Chemistry	0.000	W I		2000
3,270	flurrar's Office	44,846.00			
	Books and Journals	26,330.00			
0,000	Connece	21,373.00			1
66,390	English Dept.	85.3			1
93,550	French Dept.	10,500.00			
7,500	M.Com,	13,750.00			
7,500	M.Phil English	7,430.00	- 4		
2,000	Tamil Dept.	4,500.00			
4,955	M.Sc physics	550,00			
78,450	M.Sc. Food Science	13,600.00			
24,384	MCA SCHEICE	2,500,00			
1.86,163	MIM Dept.,	10,839.00	1		1
11,455	MSW	1,69,624.00			1
11,400	UC Economics	450.00			
3,860	Physical Education	7,000.00			
3,180	PG-English	1,47,678.00			
37140	PG-Dwa Science	2,500.00			
1,84,002	Psychology Dept.	2,500.00			1000
12,033	Physics-PG	5,470.00	- 1		
17,078		660.00			111
	Principal Office Visual Communication	14,727.00			1/
	PG Matha	5,500.00			
	- C - C - C - C - C - C - C - C - C - C	1,56,500.00			
	B.com.(PA) ACCIC	2,60,500.00			
	Bank Charges	95,710.00			
		11,434.00			
	Huilding Maintenance Computer Accessries	\$,49,993.00			
	Computer Accessive	2,55,030.00	1		
	Computer Lab Expenses	1,770.00			
		The same of the same of	1		
	Cristian Deposit Refund	*			
	Courpenter Expenses-DRIDO	900.00			
	Data Centre	1,22,620.00			
10000000000000000000000000000000000000	Refund	31,18,132.00			
	Electrical Materials & Impection charges				
	Sectrical Maintenance	2,48,987.00			
	Green Audit	1,23,350.00			
	ouding and Unioading Charges	1,330.00			
	Tinter Maintenance	100000			
	Yorting & Stationery	25,054.00			
1,15,056 R	Compneration	8,27,920.00	1//		







THE AMERICAN COLLEGE, MADURAL-625 802.

SELF-FINANCE ACCOUNT - XVIII INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2021

PREVIOUS YEAR ENED 31-03-2020	EXPENDITURE	FOR THE YEAR ENDED 31-03- 2021	PREVIOUS YEAR ENED 31-03-2020	ENCOME	FOR THE YEAR ENDED 31-03- 2021
300	TO DEPARTMENT WISE EXPENSES		remandifica	BY EDUCATIONAL INCOME	
2,359	Remuneration.	2.0	7,44,77,376	Course Fee	8,15,41,956.00
2,88,41,724	Salary A/o	3,73,40,213.00	1,45,391	Bank Interest	1,22,858.00
	Guest Lecturer	23,000.00	7,69,072	FD Interest	4,39,282.00
2,35,047	AICTE Exps.,		16,85,388	Salary Recovery	1 1
1,086	Benk Charges	3,185.00	1,23,746	Salary Recovered-LLP	27
74,23,664	E.B.Esps.,	34,17,798.00		5-31 20	
Wester	ESI - Penalty	54,681.00			
	Misc.Exps.,	2,000.00			
27,56,326	EPF	5,57,007.00			9/
11,23,945	Security Exps.,(Outsourced)	11,80,303.00			
790	Recognition Expenses	1,00,000,00			
	Legal Exps.,	20,000:00			
18,49,222	Cleaning Charges - Tniler(Outsouzed)	12,22,543.00			
1	Interest on Loin.	2,66,057.00			
	Staff welfare expenses	10,000.00			
2,158	Contribution to Global services - sales day	41			
4,23,000	AMC Charges - Winways Systems P Ltd.	10,57,870.00			
7,35,214	EST	15			
3,920	Gerden Maintenance	-			
10,58,533	To Depreciation	18,46,502.00			
3,27,44,783	To Excess of Income Over Expenditure	3,50,02,917.00			
7,72,00,973	TOTAL.	8.21,04,096,00	7,72,80,973	TOTAL	8,21,04,096,0

PLACE: MADURAL DATE : 20.11.2021 UDIN: 21200322AAAAUS3518

As per our Report of Even Date
For MANOHAR CHOWDIRY & ASSOCIATES
CHARTERED ACCOUNTANTS
Firm Registration No.001997S

Hale

Dr. M. DAVAMANI CHRISTOBER
PRINCIPAL & SECRETARY
The American College
Madural - 625 003

Dr. C. DOROTHY SHEELA
BURSAR
The American College
Madorni - 625 002

1. DANIEL SELVARAJ



THE AMERICAN COLLEGE MADELE SATELLITE CAMPUS ACCOUNT NO. 31X INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED JIST MARCH 1911

PREVIOUS YEAR ENDED	EXPENDITURE	FOR THE YEAR ENDED 31-63-2021	PREVIOUS YEAR ENDED 31-03-2020	INCOME	FOR THE YEAR ENDED 31-03-2021
31-03-2020	To Educational Expenses		ALLOW AND A	By Educational Income	h 01
1,000,000,000,000,000		1,20,54,183.00	38,700	Bun Fees	The Contraction of the Contracti
91,41,134	Salary	7,74,222.00	3,38,75,682	Course fees collected by challans	4,02,86,581.13
13,87,952	Course Fee Refund	7,30,500.00	3,15,673	Course fees	12,87,152.0
7,70,248	Honorarium	50,015.00	2,920	Exam Fine Amount	
	Annual Fees for BMS Course	6,146.00	13,040	Scrap Sales	
	Catridge Refilling Toner	0,140,00	1,49,970	Bank Interest	81,311.0
3,000	Remuneration to Staff	39,850.00	397005175	Pees Structure	100.0
54,290	Festival Expenses	1,57,200.00	20,175	FD Jeterest - Indian Bank	28,443.0
2,51,213	Advertisement Expenses		20,177	Affiliation Fee	2,700.0
8,71,200	EB Charges	6,76,565.00	100	Loss of Pay	1,19,768.0
15,123	Traveling	765.00	- 56	Line of eng	
81,051	Orientation Exp	±/1			
1000	Inauguration Function	6,200.00		l.	
	Collabouration fee	60,005.00			1
33,200	Remoneration	42,240.00			
7,25,161	Security Service Charges	7,26,000.00			- C
1202,100	Board of Studies Exp	5,000.00	153		VI C
	Entrance Recognition	1,46,175.00			
-	AICTE Expense	25,023.60	1	15	
1 0 600	Admission Work Exp	5,000.00			
10,000	Finerrical Maintenance	1,52,163.00		16	
6,32,851		15 M			
7,650	and the state of t	3,180.00			
4,599	Internet - Leave Line	4,24,800.00			
17.0	The state of the s	68,972.00			
3,39,936		1,73,067.00			
8,31,366	Telephone & Internet Exp	3,178:00			
	Tamilead Labour Transport	32,144,00			
	AC Ministenance	24,14,100			
32,86,814	Repair & Maintenance	24,58,586.00	1 11	-1	
	Building Maintenance	23,313.00		1	
4,000	Contingency expense	22,210,00	2		
4,000	Dept Contingency Expense	10,000.00			
	Lab Consumables	5,082.00			
+	MBA Student Assummer	200.00			
1,16,000	Batta - Driver	200.00	5		
3,37,761	Chair Maintenance	35			
1,67,792		300000	3		
10000000	Transport Excuses	13,800.00			
3	Computer Maintenance	7,500.00			
16,154	Curriculam Development	10,000.00	9		
11,703					
13,000		4			
13,94,028		4,30,266.0			
13,94,020		36,222.0	0		I-CONSTRUCTION
2,20,395.00	And simulations.	Committee	2 17 17 17	0 CARRIED OVER	4,18,06,055
2.07,51,621	CARRIED OVER 1	1,93,67,562.6	3,44,16,16	CARRELING STATE	neg





THE AMERICAN COLLEGE MADERAL

SATELLITE CAMPUS ACCOUNT NO. XIX

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED JIST MARCH 2021

PREVIOUS YEAR ENDED	EXPENDITURE	FOR THE YEAR ENDED 31-03-2021	PREVIOUS VEAR ENDED 31-03-2020	INCOME	FOR THE YEAR ENDED 31-63-202
31-03-2020 2,07,51,621	BROUGHT FORWARD	1,93,67,562.60	3,44,16,160	BROUGHT FORWARD	4,18,06,055.15
		3 00 000 00	Commonweal and		
	Insurance	1,92,583.00			
5,975	Carpenter Werk Maintenance	W			
1,97,900	Affliation Fee - University	1.0			
8,0.51	rvewspaper & Periodicals		1		
10,940	Printer Maintenance	0000000	1		1
	Printing & Xerox	1,050.00			
69,410	Property tax	69,410.00			2.5
7+	Repair & Maintenance	5,55,662.00			
	Rain water Harvest	1,20,000.00			
8,187	Stationary	2,180.00			24
15,000	UPS Maintenance				
17,500	Water Charges		1		
55,556	Refreshment Expense	5,170.00			7.4
2,12,043	Miscellaneous Exp	11,347.00			
2,37,500	Genset Maintanance	23,056.00			
64,365	Vehicle Maintenance	1,05,108.00	1 1		
27,325	Incidental Charge	5,000.00			
	Installation Charge	8,260.00			
64,736	Play Ground Sports & Material	4		1.00	
1,00,569	Printing A/c	47,262.00			
Wasternia.	NSS Registration Fee	2,420.00			
	OMNI Insurance	6,700.00			
4	Painting Work	8,74,974.00			
2,14,955	Inaugration Expenses	3.1			
25,040	Inspection Expenses	(0)			
1,95,304	Cleaning Charges	3,78,191.00			
9,500	Faculty Meeting Expenses	10,000.00			
43,205	FO Interest	N. Command			
45,117	Cleaning material exponent	2//2/45			
2.4	Garden Maintenance	2,53,100.00			
3,00,000.00	Litenses Renewal	100			
77,20,108	To Depreciation	68,81,307.56		-2	
	To Excess of Income over			16.1	
40,15,673	Expenditure	1,28,85,711.99			
40,15,000	THE WAY TO SEE THE PARTY OF THE		3,44,16,160	Total	4,18,06,055,1
3,44,16,160	Total	4,18,06,055,15	3,44,16,160	Louis	- Manager Association

PLACE : MADURAI DATE: 20,11,2021 UDIN: 21200322AAAAUS3518

c.o. Yhuly

HOW Dr. M. DAVAMANI CHRISTOBER
Dr. C. DOROTHY SHEELA
PRINCIPAL & SECRETARY
The American College
Madurai - 625 002
Madurai - 625 002

As per our report of even date for MANOHAR CHOWDIRY & ASSOCIATES CHARTERED ACCOUNTANTS Firm Registration No.0019978



LDANIEL SELVARAJ PARTNER Membership No.200322



INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2021

PREVIOUS YEAR ENDED 31-03-2020	EXPENDITURE	FOR THE YEAR ENDED 31-03-2021	PREVIOUS YEAR ENDED 31-03-2020	INCOME	FOR THE YEAR ENDED 31-03-2021
	TO EDUCATIONAL EXPENSES		- STIMBOULD BY	BY COURSE FEE RECEIVED	
3,89,400	Affiliation Fee - Mku	8,31,900.00	2,20,17,479	Course Fees By challan	3,58,35,545,21
2,72,428	Fees Refund	26,450.00	2,20,11,712	Course rees by change	administration and
29,500	ICTACT - Membership Fee	82,600.00		BY OTHER INCOME	
2,60,095	Physical Education -Expenses	2,94,045.00	15,389	Bank interest	58,703.0
2,19,43,439	Salary	3,22,65,014.00	1.38,896	Interest on FD	3,78,395.0
	11.57(0.004) - 0.004(0.00)	70,427.00	28,900	International Conf Hindi Den	3,70,333.0
1,69,315	Vechicle Maintenance	100/05/00/500/9/04/	54,000	Regn. Fee	8
1,184	Bank Charges	1,141.85	34,000	Regn. Fee	
10,000	Computer Accesseries-Expenses	14 704 00			
19,613	DTH Maintenance	15,726.00		D. T T	100
8,12,445	Entrance Fee & Recog. Fee -2019-20	* .	25647487	By Excess of Expenditure	21,19,188.6
*	Entrance For & Recognition Fee -2020-		79,41,124	over income	21,19,188.0
0.000	Hand Sanitizer	950.00			
20,342	Insurance - TN59 BD 1881	14,326.00		23 1	
	Insurance - TN59 CH 1881	49,345.00			
55,000	LegalExpenses	45,000.00			
**	MOU Collabration Fee to LSC	1,50,000.00			
93	NSS Iyear Registration Fee - MKU	12,240.00			
34,838	Membership Subscription	navarra Til			
2,29,701	Refreshment Expenses	2,54,167.00			
0.000	Research Centre Approval Fee - MKU	35,400.00			
	Research Centre Renewal - MKU	1,05,200.00			
	Software Exp., Zoom	1,33,056.00			
2,11,000	Remuncration			100	
50,300	Repairs&Maintenance				
1,85,564	Retreat Expenses			9	
10,33,500	Electrical Work Exps	28500 TO 1			
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	SECRETARIA		-	
	Inspection Expenses - New Courses	35,400.00			
75,000	Medical coding course fee				
908	Medical Exps - Student				
5,000	Consortium Application Expenses				
20,81,120	To depreciation	18,16,025.07			
3,01,95,788	TOTAL	3,83,91,831,92	3,01,95,788	TOTAL	3,83,91,831.9

PLACE: MADURAI DATE: 20.11.2021 UDIN: 21200322AAAAUS3518

C.D. Kuly

HOW Dr. M. DAVAMANI CHRISTORER PRINCIPAL & SECRETARY The American College Madural - 625 002

Dr. C. DOROTHY SHEELA BURSAR The American College Madural - 625 002

As per our Report of Even Date
FOR MANOHAR CHOWDHRY & ASSOCIATES
CHARTERED ACCOUNTANTS Pirm Registration No.001997S

> L DANIEL SELVARAJ Membership No.200322



		THE RESERVE AND ADDRESS OF THE PARTY OF THE	THE RESERVE OF	_	
NCOME &	EXPENDEN	The second second	STORY COLUMN	STATE OF THE PARTY OF	

Te Educational Expenses 2,000.00 4,43,28,947 Course Fee 5,31,02,72 S. BA 2,000.00 4,43,28,947 Course Fee 5,31,02,72 Course Fee Course Fee 5,31,02,	PREVIOUS EAR ENDED 31-83-2028		FOR THE YEAR ENDED 31-03-2021	PREVIOUS YEAR ENDED 31-03-2020	INCOME	POR THE VE
200,000 200,		To Educational Expenses			and the second services	2021
Section	27,725	B.A.Hindi	2.000.00	THE PARTY OF THE P		0.0000000000000000000000000000000000000
9.550 BCA	6,595	BBA		4,43,28,947	Course Fee	5,31,02,734
1.5.00	9,950	1000			P. P.	
1.000 1.00				7.70.040		1 18,
7.69,126 15.5; Food Science						1 3
33.50 35.c, [Mathata] 1.17.255.00 79.670 1.00.855 85.c, [759/sic 48.018.00 93.683 85.c, [759/sic 30.9510.00 81.54.43 81.60. Chamistry 30.9510.00 81.54.43 81.60. Chamistry 30.9510.00 19.730 81.60. Chamistry 34.846.00 19.730 83.000		B.Sc. Food Science	0.054553335153	11,000	National Conference - Maths Dep	3
19,00,885 85 sc_(200) 50,950.00 81,15,413 19,710 18 sc_(200) 50,950.00 81,15,413 19,710 18 sc_(200) 19,950.00 18,15,413 19,710 18 sc_(200) 19,950.00 18,15,413 19,710 18 sc_(200) 19,710 19,710 18 sc_(200) 19,710 19,710 18 sc_(200) 19,710 19,710 18 sc_(200) 19,710		B.Sc., (Matte)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	By Other Lawrence	
1,00,883 18.5c, Chemistry	.000.0000.000			639.60		Was 1974
1,000						100000000000000000000000000000000000000
10,570 0 5c. Information Technology 7,669,00 80,000 8 1,00,000 9 1,00,000 9						
		B.Sc.Information Technology				700
Bernary Office	500000000000000000000000000000000000000			Suppose	Mont received	1,00,000
3,270 Bursar's Office 26,310.00	0.00000000		44,846.00	0		
Books and Jaumsh 21,373.00			233500000000000000000000000000000000000			
1,000 Commerce						1
91,550 French Dept. 13,750.00 7,500 M.Com. 7,430.00 M.Com. 7,430.00 M.Steffer Science 15,00.00 M.Sc. chysics 11,00.00 M.Sc. chysics 11,00		Commerce	20000000			1
93,500 French Dept. 13,750.00 1,750.00 1,750.00 M.Phil English 4,500.00 1,500.00 1,500.00 M.Sc. Physica 13,600.00 M.Sc. Physica 13,600.00 M.Sc. Physica 13,600.00 M.Sc. Physica 13,600.00 M.Sc. Physica 1,500.00 M.Sc. Physica 1,500.00 M.Sc. Physica 1,500.00 M.Sc. Physica 1,650.00 M.Sc. Physica 1,650.00 M.Sc. Physical Education 1,47,678.00 M.Sc. Physical Education 1,47,678.00 Physical Education 1,47,770.00 Physical Education 1,48,500.00 Physical Education 1,48,500.00 Physical Education 1,48,500.00 Physical Education 1,48,400 Physical Educati			10.500.00			1
7,300 M.Com, 7,430.00 A,505.00 Tamil Dept. 350.00 A,935 M.Sc. Pringer 13,500.00 M.Sc. Pringer 14,500.00 M.Sc. Pringer						
M. Phi English 5:00:00 4,953 M. Sc physics 13:00:00 4,953 M. Sc physics 13:00:00 M. Sc physics 14:00:00 M. Sc physics 14:00 M. Sc ph	7,500					
2,000	10000	M.Phil English	1.051770000	- 4		
A.955 M. Sc Proof Science	20/21/21/21	Tamé Dept.				
74,450 MSc Pool Science: 1,500.00 18,8163 MCA 10,335.00 11,455 MSW 450.00 11,455 MSW 450.00 1,180 Piperal Education 1,42,545.00 1,180 PG-English 2,500.00 PG-Das Science 2,500.00 Pg-Das Science 3,500.00 Pg-Das Science 2,500.00 Pg-Das Science 3,500.00 Pg-Das Science 4,500.00 Pg-Das Science 1,547.00 Pg-Das Science 1,5470.00 Pg-Das Science 1,5500.00 Pg-Das Science 1,750.00 Pg-Das Science 1,750.0	4,955	M.Sc.physics				
24,384 MCA 18,6163 MIM Dept., 369,534,00 14,9554,00 14,9554,00 14,9554,00 15,9654,00 15,	78,450	M.Sc.Food Science		71		
1,861-63 MSW	24,384	MCA	1-4-7-13-5-13-5-13-13-13-13-13-13-13-13-13-13-13-13-13-			
14.55 MSW	1,86,163		17/07/04/05/05/07			
LG Extractives	11,455	23700	252655000000000000000000000000000000000			V
1,42,678,00			1/21/4/2005/19/19	1		
1,180 PG-English 2,500.00 1,84.002 Psychology Dept. 5,870.00 17,078 Principal Office 14,727.00 17,078 Principal Office 1,56,500.00 1,87.000 Rometimication 5,500.00 1,87.000 Rometimication 1,56,500.00 1,87.000 Rometimication 1,434.00 1,434.00 Rometimication 1,434.00 1,43.900 Rometimication 1,770.00 1,87.000 Rometimication 1,770.00 1,87.500 Rometimication 1,770.00 1,87.500 Rometimication 1,27.500.00 1,87.50	3,860	Physical Education		- 1		
PG-bus Science 2,500.00 Psychology Dept. 5,470.00 Physics PG 660.00 Physics PG 6	3,180	PG-English:				
12,033	unistra (
17,078			5,470.00			
2,050 Visual Communication		Physics-PG	660.00	- 1		
2,050 PG Maths	17,078		14,727.00			111
1,87,000 B.com (PA) 2,60,500.00 ACCIC 96,710,00 11,43987 30,260 Computer Accessing 2,53,000.00 Computer Cerire 1,770,00 Computer Expenses Custion Deposit Refund Caupant Lish Expenses Custion Deposit Refund Caupant Expenses DRIO Data Cerire 1,22,620.00 Data Cerire 1,22,620.00 Refund 31,18,320 Electrical Materials & Impection charges Electrical Materials & Impection charges Circum Audit 1,23,350.00 Loading and Unloading Charges 1,330.00 Thirter Maintenance Printing & Stationery Remuneration 8,27,920.00 Remuneration 8,27,920.00						
ACCIC 95,710.00	A-210000-000		1,56,500.00	- 1		
11,389	1,87,000		2,60,500.00	- 1		
1,45,987 30,260 Computer Accessing 1,36,236 Computer Centre 1,36,236 Computer Expenses 1,18,500 Computer Expenses Coursion Deposit Refund Coarpenter Expenses-DRDO Data Centre 1,22,620,00 1,770,00 1,22,620,00 1,22,620,00 1,18,332,00 Electrical Materials & Impection charges Electrical Materials Electrical Materials 1,23,500 Loading and Unloading Charges 1,33,000 1,880 Printer Maintenance 73,754 Printing & Stationery Remuneration Remuneration Remuneration 8,27,920,00	38		96,710.00	- 1		
30,260 Computer According 2,53,010.00 Computer According 1,710.00			11,434.00			
1,16,296 Computer Cerére 1,770,00 1,16,590 Computer Lah Expenses 1,770,00 1,16,590 Computer Lah Expenses 1,770,00 1,16,590 Computer Lah Expenses 0,00 1,16,590 Computer Expenses-DRDO 900,00 1,26,620,00 1,22,620,00 1,16,152,00 Electrical Materials & Impection charges 1,14,152,00 1,16,152 Electrical Materials & Impection charges 1,23,50,00 1,23,50,00 1,23,5			8,49,993.00	70		
1,16,236	30,260					
1,16,500 Caution Deposit Refund			1,770.00			
- Cearpenter Experiese-DRIDO 900.00 Data Centre 1,22,620.00 3,8,5,520 Refined 31,18,132.00 Electrical Maintenance 2,48,987.00 Green Audit 1,23,350.00 Loading and Unloading Charges 1,330.00 1,3,850 Printer Maintenance 2,5,054.00 Remuneration 8,27,920.00 Remuneration 8,27,920.00			- t			
Data Centre			10.75			
1.33,520 Reflard 1.99,994 Electrical Maintenance 2,48,987.00 Oren Audit 1,23,350.00 1.08ding and Unloading Charges 1,330.00 1.980 Printer Maintenance 2,5,054.00 1.5,056 Remuneration 8,27,920.00						
1,90,904 Electrical Materials & Impection charges 2,48,987,00	4		F1000000000000000000000000000000000000			
- Electrical Maintenance 2,48,987.00 - Creen Audit 1,23,350.00 - Loading and Unloading Charges 1,350.00 - Printer Maintenance 7,73,754 - Printing & Stationary 25,054.00 - (15,056 Remuneration 8,27,920.00	900000000		31,18,132.00			
Oreen Audit 1,23,550.00 Loading and Unloading Charges 1,30.00 7: inter Maintenance 7,73,754 Printing & Stationery 25,054.00 [15,056] Remuneration 8,27,920.00			500			
Loading and Unloading Charges 1,330,00 1,350 Printer Maintenance 25,054,00 1,5,056 Remuneration 8,27,920,00						
3,880 Printer Maintenance ,73,754 Printing & Stationery 25,054,00 ,15,056 Reminerative 8,27,920,00	140111			10		
,73,756 Printing & Stationery 25,054.00 (15,056 Remuneration 8,27,920.00			1,330.00	10		
1,15,056 Remuneration 8,27,920.00						
7.00						
70.048 Fred 10	15,056	Remuneration.	8,27,920.00	1/4		
					The state of the s	LANGE WELL





R ENDER	EXPENDITURE	31-83-2921	ST 42-3154	NONE	2921 5,35,94,367,00
-63-2929	Brought Forward	69,67,736.00	4,55,78,683	Brought Forward	320001900000
97,79,058	A DOZE STREET,	7,05,908.00	APTONIA CONT.		
3,88,547	Repairs & Maintenance				
2,600	Repairs&Maintenance - Furniture	1,00,000.00			
- 80	Recognition Exp.,	20,033.00		2	
74	Research Seed Muncy	984900			
960	Arread Mamber Subscription				1
1,300	MOU Expenses	1,04,708.00			
10	Museum	- April Decision			
26,048	Travelling Expenses	13,997.00			
60,940	Vehicle Maintenance	1990			
87,116	Furniture Materials	22,626.00			
17,790	Facutiore Maintenance	25.08,500.00			
23,32,161	Hanorariem	29,23,976.00	12.		
3,58,130	Internal Expenses	***************************************	l'		
42,600	Xmas Celebration expenses				
17,599	Seminar Hall - Maintenace	29,400.00	1		
4,500	M.Phil Matha	43,000.00			
39,283	BO Part & Maintenance				
12,046	Drune Service Charges	100			
5,620	Workshop on Data Analysis	13,020,00	1		
1023	Advertisement Expenses	1,71,000.00			
	AMC Server	1,03,379.00	4		
	Networking Service Charges	2,00,000.00			
- 32	Promotional Video Exp.,	16,867.00			177
14.3	Solary	54,988,00			
	Sanitizer	5,310.00			
23	SMPS Service Charges	3,310/00	N. 110		100
1,050	NSS Office	110	4 1911		
6,550	PG English SF Esps	117 5			
27,960	Laptop Moneterance	53	1		
5,66,500	Solary Power Systems		1 1/2		
8,000	TA & DA to chief Guest	an to (47.7)			
36,45,153	To Depreciation	59,83,167,73			
2,81,46,172	To Escess of Income over Expenditure	3,36,49,751.2	0		232212
2,81,46,174	AND THE PROPERTY OF THE PROPERTY OF THE	5,35,94,367.0	0 4,55,78,683	TOTAL	5,35,94,36

PLACE: MADURAI DATE: 20.11.2021 UDIN: 21200322AAAAUS3518

C. D. Sheet.

Holly Dr. C. DOROTHY SHEEL BURSAR
The American College
Madural - 625 002 Dr. M. DAVAMANI CHRISTOBBR VE AMERIC PRINCIPAL & SECRETARY The American College Madural - 625 002

As per our report of even date for MANOHAR CHOWDHRY & ASSOCIATES

CHOWDER'S Firm Registration No.0019975

LDANIEL SELVARAJ Partner Membership No.200322



THE AMERICAN COLLEGE, MADURAT-625 002.

SELF-FINANCE ACCOUNT - XVIII

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2021

PREVIOUS YEAR ENED 31-03-2020	EXPENDITURE	FOR THE YEAR ENDED 31-03- 2021	PREVIOUS YEAR ENED 31-03-2020	INCOME	FOR THE YEAR ENDED 31-03- 2021
4.	TO DEPARTMENT WISE EXPENSES		5500.590	BY EDUCATIONAL INCOME	200000000000000000000000000000000000000
2,359	Remuneration		7,44,77,376	Course Fee	8,15,41,956.00
2,88,41,724	Salary A/c	3,73,40,213.00	1,45,391	Bank Interest	1,22,858.00
	Guest Lecturer	23,000.00	7,69,972	FD Interest	4,39,282.00
2,35,047	AICTE Esps.,	The same of the same	16,85,388	Salary Recovery	(6)
1,086	Bank Charges	3,185.00	1,23,746	Salary Recovered-LLP	-41
74,23,664	E.B.Exps.,	34,17,298.00		Accepted to American Physics Company of the Company	
(4)	ESI - Penalty	54,681.00			
	MiscExps.	2,000.00			
27,56,326	EPF	5,57,007.00		1/2	100
11,23,943	Security Exps./(Outsourced)	11,80,303.00			
	Recognition Expenses	1,00,000.00			
State of Page	Legal Exps.,	20,000:00			
18,49,221	Cleaning Charges - Toilet(Outsouced)	12,22,343.00			
100000000000000000000000000000000000000	Interest on Loan	2,66,057.00			
4	Staff welfare expenses	10,000.00			
2,150	Contribution to Global services - sales day	240			
4,23,000	AMC Charges - Winways Systems P Ltd.	10,57,870.00			
7,35,214	ESI	10 -120			4
3,920	Garden Maintenance				
10,58,533	To Depreciation	18,46,502.00			5
3,27,44,783	To Excess of Income Over Expenditure	3,56,02,937.00			
7,72,00,973	TOTAL.	8.21,04,096,00	7,72,00,973	TOTAL	8,21,04,096,00

PLACE: MADURAI DATE : 20.11.2021 UDIN: 21200322AAAAUS3518

As per our Report of Even Date
For MANOHAR CHOWDHRY & ASSOCIATES
CHARTERED ACCOUNTANTS
Firm Registration No.0019978

+ Colu

Dr. M. DAVAMANI CHRISTOBER
PRINCIPAL & SECRETARY
The American College
Madural - 025 002

C.D. Huly Dr. C. DOROTHY SHEELA
BURSAR
The American College
Madural - 625 002

I. DANIEL SELVARAJ

SATELLITE CAMPUS ACCOUNT NO. NEX INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED JIST MARCH 2021

PREVIOUS YEAR ENDED	EXPENDITURE	FOR THE YEAR ENDED 31-03-2021	PREVIOUS YEAR ENDED 31-03-2020	INCOME	FOR THE YEAR ENDED 31-03-202
31-03-2020	To Educational Expenses	The Landson Control	CATER LINES	By Educational Income	
COUNTY OF ST		1,20,54,183.00	38,700	Bus Fees	7 20 27 727
91,41,334	Salary	7,74,222.00	3,38,75,682	Course fees collected by challens	4,02,86,581.1
13,87,952	Course Fee Refund	7,30,500.00	3,15,673	Course fees	12,87,152.0
7,70,248	Honometon	50,015.00	2,920	Exam Fine Amount	
\$3	Annual Fees for BMS Course	6,146.00	13,040	Scrap Sales	10000
×3	Catridge Refilling Toner	35,740,00	1,49,970	Bank Interest	\$1,311.0
3,000	Remuneration to Staff	39,850.00		Pees Structure	100.0
54,290	Festival Expenses	1,57,200.00	20,175	FD Interest - Indian Bank	28,443.0
2,51,213	Advertisement Expenses	6,76,565.00	201100	Affiliation Fee	2,700.
8,71,200	EB Charges			Luss of Pay	1,19,768.0
15,123	Traveling	763.00		Edge of Fig.	11.00503000
81,051	Orientation Exp	100000			
-	Inauguration Function	6,200.00			
2	Collaboaration fee	60,005.00			
53,200	Remoneration	42,240.00			
7,25,161	Security Service Charges	7,26,000.00			
1 posta o	Board of Studies Exp	5,000.00			
- 3	Envance Recognition	1,46,175.00			
1	AICTE Expense	25,023.60			
10,000	Admission Work Exp	5,000.00			
	Electrical Maintenance	1,52,163.00	8		
6,32,851	Travell Allowance		10		
7,650	Bunk Charges	3,180.00	E		
4,599	Internet - Lease Line	4,24,800.00	ř.	1	
100000		68,972.00			
3,39,936		1,73,067.00			
8,31,366	Tamilnid Labour Transport	3,178.00			
		32,144.00			
. 4.	AC Maintenace				3
32,86,814	Repair & Maintenance	24,58,586.00	j l		
11000	Building Maintenance	23,313.00			
4,000		2550			
4,000	Dept Contingency Expense	10,000.00	0		
	Lab Consumables	5,082.00			
5.4	MBA Student Assumence	200.00			
1,16,000	Batta - Driver	2000			
3,37,761	Chair Maintenance	100			
1,67,792	Chalk & Notice Board	13,800.0	2		
The Gold	Transport Exenses	7,500.0			
	Computer Maintenance	10,000.0			
16.156	Curriculum Development	10,000.0			
11,700	Exam Refreshment Expenses			1	
13,000	Field trip bus exp	332.37			
(3,94,02)		4,30,266.0			
2,20,395.0		36,222.0	0		
Winds of the last		100 20 275 7	8 3,44,16.16	O CARRIED OVER	4,18,96,055
2,07,51,62	CARRIED OVER 3	1,93,67,562.6	0 3,44,10,10	CAROLL	000





THE AMERICAN COLLEGE MADERAL

SATELLITE CAMPUS ACCOUNT NO. XIX

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2021

PREVIOUS EAR ENDED	EXPENDITURE	FOR THE YEAR ENDED 31-03-2021	PREVIOUS YEAR ENDED 31-03-2020	INCOME	FOR THE YEAR ENDED 31-63-2021
31-03-2020 2,07,51,621	BROUGHT FORWARD	1,93,67,562.60	3,44,16,160	BROUGHT FORWARD	4,18,06,055.15
Add to the same				- Misconto e la Rocci de Cale	The state of the s
- 2	Insurance	1,92,583.00			
5,975	Carpenter Work Maintenance				
1,97,900	Affliation Fee - University	100			
8,634	Newspaper & Periodicals	A			
10,940	Printer Maintenance	5000 6 30			
	Printing & Xerox	1,050.00			
69,410	Property tax	£9,410,00			
-	Repair & Maintenance	5,55,662.00			
0.80	Rain water Harvest	1,20,000.00			
8,187	Stationary	2,180.00			
15,000	UPS Maintenance				
17,500	Water Charges	£2)			
55,556	Refreshment Expense	3,170.00			
2,12,043	Miscellaneous Exp	11,347.00			
2,37,500	Genset Maintanance	23,056.00			1
64,365	Vehicle Maintenance	1,05,108.00			
27,325	Incidental Clurge	5,000.00			
	Installation Charge	8,260:00			
64,736	Play Ground Sports & Material	100000000000000000000000000000000000000			
1,00,569	Printing A/c	47,262.00			
958:A-23	NSS Registration Fee	2,420,00	1		
-	OMNI Insurance	6,700.00	1		
#2	Painting Work	8,74,974.00			
2,14,955	Inaugration Expenses				
25,040	Impection Expenses	2500000 GA	1		
1,95,304	Cleaning Charges	3,78,191.00			
9,500	Faculty Meeting Expenses	10,000.00			
43,205	FD Interest	1	1 1		
45,817	Cleaning material expenses				
The state of the s	Garden Maintenance	2,53,100.00	1		
3,95,000.00	Licenses Renewal				
	# Possibles	68,81,307.56			
77,20,108	To Depreciation	entarthe inc			
	To Excess of Income over				
51000000000		1,28,85,711.99			
40,15,673	Expenditure	1,40,03,711.99			
3,44,16,160	Total	4,18,06,055.15	3,44,16,160	Total	4,18,06,055,1
A Semiological	Salva (97		As pe	our report of even dat
LACE: MAD	URAI		3	for MANOHAR CHOWDHI	RY & ASSOCIATE
ATE: 20.11.2	021 12AAAAUS3518			CHARTE	RED ACCOUNTANT

HOW_

C.D. YLWY

Dr. M. DAVAMANI CHRISTOBER
Dr. C. DOROTHY SHEELA
PRINCIPAL & SECRETARY
PRINCIPAL & SECRETARY
BURSAR

LDANIEL SELVARAJ PARTNER Membership No. 200322