St. PETER'S UNIVERSITY

St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared under Section 3 of the UGC Act. 1956)
AVADI, CHENNAI – 600 054.

MINUTES OF THE 20th MEETING OF THE BOARD OF STUDIES IN
COMPUTER SCIENCE & APPLICATIONS

Held on 18.09.2019

Members Present

S.No	Name	Designation	Member	Signature
1.	Dr. R.Latha	Professor& Head	Chairperson	
2.	Mrs.S.Brindha	Assistant Professor	Member	
3.	Mr. M.C.Babu	Assistant Professor	Member	
4.	Mrs. R.Subhashni	Assistant Professor	Member	
5.	Dr.S.Sasikala,	Professor (External)	(University of Madras-Chennai)	
6.	Mr. M E Thyagarajan, (External)	(Co-founder of Radiare Software Solutions-Chennai)	Industry Expert Member	

St. Peter's Institute of Higher Education and Research
Deemed to be University
Chennai 600 054

Registrar
St. Peter's Institute of Higher Education and Research
(Deemed to be University U/S 3 of the UGC Act, 1956)
Avadi, Chennai-600 054.

Chairperson

20.1	Considered the minutes of the 19th meeting of Board of Studies in Computer Applications and Computer Science held on 13.3.2019. **RESOLVED** that the minutes of the 19th meeting of Board of Studies in Computer Applications held on 13.3.2019 to be confirmed
20.2	Considered the provision for the students of B.CA and B.Sc(CS) to have private study for the Non – Tamil and Non –English languages. **RESOLVED** that the the provision for the students of B.CA and B.Sc(CS), to have private study for the Non – Tamil and Non –English languages be approved.
20.3	Reviewed the Regulation & Syllabi of B.C.A and B.Sc(CS) programme under the Regulations 2016 with Choice Based Credit System (CBCS). **RESOLVED** that the Syllabi of B.C.A B.C.A and B.Sc(CS) programme under the Regulations 2016 with Choice Based Credit System (CBCS) to be continued.
20.4	Reviewed the Syllabi and course structure of M.Sc(CS) programmes under the Regulations 2016 with Choice Based Credit System (CBCS). **RESOLVED** that the Syllabi and course structure of M.Sc(CS) programmes under the Regulations 2016 with Choice Based Credit System (CBCS) be continued taking into consideration of the suggestions and remarks given by the members to include following new courses. (Appendix - I)
20.5	Reviewed the curricula developed having relevance to the local/national/regional/global developmental needs with learning objectives including programme outcomes, program specific outcomes and course outcomes of all the programmes. **RESOLVED** that the syllabi of B.C.A programme under the Regulations 2016,B.Sc(CS) progrmme Under the Regulations 2016 and M.Sc(CS) programme under the Regulations 2016 developed having relevance to the local/national/regional/global developmental needs with learning objectives including programme outcomes, program specific outcomes and course outcomes of all the programmes be approved.
20.6	Considered to include courses having focus on employability/ entrepreneurship /skill development in the syllabi of B.C.A under the Regulations 2016, B.Sc(CS) under the Regulations 2016, M.Sc(CS) under the Regulations 2016. **RESOLVED** that the courses having focus on employability/ entrepreneurship /skill development year wise in the syllabi of B.C.A, B.Sc(CS),M.Sc(CS) under the Regulations 2016 to be approved.

St. Peter's Institute of Higher Education and Research
Deemed to be University
Chennai 600 054

Registrar
St. Peter's Institute of Higher Education and Research
(Deemed to be University U/S 3 of the UGC Act, 1956)
Avadi, Chennai-600 054.

20.7	Considered to include value added courses imparting transferable and life skills offered beyond the curriculum in the syllabi of BC.A, B.Sc(CS), M.Sc(CS). **RESOLVED** that the value added courses imparting transferable and life skills offered beyond the curriculum such as course on "Office Automation" be approved for the upcoming semester (2018-19 Odd semester).
20.8	Reviewed and considered the curriculum feedback analysis and action taken report based on the suggestions given by the stake holders. **Resolved** that the curriculum feedback analysis and action taken report based on the suggestions given by the stake holders to be approved. (Appendix – III)

Date: 18.09.2019

Chairman

St. Peter's Institute of Higher Education and Research
Deemed to be University
Chennai 600 054

Registrar
St. Peter's Institute of Higher Education and Research
(Deemed to be University U/S 3 of the UGC Act, 1956)
Avadi, Chennai-600 054.

St. PETER'S UNIVERSITY

St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared under Section 3 of the UGC Act. 1956)
AVADI, CHENNAI – 600 054.

MINUTES OF THE 21st MEETING OF THE BOARD OF STUDIES IN
COMPUTER SCIENCE & APPLICATIONS

Held on 19.02.2020

Members Present

S.No	Name	Designation	Member	Signature
1.	Dr. R.Latha	Professor& Head	Chairperson	
2.	Dr.D.Kavitha,	Asso. Professor	Member	
3.	Mrs.S.Brindha	Assistant Professor	Member	
4.	Mr. M.C.Babu	Assistant Professor	Member	
5.	Mrs. R.Subhashni	Assistant Professor	Member	
6.	Dr.S.Sasikala,	Professor (External)	(University of Madras-Chennai)	
7.	Mr. M E Thyagarajan, (External)	(Co-founder of Radiare Software Solutions-Chennai)	Industry Expert Member	
8.	Mr. R. Ravishankar, (External)	(Asst.Vice President, K7 Computing Pvt.Ltd, Chennai)	Industry Expert Member	

St. Peter's Institute of Higher Education and Research ★ Deemed to be University Chennai 600 054

Chairperson

Registrar
St. Peter's Institute of Higher Education and Research
(Deemed to be University U/S 3 of the UGC Act, 1956)
Avadi, Chennai-600 054.

21.1	Considered the minutes of the 20th meeting of Board of Studies in Computer Applications and Computer Science held on 20.09.2019. **RESOLVED** that the minutes of the 20th meeting of Board of Studies in Computer Applications held on 20.09.2019 to be confirmed
21.2	Considered the provision for the students of B.CA and B.Sc(CS) to have private study for the Non – Tamil and Non –English languages. **RESOLVED** that the the provision for the students of B.CA and B.Sc(CS), to have private study for the Non – Tamil and Non –English languages be approved.
21.3	Reviewed the Regulation & Syllabi of B.C.A and B.Sc(CS) programme under the Regulations 2020 with Choice Based Credit System (CBCS). **RESOLVED** that the Syllabi of B.C.A B.C.A and B.Sc(CS) programme under the Regulations 2020 with Choice Based Credit System (CBCS) to be continued.
21.4	Reviewed the Syllabi and course structure of M.Sc(CS) programmes under the Regulations 2020 with Choice Based Credit System (CBCS). **RESOLVED** that the Syllabi and course structure of M.Sc(CS) programmes under the Regulations 2020 with Choice Based Credit System (CBCS) be continued taking into consideration of the suggestions and remarks given by the members to include following new courses. (Appendix - I)
21.5	Reviewed the curricula developed having relevance to the local/national/regional/global developmental needs with learning objectives including programme outcomes, program specific outcomes and course outcomes of all the programmes. **RESOLVED** that the syllabi of B.C.A programme under the Regulations 2020,B.Sc(CS) progrmme Under the Regulations 2020 and M.Sc(CS) programme under the Regulations 2020 developed having relevance to the local/national/regional/global developmental needs with learning objectives including programme outcomes, program specific outcomes and course outcomes of all the programmes be approved.
21.6	Considered to include courses having focus on employability/ entrepreneurship /skill development in the syllabi of B.C.A under the Regulations 2020, B.Sc(CS) under the Regulations 2020, M.Sc(CS) under the Regulations 2020. **RESOLVED** that the courses having focus on employability/ entrepreneurship /skill development year wise in the syllabi of B.C.A, B.Sc(CS),M.Sc(CS) under the Regulations 2020 to be approved.

St. Peter's Institute of Higher Education and Research Deemed to be University Chennai 600 054

Registrar
St. Peter's Institute of Higher Education and Research
(Deemed to be University U/S 3 of the UGC Act, 1956)
Avadi, Chennai-600 054.

21.7	Considered to include value added courses imparting transferable and life skills offered beyond the curriculum in the syllabi of BC.A,B.Sc(CS), M.Sc(CS). **RESOLVED** that the value added courses imparting transferable and life skills offered beyond the curriculum such as course on "Office Automation" be approved for the upcoming semester (2017-18 Odd semester).
21.8	Reviewed and considered the curriculum feedback analysis and action taken report based on the suggestions given by the stake holders. **Resolved** that the curriculum feedback analysis and action taken report based on the suggestions given by the stake holders to be approved. (Appendix – III)

Date: 19.02.2020

Chairperson

St. Peter's Institute of Higher Education and Research
Deemed to be University
Chennai 600 054

Registrar
St. Peter's Institute of Higher Education and Research
(Deemed to be University U/S 3 of the UGC Act, 1956)
Avadi, Chennai-600 054.

IGNITE • INSPIRE • INNOVATE

St.PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Deemed to be University U/S 3 of the UGC Act, 1956)
AVADI, Chennai – 600054.TamilNadu.
Phone:044-26558080-84
E-mail:registrar@spiher.ac.in
Website:www.spiher.ac.in

NEW COURSES FOR THE ACADEMIC YEAR 2019-2020

BACHELOR OF COMPUTER APPLICATION

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	CAU	Bachelor of Computer Science and Application	218PMPE03	SPECTROSCOPY
2	CAU	Bachelor of Computer Science and Application	119UTMT01	PART - I TAMIL I
3	CAU	Bachelor of Computer Science and Application	119UEHT02	PART - II TECHNICAL ENGLISH
4	CAU	Bachelor of Computer Science and Application	119UIBT03	COMPUTERS FUNDAMENTAL AND ORGANIZATION
5	CAU	Bachelor of Computer Science and Application	119UIBT04	PROGRAMMING IN C
6	CAU	Bachelor of Computer Science and Application	119UIBT05	IBM COGNOS ANALYTICS
7	CAU	Bachelor of Computer Science and Application	119UIBP01	C PROGRAMMING LAB
8	CAU	Bachelor of Computer Science and Application	119UIBT06	MATHEMATICS - I
9	CAU	Bachelor of Computer Science and Application	119UIBT07	HTML
10	CAU	Bachelor of Computer Science and Application	219UIBT02	OPERATING SYSTEM
11	CAU	Bachelor of Computer Science and Application	219UIBT03	DATA COMMUNICATION AND NETWORKING
12	CAU	Bachelor of Computer Science and Application	219UIBT04	PYTHON PROGRAMMING
13	CAU	Bachelor of Computer Science and Application	219UIBT05	MATHEMATICS II
14	CAU	Bachelor of Computer Science and Application	219UIBT06	HTML
15	CAU	Bachelor of Computer Science and Application	219UIBT07	SOFT SKILLS -I
16	CAU	Bachelor of Computer Science and Application	119UIBT07J	MS ACCESS
17	CAU	Bachelor of Computer Science and Application	119UIBT08	PHOTOSHOP
18	CAU	Bachelor of Computer Science and Application	119UIBT09	FLASH

St. Peter's Institute of Higher Education and Research Deemed to be University Chennai 600 054

Registrar
St. Peter's Institute of Higher Education and Research
(Deemed to be University U/S 3 of the UGC Act, 1956)
Avadi, Chennai-600 054

IGNITE • INSPIRE • INNOVATE

St.PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Deemed to be University U/S 3 of the UGC Act, 1956)
AVADI, Chennai – 600054.TamilNadu.
Phone:044-26558080-84
E-mail:registrar@spiher.ac.in
Website:www.spiher.ac.in

NEW COURSES FOR THE ACADEMIC YEAR 2019-2020

B.Sc. – COMPUTER SCIENCE

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	CPU	B.Sc. - Computer Science	616UCST08	COMPUTER GRAPHICS
2	CPU	B.Sc. - Computer Science	418PMPE02	INSTRUMENTAL METHODS OF ANALYSIS
3	CPU	B.Sc. - Computer Science	116UCST06	BUSINESS AND OFFICE APPLICATIONS
4	CPU	B.Sc. - Computer Science	216UCST07	MS ACCESS LAB
5	CPU	B.Sc. - Computer Science	216UCST08	FLASH LAB

St. Peter's Institute of Higher Education and Research * Deemed to be University Chennai 600 054

Registrar
St. Peter's Institute of Higher Education and Research
(Deemed to be University U/S 3 of the UGC Act, 1956)
Avadi, Chennai-600 054

B.A./ B.SC./ BBA./ B.Com./ BCA. Common to all

முதல் பருவம்

Course code - ATLT1601	PART - I	L	T	P	C
	பொதுத் தமிழ்	5	0	0	4

அலகு - 1 **பாட நேரம் : 10**

அ. நாட்டுப்புற இலக்கிய வரலாறு, நாட்டுப்புறப்பாடல்கள், நாட்டுப்புறக்கதைகள், நாட்டுப்புறக் கதைப்பாடல்கள் பழமொழிகள், விடுகதைகள்.

ஆ. உரைநடை இலக்கிய வரலாறு

இ. நாவலின் தோற்றமும் வளர்ச்சியும்

ஈ. கவிதை இலக்கிய வரலாறு

புதுக் கவிதையின் தோற்றமும் வளர்ச்சியும்

உ. நாடக இலக்கியத்தின் தோற்றமும் வளர்ச்சியும்

அலகு - 2 **பாட நேரம் : 10**

நாட்டுப்புறப் பாடல்கள்

தாலாட்டுப் பாடல், ஒப்பாரி பாடல் , தொழில் பாடல்

கட்டுரை

அ. உள்ளுணர்வு கனவாக வெளிப்படுகிறது - எம். எஸ் .உதயமூர்த்தி

ஆ. வீழ்ந்த ஆலமரம் - கல்கி

இ. ஏழாவது அறிவு - (போரின்றி வெற்றி மட்டும்) வெ. இறையன்பு

அலகு - 3 **பாட நேரம் : 10**

அ. பாரதியார் - மனதில் உறுதி வேண்டும், புதுமைப் பெண்

ஆ. பாரதிதாசன்- தமிழ்க்காதல், தமிழ்வளர்ச்சி, எந்நாளோ?

இ. கவிமணி - உடல் நலம் பேணல்

அலகு - 4 **பாட நேரம் : 10**

அ. கண்ணதாசன் - நீ மணி, நான் ஒலி

ஆ. கவிஞர் அறிவுமதி - நட்புக் காலம்

இ. வைரமுத்து - பெய்யெனப் பெய்யும் மழை (விதைத்சோளம்)

ஈ. மு.மேத்தா - வாழை மரத்தின் சபதம்

St. Peter's Institute of Higher Education and Research Deemed to be University Chennai 600 054

Registrar
St. Peter's Institute of Higher Education and Research
(Deemed to be University U/S 3 of the UGC Act, 1956)
Avadi, Chennai-600 054.

உ. அப்துல்ரகுமான் - கனவு நாயகன் அப்துல்கலாம்

அலகு - 5 **பாட நேரம் : 12**

நாடகம்

சீவகங்கை சீமை – கண்ணதாசன்

அலகு - 6 மொழிப்பயிற்சி **பாட நேரம் : 8**

பொருந்திய சொல் தருதல்

மரபுத்தொடர்கள், கலைச்சொற்கள், நேர்காணல்

மொத்த பாட நேரம் : 60

CO NO	COURSE OUTCOME	RBT
CO1	நாட்டுப்புற இலக்கியங்களையும் அதன் வரலாற்றினையும் அறியச் செய்தல். உரைநடை, நாவல், கவிதை, நாடகம் முதலிய வளர்ச்சியையும் இலக்கியங்களின் தோற்றத்தினையும் அறியச் செய்தல்.	K2
CO2	கட்டுரைகள் எழுதும் முறையினை கற்றுக் கொடுத்தல்.	K6
CO3	மரபுக் கவிஞர்களின் கவிதைகள், புதுக்கவிதையின் கவிதைகளை மாணவர்களை அறியச் செய்தல்.	K5
CO4	நாடகம் மற்றும் இலக்கணங்களைக் கற்றுக் கொடுத்தல்.	K6
CO5	எழுத்து பிழையின்றி எழுத கற்றுக்கொடுத்தல்	K3

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	-	-	2	-	-	-	-	-
CO2	-	2	-	-	-	-	-	-
CO3	-	-	-	-	2	-	-	-
CO4	-	-	-	-	-	-	2	-
CO5	-	-	-	-	-	-	2	-
AVERAGE	-	2	2	-	2	-	2	-

Since it is mapped with PO2, PO3, PO5 and PO7 this subject is consider for empolyblity

St. Peter's Institute of Higher Education and Research Deemed to be University Chennai 600 054

Registrar

St. Peter's Institute of Higher Education and Research
(Deemed to be University U/S 3 of the UGC Act, 1956)
Avadi, Chennai-600

4. HTML

Course Objectives:

- To aware of the concepts web designing using HTM5.
- To enable the students to design attractive web pages.

UNIT - I: Introduction: Web Basics: What is Internet – Web browsers – What is Web page – HTML Basics: Understanding tags.

UNIT- II: Tags for Document structure(HTML, Head, Body Tag). Block level text elements: Headings paragraph(<p> tag) – Font style elements: (bold, italic, font, small, strong, strike, big tags)

UNIT - III: Lists: Types of lists: Ordered, Unordered – Nesting Lists – Other tags: Marquee, HR, BR- Using Images – Creating Hyperlinks.

UNIT - IV : Tables: Creating basic Table, Table elements, Caption – Table and cell alignment – Rowspan, Colspan – Cell padding.

UNIT - V : Frames: Frameset – Targeted Links – No frame – Forms : Input, Textarea, Select, Option.

Course Outcomes:

1. To Learn the basic principles involved in web designing
2. To Understand HTMLtags and its attributes
3. To Design web pages with text, frames images and hyper links
4. To Design a website

Text Book:

1. HTML Complete Reference, Teach Yourself Web Publishing with HTML – Laura Lemay.

Reference Books

1. HTML – E Stephen Mack, Janan Platt.
2. "HTML5: Up and Running" by Mark Pilgrim
3. "Introducing HTML5" by Remy and Bruce
4. "HTML5: Designing Rich Internet Applications" by Matthew David

St. Peter's Institute of Higher Education and Research Deemed to be University Chennai 600 054

Registrar
St. Peter's Institute of Higher Education and Research
(Deemed to be University U/S 3 of the UGC Act, 1956)
Avadi, Chennai-600 054.

Course Code: **116UCST05**
Course Name: HTML

CO PO MATRICES:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	3	2	-	3	2	3	2
CO2	3	3	2	-	3	2	3	2
CO3	3	3	2	-	3	2	3	2
CO4	3	3	2	-	3	2	3	2
CO5	3	3	2	-	3	2	3	2
AVERAGE	3	3	2	-	3	2	3	2

Since it is mapped with PO1, PO2, PO3, PO5 ,PO6 and PO7 this subject is considered forEmployability & Skill Development as well as Entrepreneurship.

Registrar
St. Peter s Institute of Higher Education and Research
Deemed to be University U/S 3 of the UGC Act, 1956
Avadi, Chennai-600 054

3. FLASH

Course Objectives:

- To utilize the latest image editing tool and animation tool to create and manipulate images and animation.
- To includes hands-on experience with exercises and projects to provide students with a thorough working knowledge of Adobe Photoshop and Flash.
- To learn to create graphics and retouch images, use layers, support video, work with vector tools, manage digital assets, work with RAW camera files, manage color, and prepare images for output to the web, Prepare 2D animation, interactive presentation, slideshows and games and enables the student to think creatively.

Unit – I

Introduction to Flash – simple drawing techniques – adding some easy animations – learning the tools - buttons

Unit – II

Controlling drawing object – creating symbols – instances- making use of Library – painting – motion guide path.

Unit – III

Flash tweening– suing masking techniques – layers and frames.

Unit – IV

Overview of animation -Animating your production – sound – video - publish flash movies – importing.

Unit – V

Introduction to scripting - Action script applications

Course Outcomes:

1. To Prepare Images for Print and Web, Create Layouts for web pages, Paper Adverts, CD covers, Posters, brochure Package designing, take necessary steps to fix colour issues.
2. To Converting B/W photo to colour.
3. To Create Interactive slide Shows, Interactive high graphic Presentations and 2D animation.

Books for Reference:

1. Mr. K. K. Thyagharajan, A.P., B. **Anbumani**, K.K, "**Flash** 2004" .4 Robert Reinhardt, Flash 5 Bible

St. Peter's Institute of Higher Education and Research Deemed to be University Chennai 600 054

Registrar
St. Peter's Institute of Higher Education and Research
(Deemed to be University U/S 3 of the UGC Act, 1956)
Avadi, Chennai-600 054.

Course Code: **116UCST05**
Course Name: FLASH

CO PO MATRICES:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	3	2	-	3	2	3	2
CO2	3	3	2	-	3	2	3	2
CO3	3	3	2	-	3	2	3	2
CO4	3	3	2	-	3	2	3	2
CO5	3	3	2	-	3	2	3	2
AVERAGE	3	3	2	-	3	2	3	2

Since it is mapped with PO1, PO2, PO3, PO5 ,PO6 and PO7 this subject is considered forEmployability & Skill Development as well as Entrepreneurship.

Registrar
St. Peter's Institute of Higher Education and Research
(Deemed to be University U/S 3 of the UGC Act, 1956)
Avadi, Chennai-600 054

NON MAJOR ELECTIVE

116UCST05

1. **MS ACCESS**

Course Objectives:

- To identify the terminology and functions common to most database management systems.
- To identify the elements of good database design.
- To create and use tables.
- To create and use queries.
- To create simple reports and forms.
- To use the Access online Help feature.
- To discuss ethical issues connected to the use of databases.

UNIT- I : Introduction to database - What is a Database , Why use a Relational Database, Overview of database design – Data Normalization(Determining tables, Determining Fields, Determining Relationships)Integrity Rules (Primary/Foreign Key, One-to-Many, Many-to-Many, One-to-One) Introduction to MS Access .

UNIT- II : Create a Table in MS Access - Data Types, Field Properties , Fields:names, types, properties--default values, format, caption, validation rules Data Entry Add record delete recode and edit text Sort, find/replace, filter/select, re-arrange columns, freeze columns . Edit a Tables- copy, delete, import, modify table structure find replace.

UNIT – III : Setting up Relationships- Define relationships, add a relationship, set a rule for Referential Integrity, change the join type, delete a relationship, save relationship Queries & Filter – difference between queries and filter , filter using multiple fields AND,OR , advance filter Queries create Query with one table , fiend record with select query, find duplicate record with query , find unmatched record with query, run query ,save and change query.

UNIT – IV : Introduction to Forms Types of Basic Forms: Columnar, Tabular, Datasheet, Main/Subforms, add headers and footers, add fields to form, add text to form use label option button, check box ,combo box, list box Forms Wizard, Create Template.

UNIT – V : Introduction to Reports , Types of Basic Reports: Single Column,Tabular Report Groups/Total, single table report multi table report preview report print report, Creating Reports and Labels, Wizard

Course Outcomes:

1. To understand how Access is used and how to navigate around it
2. To design a database with lookup tables
3. To create a database structure using Access
4. To modify the structure of an existing table
5. To add transactional records to a lookup database.
6. To create meaningful reports from tables.

Reference Books

1. A first course in Computers , Sanjay Saxena, Vikas Publishing house Pvt Ltd.,New Delhi
2. Ms Office XP complete BPB Publications
3. Ms Access 2002 fast and easy by Faithe Wempen PHI

St. Peter's Institute of Higher Education and Research Deemed to be University Chennai 600 054

Registrar
St. Peter's Institute of Higher Education and Research
(Deemed to be University U/S 3 of the UGC Act, 1956)
Chennai-600 054.

Course Code: **116UCST05**
Course Name: MS-ACCESS

CO PO MATRICES:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	3	2	-	3	2	3	2
CO2	3	3	2	-	3	2	3	2
CO3	3	3	2	-	3	2	3	2
CO4	3	3	2	-	3	2	3	2
CO5	3	3	2	-	3	2	3	2
AVERAGE	3	3	2	-	3	2	3	2

Since it is mapped with PO1, PO2, PO3, PO5 ,PO6 and PO7 this subject is considered forEmployability & Skill Development as well as Entrepreneurship.

St. Peter's Institute of Higher Education and Research Deemed to be University Chennai 600 054

Registrar
St. Peter's Institute of Higher Education and Research
Deemed to be University U/S 3 of the UGC Act, 1956
Avadi, Chennai-600 05

To acquire the knowledge to build the logic and develop a solution for a problem statements.

4. HTML LAB

Course Objectives:

To design and provide a practical exposure to the students.

1. Write a script to create an array of 10 elements and display its contents.
2. Create a simple calculator using form fields. Have two fields for number entry and one field for the result. Allow the user to be able to use plus, minus, multiply and divide.
3. Create a document and add a link to it. When the user moves the mouse over the link, it should load the linked document on its own. (user is not required to click on the link)
4. Create a document which opens a new window without a toolbar, address bar or a status bar that unloads itself after one minute.
5. Design an HTML page that includes document structure tags, title, line break, multiple headings and link to e-mail address.
6. Create an HTML file which is the main page with an image and some text messages along with hyperlinks which is linked to various pages. The navigation should be such that the links take you to the appropriate page and then back to the main page.
7. Create a HTML page to demonstrate the usage of Frames. Choose the content of the page on your own.
8. Design an application for pay slip through HTML forms.

Course Outcomes:

To acquire the knowledge to build the logic and develop a solution for a problem statements.

Registrar
St. Peter's Institute of Higher Education and Research
Deemed to be University U/S 3 of the UGC Act, 1956
Avadi, Chennai-600 054

Course Code: **2 16UCSP05**
Course Name: HTML LAB

CO PO MATRICES:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	3	2	-	3	-	3	2
CO2	3	3	2	-	3	-	3	2
CO3	3	3	2	-	3	-	3	2
CO4	3	3	2	-	3	-	3	2
CO5	3	3	2	-	3	-	3	2
AVERAGE	3	3	2	-	3	-	3	2

Since it is mapped with PO1, PO2, PO3, PO5, PO7 AND PO8 this subject is considered forEmployability & Skill Development

St. Peter's Institute of Higher Education and Research Deemed to be University Chennai 600 054

Registrar
St. Peter's Institute of Higher Education and Research
Deemed to be University U/S 3 of the UGC Act, 1956
Avadi, Chennai-600 054

ALLIED-I (SEMESTER - I)

AMAT1620	MATHEMATICS-I	L	T	P	C	Total Marks
		6	1	0	6	100

Prerequisites : None

COURSE OBJECTIVES

(i) This course introduces the concepts of approximation values.
(ii) To learn the basic concepts of matrices.
(iii) To train the students in the basic Differentiation.

UNIT-I: ALGEBRA AND NUMERICAL METHODS **18Hrs**

Algebra: Summation of series - simple problems.

Numerical Methods: Operators E,Δ,∇, difference tables - Newton -Raphson method-Newton"s forward and backward interpolation formulae for equal intervals-Lagrange's interpolation formula.

UNIT-II:MATRICES: **18Hrs**

Symmetric-Skew-Symmetric-Orthogonal-Hermetian-Skew-Hermetian-Unitary Matrices-Eigen values and Eigen-vectors-Cayley-Hamilton theorem (without proof)-verification-Computation of inverse of matrix using Cayley-Hamilton theorem.

UNIT-III: THEORY OF EQUATIONS **18Hrs**

Polynomial equations with real coefficients-irrational roots-complex roots-symmetric functions of roots-transformation of equation by increasing or decreasing roots by a constant-reciprocal equation-Newton's method to find a root approximately - simple problems.

UNIT-IV: TRIGONOMETRY **18Hrs**

Expansions of sin(nθ) and cos(nθ) in a series of powers of sinθ and cosθ - Expansions of $\sin^n\theta$, $\cos^n\theta$, $\tan^n\theta$ in a series of sines, cosines and tangents of multiples of "θ" - Expansions of sinθ, cosθ and tanθ in a series of powers of "θ"-Hyperbolic and inverse hyperbolic functions.

UNIT-V: DIFFERENTIAL CALCULUS **18Hrs**

Successive differentiation-n^{th} derivatives-Jacobians-Curvature and radius of curvature in Cartesian co-ordinates-maxima and minima of functions of two variables-Lagrange's multipliers - Simple problems.

TOTAL HOURS :90

St. Peter's Institute of Higher Education and Research
Deemed to be University
Chennai 600 054

Registrar
St. Peter's Institute of Higher Education and Research
(Deemed to be University U/S 3 of the UGC Act, 1956)
Avadi, Chennai-600 054.

COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO 1: Solve algebraic series and solve equations numerically

CO 2: Get knowledge of matrices to find eigen values and eigen vectors.

CO 3: Find roots of equations.

CO 4: Solve all kinds of trigonometric functions.

CO 5: Get the knowledge of radius of curvature.

TEXT/REFERENCE BOOKS

1. Allied Mathematics Volume I and II by P. Duraipandian and S. Udayabaskaran, Published by

   S. Chand-2016 Edition (Reprint)
2. S. Narayanan and T.K. Manickavasagam Pillai – Ancillary Mathematics, S. Viswanathan Printers, 2009, Chennai.
3. Dr. A.Singaravelu-Allied Mathematics, Published by Meenakshi Agency 2017 .

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Solve algebraic series and solve equations numerically	K1, K2 ,K3, K5
CO2	Get knowledge of matrices to find eigen values and eigen vectors.	K1,K2,K3,K4,K5
CO3	Find roots of equations.	K1,K2,K3.K4,K5
C04	Solve all kinds of trigonometric functions.	K1,K2,K3
C05	Get the knowledge of radius of curvature.	K1, K2 ,K3, K5

St. Peter's Institute of Higher Education and Research Deemed to be University Chennai 600 054

Registrar

St. Peter's Institute of Higher Education and Research
(Deemed to be University U/S 3 of the UGC Act, 1956)
Avadi, Chennai-600 054.

Mapping with Programme Outcomes

CO's\PO's\PSO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	2	2	-	-	2	2	2	-	1	2	2
CO2	2	2	2	-	2	2	1	1	-	2	2
CO3	2	2	-	-	2	1	1	2	-	2	2
CO4	-	2	2	-	1	-	2	-	-	1	1
CO5	-	2	2	-	1	-	1	-	-	1	2

Strong – 3; Medium – 2; Low – 1.

St. Peter's Institute of Higher Education and Research
Deemed to be University
Chennai 600 054

Registrar
St. Peter's Institute of Higher Education and Research
(Deemed to be University U/S 3 of the UGC Act, 1956)
Avadi, Chennai-600 054.