NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

DEPARTMENT OF INFORMATION TECHNOLOGY

c) Local, Global and Regional needs format

Information Technology						
Programme: B.Sc. Information Technology				**Year 2019 - 2020**		
Course Code	**Title of the Course**	**Need(s)**				**Rationale**
		Local	**Regional**	**National**	**Global**	
19UIT101	Programming in 'C'			✓		To know well about the basic programming concepts
19UIT102	Computer System Architecture	✓				To meet the requirements of appearing National Eligible Test (NET) and SET
19UIT103	Lab. I - Programming in 'C'			✓		To know well about the basic programming skills
19UIT1A1	Mathematics – I (Statistics))	✓		✓		To build the mathematical skills for programming
19UIT204	Object Oriented Programming with Java			✓		To design and program stand-alone Java applications.
19UIT205	Data Structures				✓	To solve problems using data structures and writing programs
19UIT206	Lab. II - Programming in Java			✓		To design and program stand-alone Java applications.

Course Code	Course Title						Course Objective
19UIT2A2	Mathematics – II (Discrete Mathematics)		✓				To build the mathematical skills for programming
18UIT307	Operating Systems		✓				To make the computer system convenient to use in an efficient manner
18UIT308	Relational Database Management System				✓		To have a broad understanding of database concepts and database management system software.
18UIT309	Client/Server Computing	✓	✓		✓		To learn about network connectivity models.
18UIT310	Lab. III - RDBMS & Java (Front End)				✓		To know well about the basics of Database programming.
18UIT311	Lab. IV - HTML & DHTML (Self Study)	✓					To get better knowledge to build a website.
18UIT3A3	GE III – ALLIED III: Microprocessor and Assembly Language Programming				✓		To meet the requirements of appearing National Eligible Test (NET) and SET
18UIT3N1	Skill Based Non-Major- I (computer fundamentals)	✓			✓	✓	To prepare students for evaluating the computer fundamentals.
18UIT3N2	Skill Based Non-Major- I (Internet Basics)	✓			✓	✓	To understand and Identify the existing configuration of the Internet & peripherals.
18UIT412	Computer Networks					✓	To meet the requirements of appearing National Eligible Test (NET) and

Code	Course					
						SET
18UIT413	Advanced Java Programming	✓		✓		To learn test, and debug advanced-level Object-Oriented rogram using Java
18UIT414	C#.Net Programming	✓		✓		To learn concept of front-end designing of an application.
18UIT415	Lab. V – Programming in Advanced Java			✓		To learn test, and debug advanced-level Object-Oriented Program using Java
18UIT416	Lab. VI - C#.Net Programming	✓		✓		To learn components of front-end designing of an application.
18UIT4A4	Software Engineering	✓	✓	✓	✓	This broad education is necessary to understand the High impact of software Engineering solutions in local and global, economic, environmental, and societal context
19UIT4N3	Skill Based Non-Major- II (Information Security)				✓	To Apply principles of security to computer.
19UIT4N4	Skill Based Non-Major- II (Hardware &Networking)			✓	✓	To understand and Identify the existing configuration of the computer & peripherals

18UIT518	Information Security				✓	To enhance the security of various components using algorithms globally
17UIT517	Open Source Methodologies			✓		To know about design and working principles of open Source software.
17UIT519	Mobile Computing	✓		✓		To enable the Students to learn mobile techniques such as 2G, 3G, 4G & 5G
17UIT519	Cryptography & Network Security					
17UIT519	Data Mining and Analytics				✓	Different types of organizations use the technology to harness the data and extract value from it.
17UIT519	Embedded System				✓	To learn the basic concept of embedding techniques.
17UIT520	Lab.VII-Open Source Methodologies			✓		To give practical knowledge on commands and editors available in linux platform.
						Improves ability to usethetechniques, skills,andtorapidly learn and apply emerging software

Code	Course					Objective
17UIT521	Lab.VIII-Software Testing Tools			✓		testing technologies necessary for SW development and usage.
17UIT5S1	Skill Based Major Elective - Lab. I Web Programming (PHP)	✓	✓			To get better knowledge to build a website.
17UIT5S2	Skill Based Major Elective - Lab. I Web Programming Lab.(JSP)	✓	✓			To get better knowledge to build a website and back end connectivity.
17UIT622	Computer Graphics		✓		✓	To motivate Students about the Computer Graphics field because they want t o understand how to build fascinating applications like Online games.
17UIT623	Cloud Computing		✓	✓	✓	To enhance the effectiveness of various businesses usingcloudstorage globally
17UIT623	Digital Image Processing		✓		✓	To learn about various compression and segmentation techniques.

17UIT623	Software Project Management		✓		✓	To learn about various stages of software development
17UIT624	Artificial Intelligence		✓	✓	✓	Learning and analyzing the Artificial Intelligence techniques and concepts helps in solving real world problems
17UIT624	E-Commerce	✓	✓	✓	✓	Utilizing this powerful E-commerce tools wisely has become eminently important for business-to-business (B2B) companies
17UIT624	Multimedia Techniques	✓	✓		✓	To learn about animation using various tools.
17UIT625	Lab. IX - Graphics & Multimedia	✓	✓		✓	To learn about 2D & 3D graphics using various tools
17UIT626	Project					To give practical knowledge on courses studied throughout and used to develop software.

17UIT6S3	Skill Based Major Elective - Lab. I Web Programming (Java script)	✓	✓			To get better knowledge to build a website and to learn about back end connectivity.
17UIT6S4	Skill Based Major Elective - Lab. I Web Programming (ASP)	✓	✓			To get better knowledge to build a website.