



VELS



INSTITUTE OF SCIENCE, TECHNOLOGY
& ADVANCED STUDIES (VISTAS)

(DEEMED TO BE UNIVERSITY Estd. u/s 3 OF THE UGC ACT, 1956)

NAAC ACCREDITED
PALLAVARAM - CHENNAI - INDIA

School of Computing Sciences



Brochure

(Programme and Courses offered)

2016-2017

PV Vaithiyalingam Road, Velan Nagar, Pallavaram, Chennai - 600117.

Phone: + 91 - 44 - 2266 2500 / 2501 / 2502 / 2503

Website: www.velsuniv.ac.in

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About the School

The application of computers in the modern world is unlimited. Computers are extensively used in research and development, besides their routine use in commerce. As the use of computers is manifold, the demand for trained professionals is also increasing.

Openings for computer trained graduates are too many and fast expanding. In order to meet the above, the department has separate laboratory facilities for UG and PG Courses with the latest requirements and a well connected local area network as a back bone. Apart from it, separate Unix and Windows-NT servers are provided to quench the thirst of the students. In order to upgrade the students' knowledge with the changing environment, a separate online internet accessing facility is provided. To achieve individual attention, each student will be provided during the practical hours at a basis of one man-one machine.

The School is equipped with a separate hardware laboratory to solve the purpose of assembly language programming which includes microprocessor trainer kits and interfacing devices. To interact with the global environment, periodic inter-universities, seminars and symposia are conducted. For the benefit of outgoing students, the institution's placement cell has tied up with some of the leading software houses for conducting regular campus interviews.

SCHOOL OF COMPUTING SCIENCES

1.	B.Sc. Computer Science	...	3 years (6 semesters)
2.	B.C.A.	...	3 years (6 semesters)
3.	B.C.A. (Hons)	...	4 years (6 semesters + 1 year compulsory Internship Programme)
4.	B.Sc. Information Technology	...	3 years (6 semesters)
5.	M.Sc. Information Technology	...	2 years (4 semesters)
6.	M.Sc. Computer Science	...	2 years (4 semesters)
7.	M.C.A.	...	3 years (6 semesters)
8.	M.Phil. Computing Sciences	...	1 years (2 semesters)
9.	Ph.D. Computing Sciences	...	3 years

PROGRAM AND COURSE DETAILS 2016-2017

Program Name	Course Code	Subject Name
B.C.A. - Bachelor of Computer Application	15BCA001	PROGRAMMING IN C
	15BCA002	DIGITAL LOGIC FUNDAMENTALS
	15BCA003	PRACTICAL - PROGRAMMING IN C
	15BMA001	MATHEMATICS - I
	15LEN001	ENGLISH PAPER - I
	15LFR001	FRENCH PAPER - I
	15LHN001	HINDI PAPER - I
	15LTA001	TAMIL PAPER - I
	15BCA004	OBJECT ORIENTED PROGRAMMING IN C++
	15BCA005	DATA STRUCTURES
	15BCA006	PRACTICAL - PROGRAMMING IN C++
	15BMA002	MATHEMATICS - II
	15LEN002	ENGLISH PAPER - II
	15LFR002	FRENCH PAPER - II
	15LHN002	HINDI PAPER - II
	15LTA002	TAMIL PAPER - II
	15CBCA31	PROGRAMMING IN JAVA
	15CBCA32	FINANCIAL ACCOUNTING
	15CBCA33	MULTIMEDIA SYSTEMS
	15LENG31	ENGLISH PAPER - III
	15NSS255	NSS - I
	15PBCA31	PRACTICAL - PROGRAMMING IN JAVA
	15UGE526	NATURAL RESOURCES MANAGEMENT
	15CBCA41	VISUAL PROGRAMMING
	15CBCA42	STATISTICAL AND NUMERICAL METHODS
	15DBCA41	DATABASE MANAGEMENT SYSTEMS
	15EVS041	ENVIRONMENTAL STUDIES
	15LENG41	ENGLISH PAPER - IV
	15PBCA41	PRACTICAL - VISUAL BASIC
	15SLEN41	ENGLISH PAPER- IV
	15UGE510	MUSHROOM CULTIVATION AND MEDICINAL MINT GARDENING
	15CBCA51	OPERATIONAL RESEARCH
	15CBCA52	DOT NET PROGRAMMING
15DBCA51	SOFTWARE ENGINEERING	
15DBCA52	WEB TECHNOLOGY	
15GBCA51	STEP UP PROGRAMMING LEVEL - I	

	15PBCA51	PRACTICAL - DOT NET
	15PBCA52	PRACTICAL - WEB TECHNOLOGY
	15CBCA61	DATA COMMUNICATION AND NETWORKING
	15CBCA62	PHP
	15DBCA61	OPERATING SYSTEM
	15DBCA62	SOFTWARE TESTING
	15DBCA63	DATA MINING
	15PBCA61	PRACTICAL - PHP
	15PBCA62	PRACTICAL - SOFTWARE TESTING
B.Sc. - Computer Science	15BCS001	PROBLEM SOLVING TECHNIQUES
	15BCS002	PRACTICAL - I : PROBLEM SOLVING TECHNIQUES
	15BCS003	DIGITAL LOGIC FUNDAMENTALS
	15BMA001	MATHEMATICS - I
	15LEN001	ENGLISH PAPER - I
	15LFR001	FRENCH PAPER - I
	15LHN001	HINDI PAPER - I
	15LTA001	TAMIL PAPER - I
	15BCS004	PROGRAMMING IN C
	15BCS005	PRACTICAL - II : PROGRAMMING IN C
	15BCS006	OPERATING SYSTEM
	15BMA002	MATHEMATICS - II
	15EVB261	ETHICS AND VALUES
	15LEN002	ENGLISH PAPER - II
	15LFR002	FRENCH PAPER - II
	15LHN002	HINDI PAPER - II
	15LTA002	TAMIL PAPER - II
	15CBCS31	C++ WITH DATA STRUCTURES
	15CBCS32	STATISTICS - I
	15CBCS33	INTERNET AND ITS APPLICATIONS
	15LENG31	ENGLISH PAPER - III
	15LFRE31	FRENCH PAPER - III
	15LHIN31	HINDI PAPER - III
	15LTAM31	TAMIL PAPER - III
	15PBCS31	PRACTICAL - DATA STRUCTURES USING C++
	15UGE501	COMMERCIAL ART
	15CBCS41	VISUAL PROGRAMMING
	15CBCS42	STATISTICS - II
	15DBCS41	DATABASE MANAGEMENT SYSTEM
	15EVS041	ENVIRONMENTAL STUDIES
	15LENG41	ENGLISH PAPER - IV

	15LFRE41	FRENCH PAPER - IV
	15LHIN41	HINDI PAPER - IV
	15LTAM41	TAMIL PAPER - IV
	15PBSC41	PRACTICAL - RDBMS WITH VB
	15CBCS51	MICROPROCESSOR
	15DBCS51	SOFTWARE ENGINEERING
	15DBCS52	PROGRAMMING IN JAVA
	15GBCS51	CYBER LAW
	15GBCS52	MYSQL
	15NSS255	NSS - I
	15PBCS51	PRACTICAL - MICROPROCESSOR
	15PBCS52	PRACTICAL - PROGRAMMING IN JAVA
	15CBCS61	ADVANCED JAVA
	15DBCS61	DATA COMMUNICATION AND NETWORKING
	15DBCS62	MANAGEMENT INFORMATION SYSTEM
	15DBCS63	SOFTWARE TESTING
	15PBCS61	PRACTICAL - ADVANCED JAVA
	15PBCS62	PRACTICAL - OPEN SOURCE TECHNOLOGY
	15UGE526	NATURAL RESOURCES MANAGEMENT
B.Sc. - Information Technology	15BIT001	PROGRAMMING IN C
	15BIT002	PRACTICAL - PROGRAMMING IN C
	15BIT101	DATA STRUCTURES
	15BMA001	MATHEMATICS - I
	15LEN001	ENGLISH PAPER - I
	15LFR001	FRENCH PAPER - I
	15LHN001	HINDI PAPER - I
	15LTA001	TAMIL PAPER - I
	15BIT003	OBJECT ORIENTED PROGRAMMING IN C++
	15BIT004	PRACTICAL - PROGRAMMING IN C++
	15BIT104	DIGITAL LOGIC FUNDAMENTALS
	15BMA002	MATHEMATICS - II
	15LEN002	ENGLISH PAPER - II
	15LFR002	FRENCH PAPER - II
	15LHN002	HINDI PAPER - II
	15LTA002	TAMIL PAPER - II
	15CBIT31	PROGRAMMING IN JAVA
	15CBIT32	STATISTICAL AND NUMERICAL METHODS
	15CBIT33	MICROPROCESSOR AND ITS APPLICATIONS

	15LENG31	ENGLISH PAPER - III
	15LFRE31	FRENCH PAPER - III
	15LHIN31	HINDI PAPER - III
	15LTAM31	TAMIL PAPER - III
	15NSS255	NSS - I
	15PBIT31	PRACTICAL - PROGRAMMING IN JAVA
	15UGE510	MUSHROOM CULTIVATION AND MEDICINAL MINT GARDENING
	15CBIT41	VISUAL PROGRAMMING
	15CBIT42	DATABASE MANAGEMENT SYSTEM
	15DBIT41	SOFTWARE ENGINEERING
	15EVS041	ENVIRONMENTAL STUDIES
	15LFRE41	FRENCH PAPER - IV
	15LHIN41	HINDI PAPER - IV
	15LTAM41	TAMIL PAPER - IV
	15PBIT41	PRACTICAL - RELATIONAL DATABASE MANAGEMENT SYSTEM
	15SLEN41	ENGLISH PAPER - IV
	15UGE538	QUANTITATIVE APTITUDE
	15CBIT51	COMPUTER NETWORKS
	15CBIT52	OPERATING SYSTEM
	15CBIT53	SOFTWARE TESTING
	15CBIT54	MULTIMEDIA
	15DBIT51	MANAGEMENT INFORMATION SYSTEM
	15PBIT51	PRACTICAL - OPERATING SYSTEM
	15PBIT52	PRACTICAL - SOFTWARE TESTING
	15UGE530	MYSQL
	15CBIT61	WEB TECHNOLOGY
	15CBIT62	PRE PROCESSOR HYPERTEXT PROGRAMMING
	15CBIT63	OBJECT ORIENTED ANALYSIS AND DESIGN
	15DBIT61	DATA MINING
	15DBIT62	ORGANIZATIONAL BEHAVIOR
	15PBIT61	PRACTICAL - WEB TECHNOLOGY
	15PBIT62	PRACTICAL - PRE PROCESSOR HYPERTEXT PROGRAMMING
B.C.A. - Hons	15BHC001	LOGIC BUILDING AND EFFECTIVE PROBLEM SOLVING AND PERSONAL COMPUTING AND NE (PCNE)
	15BHC002	OBJECT ORIENTED PROGRAMMING USING C#
	15BHC003	PRACTICAL - C# AND PCNE

15BMA001	MATHEMATICS - I
15LEN001	ENGLISH PAPER - I
15LFR001	FRENCH PAPER - I
15LHN001	HINDI PAPER - I
15LTA001	TAMIL PAPER - I
15BHC004	DATABASE PROGRAMMING WITH RDBMS
15BHC005	INFORMATION ANALYSIS AND DATA REPORTING TECHNIQUES USING ADVANCED EXCEL
15BHC006	PRACTICAL - RDBMS AND ADVANCE EXCEL
15BMA002	MATHEMATICS - II
15LEN002	ENGLISH PAPER - II
15LFR002	FRENCH PAPER - II
15LHN002	HINDI PAPER - II
15LTA002	TAMIL PAPER - II
15CBCH31	PROFESSIONAL SKILLS - I
15CBCH32	INTRODUCTION TO APP DEVELOPMENT
15CBCH33	FINANCIAL ACCOUNTING
15EVB261	ETHICS AND VALUES
15LENG31	ENGLISH PAPER - III
15NSS255	NSS - I
15PBCH31	PRACTICAL - APP DEVELOPMENT
15UGE508	FILM APPRECIATION
15CBCH41	DATA STRUCTURES AND ALGORITHMS
15CBCH42	STATISTICAL AND NUMERICAL METHODS
15DBCH41	HTML5 PROGRAMMING
15EVS041	ENVIRONMENTAL STUDIES
15PBCH41	PRACTICAL - HTML5 / DATA STRUCTURES
15SLEN41	ENGLISH PAPER- IV
15UGE501	COMMERCIAL ART
15CBCH51	WEB APPLICATION USING ASP MVC
15CBCH52	PROGRAMMING IN JAVA
15DBCH51	PROFESSIONAL SKILLS - II
15DBCH52	SOFTWARE ENGINEERING ESSENTIALS - I
15PBCH51	PRACTICAL - WEB APPLICATION USING ASP MVC
15PBCH52	PRACTICAL - JAVA
15CBCH61	WEB APPLICATION USING SERVLETS

		AND JSP
	15CBCH62	COMPUTER NETWORKS
	15DBCH61	DATA WAREHOUSING AND DATA MINING
	15DBCH62	PROFESSIONAL SKILLS - III
	15PBCH61	PRACTICAL - WEB APPLICATION USING SERVLETS AND JSP
	15PBCH62	MINI PROJECT
M.Sc. - Information Technology	15GMIT12	ERP SYSTEMS
	15MIT001	OBJECT ORIENTED PROGRAMMING IN C++
	15MIT002	DATA STRUCTURE
	15MIT003	PRACTICAL - DATA STRUCTURES USING C++
	15MIT004	WEB TECHNOLOGY
	15MIT005	PRACTICAL - WEB TECHNOLOGY
	15MIT101	VISUAL BASIC
	15MIT151	INFORMATION SECURITY AND CYBER LAWS
	15MIT006	DATABASE MANAGEMENT SYSTEMS
	15MIT007	PROGRAMMING IN JAVA
	15MIT008	PRACTICAL - PROGRAMMING IN JAVA
	15MIT009	PRACTICAL - DATABASE MANAGEMENT SYSTEMS
	15MIT102	OPERATING SYSTEM
	15MIT103	DESIGN AND ANALYSIS OF ALGORITHMS
	15MIT104	DATA MINING AND DATA WAREHOUSING
	15PGE505	PERSONALITY DEVELOPMENT - I
	15CMIT31	ADVANCE JAVA PROGRAMMING
	15CMIT32	CLOUD COMPUTING TECHNOLOGIES
	15CMIT33	.NET FRAMEWORKS
	15GMIT31	QUANTITATIVE APTITUDE
	15GMIT32	INFORMATION SECURITY AND CYBER LAWS
	15PMIT31	PRACTICAL - ADVANCE JAVA PROGRAMMING
	15PMIT32	PRACTICAL - .NET
	15PMIT33	MINI PROJECT
	15PGE513	FOOD AND BEVERAGE
	15RMIT41	PROJECT AND VIVA-VOCE

M.Sc. - Computer Science	15DMCS11	OBJECT ORIENTED ANALYSIS AND DESIGN
	15GMCS11	MYSQL
	15MCS001	LINUX PROGRAMMING
	15MCS002	DESIGN AND ANALYSIS OF ALGORITHMS
	15MCS003	COMPILER DESIGN
	15MCS004	PRACTICAL - I : LINUX PROGRAMMING
	15MCS005	PRACTICAL - II : DATA STRUCTURE USING JAVA
	15MCS116	MOBILE COMPUTING
	15MCS151	WEB DESIGNING
	15PGE503	MYSQL
	15DMCS21	DATA MINING AND WAREHOUSING
	15GMCS21	CYBER LAW
	15MCS006	OPEN SOURCE TECHNOLOGY
	15MCS007	ADVANCED JAVA
	15MCS008	PRACTICAL - III OPEN SOURCE TECHNOLOGY
	15MCS009	PRACTICAL - IV ADVANCED JAVA
	15MCS101	CLOUD COMPUTING
	15MCS115	SOFTWARE ENGINEERING
	15MCS117	MOBILE COMPUTING
	15PGE525	ADVANCED EXCEL
	15CMCS31	DOT NET PROGRAMMING
	15CMCS32	NETWORK SECURITY
	15CMCS33	SOFTWARE QUALITY ASSURANCE
	15CMCS34	DATA MINING AND WAREHOUSING
	15CMCS35	WEB SERVICES USING XML
	15DMCS31	SOFT COMPUTING
	15DMCS32	GRID COMPUTING
	15GMCS31	CLIENT SIDE SCRIPTING LANGUAGES
	15PMCS31	PRACTICAL V - DOT NET PROGRAMMING
	15PMCS32	MINI PROJECT
	15PGE515	CLIENT SIDE SCRIPTING LANGUAGES
	15RMCS41	PROJECT AND VIVA VOCE
M.C.A. - Master of Computer Application	15MCA001	COMPUTER ORGANIZATION AND ARCHITECTURE
	15MCA002	PROGRAMMING IN C
	15MCA003	SOFTWARE ENGINEERING AND METHODOLOGY
	15MCA004	MULTIMEDIA SYSTEMS
	15MCA005	PRACTICAL - PROGRAMMING IN C

15MCA006	PRACTICAL - FLASH AND PHOTOSHOP
15MCA007	PRACTICAL - PRODUCTIVITY SOFTWARE
15SSK151	SOFT SKILL - I
15MCA008	MICROPROCESSOR BASED SYSTEM DESIGN
15MCA009	OBJECT ORIENTED CONCEPTS AND DATA STRUCTURES
15MCA010	PROGRAMMING IN C++
15MCA011	BUSINESS MATHEMATICS
15MCA012	PRACTICAL - MICROPROCESSOR
15MCA013	PRACTICAL - PROGRAMMING IN C++
15MCA014	PRACTICAL - VISUAL BASIC
15SSK152	SOFT SKILL - II
15CMCA31	OPERATING SYSTEM AND UNIX
15CMCA32	WEB TECHNOLOGY
15CMCA33	PROGRAMMING IN JAVA
15CMCA34	FINANCIAL AND MANAGEMENT ACCOUNTING
15CMCA35	CLOUD COMPUTING
15PMCA31	PRACTICAL - PROGRAMMING IN JAVA
15PMCA32	PRACTICAL - OPERATING SYSTEM AND UNIX
15PMCA33	PRACTICAL - WEB TECHNOLOGY
15PGE505	PERSONALITY DEVELOPMENT - I
15CMCA41	COMPUTER NETWORKS
15CMCA42	RELATIONAL DATABASE SYSTEMS
15CMCA43	COMPUTER GRAPHICS
15DMCA41	MOBILE COMPUTING
15DMCA42	INTERNET OF THINGS
15DMCA43	NETWORK SECURITY
15DMCA44	SOFTWARE PROJECT MANAGEMENT
15PMCA41	PRACTICAL - SOFTWARE PROJECT DEVELOPMENT
15PMCA42	PRACTICAL - RELATIONAL DATABASE SYSTEMS
15PMCA43	PRACTICAL - COMPUTER GRAPHICS
15PGE526	PERSONALITY DEVELOPMENT - II
15CMCA51	SOFTWARE TESTING AND QUALITY ASSURANCE
15CMCA52	INTRODUCTION TO PHP AND MYSQL
15CMCA53	.NET TECHNOLOGY
15CMCA54	DATA WAREHOUSING AND DATA MINING

	15DMCA51	OBJECT ORIENTED ANALYSIS AND DESIGN
	15DMCA52	AD HOC NETWORKS
	15PMCA51	PRACTICAL - PHP AND MYSQL
	15PMCA52	PRACTICAL - .NET TECHNOLOGY
	15PMCA53	MINI PROJECT
	15RMCA61	MAIN PROJECT
M.Phil. - Computer Science	16CRCSA1	RESEARCH METHODOLOGY
	16CRCSB1	ADVANCED COMPUTING TECHNIQUES
	16ERCSC1	GUIDE PAPER
	16RRCSA2	DISSERTATION AND VIVAVOCE