



# VELS

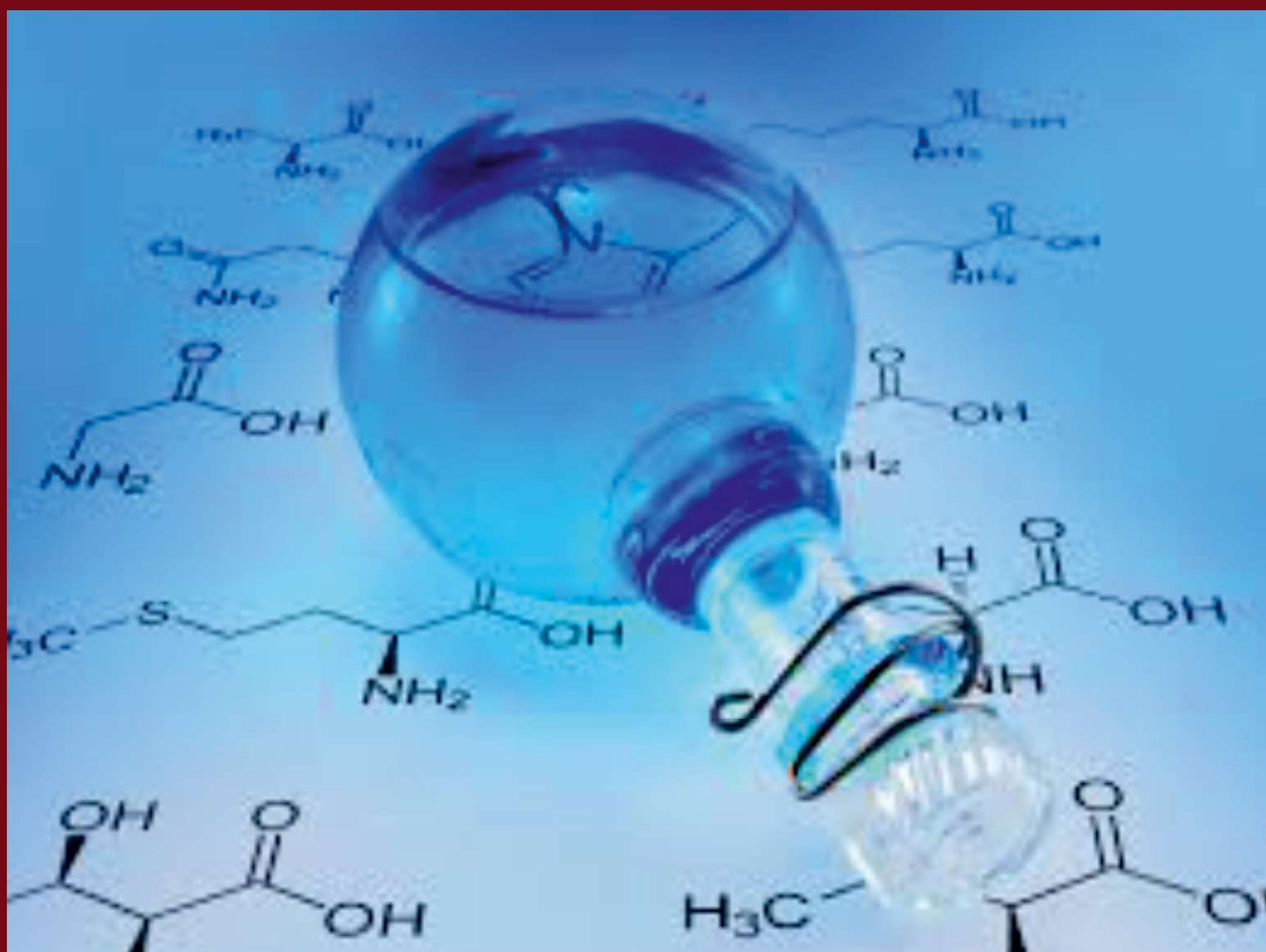


INSTITUTE OF SCIENCE, TECHNOLOGY  
& ADVANCED STUDIES (VISTAS)

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

**NAAC ACCREDITED**  
PALLAVARAM - CHENNAI - INDIA

## School of Basic 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](http://www.velsuniv.ac.in)

**VELS INSTITUTE OF SCIENCE  
TECHNOLOGY & ADVANCED STUDIES  
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## About the School

The School offers PG courses in **Chemistry** on a full-time basis. It also offers M.Phil and Ph.D programmes on Full/Part time basis. This Department is well equipped with Organic, Inorganic, Physical and Pharmaceutical Lab and also organizes campus interviews to place the students in companies and industries.

## SCHOOL OF BASIC SCIENCES

### Department of Chemistry

- |    |   |     |                       |
|----|---|-----|-----------------------|
| 1. | B.Sc. Chemistry                               | ... | 3 years (6 semesters) |
| 2. | M.Sc. Chemistry                               | ... | 2 years (4 semesters) |
| 3. | M.Sc. Pharmaceutical and Analytical Chemistry | ... | 2 years (4 semesters) |
| 4. | M.Sc. Industrial Chemistry and Management     | ... | 2 years (4 semesters) |
| 5. | M.Sc. Organic Chemistry                       | ... | 2 years (4 semesters) |
| 6. | M.Phil.Chemistry                              | ... | 1 years (2 semesters) |
| 7. | Ph.D. Chemistry                               | ... | 3 years               |

### Department of Physics

- |    |                    |     |         |
|----|--------------------|-----|---------|
| 1. | Ph.D. Nano Science | ... | 3 years |
|----|--------------------|-----|---------|

### Department of Mathematics

- |    |                     |     |                       |
|----|---------------------|-----|-----------------------|
| 1. | M.Phil. Mathematics | ... | 1 years (2 semesters) |
|----|---------------------|-----|-----------------------|

## School of Basic Sciences

**2016-17**

Program Name	Course Code	Course Name
B.Sc., Chemistry	15BCH001	BASIC CHEMISTRY
	15BCH002	ANALYTICAL TECHNIQUES
	15BCH003	PRACTICAL - INORGANIC QUALITATIVE ANALYSIS AND PREPARATIONS
	15LEN001	ENGLISH PAPER - I
	15LFR001	FRENCH PAPER - I
	15LHN001	HINDI PAPER - I
	15LTA001	TAMIL PAPER - I
	15NSS255	NSS - I
	15BCH004	CHEMISTRY OF HYDROCARBONS
	15BCH005	CHEMISTRY OF METALS AND NON METALS
	15BCH006	PRACTICAL - PHYSICAL CHEMISTRY
	15BCH110	ALLIED BIOTECHNOLOGY
	15BCH111	PRACTICAL - ALLIED BIOTECHNOLOGY
	15LEN002	ENGLISH PAPER - II
	15LFR002	FRENCH PAPER - II
	15LHN002	HINDI PAPER - II
	15LTA002	TAMIL PAPER - II
	15CBHC31	PHASE EQUILIBRIA AND KINETICS
	15CBHC32	BIO - INORGANIC CHEMISTRY
	15CBHC33	ALLIED MATHEMATICS
	15LENG31	ENGLISH PAPER - III
	15LFRE31	FRENCH PAPER - III
	15LHIN31	HINDI PAPER - III
	15LTAM31	TAMIL PAPER - III
	15PBHC31	PRACTICAL - VOLUMETRIC ANALYSIS
	15UGE535	STRUCTURAL BIOINFORMATICS
	15CBHC41	QUANTUM MECHANICS AND THERMODYNAMICS
	15CBHC42	NUCLEAR AND SOLID STATE CHEMISTRY
	15DBHC41	COMPUTERS IN CHEMISTRY
	15EVS041	ENVIRONMENTAL STUDIES
	15LENG41	ENGLISH PAPER - IV
	15LFRE41	FRENCH PAPER - IV
	15LHIN41	HINDI PAPER - IV
	15LTAM41	TAMIL PAPER - IV
	15PBHC41	PRACTICAL - GRAVIMETRIC ANALYSIS
	15UGE523	FOOD AND BEVERAGE MANAGEMENT
	15CBHC51	COORDINATION CHEMISTRY
	15CBHC52	FUNDAMENTALS OF SPECTROSCOPY
	15CBHC53	ELECTROCHEMISTRY AND SURFACE CHEMISTRY
	15DBHC51	FOOD CHEMISTRY AND ADULTERATION
15NSS256	NSS - II	
15PBHC51	PRACTICAL - ORGANIC ANALYSIS AND	

		PREPARATION
	15PBHC52	PRACTICAL - COMPUTERS IN CHEMISTRY
	15UGE513	INTERNET BASICS
	15CBHC61	CHEMISTRY OF NATURAL PRODUCTS
	15CBHC62	PHARMACEUTICAL CHEMISTRY
	15CBHC63	STEREOCHEMISTRY AND MOLECULAR REARRANGEMENT
	15DBHC61	CHEMISTRY IN EVERYDAY LIFE
	15DBHC62	AGRO INDUSTRIAL CHEMISTRY
	15NSS257	NSS - III
	15PBHC61	PRACTICAL - INSTRUMENTAL METHODS OF CHEMICAL ANALYSIS
M.Sc., Chemistry	15MGC001	ORGANIC CHEMISTRY - I
	15MGC002	INORGANIC CHEMISTRY - I
	15MGC003	PHYSICAL CHEMISTRY - I
	15MGC004	PRACTICAL - I : PHYSICAL CHEMISTRY
	15MGC101	MACROMOLECULAR CHEMISTRY
	15MGC102	ANALYTICAL TECHNIQUES
	15SSK151	SOFT SKILL - I
	15MGC005	ORGANIC CHEMISTRY - II
	15MGC006	INORGANIC CHEMISTRY - II
	15MGC007	PHYSICAL CHEMISTRY - II
	15MGC008	PRACTICAL - II ORGANIC CHEMISTRY
	15MGC009	PRACTICAL - III ANALYTICAL CHEMISTRY
	15MGC010	INTERNSHIP
	15MGC106	NUCLEAR AND PHOTOCHEMISTRY
	15SSK152	SOFT SKILL - II
	15PGE527	MEDICAL TRANSCRIPTION AND CODING
	15CMSG31	ORGANIC CHEMISTRY - III
	15CMSG32	INORGANIC CHEMISTRY - III
	15CMSG33	PHYSICAL CHEMISTRY - III
	15CMSG34	STEREOCHEMISTRY AND REACTION MECHANISM
	15CMSG35	NOVEL MATERIALS AND GREEN INDUSTRIAL CATALYSIS
	15PMSG31	PRACTICAL - IV INORGANIC CHEMISTRY
	15PGE520	FRONT OFFICE MANAGEMENT
15CMSG41	ELECTRO ANALYTICAL AND SEPARATION TECHNIQUES	
15DMSG41	ORGANIC NAME REACTIONS AND SYNTHESIS OF REAGENTS	
15RMSG41	PROJECT WORK	
M.Phil., Chemistry	16CRCHA1	RESEARCH METHODOLOGY
	16CRCHB1	GENERAL CHEMISTRY
	16ERCHC1	SPECIALIZATION PAPER :
	16RRCHA2	DISSERTATION INCLUDING VIVA VOCE
M.Sc. - Organic Chemistry	15MOC001	ORGANIC CHEMISTRY - I
	15MOC002	INORGANIC CHEMISTRY - I
	15MOC003	PHYSICAL CHEMISTRY - I
	15MOC004	PRACTICAL I - ORGANIC CHEMISTRY - I

	15MOC101	SEPARATION TECHNIQUES
	15MOC102	ORGANIC NAME REACTIONS AND SYNTHESIS OF REAGENTS
	15SSK151	SOFT SKILL - I
	15MOC005	ORGANIC CHEMISTRY - II
	15MOC006	ANALYTICAL TECHNIQUES
	15MOC007	PHYSICAL CHEMISTRY - II
	15MOC008	PRACTICAL - II PHYSICAL CHEMISTRY
	15MOC009	PRACTICAL - III INORGANIC CHEMISTRY
	15MOC010	INTERNSHIP
	15MOC106	STEREO CHEMISTRY AND REACTION MECHANISM
	15SSK152	SOFT SKILL - II
	15PGE528	FRONT OFFICE OPERATION
	15CMSO31	ORGANIC CHEMISTRY - III
	15CMSO32	ORGANO METALLIC AND PHOTOCHEMISTRY
	15CMSO33	ORGANIC SPECTROSCOPY
	15CMSO34	PHARMACEUTICAL CHEMISTRY
	15CMSO35	NATURAL PRODUCTS
	15PMSO31	PRACTICAL - IV ORGANIC CHEMISTRY - II
	15PGE532	MUSHROOM CULTIVATION AND MEDICINAL MINT GARDENING
	15CMSO41	SYNTHETIC ORGANIC CHEMISTRY
	15DMSO41	NOVEL MATERIALS AND GREEN INDUSTRIAL CATALYSIS
	15RMSO41	PROJECT WORK
M.Sc. - Industrial Chemistry and Management	16CMIC11	DYE CHEMISTRY
	16CMIC12	CHEMISTRY OF FUELS
	16CMIC13	ORGANIC NAME REACTIONS AND SYNTHESIS OF REAGENTS
	16DMIC11	PRINCIPLES OF MANAGEMENT
	16DMIC12	MANAGEMENT INFORMATION SYSTEM
	16PMIC11	PRACTICAL - ORGANIC CHEMISTRY
	16SPGE11	SOFT SKILL - I
	16CMIC21	GENERAL CHEMISTRY
	16CMIC22	CHEMISTRY OF FIBRES
	16CMIC23	QUANTITATIVE METHODS IN BUSINESS
	16DMIC21	HUMAN RESOURCE MANAGEMENT
	16IMIC21	INTERNSHIP
	16PMIC21	PRACTICAL - INORGANIC CHEMISTRY
	16PMIC22	PRACTICAL - INDUSTRIAL CHEMISTRY
	16SPGE21	SOFT SKILL - II
	16PGE501	FRONT OFFICE OPERATION
	16CMIC31	PAINT CHEMISTRY
	16CMIC32	ANALYTICAL TECHNIQUES
	16CMIC33	OPERATIONS MANAGEMENT
	16DMIC31	POLYMER CHEMISTRY
	16DMIC32	MARKETING MANAGEMENT
	16PMIC31	PRACTICAL - PHYSICAL CHEMISTRY

	16PGE502	MUSHROOM CULTIVATION AND MEDICINAL MINT GARDENING
	16CMIC41	SYNTHETIC ORGANIC CHEMISTRY
	16DMIC41	NOVEL MATERIALS AND GREEN INDUSTRIAL CATALYSIS
	16RMIC41	PROJECT