



POST GRADUATE DEPARTMENT OF CHEMISTRY

1.	Name of the department	PG CHEMISTRY	
2.	Year of Establishment	2013	
3.	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	M.Sc. in CHEMISTRY (Specialization : Organic Chemistry)	
4.	Names of Interdisciplinary courses and the departments/units involved	NIL	
5.	Annual/ semester/choice based credit system (programme wise)	Semester System : Prior to 2014 - 15 Choice Based Credit system: 2014 - 15 onwards	
6.	Participation of the department in the courses offered by other departments	NIL	
7.	Courses in collaboration with other universities, industries, foreign institutions, etc.	NIL	
8.	Details of courses/programmes discontinued (if any) with reasons	NIL	
9.	Number of teaching posts		
	Designation	Sanctioned	
	Filled		
	Professors	NIL	NIL
	Associate Professors	NIL	NIL
	Asst. Professors	6	5



10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience
Dr. C. Nagamani	M. Sc., M.Phil., Ph.D	Coordinator and Asst. Professor	Organic Chemistry	20 years
Dr. T S. Shyam Prasad	M.S c , MBA, Ph.D	Asst. Professor	Organic Chemistry	15 years 1 year (Industry)
Dr. B. P. Nethravathi	M. S c Ph.D	Asst. Professor	Inorganic chemistry	8 years
Dr. S .M. Basavarajaiah	M. Sc. Ph.D	Asst. Professor	Organic chemistry	4 Years 8 years (Industry)
Dr. S. Ashoka	M.Sc. Ph.D	Asst. Professor	Inorganic chemistry	4 years 6 Months (Industry)

11.	List of senior visiting faculty	
	Dr. M. Nagarajan	Rtd. professor ,University of Hyderabad
	Dr. M. Farooq Ahmed	Rtd. Professor , Bangalore University
	Y. Yadunandana	Asst. Professor, VVPuram Science College, Bangalore
	Dr .S.P. Ravi Raj	Principal Scientist, Petrochem , Bangalore
	Percentage of classes held by Visiting Faculty	17%



12.	Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty	NIL	
13.	Student -Teacher Ratio (programme wise)	7 : 1	
14.	Number of academic support staff	Sanctioned 3	Filled 3
15.	Qualifications of teaching faculty with D Sc/ D.Litt. / Ph.D. / MPhil / PG	Ph.D M.Phil.	05 NIL
16.	Number of faculty with ongoing projects from	NIL	
	National Funding Agency	NIL	
	International Funding Agency	NIL	
Major Research Project applied to UGC on 31-08-2014			
Title of Project		Development of Nature Inspired superhydrophobic Surfaces for Universal Applications	
Name of Principal Investigator		Dr. Ashoka S	
Duration		3 Year	
Student Investigators on the project		01	
Estimated Expenditure		Rs. 12,70,200.00	
17.	Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received.	NIL	
18.	Research Centre /facility recognized by the University	NIL	
19.	Publications		



	Publication per faculty	6.8
	Number of papers published in peer reviewed journals	34
	National Journals	1
	International Journals	33
	Books Edited	NIL
	Books Edited with ISBN Numbers	NIL
	Impact factor	1.758
	h – index	9

Details of Paper Publications

i. International Journals

SL. No.	Name of the Faculty	TITLE OF THE PAPER	JOURNAL	IMPACT FACTOR	CITATIONS
1	C. Nagamani	Densities and viscosities studies on Polymer blends of Poly (acrylic acid) and Poly (Vinyl acetate) poly blend in N,N Dimethyl formamide, by viscosity Method	IJSER 2401-2404 Vol.5,issue 2, Feb.2014	0.76	
2	C.Nagamani	Reducing the burden on indian Judiciary:Turning to alternative dispute resolution	International Journal of Scientific Research (2014),Volume3, Issue 3,21-23	1.08	--
3	B. P. Nethravathi	Catalytic Activity of Supported Solid Catalysts for Phenol Hydroxylation	J Porous Mater. (2014) 21: 285-291.	1.316	-



SL. No.	Name of the Faculty	TITLE OF THE PAPER	JOURNAL	IMPACT FACTOR	CITATIONS
4	S. Ashoka	“Multi-particle assembled porous MgO nanorods: Its application in fluoride removal”.	Materials Research Express, In press		--
5	S. Ashoka	A versatile, cost-effective and one step process to engineer ZnO superhydrophobic surface on Al substrate”.	Applied Surface Sciences, 311 (2014) 182-188	2.538	--
6	S. Ashoka	“Structural studies of electrochemically deposited highly crystalline polypyrrole on copper modified aluminum substrate”.	Applied Surface Sciences, 307 (2014) 589-592	2.538	--
7	S. Ashoka	“Stabilization of metastable tetragonal phase in the conventional rhombohedral magnetoelectric multiferroic $0.8\text{BiFeO}_3-0.2\text{PbTiO}_3$ ”.	Journal of Physics D: Applied Physics, 47 (2014) 45004-10	2.521	--
8	C. Nagamani	Miscibility and Interaction studies on polymer blends of poly (methacrylic acid)/ poly (vinyl pyrrolidone) by ultrasonic studies	International Journal of Scientific and Engineering research 2013, - 2201-2204 vol 3 December	0.765.	--
9	S. Ashok	“Structural and Magnetic Studies of $\text{Mg}_{(1-x)}\text{Zn}_x\text{Fe}_2\text{O}_4$ Nanoparticles Prepared by Solution Combustion method”.	Journal of Alloys and Compounds, 578 (2013) 103-109	2.39	6
10	S. Ashoka	“Effect of crystallite size and clustering in influencing the stability of phases of a very large tetragonality ferroelectric system $0.6\text{BiFeO}_3-0.4\text{PbTiO}_3$ ”.	Solid State Communications, 160 (2013) 56-60	1.534	--
11	S. Ashoka	“An efficient and a novel route for the synthesis of Titania via solution combustion of peroxotitanic acid”.	Materials Letters, 91 (2013) 272-274	2.224	



SL. No.	Name of the Faculty	TITLE OF THE PAPER	JOURNAL	IMPACT FACTOR	CITATIONS
12	C. Nagamani	Apparent molar volumes and viscosity studies of amino acids in aqueous tertiary butyl alcohol at 303.15 K	Bulletin of pure and applied sciences, vol.31C- Chemistry (No.1) 2012: P.18	3.386	
13	S. Ashoka	"Hydrothermal conversion of ZnO ₂ to ZnO flowers: A mechanistic investigation and their characterization".	Cryst. Res. Technol, 47 (2012) 1075-1082	1.164	3
14	S. Ashoka	"Simple non-basic solution route for the preparation of zinc oxide hollow spheres".	Physica E: Low-dimensional Systems and Nanostructures, 44 (2012) 1346-1350	1.522	1
15	S. Ashoka	"Vanadium pentoxidenanobelts: One pot synthesis and its lithium storage behaviour".	Cryst. Res. Technol, 47 (2012)868-875	1.164	
16	S. Ashoka	"One step synthesis of monoclinic VO ₂ (B) bundles of nanorods: Cathode for Li ion battery".	Materials characterization, 68 (2012) 58-62	1.88	10
17	B. P. Nethravathi	Zeolite-encapsulated 2-(o-aminophenyl)benzimidazole complexes, Synthesis, characterization and catalytic activity	J Porous Mater. (2011) 18: 389-397	1.316	10
18	S. Ashoka	Morphological evolution of (NH ₄) _{0.5} V ₂ O ₅ .mH ₂ O fibres into belts, triangles and rings,"	Inorganic Chemistry, 50(2011) 7421-7428	4.593	13
19	S. Ashoka	"Combustion derived nanocrystalline-ZrO ₂ and its catalytic activity for Biginelli condensation under microwave irradiation".	Chinese Journal of Chemistry, 29 (2011) 1863-1868	0.917	3



SL. No.	Name of the Faculty	TITLE OF THE PAPER	JOURNAL	IMPACT FACTOR	CITATIONS
20	C.Nagamani	Charecteristic studies of Ligno-cellulosic Fabric Grewia tenax	J.of natural fibers,7(2010),194	1.855	3
21	B. P. Nethravathi	Synthesis Of 2,2-Dimethyl-4-Phenyl-[1,3]-Dioxolane Using Zeolite Encapsulated Co(II), Cu(II) And Zn(II) Complexes	Bull. Chem. Soc. Ethiop. 2010, 24(2), 295-298.[0.491	--
22	B. P. Nethravathi	Cobalt(II), Copper(II) and Zinc (II) complexes of 2-methylbenzimidazole encapsulated in zeolite as catalysts for the hydroxylation of phenol	J Porous Mater. (2010) 17:107-113	1.316	11
23	S. M. Basavarajaiah	Synthesis and anti-microbial activity of (Z)-4-(4-substituted-thiazol-2-yl)-1-(2-oxoindolin-3-ylidene) semicarbazide and its derivatives	Indian J. Chem. Sec., 48B (8), 1117-1126 (2010).	0.68	4
24	S. M. Basavarajaiah	Synthesis and anti-microbial activity of some new 5-substituted-2-phenyl-3-(o-carboethoxyphenyl)iminomet hylindoles and their derivatives	Indian J. of Chemical Society87(9), 1109-1115(2010).	0.6	4
25	S. Ashoka	"Reduction of $KMnO_4$ to Mn_3O_4 via hydrothermal process".	Materials Letters, 64(2010) 2538-2540	2.224	9
26	S. Ashoka	"A nanostructural zinc oxide hollow spheres: Facile synthesis and catalytic properties".	InorganicaChimicaActa, 363(2010) 3442-3447	1.687	16
27	S. Ashoka	"Controlled synthesis of cadmium carbonate nanowires, nanoribbons, nanorings and sphere like architectures via hydrothermal method".	Materials Research Bulletin, 41(2010) 1736-1740	1.913	11



SL. No.	Name of the Faculty	TITLE OF THE PAPER	JOURNAL	IMPACT FACTOR	CITATIONS
28	S. Ashoka	“Nano-MgO: A mild and efficient catalyst for the synthesis of formamides from amines and formic acid under MWI”.	Catalysis Letters, 138(2010) 82-87	2.224	9
29	S. Ashoka	“Synthesis and characterisation of microstructural α -Mn ₂ O ₃ materials”.	Journal of Experimental Nanoscience, 5(2010) 285-293	0.875	5
30	S. Ashoka	“Surfactant free hydrothermally derived ZnO nanowires, nanorods, microrods, and their characterization”.	Materials science in semiconductor processing, 13(2010) 21-28	1.338	9
31	S. Ashoka	“Studies on the synthesis of CdCO ₃ nanowires and porous CdO powder”.	Materials Letters, 64(2010)173-176	2.224	23
32	C. Nagamani	Physico-chemical analysis of water samples taken from Urban and rural locations of Bangalore, India."	International Journal of Education and Science Research Review (IJESRR)(Under printing)	1.24	0
33	Shyam prasad T.S	Studies on the ion-solvent interaction of glycine, acetyl glycine , benzoyl glycine and lysine HCl conductometrically as a function of dielectric constant and temperature measurements	Journal of the electrochemical society of India (Accepted)	1.021	0

ii. National Journals

Sl. No.	Name of the Faculty	Title of the Paper	Journal details	Impact factor	Citations
1	B P Nethravathi	Catalytic Activity Of Ruthenium(III) and Palladium(II) Complexes of 2-Methylbenzimidazole (Mebzlh) Encapsulated in Zeolite-Y and ZSM-5 for Liquid Phase Hydroxylation of Phenol	Mapana Journal of Sciences, (2012) 11(2): 17-30.	0	0



20.	Areas of consultancy and income generated	NIL
21.	Faculty as members in	
	a. National Committees	NIL
	b. International Committees	NIL
	c. Editorial Boards	NIL
MEMBERSHIP IN ACADEMIC BODIES		
	Dr. C Nagamani 1. Life Member , Indian Science Congress (L26320) 2. The International Society for Environmental Information Sciences (ISEIS) from 2014	
	Dr. T.S.Shyamaprasad 1. Life Member , Electrochemical Society of India since 2005 2. Life Member , Chemical Research Society Of India ;2014 3. Life Member ,Indian Science Congress ;2013 4. Life Member , Luminescence Society of India Karnataka chapter (LSIKC) ; 2014	
	Dr. S Ashoka Life Member , Indian Society for Radiation and Photochemistry,LM 267, 2005	
22.	Student projects	
	a) Percentage of students who have done in-house projects including inter departmental/programme	92%
	b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies	8%
23.	Awards / Recognitions received by faculty and students	
	Indian Patent Awarded to Dr. S Ashoka Cheap, eco-friendly and scale up combustion derived porous, ultra-light MgO and ZnO nanocrystalline powders for the removal of fluoride and As(III)/As(V) species from contaminated water (Application No.: 238/CHE/2010 dated.01-02-2010).	



	<p>Dr. S Ashoka</p> <p>1. HONOURS/FELLOWSHIPS</p> <ul style="list-style-type: none"> ➤ Awarded Québec-India Postdoctoral International Merit Fellowship (2012-2013) <p>2. ACHIEVEMENTS</p> <ul style="list-style-type: none"> ➤ One of the SEM micrographs has appeared on the cover page of 'Materials Research Bulletin' (Volume 45, Issue 11, 2010) ➤ The research paper entitled "Surfactant free hydrothermally derived ZnO nanowires, nanorods, microrods and their characterization" selected as Top25 hottest articles in Materials Science in Semiconductor Processing, October to December 2010 Web link : http://top25.sciencedirect.com/subject/materials-science/15/journal/materials-science-in-semiconductor-processing/13698001/archive/30/ 	
	<p>Dr.S.M.Basavarajaiah</p> <ul style="list-style-type: none"> ➤ Awarded Best Poster presentation in National Conference on "Recent trends in Bio – Organic Chemistry and their applications to society" held on 26-27 Sept 2014 at Sarada Vilas College, Krishnamurthypuram, Mysore -570004 ➤ Awarded VGST – SPICE (FY 2014 – 15), Dept. Of IT, BT and Science, Technology, Govt. Of Karnataka research funding Project Title : Antioxidant Acitivity of Crude Extract of Banana Stem and Evaluation of Solvent potential to dissolve Uric Acid and Struvites Student Investigators : Suman G V , Srinivasa V 	
24.	List of eminent academicians and scientists / visitors to the department	NIL
25.	Seminars/ Conferences/Workshops organized & the source of funding	NIL

Conferences Attended

i. International Conferences

Sl. No.	Name of the faculty	Title of the Conference	Organized by	Date	Title of the paper presented
1	Dr. B.P. Nethravathi	Author workshop on How to Write for and Get Published in Journals and Publish manuscripts, Springer & Edanz	Christ University, Bangalore.	28 th January 2013	NIL



Sl. No.	Name of the faculty	Title of the Conference	Organized by	Date	Title of the paper presented
		Group in association with Christ University			
2	Dr. B.P. Nethravathi	SCI-NAVIGATE 2013, INSPIRE Science Internship Camp	Department of Chemistry, Christ University, Bangalore.	15 th to 19 th April 2013.	NIL
3	Dr. S. Ashoka	5th International Conference on Luminescence and its Applications (ICLA 2015)	PES University, Bangalore	February 9-12, 2015	Structura and Luminescence Studies on CdSiO ₃ nanopowder,
4	Dr.C. Nagamani	International conference on Graduate research	University of New Hampshire,USA	April 18th 2014	NIL
5	Dr.C. Nagamani	International Conference on Frotiers in Nano Science,Technology and applications	Sri sathyasai Institute of Higher learning, Prashanthi Nilayam, A.P, India	Dec 20-22,2014	Evaluation of Acoustical parameters of amino acids in aqueous tertiary butyl alcohol at 308.15 K by Ultrasonic measurements
6	Dr. Shyam prasad T.S	International conference on electrochemical science and technology	Indian Institute of Science, Bengaluru	Aug 7, 9 2014	Studies on the ion-solvent interaction of glycine, acetyl glycine , benzoyl glycine and lysine hclconductometrically as a function of dielectric constant and temperature measurments
7	Dr.C. Nagamani	International Conference on Frontiers in Nano Science,Technology and applications	Sri sathyasai Institute of Higher learning, Prashanthi Nilayam,A.P,India	Dec 20-22,2014	Evaluation of Acoustical parameters of amino acids in aqueous tertiary butyl alcohol at 308.15 K by Ultrasonic



Sl. No.	Name of the faculty	Title of the Conference	Organized by	Date	Title of the paper presented
8	Dr. Shyam prasad T.S	Corrosion prevention and control (CPC 2014)	IIT, Madras.	September 12 and 13, 2014.	NIL
9	S. Ashoka	The 12th International Aluminum Conference (INALCO 2013)	Montreal, Canada University of Quebec, Alluminium Research Centre & MAADI Group Inc, Montreal, Canada	21 - 22 October, 2013	Structural studies of electrochemically deposited conducting polymer polypyrrole on aluminium substrates
10	Dr. Shyam prasad T.S	International conference on Recent Advances in Material Science and Technology (ICRAMST-2013)	Dept. of Chemistry, National Institute of Technology Karnataka, Surathkal, Mangalore.	17-19 January, 2013.	Acoustic behaviour of glycine in aqueous and partial aqueous solutions of nickel sulphate at different temperatures and compositions of methanol and acetonitrile
11	C. Nagamani	52nd Annual meeting of the APS Division of Plasma Physics, CHICAGO	APS Division of Plasma Physics, CHICAGO	September 2010	Ultrasonic studies of interacting poly blend solution of PAA and PVP in DMSO at different temperatures

ii. National Conferences

Sl. No.	Name of the faculty	Title of the Conference	Organized by	Date	Title of the paper presented
1	Dr. S. Ashoka	7th Annual KSTA national conference on Science, Technology and Production-A means for growth	Oxford College of Science, Bangalore	February 05-06, 2015.	Over-oxidized polypyrrole superhydrophobic surfaces : A facile one step electrochemical approach



Sl. No.	Name of the faculty	Title of the Conference	Organized by	Date	Title of the paper presented
2	Dr. S. Ashoka	National Conference on Advanced Nanotechnology and its Applications (NCOANA-2015)	Maharani's Science College for women, Bangalore	Janury 22-23, 2015	Room Temperature Synthesis and Functionalization of BiVO ₄
3	Dr. S M Basavarajaiah	7th Annual KSTA national conference on Science, Technology and Production-A means for growth	Oxford College of Science, Bangalore	February 05-06, 2015.	Synthesis and antimicrobial activity of novel 5-substituted-N-(substituted-2H-[1,3]oxazino[6,5-B]quinolin-3(4H)-YL)-3-phenyl-1H-Indole-2-carboxamides
4	Dr. Shyam prasad T.S	7th Annual KSTA national conference on Science, Technology and Production-A means for growth	Oxford College of Science, Bangalore	February 05-06, 2015.	Novel method of classification of cancer cells; A system biochemically based model integrating site specific mutation and drug action
5	Dr. B.P. Nethravathi	National Conference on Beneficial Use of Fly Ash in Construction Industry and Agriculture	University of Agricultural Science, Raichur, Karnataka.	May 23 - 24, 2014	Role of Fly Ash in Agriculture
6	Dr. Shyam prasad T.S	Lecture workshop on spectroscopy	Department of Chemistry, Christ University, Bangalore, India.	1 st March 2014.	NIL
7	Dr. Shyam prasad T.S	Workshop on Awareness of RoHS	The Electrochemical society of India, Indian Institute of Science, Bengaluru	January 10 th 2014	NIL



Sl. No.	Name of the faculty	Title of the Conference	Organized by	Date	Title of the paper presented
8	Dr. B.P. Nethravathi	Two day UGC sponsored National Conference on Recent Trends in Medicinal Chemistry	Department of Chemistry, JyothiNivas College Autonomous, Bangalore	September, 3-4, 2014	Efficient Catalytic Oxidation of Primary and Secondary alcohols using Zeolite Encapsulated Complexes
9	Dr. B.P. Nethravathi	UGC-CPE sponsored Two day National Seminar on 'Emerging Trends in Chemical and Pharmaceutical Sciences'	Government Science College, Bangalore.	November 12-13, 2014	NIL
10	Dr. Shyamprasad T.S	National conference on recent trends in Bio organic chemistry and their application to society	Sharada Vilas college, Mysuru	26-27 sep 2014	Role of Computers in Drug Design- A Preview
11	Dr. S M Basavarajaiah	National conference on recent trends in bioorganic chemistry and their application to society	Sharadavilas college, Mysore.	26-27 sep 2014	Synthesis and antimicrobial activity of novel 6- substituted - 3-(5-chloro-3-phenyl-1H-idole-2yl)-3,4-dihydro-4-substituted-4-substituted-pheacyl-2H-1,3-bezoxazi-2-ones
12	Dr. C.Nagamani	National seminar on Recent trends in polymer science and technology	S KU, Anantapur	29-30 th June ,2013	Thermal and mechanical properties of Epoxy composites reinforced with peanut shell powder as bio filler
13	Dr. B.P. Nethravathi	Two day National Conference on Urban Waste Management	Department of Zoology, Vijaya College, Bangalore	27-28, September, 2013	NIL



Sl. No.	Name of the faculty	Title of the Conference	Organized by	Date	Title of the paper presented
14	Dr. Shyam prasad T.S	Two day National Conference on Urban Waste Management	Department of Zoology, Vijaya College, Bangalore	27-28, September, 2013	NIL
15	Dr. B.P. Nethravathi	One day seminar on Recent Advances in Chemistry,	Department of Chemistry, Christ University, Bangalore	15 th September 2012	NIL
16	Dr. C.Nagamani	Emerging areas in chemistry a symposium	Jhansi, India	Nov.2011 , 16-17	Ultrasonic studies of intermolecular interactions of some amino acids in aqueous ter. Butyl alcohol solution at 303.15K
17	Dr. Shyam prasad T.S	National conference on Recent advances in chemical and environmental sciences	Jain University, Bangalore and Tumkur University, Tumkur.	28-29, December 2011.	NIL

iii. State Level and Regional Conferences

Sl. No.	Name of the faculty	Title of the Conference	Organized by	Date
1	Dr. B.P. Nethravathi	State level workshop on class room management - Impact on Learning and Teaching, School of Education	Christ University, Bangalore	24 th September 2012.

iv. Student Participation

Sl. No.	Name of the faculty	Title of the Conference	Organized by	Title of the Poster / Paper presented	Date
1	All I M.Sc. Students	6 th annual Karnataka Science Technology Academy state conference	Christ University Bangalore	-	20 and 21 December 2013



2	Srinivas, Suman and Madhu	National conference on "Beneficial use of fly ash in construction industry and agriculture"	University of Agricultural Sciences, Raichur	-	May 22,23 - 2014
3	I M.Sc. Students	One day national seminar on "understanding of basics of Quantum Mechanics and its applications in chemistry"	K L E college , Bangalore-10	--	12 September 2014
4	MrSuman	7 th annual Conference of Karnataka Science and Technology Academy	oxford college of science, Bangalore	Novel methods of classification of cancer cells based on enzyme inhibition	Feb 2015

26. Student profile programme/course wise

Name of the Course/ programme	Applications received	Selected in the college	Selected in the University	Total Selected	Enrolled		Pass percentage (II Sem)
					*M	*F	
M.Sc. (Chemistry) (2013 - 14)	37	11	17	28	11	17	3.57%
M.Sc. (Chemistry) (2014 - 15)	27	4	14	18	7	11	Yet to appear for the examination

*M=Male *F=Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
M.Sc. (Chemistry)	100%	NIL	NIL



28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

NIL

29. **Student progression**

Student progression	Against%enrolled
UGtoPG	Not Applicable
PG to M.Phil.	Not Applicable
PG to Ph.D.	Not Applicable
Ph.D .to Post-Doctoral	Not Applicable
Employed • Campus selection • Other than campus recruitment	Not Applicable
Entrepreneurship/Self-employment	Not Applicable

30.	Details of Infrastructural facilities	
a.	LIBRARY	
	Books PG Library	284 Books
b.	Internet facilities for Staff & Students	
	Available with a computer Laboratory named Ramanujan FOSS Computer Laboratory equipped with 20 computers	
c.	Class rooms with ICT facility	01 Class room
d.	Laboratories	03
	Area of the Laboratories	2900 sq.ft.
	Special Equipment in the Laboratory ➤ Visible spectrophotometer ➤ Colorimeters ➤ Potentiometers/pH meters ➤ Conductivity meters	



	<ul style="list-style-type: none"> ➤ Furnace electrical 4 nos ➤ Quartz distillation unit zero conductivity water with aqua thermal exchange unit ➤ Fuming cupboard with powerful suction pumps for safe disposal of gases ➤ Shimadzu digital balances 2 nos 	
31.	Number of students receiving financial assistance from college, university, Government or other agencies	Data furnished under student support services
	In addition to the above, <ul style="list-style-type: none"> ➤ THREE students were awarded Merit Scholarship of Rs.10,000 each by the BHS-HES in 2013 – 14 ➤ One girl student Kum. Sindhu received single girl child Indira Gandhi scholarship from central government H R D ministry 	
32.	Details of Student Enrichment Programmes	06
a.	Invited Lecture : Prof. Madhusoodan Reddy and Prof. Venkatesh, Molecular Biophysics Unit, Indian Institute of Science, on “An introduction to group theory application to water molecule and determination of Raman activity” , 21 st Feb 2014	
b.	National level Lecture Workshop on “Spectroscopy” sponsored by The national Academy of Sciences at Christ University ,Bangalore All Students participated along with the teacher Dr. Shyam Prasad T S 28 th Feb 2014 and 1 st March 2014	
c.	Invited Lecture : Mr. B N Phaneendra , Managing Director, CLUE4 Evidence Forensic Inv. Pvt. Ltd., on “Career opportunities in Forensic Science for Chemists” , 12 th April 2014	
d.	National Level Lecture Workshop on “Quantum mechanics, Statistical mechanics, Crystallography” under the Professional and Financial support of Indian Academy of Sciences , Bangalore held at Vijaya college, Bangalore on 19th and 20th Sept 2014	
e.	Invited Lecture: Prof. Keshav A Bulbule, Professor and HOD of Chemistry, KLE'S S.Nijalingappa College,Bangalore-10 on “E-Waste Recycling- Resource Recovery from spent Cell phone Batteries” , 14 th Nov 2014	
f.	Invited Lecture: Dr. Gururaj M Shiva Shimpi, Scientist, Sigma Aldrich Company, Bangalore on “Synthesis of special chemicals and Opportunities in Organic chemistry” , 14 th Feb 2015	



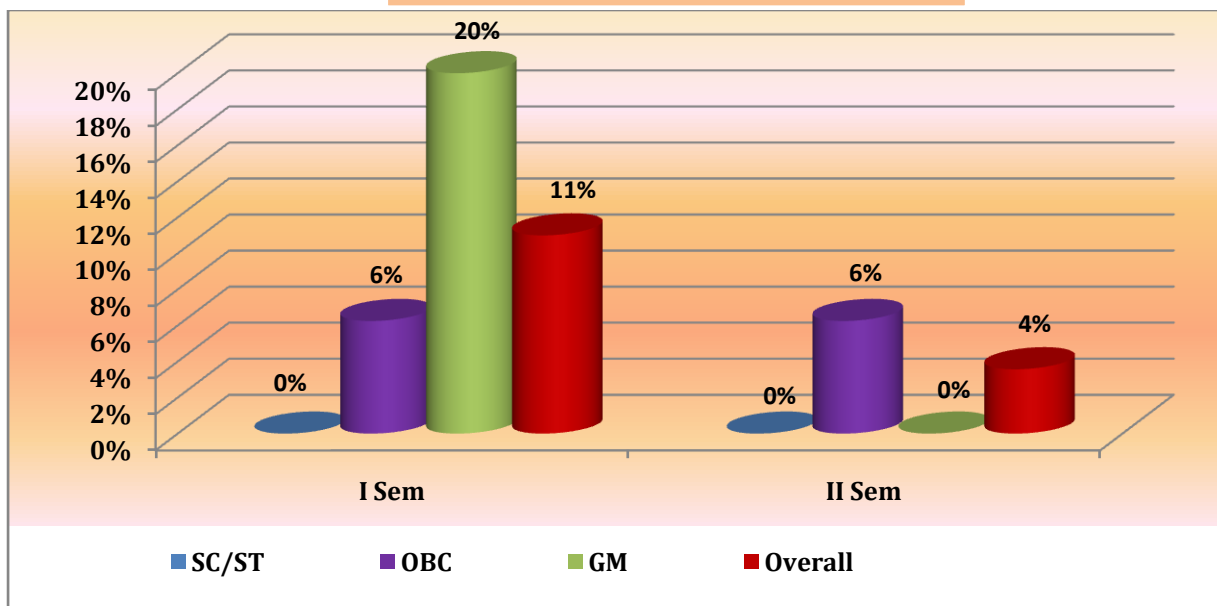
33. Teaching methods adopted to improve student learning
- Chalk and Talk method
 - Wall charts, Flip Charts, Flash Cards, Scientific Models
 - Student Seminars
 - Interaction with scientists/experts
 - Question Bank
34. **Participation in Institutional Social Responsibility (ISR) and Extension activities**
- Participation in environment awareness programs
 - Participation in condemning atrocities on women
 - Participation in National festivals
 - **Blood donation camp** at **Shankar cancer hospital** on September 2013 where five students donated blood.
 - **Eye donation drive** in the college on September 2014 : Three students and Two staff participated
 - Participation by Women teachers and girl students in International **Women's day**
 - **Dr.C.Nagamani** :Supported as Co-coordinator for **RISE (Residents Initiation for Safe Environment)** collecting wet and dry garbage and **making manure by wormy culture**
 - **Dr. Shyam Prasad T S**
 - Resource person on **Nasha Mukh Bharath** at various colleges in Karnataka working along with oncologists on programme to **fight against addiction to drinks, drugs and alcohol by youth.**
 - **National executive member** for the **Samarth shikshak Society** hoisted by **Ramakrishna Ashram** under **Poojya Swami Veereshanandaji, Tumkur**
 - Resource person for career opportunities in **Basic science and Research** at several colleges and high schools
 - **TV panelist** on issues related to **education and student empowerment**
 - Recognised speaker at **Sarvodaya Sangha, Bangalore**



I. Trends of Success Rate of students

Batch - I: 2013		
Category	I Sem	II Sem
SC/ST	0%	0%
OBC	6%	6%
GM	20%	0%
Overall	11%	4%

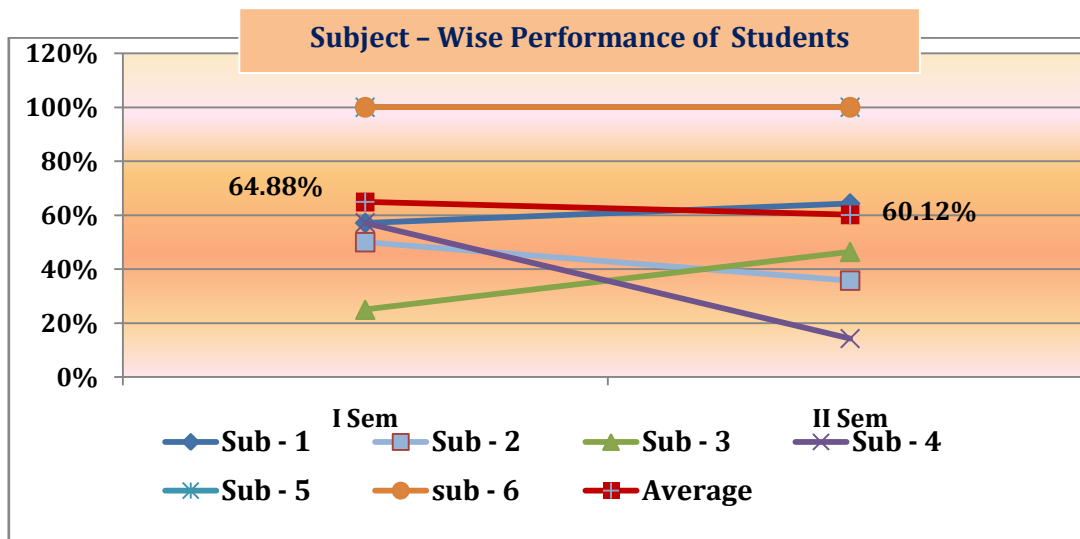
Trends of Success Rate of Chemistry



II. Subject - wise performance of students

Batch - I: 2013 Subject Wise Performance

Semester	Sub - 1	Sub - 2	Sub - 3	Sub - 4	Sub - 5	sub - 6	Average
I Sem	57%	50%	25%	57%	100%	100%	64.88%
II Sem	64%	36%	46%	14%	100%	100%	60.12%





35. SWOC analysis of the department and Future plans

Strengths

- Historical reputation of the institution
- Talented faculty with excellent credentials
- Alignment of labs with course work
- Excellent management and administrative support

Weaknesses

- Interaction with Professors at PG Dept. Of Chemistry, Bangalore University is less
- Space constraint for storing chemicals and apparatus.
- Limited interaction with industries

Opportunities

- Student projects can be carried out in collaboration with industries
- Consultancy based projects can be initiated

Challenges

- Establishing a research center affiliated to Bangalore University
- Motivating Girl students towards research
- Sustainability of the talented staff
