



## DEPARTMENT OF CHEMISTRY &amp; BIOCHEMISTRY - UG

1.	Name of the department	CHEMISTRY & BIOCHEMISTRY - UG												
2.	Year of Establishment	1945												
3.	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	B.Sc. : PCM, CBZ, CBBt, CZBt, BcGMb												
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.	<b>Number of teaching posts</b>													
	<table border="1"> <thead> <tr> <th>Designation</th> <th>Sanctioned</th> <th>Filled</th> </tr> </thead> <tbody> <tr> <td>Professors</td> <td>NIL</td> <td>NIL</td> </tr> <tr> <td>Associate Professors</td> <td>5</td> <td>5</td> </tr> <tr> <td>Asst. Professors</td> <td>4</td> <td>4</td> </tr> </tbody> </table>		Designation	Sanctioned	Filled	Professors	NIL	NIL	Associate Professors	5	5	Asst. Professors	4	4
	Designation	Sanctioned	Filled											
	Professors	NIL	NIL											
	Associate Professors	5	5											
Asst. Professors	4	4												



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
A.R.Rameshbabu	M.Sc.,M.Phil	Principal	Organic	33
Shivappa Notagar	M.Sc.,M.Phil	Associate Professor	Inorganic	31
Dr. Manjula.N	M.Sc.,M.Phil Ph.D	Associate Professor	Biochemistry	30
L.Jayakumar	M.Sc.,M.Phil	Associate Professor	Inorganic	27
Dr. Mahesh Arvind	M.Sc.,M.Phil Ph.D	Associate Professor	Biochemistry	27
M.Shivaprakash	M.Sc.	Assistant Professor	Inorganic	22
S.A. Srikanta	M.Sc.	Assistant Professor	Biochemistry	22
P.Jayashree	M.Sc.	Assistant Professor	Physical	15
Jyothi. R. Kumar	M.Sc.,M.Phil B.Ed	Assistant Professor	Biochemistry	22

11.	List of senior visiting faculty	NIL	
12.	Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty	NIL	
13.	Student -Teacher Ratio (programme wise)	45 : 1	
14.	Number of academic support staff	Sanctioned	Filled
		4	4
15.	Qualifications of teaching faculty with D Sc/ D.Litt. / Ph.D. / MPhil / PG	Ph.D	02
		M.Phil.	04
		PG	03
16.	Number of faculty with ongoing projects from	NIL	



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	0.11
	Number of papers published in peer reviewed journals	01
	National Journals	0
	International Journals	01
	Books Edited	NIL
	Books Edited with ISBN Numbers	NIL
	Impact factor	
	h – index	NIL

### Details of Paper Publications in Peer Reviewed Journals

#### a. Publications in International Journals

Name of the Faculty	TITLE OF THE PAPER	JOURNAL	IMPACT FACTOR	CITATIONS
Mahesh Arvind	Bioremediation for Environmental Management	International Journal of Environment Engineering and Development, 2014		

20.	Areas of consultancy and income generated	NIL
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21.	Faculty as members in	
	a. National Committees	NIL
	b. International Committees	NIL
	c. Editorial Boards	01
	<b>Dr. Mahesh Arvind</b> Member, <b>Technical Committee</b> to review research papers of ICEAE to be published in IJESD	
	<b>d. Membership in Academic Bodies of Dr. Mahesh Arvind</b> <ul style="list-style-type: none"> <li>• International Society of Ecological Communications</li> <li>• Indian Society of Sciences</li> <li>• Indian Society of Environmental Science</li> <li>• National Academy of Environmental Science</li> <li>• Asia- Pacific Chemical Biological Environmental Engineering Society</li> <li>• Indian Science Congress Association</li> </ul>	
22.	Student projects	
	a) Percentage of students who have done in-house projects including inter departmental/programme	2%
	b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies	10%
23.	Awards / Recognitions received by faculty and students	
	<p>➤ <b>Dr. Mahesh Arvind</b></p> <ul style="list-style-type: none"> <li>* Fellow of Society of Sciences</li> <li>* Fellow of Society of Environmental Science;</li> <li>* Fellow of International Society of Ecological Communications;</li> <li>* Senior Scientist Award from Indian Science Congress Association-Bangalore Chapter</li> </ul> <p>➤ <b>Jyothi.R.Kumar</b></p>	



	<p><b>Best Poster Award</b> for the poster titled “Antioxidant and Antidiabetic properties of Syzygium Cumini seeds and moringaolifera leaves” presented at National conference organized by Jyothi Nivas College in February 2012.</p> <p>➤ <b>Smitha B Rao</b> Secured 7<sup>th</sup> Rank in 2013 University Examinations</p> <p>➤ <b>Bindu Shree</b> Secured 10<sup>th</sup> Rank in 2014 University Examinations</p>	
24.	<p><b>List of eminent academicians and scientists / visitors to the department</b></p>	
a.	<b>Dr.K.N.Mahendra</b>	Professor, Dept. of chemistry, Bangalore University, Bangalore
b.	<b>Dr.Nagasundara.K.R</b>	Professor, Dept. of chemistry, Bangalore University, Bangalore
c.	<b>Prof. T N Guru Row</b>	Professor, Solid State and Structural Chemistry Unit, Indian Institute of Science, Bangalore
d.	<b>Prof. M R N Murthy</b>	Professor, Molecular Biophysics Unit, Indian Institute of Science, Bangalore
e.	<b>Prof. Tupil Venkatesh</b>	Professor Emeritus, St. John’s Medical College, Bangalore
f.	<b>Dr.Nandini</b>	Professor and Chairperson, Dept. of Environmental Science Studies, Jnana Bharati Campus, Bangalore University
25.	<p><b>Seminars/ Conferences/Workshops organized &amp; the source of funding</b></p>	
a.	Title of the Conference	UGC Sponsored <b>National Seminar</b> on “Emerging trends in Chemistry with emphasis on Environment”
	Dates held	23 <sup>rd</sup> Dec 2011
	No. of Participants	160
	Main Sponsor	UGC
	Co – Sponsors	• BHS Higher Education Society
b.	Title of the Conference	Workshop on Revised Biochemistry Syllabus (CBCS)



Dates held	20 <sup>th</sup> and 21 <sup>st</sup> February 2015
No. of Participants	35
Main Sponsor	BHS Higher Education Society

**c. Conferences Attended by Faculty**

**i. International Conferences**

Sl. No.	Name of the faculty	Title of the Workshop/ Seminar/ Conference	Date	Organized by (Name of the institution or university)	Title of the paper presented
1	Dr. Mahesh Arvind	International Conference on Ecosystem conservation and Sustainable Development	10-12 <sup>th</sup> Feb., 2011	Ambo University, Ethiopia	Current studies in Bioremediation for environmental management
2	Dr. Mahesh Arvind	International Conference on Bioremediation and Environmental Management	28-29 <sup>th</sup> Dec 2011	Presidency College, Bangalore	Biodegradation of $\alpha$ -Naphthol by Arthrobacter citreus
3	Dr. Mahesh Arvind	International Conference on Environment and Human Health	28-29 <sup>th</sup> Nov., 2012	National Environment Science Academy, New Delhi	Bioremediation and phytoremediation for removal of phenolic pollutants
4	Dr. Mahesh Arvind	International Conference on Environment and Agricultural Engineering	6-7 <sup>th</sup> Aug. 2014	Asia Pacific Chemistry Biology Environment Engineering Society, Singapore	Bioremediation for environmental management - a case study
5	Dr. Mahesh Arvind	International Conference on Advanced Oxidation Processes 2014	28 <sup>th</sup> Sept 2014	Mahatma Gandhi University, Kottayam, Kerala	Comparative study of biodegradation of naphthol
6	Jayashree P	International conference on recent advances in material science and technology	17-19 Jan- 2013	National institute of technology Kanataka-Suratkal	Acoustic behaviour of glycine in aqueous and partial aqueous solutions of Nickel sulphate at different



Sl. No.	Name of the faculty	Title of the Workshop/ Seminar/ Conference	Date	Organized by (Name of the institution or university)	Title of the paper presented
					temperatures and compositions of methanol and acetonitrile.
7	Dr. N Manjula	Proteomics from Discovery to Function	7th - 9th Dec 2014	Indian Institute of Technology, Mumbai	Expression of antioxidant enzyme (protien) peroxidase in <i>paspalum srobiculam.L</i> (kodomillet) during salt stress
8	Jayashree P	International Conference on Electro chemical science and technology, ECONEST-2014	5th and 6th February 2015	Oxford college, Karnataka Science and Technology Academy Co - sponsored	

## ii. National Conferences

Sl. No.	Name of the faculty	Title of the Workshop/ Seminar/ Conference	Date	Organized by (Name of the institution or university)	Title of the paper presented
1	Shivappa Notagar	Recent Advances in electrochemical and surface science and engineering	4th Feb 2011	BNM College of Engineering, Bangalore	-
2	Dr.Manjula.N	Recent Trends in analytical techniques-NCRTAT	19th Feb 2011	D.R.M.College, Davangere.	
3	K.V.Channakeshava	Recent Advances in electrochemical and surface science and engineering	4th Feb 2011	BNM College of Engineering, Bangalore	-
4	L Jayakumar	Recent Advances in Organic Synthesis and Biosciences-RAOSB"	18thFeb-2010	Christ University. Bangalore	
5	Dr.Mahesh Arvind	National conference on Environmental Awareness	16-18th Feb 2010	Pune University at Rahata, Maharashtra	Biodegradation of phenolic pollutants of



Sl. No.	Name of the faculty	Title of the Workshop/ Seminar/ Conference	Date	Organized by (Name of the institution or university)	Title of the paper presented
					vrishabavathi river
6	Dr.Mahesh Arvind	National Conference on Challenges of Modern Biology in 2020	29-31 March 2010	Indian Science Congress- Bangalore Chapter	Treatment of Vrishabavathi stream loaded with industrial effluents and sewage
7	Dr.Mahesh Arvind	National Conference on Recent trends in Biomedical Research	22 <sup>nd</sup> Nov 2010	Presidency College, Bangalore	Bioremediation for the ill effects of phenolic pollutants
8	Dr.Mahesh Arvind	National Conference on Developmental Biology	15-17 <sup>th</sup> Sept. 2010	UGC-SAP, Bangalore University	Phytoremediation for decontaminating aeromatics
9	Dr.Mahesh Arvind	Seminar on Depletion of Forests and livelihood Concerns	17-18 <sup>th</sup> Feb. 2011	Christ University, Bangalore	Bioremediation as a livelyhood concern
10	Dr.Mahesh Arvind	National Conference on Science for Mankind	2-3 <sup>rd</sup> Feb. 2011	JyotiNivas College, Bangalore	Biodegradation of phenolics by immobilized cells of Arthrobacter sp.
11	Jayashree.P	Recent advances in chemical and environmental sciences NCRACES	28-29 <sup>th</sup> Dec-2011	Jain university	1. Ion solvation studies of glycine in water, methanol, acetone nitrile and their mixture by conductometry 2. Transport behaviour of glycine in aqueous solutions of copper sulphate in 5%-20% methanol and acetonitrile at different temperatures.





Sl. No.	Name of the faculty	Title of the Workshop/ Seminar/ Conference	Date	Organized by (Name of the institution or university)	Title of the paper presented
12	Dr. Manjula.N	National Conference on Science for Mankind	2-3 <sup>rd</sup> Feb. 2011	JyotiNivas College, Bangalore	Response of Kodomillet(Paspalum scrobiculatum) to high temperature and salt stress and its comparison with Finger millet
13	L.Jayakumar	National Conference on "Recent Trends in Analytical Techniques-NCRTAT-2011"	19 <sup>th</sup> February 2011	Davanagere University, Davanagere	
14	L.Jayakumar	National Level Conference on "Chemistry for Society & Industry"	5 <sup>th</sup> March 2011	JyothiNivas College, Bangalore	
15	Dr.Mahesh Arvind	National Level Conference on "Chemistry for Society & Industry"	5 <sup>th</sup> March 2011	JyothiNivas College, Bangalore	
16	Dr.Mahesh Arvind	National Conference on Mile stones of Chemistry in the last 100 years	10 <sup>th</sup> Sept 2011	S.Nijalingappa college, Bangalore	
17	Jyothi.R.Kumar	Synergy 2012-science for mankind.	2 <sup>nd</sup> and 3 <sup>rd</sup> Feb 2012	JyothiNivascollege, Bangalore	
18	Dr.Mahesh Arvind	National Symposium on Science for shaping the future of India	30-31 <sup>st</sup> Aug 2012	V.V.Puram College, Bangalore	Bioremediation for decontaminating industrial pollutants
19	Dr.Mahesh Arvind	Workshop on Ensuring a clean and green urban environment-challenges and solutions in urban waste management	2 <sup>nd</sup> Oct.,2012	Bangalore University-Centre for Gandhian Studies	
20	Jayashree.P	National Seminar on Spectroscopy	13-14 th Feb 2014	Maharani's Science college for women, Bangalore	
21	Jyothi.R.Kumar	National seminar on Bioveda - A Treasure	6 & 7 <sup>th</sup> Feb 2014	Jain University Bangalore	



Sl. No.	Name of the faculty	Title of the Workshop/ Seminar/ Conference	Date	Organized by (Name of the institution or university)	Title of the paper presented
		Trove			
22	L.Jayakumar	“UGC sponsored national conference on atomic physics,molecular physics and X-ray crystallography”	8 <sup>th</sup> - 10 <sup>th</sup> Jan 2015	Vijaya College , Bangalore	
23	L.Jayakumar	Advanced nanotechnology and its applications (NCOANA 2015)	22 <sup>nd</sup> and 23 <sup>rd</sup> Jan 2015		
24	Dr.Mahesh Arvind	National Conference on Value Initiatives in Institutions of higher learning Key to Youth Empowerment	3rd - 4th Feb 2015	MLA College for Women, Bangalore	Monooxygenases and Dioxygenases in Biodegradation of phenols

### iii. State Level and Regional Level Conferences

Sl. No.	Name of the faculty	Title of the Workshop/ Seminar/ Conference	Date from to	Organized by (Name of the institution or university)
1	Jyothi R Kumar	State level seminar on “High polymer-The Material of Choice”	24 <sup>th</sup> feb 2011	Jain University, Bangalore

### 26. Student profile programme/course wise:

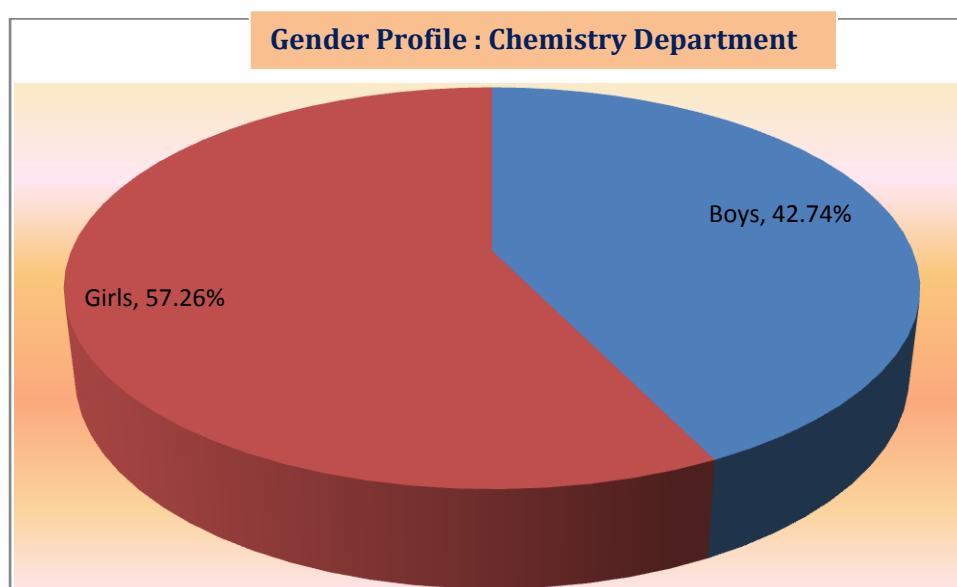
#### Stream : Chemistry

Year	Name of the Course / Programme	Applications Received	Selected	Enrolled in I Year		TOTAL (All Years)	Pass Percentage (outgoing students)
				Male	Female		
2010 - 11	B.Sc.	72	72	34	38	380	91.53%
2011 - 12		93	93	32	61	352	82.35%
2012 - 13		88	88	40	48	301	82.71%
2013 - 14		123	123	56	67	208	77.03%
2014 - 15		122	122	49	73	330	



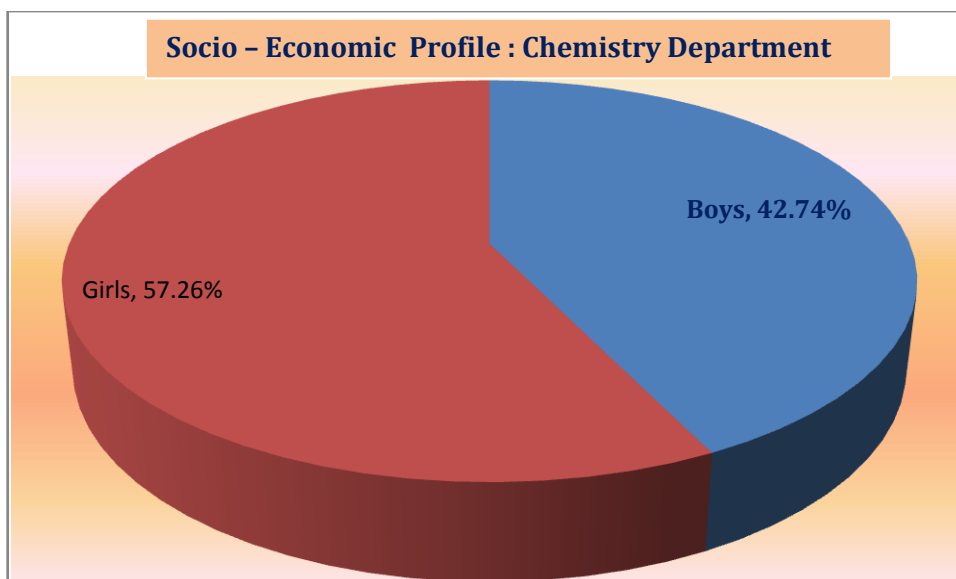
### Gender Profile of Students

Academic Year	Boys	Girls	Total
2011 – 12	158	194	352
2012 – 13	121	180	301
2013 – 14	120	165	285
2014 – 15	143	187	330
<b>Average Percentage</b>	<b>42.74%</b>	<b>57.26%</b>	



### Socio – economic profile of students

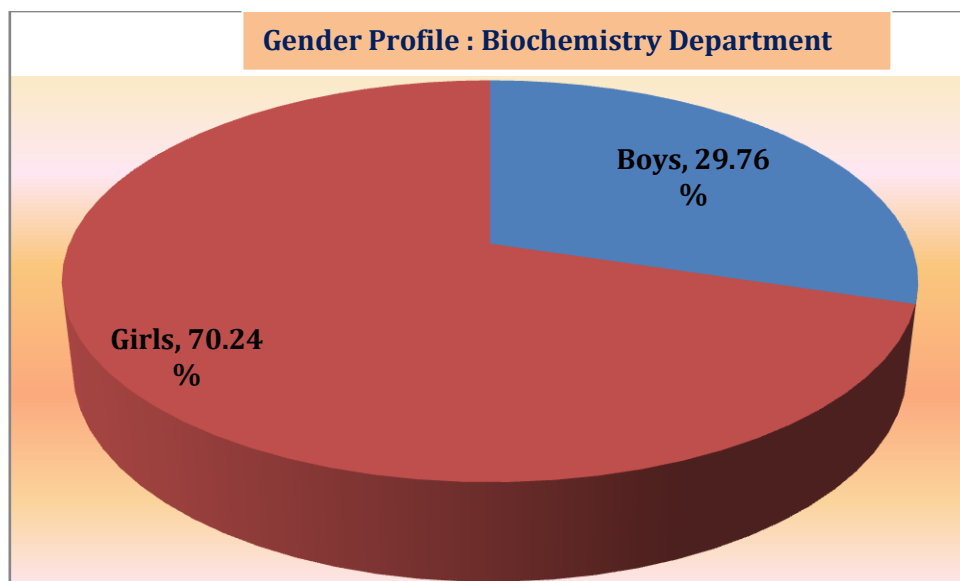
Academic Year	SC/ST	OBC	GM	Total
2011 – 12	63	130	159	352
2012 – 13	59	142	100	301
2013 – 14	53	146	86	285
2014 – 15	67	159	104	330
<b>Average Percentage</b>	<b>19.09%</b>	<b>45.50%</b>	<b>35.41%</b>	

**Stream : Biochemistry**

Year	Name of the Course / Programme	Applications Received	Selected	Enrolled in I Year		TOTAL in ALL Years	Pass Percentage (outgoing students)
				Male	Female		
2010 - 11	B.Sc.	17	17	4	13	57	100.00%
2011 - 12		21	21	6	15	54	91.30%
2012 - 13		16	16	6	10	45	83.33%
2013 - 14		30	30	7	23	65	88.24%
2014 - 15		24	24	6	18	71	

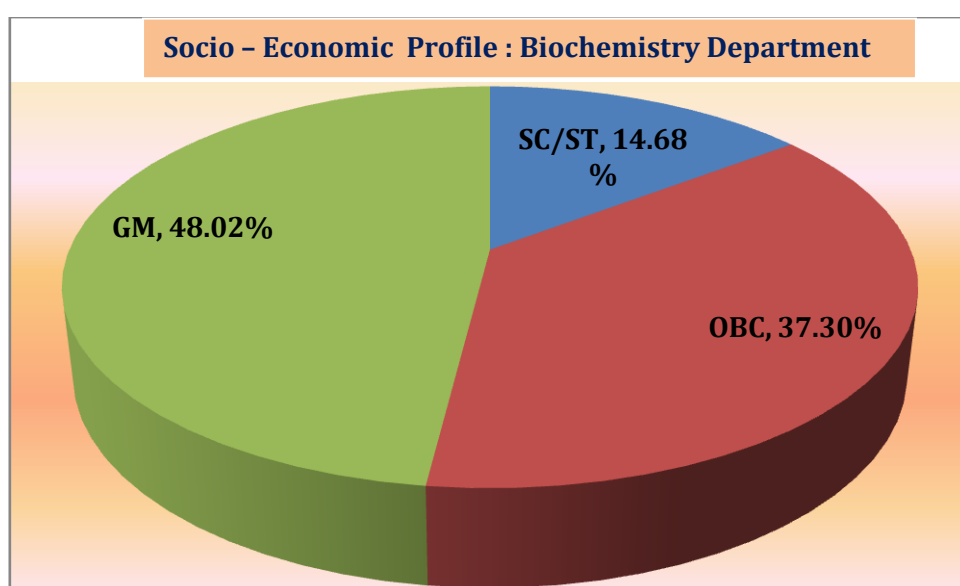
**Gender Profile of Biochemistry Students**

Academic Year	Boys	Girls	Total
2011 - 12	25	47	72
2012 - 13	13	29	42
2013 - 14	18	47	65
2014 - 15	17	54	71
<b>Average Percentage</b>	<b>29.76%</b>	<b>70.24%</b>	



**Socio - economic profile of Biochemistry students**

Academic Year	SC/ST	OBC	GM	Total
2011 – 12	11	23	38	72
2012 – 13	5	18	19	42
2013 – 14	9	29	27	65
2014 – 15	12	23	36	71
<b>Average Percentage</b>	<b>14.68%</b>	<b>37.30%</b>	<b>48.02%</b>	





## 27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.Sc.	100%	0%	0%

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

**NIL**

29. Student progression (Chemistry & Biochemistry)

Student progression	Against % enrolled			
	Year	No. enrolled	Total No.	%age
UG to PG	2010 - 11	5	69	7.25%
	2011 - 12	9	120	7.50%
	2012 - 13	9	136	6.62%
	2013 - 14	10	77	13%
	<b>Average</b>	<b>8.25</b>	<b>100.5</b>	<b>8.21%</b>
	PG to M.Phil.	NA		
PG to Ph.D.	NA			
Ph.D. to Post-Doctoral	NA			
<b>Employed</b>	Data Not Available			
• Campus selection				
• Other than campus recruitment	Data Not Available			
Entrepreneurship/Self-employment	NIL			



30.	Details of Infrastructural facilities	
a.	LIBRARY	
	<b>Books</b> Main Library	5000 Books
	Department Library	100 Books
b.	Internet facilities for Staff & Students	Available
c.	Class rooms with ICT facility	02 Class rooms and Laboratory
d.	Laboratories	
	Total Number Available	03
	Average Area of Each Laboratory	1100 sq. Ft.
	Total area of Laboratories	About 3300 Sq. Ft.
31.	Number of students receiving financial assistance from college, university, Government or other agencies	Data furnished under student support services

32.	Details on student enrichment programmes (special lectures / workshops /seminar) with external experts	
1.	Guest lecture on “ <b>Environmental Issues around Bangalore City</b> ” by <b>Prof. Nandini</b> , Professor, Dept. of Environmental Science, Bangalore University on 1 <sup>st</sup> Sept 2012	
2.	Guest lecture on “ <b>Lead Poisoning</b> ” by <b>Prof. Tupil Venkatesh</b> , Professor Emeritus, St. John’s Medical College, Bangalore on 26 <sup>th</sup> Feb 2013.	
3.	Guest lecture on “ <b>Crystallography</b> ” by <b>Prof. M R N Murthy</b> , Molecular Biophysics Unit, Indian Institute of Science., Bangalore on 17 <sup>th</sup> October 2013	
4.	Industrial Visit to <b>ttk Pvt. Ltd., Hosur</b> and <b>Global Calcium Pvt. Ltd., Hosur</b> on 5 <sup>th</sup> Oct 2011 . 50 students of VI Sem B.Sc. and 3 teachers took part	
5.	Industrial Visit to <b>Nerolac Paints and Varnishes Industry, Hosur</b> on 11 <sup>th</sup> Oct 2012 where 56 students and 3 teachers took part	



6.	Industrial Visit to <b>Mangalore Chemicals and Fertilizers Limited, Mangalore</b> on 30 <sup>th</sup> March 2013 to 1 <sup>st</sup> April 2013 where 40 students and 3 teachers participated
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33. Teaching methods adopted to improve student learning

- Chalk and Talk Method
- Use of ICT in class room sessions with PPT presentations
- Demonstration of Models and use of charts in classroom sessions
- Question Bank and Assignment
- Laboratory Manual to students
- Additional coaching provided to students involved in Sports, cultural, NCC, NSS and Co – Curricular activities who would have lost their regular classes

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Participation in Environment awareness programmes. Participation in NSS and NCC events. Participation in National Festivals. Lady faculty members of the department actively participate in Women Empowerment Cell activities.

Dr.Mahesh Arvind is working as student counsellor for the college students and for voluntary organizations.

Dr.Mahesh Arvind is the Convener of the college literary and cultural committee

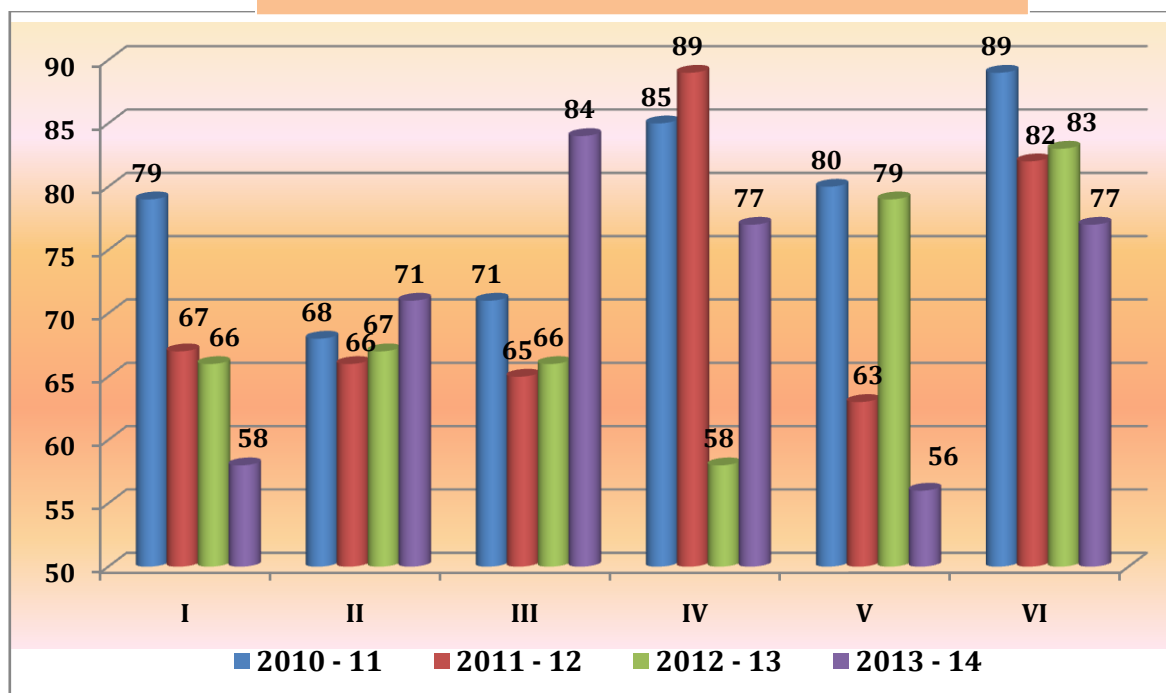
#### I. Trend in Success Rate of Chemistry Students : 2010 - 2014

Sem	2010 - 11	2011 - 12	2012 - 13	2013 - 14
I	79	67	66	58
II	68	66	67	71
III	71	65	66	84
IV	85	89	58	77
V	80	63	79	56
VI	89	82	83	77





Success Rate : Chemistry Department - 2010 - 2014



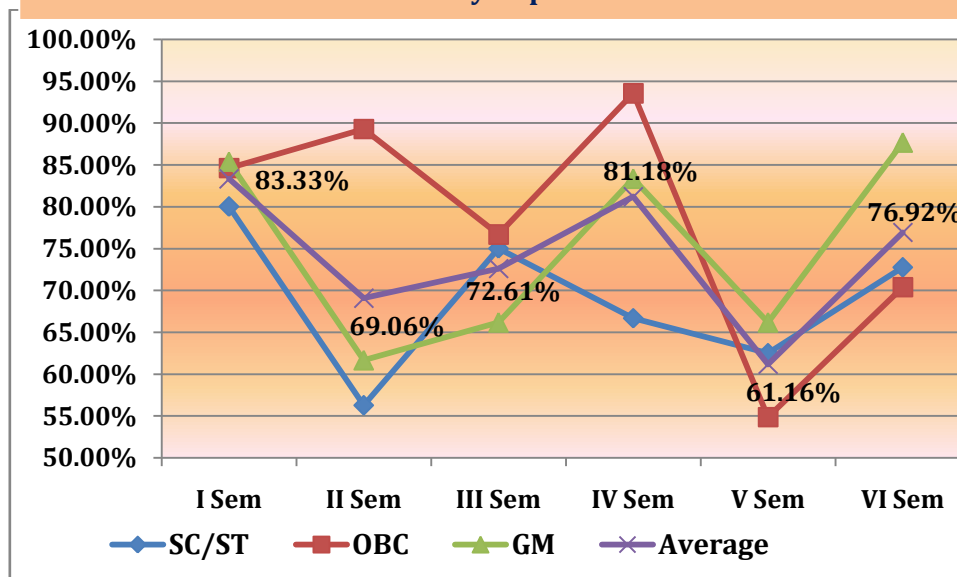
VIJAYA COLLEGE

II. Cohort Performance of Chemistry Students : 2010 - 2014

Batch - I : 2009 - 12

Category	I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem
SC/ST	80.00%	56.25%	75.00%	66.67%	62.50%	72.73%
OBC	84.62%	89.29%	76.67%	93.55%	54.84%	70.37%
GM	85.37%	61.64%	66.15%	83.33%	66.15%	87.65%
<b>Average</b>	<b>83.33%</b>	<b>69.06%</b>	<b>72.61%</b>	<b>81.18%</b>	<b>61.16%</b>	<b>76.92%</b>

Cohort Performance : Chemistry Department - Batch - I : 2009 - 2012

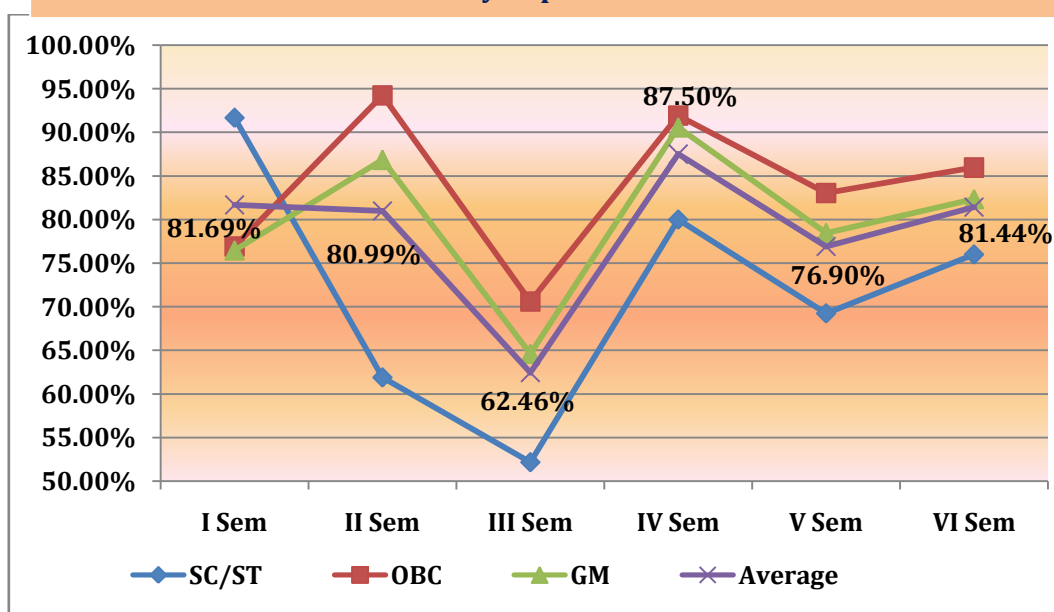




**Batch - II : 2010 - 13**

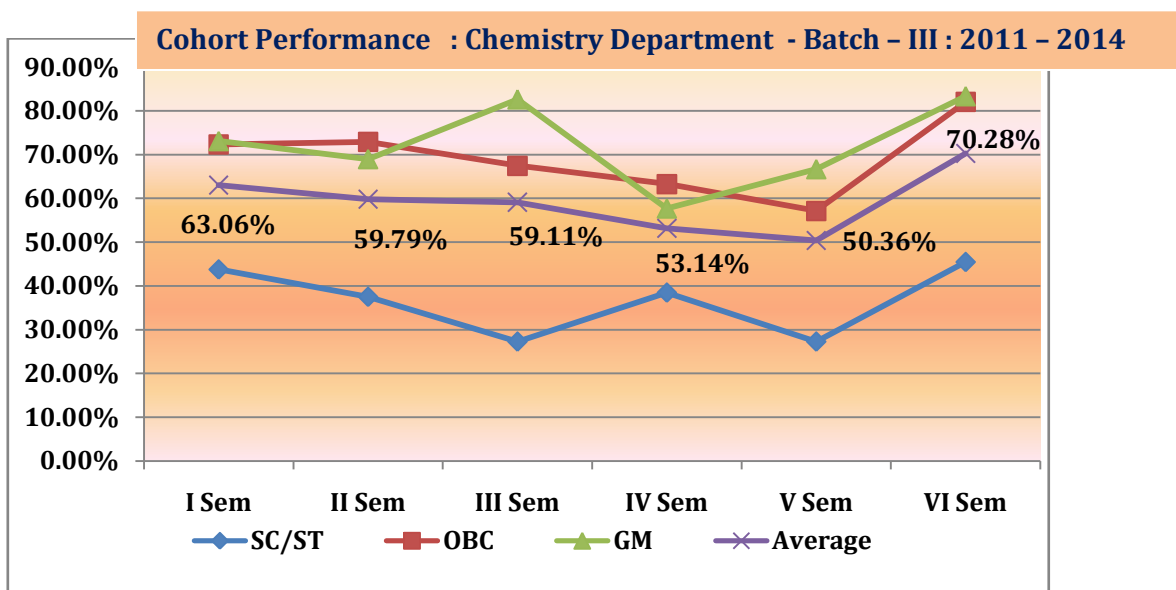
Category	I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem
SC/ST	91.67%	61.90%	52.17%	80.00%	69.23%	76.00%
OBC	76.92%	94.23%	70.59%	91.94%	83.05%	85.96%
GM	76.47%	86.84%	64.62%	90.57%	78.43%	82.35%
<b>Average</b>	<b>81.69%</b>	<b>80.99%</b>	<b>62.46%</b>	<b>87.50%</b>	<b>76.90%</b>	<b>81.44%</b>

**Cohort Performance : Chemistry Department - Batch - II : 2010 - 2013**



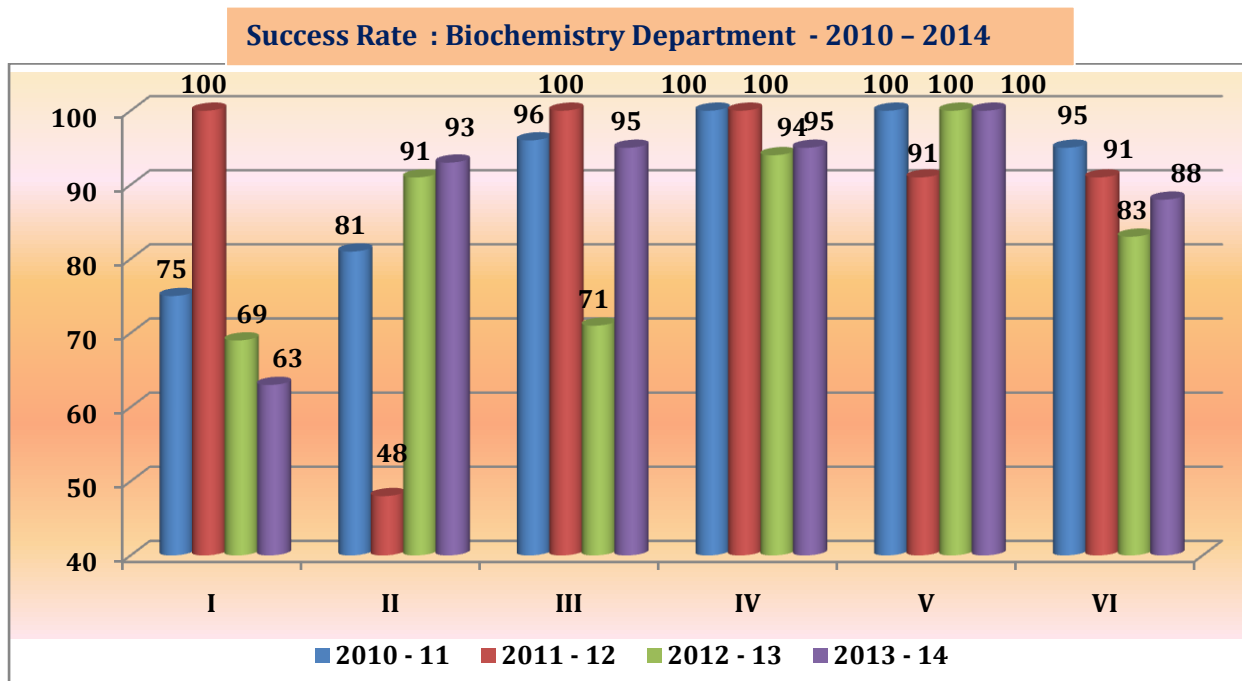
**Batch - III : 2011 - 14**

Category	I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem
SC/ST	43.75%	37.50%	27.27%	38.46%	27.27%	45.45%
OBC	72.34%	72.92%	67.44%	63.27%	57.14%	82.05%
GM	73.08%	68.97%	82.61%	57.69%	66.67%	83.33%
<b>Average</b>	<b>63.06%</b>	<b>59.79%</b>	<b>59.11%</b>	<b>53.14%</b>	<b>50.36%</b>	<b>70.28%</b>



**III. Trend in Success Rate of Biochemistry Students : 2010 - 2014**

Sem	2010 - 11	2011 - 12	2012 - 13	2013 - 14
I	75	100	69	63
II	81	48	91	93
III	96	100	71	95
IV	100	100	94	95
V	100	91	100	100
VI	95	91	83	88



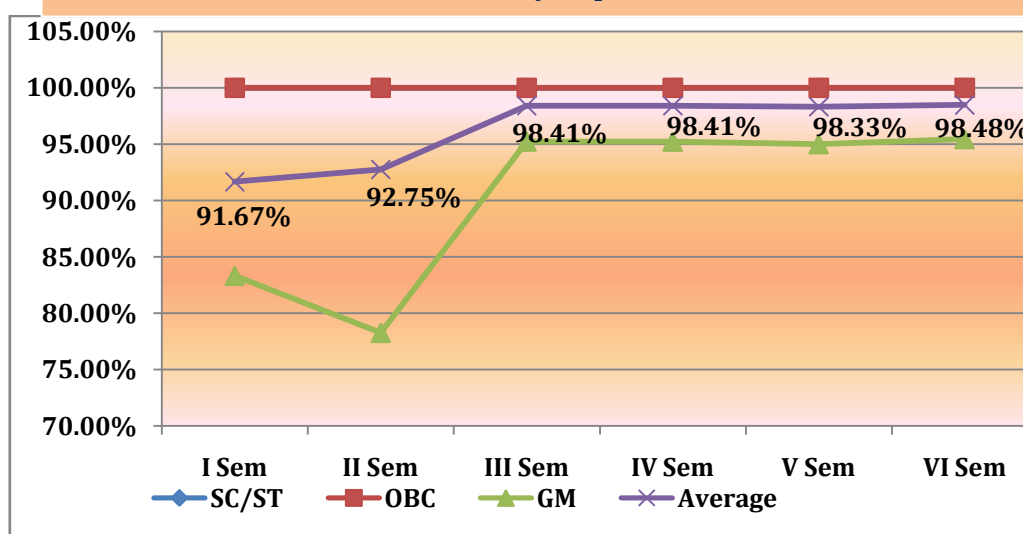


**IV. Cohort Performance of Biochemistry Students : 2010 - 2014**

**Batch - I : 2009 - 12**

Category	I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem
SC/ST	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
OBC	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
GM	83.33%	78.26%	95.24%	95.24%	95.00%	95.45%
<b>Average</b>	<b>91.67%</b>	<b>92.75%</b>	<b>98.41%</b>	<b>98.41%</b>	<b>98.33%</b>	<b>98.48%</b>

**Cohort Performance : Biochemistry Department - Batch -I : 2009 - 2012**

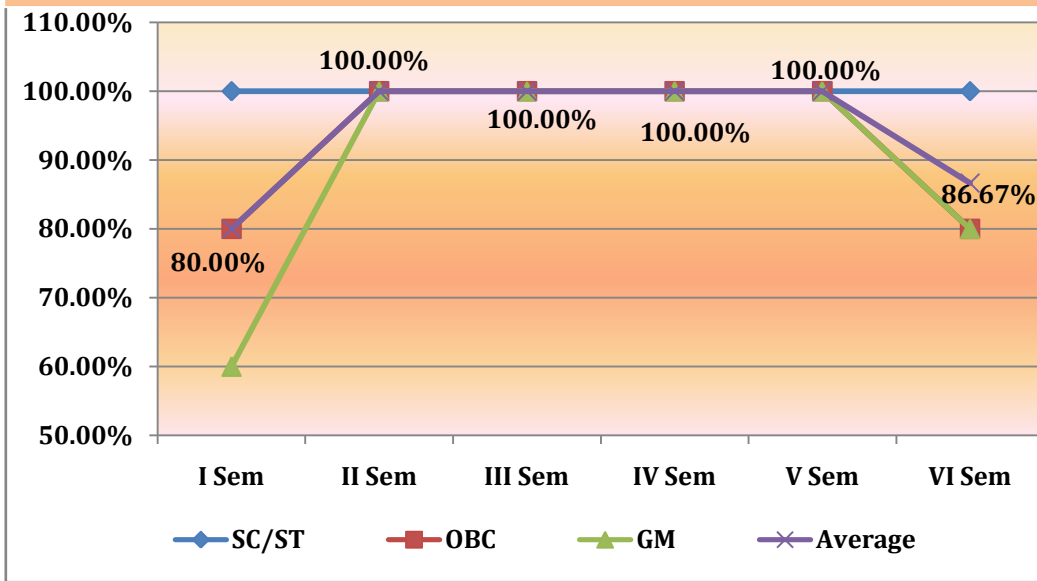


**Batch - II : 2010 - 13**

Category	I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem
SC/ST	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
OBC	80.00%	100.00%	100.00%	100.00%	100.00%	80.00%
GM	60.00%	100.00%	100.00%	100.00%	100.00%	80.00%
<b>Average</b>	<b>80.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>86.67%</b>



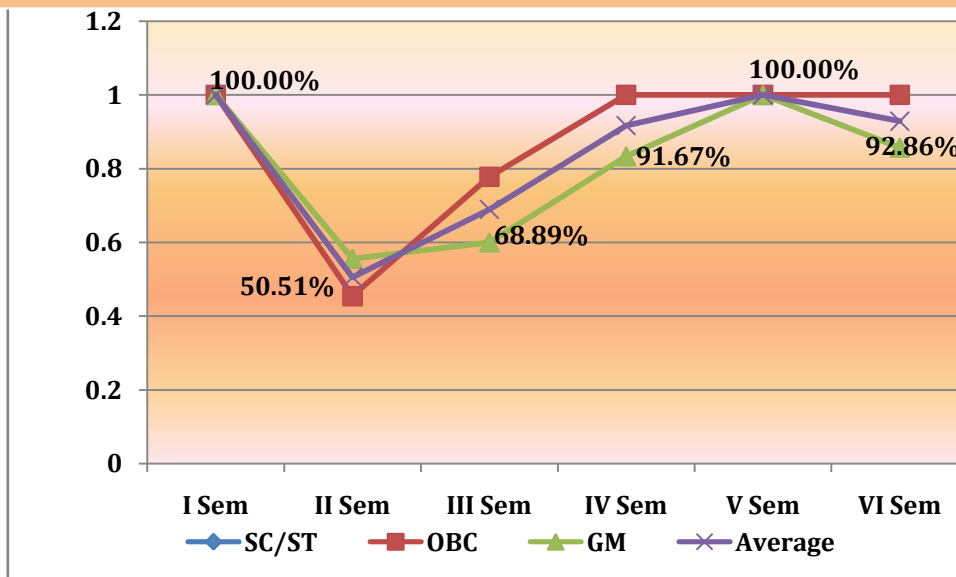
**Cohort Performance : Biochemistry Department - Batch - II : 2010 - 2013**



**Batch - III : 2011 - 14**

Category	I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem
SC/ST	NA	NA	NA	NA	NA	NA
OBC	100.00%	45.45%	77.78%	100.00%	100.00%	100.00%
GM	100.00%	55.56%	60.00%	83.33%	100.00%	85.71%
<b>Average</b>	<b>100.00%</b>	<b>50.51%</b>	<b>68.89%</b>	<b>91.67%</b>	<b>100.00%</b>	<b>92.86%</b>

**Cohort Performance : Biochemistry Department - Batch - III : 2011 - 2014**





### 35. SWOC Analysis of the department of Chemistry and Biochemistry

#### Strengths

- Good, dedicated and qualified teaching faculty
- Adequate Laboratory facilities for teaching – learning purposes
- Study material and laboratory material provided to students
- Fairly good student – teacher ratio

#### Weaknesses

- Inconsistent student strength over years
- Declining student strength and quality to pure science course and hence chemistry

#### Opportunities

- Explore Minor research project with funding from UGC and VGST
- Introduce Industrial Chemistry as a specialization once autonomy is granted
- Collaborate with Pharmaceutical industries and other chemical industries for student research projects and employment opportunities

#### Challenges

- Making curriculum relevant to the market and industry needs
- Funding requirements for modernization of the laboratories and acquiring equipment suitable for both academic and research purpose

#### Future Plans

- Creating an advanced spectroscopy lab with UV – Visible spectrophotometer, Fluorescence spectrophotometer and similar other equipment with necessary physical infrastructure
- Introduction of career oriented course in Industrial Chemistry
- Developing interactions with national institutes of research and industry to tap the talent resource available there.
- Developing interdepartmental collaborations to introduce innovative teaching and research methodology.
- Adapting to latest teaching pedagogy in class room teaching

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