DEPARTMENT OF COMPUTER SCIENCE

1.	Name of the department	COMPUTER SCIENCE
2.	Year of Establishment	1986
3.	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	B.Sc. : PMCs, SMCs, MECs BCA Certificate Course
4.	Names of Interdisciplinary courses and the departments/units involved	Computer Fundamentals is being as Compulsory subject for all stream
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	Mathematics, Electronics, Biotechnology
7.	Courses in collaboration with other universities, industries, foreign institutions, etc.	
	Career Oriented Courses offered in collaboration through MOUs with ➢ Object Orb Technologies Ltd. ➢ Tetcos	
8.	Details of courses/programmes discontinued (if any) with reasons	NIL

9. Number of teaching posts

Designation	Sanctioned	Filled
Professors	NIL	NIL
Associate Professors	1	1
Asst. Professors	12	12

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
H. K Gundu Rao	M.Sc, M.Phil.	Associate Professor	Software Engineering & Digital Image Processing	23
B Latha	BE, M.Sc.(IT), M.Phil.	Assistant Professor	Data Mining	15
B Gopala	BE, M.Sc. (IT), M.Phil	Assistant Professor	Data Mining	14
Hemalatha N	BE, M.Sc. (IT), M.Phil.	Assistant Professor	Data Mining	13
Vinutha V	MCA	Assistant Professor	Software Engineering	12
Surendra H D	MCA, M.Phil.	Assistant Professor	Computer Networks	9
Divya S R	M.Sc., M.Phil.	Assistant Professor	Data Mining	10
Nageshwari	MCA, M.Phil.	Assistant Professor	Computer Networks	6
Bharathi M G	MCA, M.Phil.	Assistant Professor	Computer Networks	6
Beena Nair	MCS, M.Phil.	Assistant Professor	Decision Support Systems and MIS	15
Sowmya S	MCA	Assistant Professor	S/W Engineering	8
Sunitha K M	MCA	Assistant Professor	Cloud Computing	5
Jai Gopi K	BE, M.Tech, M.Phil.	Assistant Professor	Computer Networks	5

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)	B.Sc. : 22 : 1 BCA : 12 : 1 TOTAL : 34 : 1

14.	Number of academic support staff (technical) and administrative support staff			
	Category of support staff	**Sanctioned**	**Filled**	
	Technical staff (Programmers)	03	03	
	System Administrator	01	01	
	Academic support staff	04	04	
	TOTAL	**08**	**08**	

15.	Qualifications of teaching faculty with D Sc/ D.Litt. / Ph.D. / MPhil / PG	Ph.D	00
		M.Phil.	10
		PG	03

16.	Number of faculty with ongoing projects from	01
	National Funding Agency	01
	International Funding Agency	NIL
	Grants Received	Rs.1,50,000=00 from UGC
	UGC MRP Project title : "Multimodal biometric: On combining signature and finger print biometrics for person verification /recognition"	
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	4
	Publication per faculty	0.5
	Number of papers published in peer reviewed journals	07
	National Journals	00

		International Journals	07
		Books Edited	06
		List of books authored by Prof. H K Gundu Rao	
	2010	Revised edition : **A text book of Computer Business Applications** For IV sem B.COM, Bangalore University, Bangalore	
	2010	Revised Edition : **A text Book Of Data structures Using C** for II sem BCA, Bangalore University bangalore	
	2011	Revised Edition : **A text book of Operating systems** **for BCA IV semester ,** Bangalore University, Bangalore	
	2012	Revised Edition : **A text Book of Computer Fundamentals** for B.Sc, B.Com,BA,BCA and BBM, Bangalore University, Bangalore	
	2013	**A text book of I PUC Computer Science for I PUC** Computer science students as per the syllabus prescribed by Govt of karanataka	
	2014	**A text book of II PUC Computer Science for II PUC** Computer science students as per the syllabus prescribed by Govt of karanataka	
		Books Edited with ISBN Numbers	NIL
		Impact factor	0.91
		h – index	1

Details of Paper Publications in International Journals

Sl. No.	Name of the Faculty	TITLE OF THE PAPER	JOURNAL	IMPACT FACTOR	CITATIONS
1	Sunitha K M	Hybrid drowsiness detection system to prevent accident using non-intrusive physiological measures	IJCSN International Level, Volume -3 in 2014	1	1
2	H K Gundu Rao	An exploration of the limitations of the ISO 9126. International Standard.	International Research publication House ISSN 0974-3162 Vol. 3 number 2 (2012), pp.91-99.	1	1
3	H K Gundu Rao	Software Quality Modeling Technique for Software Process Models	International Journal of Software Engineering and computing with ISSN no 2229-7413. (2011)	1	1
4	H K Gundu Rao	Using Software process quality feature for software process assessment and certification	International journal of software engineering and computing, Volume 4, 2012 , ISSN No. 2229-7413 (2011)	0.95	1
5	Vinutha V.	SWOT Analysis of e-learning	International Journal of Software Engineering and Architecture, Volume 1, No. 1, Jan-June 2011	0.52	1
6	Vinutha V.	Adoption of Cloud Computing in Education and Learning	ISSN No. 2249-0523, International Journal of Software Engineering Research. Volume 2 Number. 1-2, Jan-Dec 2012.	0.95	1

Sl. No.	Name of the Faculty	TITLE OF THE PAPER	JOURNAL	IMPACT FACTOR	CITATIONS
7	Vinutha V.	Conceptual framework: Risk Management in Software Project Development	ISSN No. 2277-579, Journal of Computer Engineering, An International Journal, Volume 1 No. 1-2, Jan-Dec2012	0.95	1

20.	Areas of consultancy and income generated	NIL
21.	Faculty as members in	
	a. National Committees	NIL
	b. International Committees	NIL
	c. Editorial Boards	02
	Prof. H K Gundu Rao	Worked as a Reviewer for I PUC Computer Science Text Book , appointed by Govt. of Karnataka, year 2013
	Prof. N Hemalatha	Worked as a Reviewer for I PUC Computer Science Text Book , appointed by Govt. of Karnataka, year 2012
22.	Student projects	
	a) Percentage of students who have done in-house projects including inter departmental/programme	100%
	b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies	NIL

23.   Awards and Recognitions received by faculty and students
Member, Board of Studies (BOS)

Sl No.	Name of the faculty	During	University/Autonomous Institution
1.	H. K. Gundu Rao	2012 Till date	St. Joseph Autonomous College.
2.	H. K. Gundu Rao	2013 Till date	National College Autonomous Jayanagar.
5.	H. K. Gundu Rao	2013	CMR Autonomous college
6.	H. K. Gundu Rao	2010 -2011	Bangalore University

24.	**List of eminent academicians and scientists / visitors to the department**	
a.	**Dr. Hanumanthappa**	Professor, Post Graduate Dept. Of Computer Applications, Bangalore University
b.	**Dr. Raghu V. Hudli**	CEO, Object ORB technologies
c.	**Dr. Murlidhara, Chairman**	Post Graduate Dept. Of Computer Applications, Bangalore University
d.	**Mr. Sripad Krishnamurthy**	Head of Capability Development, Adobe India
e.	**Mr. Sreehari S**	Managing Director, India Development, Novell Netware, Bangalore
f.	**Mr. Raghavendra N. K.**	CEO, Sumadhva Technologies
g.	**Dr. Gururaj Karajagi**	Chairman, Academia for creative technologies
h.	**Dr. Hemanth Kumar**	Chairman, Dept., of computer Science, Mysore University
i.	**Dr. Somashekar**	Professor, Post Graduate Dept. Of Computer Applications, Bangalore University

j.	Dr. Manjunatha Rao	Director, Dr. Ambedkar Institute of Technology, Bangalore
k.	Dr. Shashidhara H. N.	Professor, Dept. of telecommunication, PES Institute of Technology

25.	Seminars/ Conferences/Workshops organized & the source of funding National International	NIL

State Level Workshop Organized

Title of the Workshop **:** Digital Image Processing

Source of Funding : UGC

Date held : 20th Feb 2010

2011 – 12

Title of the Course	Dates held	Conducted by	Time
One day course for faculty on Hypertext Pre-Processor (PHP)	24th September 2011	Sripada K., Adobe Systems	10.30 am to 5.30 pm

2012 – 13

Title of the Course	Dates held	Conducted by	Time
One day course for faculty on Computer Assembly & Networking	18th August 2012	Raghavendra, C-Cube Systems, Bangalore	10.30 am to 5.30 pm

2013 – 14

Title of the Course	Dates held	Conducted by	Time
One day course for faculty on HTML5	28th September 2013	Raghu V Hudli, Object Orb Technologies, Rajajinagar, Bangalore	11.00 am to 4.00 pm

2014 – 15

Title of the Course	Dates held	Conducted by	Time
One day course for faculty on Java Servlets	22nd December 2014	Pradeep T N Software Engineer : IBM India Pvt Ltd, Bangalore.	11.30 am to 4.30 pm

Conferences Attended

a.   International Conferences Attended

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.	H K Gundu Rao	4th International Conference on Advances in Recent Technologies in Communication and Computing(ARTCOM 2012).	19-oct -2012 & 20-oct-2012	The ACEEE (the Association of Computer Electronics and Electrical Engineers) - a division of the IDES(Institute of Doctors Engineers and Scientists)	Measuring Defect potentials and Minimizing the Difficulty of SQA by Automated Techniques. Published in **Springer Archived in Springer Digital Library.**
2	H K Gundu Rao	"Advanced Computer Theory and Engineering" (ICACTE- 2012)	02-09-2012	IRD India, Bangalore	A Survey of Various Software Quality Models

b.   National Conferences Attended

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	H. K. Gundu Rao	National Level workshop Microsoft Technology Enriched Instruction FACULTY DEVELOPMENT WORKSHOP	20-11-2014	Microsoft Technology	------------

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
2	H. K. Gundu Rao	UGC sponsored National Level conference "Recent Trends on Electronics and its Application"	14-03-2014 and 15-03-2014	Government First Grade College, K R Puram, Department of Collegiate Education, Government of Karnataka	------------
3	H. K. Gundu Rao	UGC sponsored National Level conference "Machine Learning and pattern Recognition"	01-02-2014 to 02-02-2014	Sri Channabasaveshwar Arts, Science & Commerce College, Bhalki - Dist., Bidar, Karnataka,	------------
4	H. K. Gundu Rao	National Level seminar "Changing paradigms of higher education 11th five year plan initiatives"	30-11-2013 to 02-12-2013	All India Federation of University College Teachers Organization (AIFUCTO) at St. Alyosious College, Mangalore.	------------
5	H. K. Gundu Rao	National Level Workshop "Machine Intelligence and Imaging Technologies (MI-IT 2013)"	28-08-2013 to 30-08-2013	Department of computer Sc and Eng., Bangalore Institute of Technology. Bangalore	------------
6	H. K. Gundu Rao	National Level conference "Emerging trends in computer Engineering and Technologies"	11-04-2012 to 12-04-2012	T.John College of Science and Arts	The various definitions for software assurance.
7	H. K. Gundu Rao	National Level conference "Recent Advances in soft computing and knowledge discovery (SCKD 2K12)."	19-01-2012 to 21-01-2012	Sri Venkateshwara university, Tirupati, Andhra Pradesh., Sponsored by UGC, DST (Department of Science and Technology) and CSIR (Council for Science and Industrial Research)	Necessities of Software Quality Assurance Model
8	B. Gopala	National Level workshop "Database Management systems "	21-05-2013 to 31-05-2013	Indian Society for Technical Education (ISTE) Workshop BMS College of Engineering, 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
9	Latha B	National Level seminar "Emerging Trends in IT"	17-02-2011	Christ University, Bangalore	-----------
10	Hemalatha N.	National Level Seminar "Changing paradigms of higher education 11th five year plan initiatives"	14-11-2014 to 16-11-2014	All India Federation of University and College Teachers' Organizations (AIFUCTO), at GGSD College, Chandighar.	-----------
11	Hemalatha N.	National Level workshop "Python the Way"	28-02-2014 to 01-03-2014	PES- Institute of Technology	-----------
12	Hemalatha N.	National Level seminar "Changing paradigms of higher education 11th five year plan initiatives"	30-11-2013 to 02-12-2013	All India Federation of University College Teachers Organization (AIFUCTO) at St. Alyosious College, Mangalore.	-----------
13	Hemalatha N.	National Level conference "The Emerging Trends in Information Technology"	21-12-2011	St. Francis DeSales College, Bangalore	-----------
14	Hemalatha N.	National Level seminar "Nano Technology - Current Research Trends and Commercialization"	27-10-2010	Indo Asian centre for Nano Technology, B'lore-43	-----------
15	Vinutha V.	National Level conference "Advanced techniques in Comp. Sc."	24-02-2012 and 25-02-2012	Dept. of Comp. Sc., Ideal College of Arts and Science (A), Kakinada	Conceptual framework and risk management in the software development
16	Vinutha V.	National Level seminar "Recent trends in information and Communication Technology "	07-01-2012 and 08-01-2012	Dept. of Comp. Science, Krishna University, Machilipatnam	Adoption of cloud computing in Education and Learning

VIJAYA COLLEGE

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
17	Vinutha V.	National Level seminar "Impact of Information technology in rural India"	08-06-2011 and 09-06-2011	KBN College, Vijaya Wada	SWOT analysis of e-learning
18	Vinutha V.	National level Conference "Information Technology and its Applications" (NITA-2K11)"	25-11-2011 to 27-11-2011	Dept. of CS Sri Venkateshwara University, Tirupati, Sponsored by UGC, DST	Impact and Implications of Web Based E-Learning
19	Divya S. R.	National level seminar "Emerging Trends in IT"	17-02-2011	Christ University	------------
20	Bharathi M. G.	National level workshop "Image processing Using MATLAB"	06-07-2012	Dept. Of Information Technology, CMR Institute of Management Studies, Bangalore in association with Computer Society of India	------------
21	Bharathi M. G.	National level worshop "Research opportunities in Computer Science"	16-03-2013	St. Claret College, Bangalore	------------
22	Nageshwari	National level workshop "Database Management systems "	21-05-2013 to 31-05-2013	Indian Society for Technical Education (ISTE), BMS College of Engineering, Bangalore	------------
23	Jai Gopi K.	National level workshop "Database Management systems "	21-05-2013 to 31-05-2013	Indian Society for Technical Education (ISTE) BMS College of Engineering, Bangalore	------------

c.　　　**State Level and Regional Level Conferences**

Sl. No.	Name of the faculty	Title of the Workshop/ Seminar/ Conference	Date	Organized by (Name of the institution or university)
1	H. K. Gundu Rao	Regional level workshop "Research Avenues in Computer Science"	07-10-2014	Department of MCA(BU), Dayanand Sagar Institutions, Bangalore. Sponsored by Bangalore University
2	H. K. Gundu Rao	State level workshop "Design, Development and Implementation of Various Applications of Microcontrollers."	12-09-2014 & 13-09-2014	Government Science College, Bangalore., Sponsored by UGC-CPE(Centre for potential Excellence)
3	H. K. Gundu Rao	State level seminar "Image Processing"	28-02-2012	B. V. Jagadeesh Science Centre, The National Degree College Campus, Jayanagar, Bangalore. sponsored by UGC
4	B. Gopala	State Level Seminar "Research Avenues in Computer Science"	07-10-2014	Dayananda sagar college of Arts, Science and Commerce sponsored by Dept. of MCA Bangalore University
5	B. Gopala	State Level Seminar "Digital Image Processing"	20-02-2010	Vijaya College, sponsored by UGC
6	Latha B.	State Level Seminar "Digital Image Processing"	20-02-2010	Vijaya College, sponsored by UGC
7	Hemalatha N.	Regional Level Seminar "Research Avenues in Computer Science"	07-10-2014	Dayananda sagar college of Arts, Science and Commerce sponsored by Dept. of MCA Bangalore University

VIJAYA COLLEGE

Sl. No.	Name of the faculty	Title of the Workshop/ Seminar/ Conference	Date	Organized by (Name of the institution or university)
8	Hemalatha N.	State Level Seminar "Digital Image Processing"	20-02-2010	Vijaya College, sponsored by UGC
9	H. D. Surendra	Regional Level Seminar "Faculty Development Programme on "Research Avenues in Computer Science"	07-10-2014	Dayananda sagar college of Arts, Science and Commerce sponsored by Dept. of MCA Bangalore University
10	H. D. Surendra	State Level workshop "Android Application Development "	26-09-2014 to 27-09-2014	AIMIT(Adrsh Institute of Management Information Technology) sponsored by Dept. of MCA Bangalore University
11	H. D. Surendra	State Level workshop "Design, Development and Implementation of various applications of Microcontrollers"	12-09-2014 & 13-09-2014	Govt. Science College, Sponsored by UGC-CPE - 2days State Level Workshop
12	H. D. Surendra	State Level Seminar "Image Processing"	28-10-2011	ISRO Govt. of India, National Degree college, Jayanagar and Bangalore Science Forum.
13	H. D. Surendra	State Level Seminar "Digital Image Processing"	20-02-2010	Vijaya College, sponsored by UGC
14	S. R. Divya	State Level Seminar "Digital Image Processing"	20-02-2010	Vijaya College, sponsored by UGC
15	Nageshwari	State Level Seminar "Research Avenues in Computer Science"	07-10-2014	Dayananda sagar college of Arts, Science and Commerce sponsored by Dept. of MCA Bangalore University

| Sl. No.	Name of the faculty	Title of the Workshop/ Seminar/ Conference	Date	Organized by (Name of the institution or university)
16	Nageshwari	State Level Seminar "Digital Image Processing"	20-02-2010	Vijaya College, sponsored by UGC
17	Sowmya S.	State Level Seminar "Digital Image Processing"	20-02-2010	Vijaya College, sponsored by UGC
18	Sowmya S.	Regional Level Seminar "Research Avenues in Computer Science"	07-10-2014	Dayananda sagar college of Arts, Science and Commerce sponsored by Dept. of MCA Bangalore University
19	Beena Nair	Regional Level Seminar "Research Avenues in Computer Science"	07-10-2014	Dayananda sagar college of Arts, Science and Commerce sponsored by Dept. of MCA Bangalore University
20	Beena Nair	State Level Seminar "Digital Image Processing"	20-02-2010	Vijaya College, Sponsored by UGC

26.   Student profile programme/ course wise:
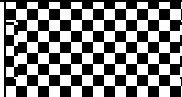
Stream : B.Sc. Computer Science

Year	Name of the Course / Programme	Applications Received	Selected	Enrolled in I Year		TOTAL All Years	Pass Percentage (outgoing students)
				Male	Female		
2010 - 11		138	138	61	77	268	86.25%
2011 - 12		86	86	41	45	326	84.07%
2012 - 13	B.Sc.	95	95	61	34	283	88.00%
2013 - 14		124	124	71	53	285	97.30%
2014 - 15		101	101	53	48	311	

Gender Profile of Computer Science Students

Academic Year	Boys	Girls	Total
2011 – 12	163	163	326
2012 – 13	156	127	283
2013 – 14	162	123	285
2014 – 15	176	135	311
Average Percentage	54.52%	45.48%	
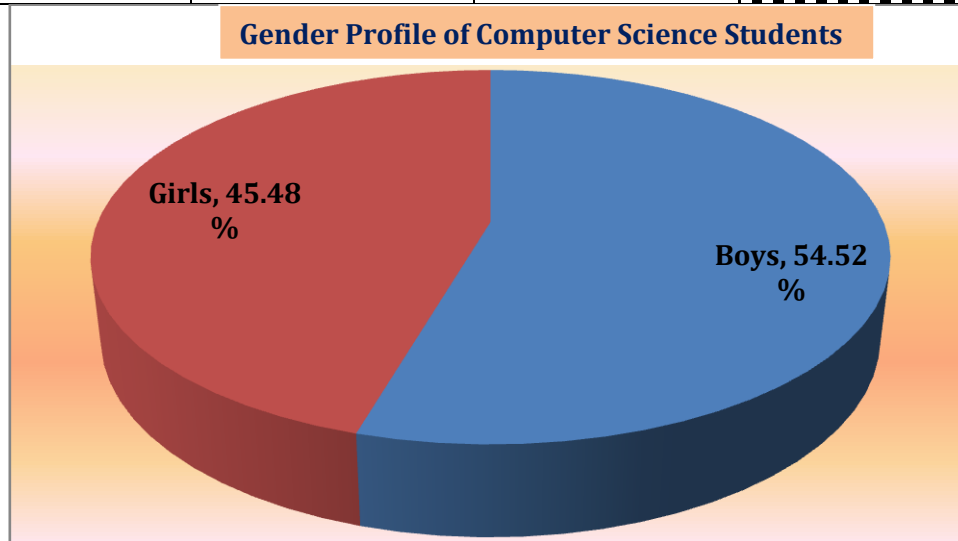
Gender Profile of Computer Science Students

Girls, 45.48 %

Boys, 54.52 %

Socio – economic profile of Computer Science students

Academic Year	SC/ST	OBC	GM	Total
2011 – 12	40	112	174	326
2012 – 13	51	116	116	283
2013 – 14	58	134	93	285
2014 – 15	65	142	104	311
Average Percentage	17.76%	41.83%	40.41%	

**Socio – Economic Profile of Computer Science Students**
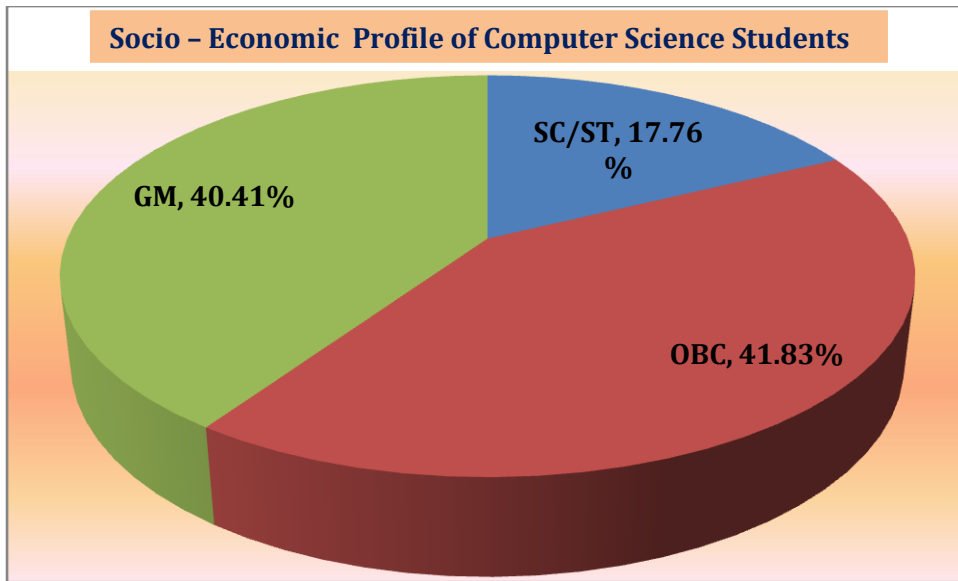
Stream : BCA

Year	Name of the Course / Programme	Applications Received	Selected	Enrolled in I Year		TOTAL All Years	Pass Percentage (outgoing students)
				Male	**Female**		
2010 - 11		237	48	23	25	**128**	**72.73%**
2011 - 12		225	51	25	26	**127**	**71.88%**
2012 - 13	BCA	212	37	24	13	**136**	**75.00%**
2013 - 14		190	66	28	38	**149**	**81.63%**
2014 - 15		207	64	32	32	**165**	

Gender Profile of BCA Students

Academic Year	Boys	Girls	Total
2011 – 12	**66**	**61**	**127**
2012 – 13	**72**	**64**	**136**
2013 – 14	**75**	**74**	**149**
2014 – 15	**85**	**80**	**165**
Average Percentage	**51.65%**	**48.35%**	

Gender Profile of BCA Students

Girls, 48.35%

Boys, 51.65%
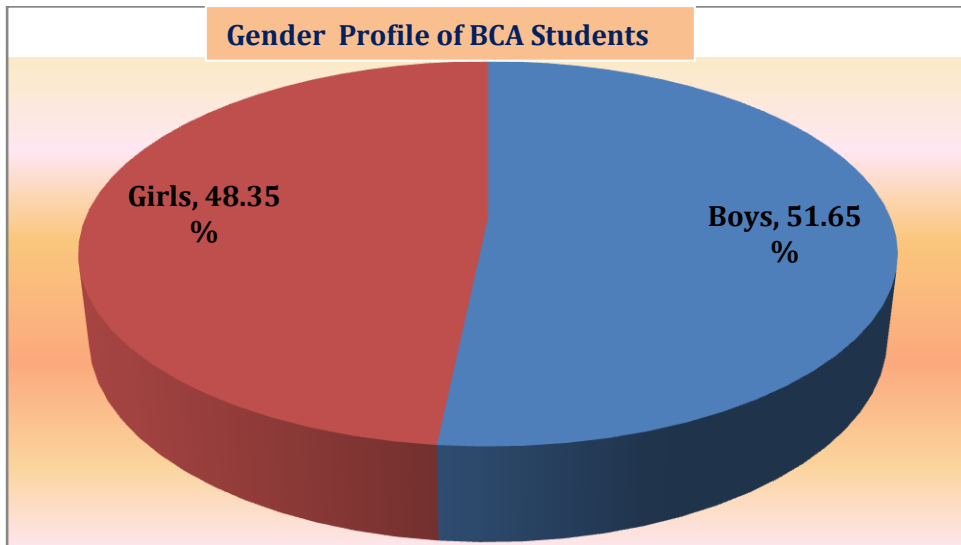
Socio – economic profile of BCA students

Academic Year	SC/ST	OBC	GM	Total
2011 – 12	13	37	77	127
2012 – 13	23	48	65	136
2013 – 14	27	69	54	149
2014 – 15	22	63	80	165
Average Percentage	14.73%	37.61%	47.83%	

Socio – Economic Profile of BCA Students

GM, 47.83%

SC/ST, 14.73%

OBC, 37.61%
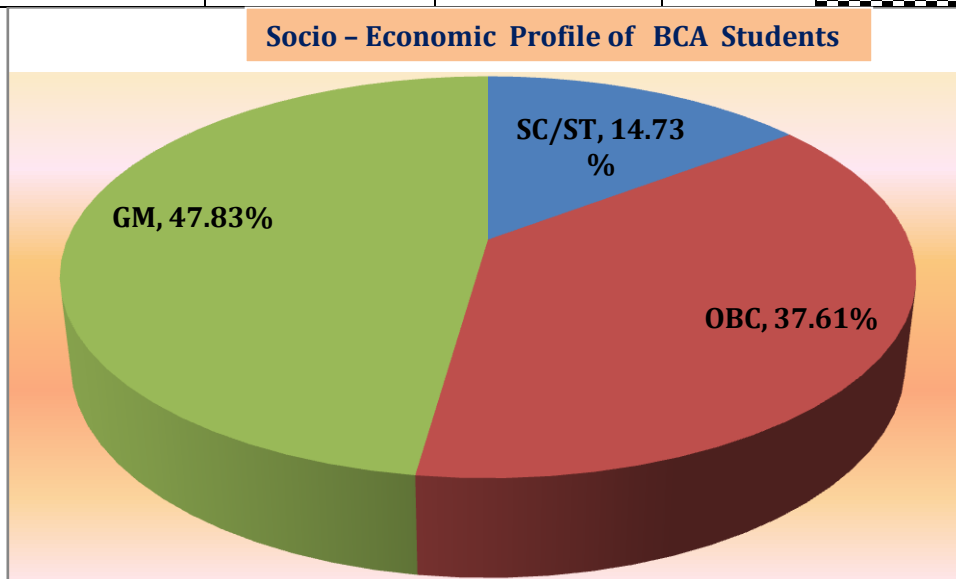
Student Achievements:

- **Shwetha K. S** secured **4th Rank** at Bangalore University Level in **BCA** stream in the year **2012-2013**.
- **Shivacharan C** of BCA has presented a paper titled "*A Survey of Various Software Quality Models*" at **International conference** Advanced Computer Theory and Engineering (I CATE) held in Bangalore, on **02/09/2012 by IRD India.**

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%	NIL	Nil
BCA	99%	1%	Nil

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

                No Data Available

29. Student progression

Student progression	Against % enrolled
UG to PG	10%
PG to M.Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed ➤ Campus selection	Data provided under student support services from placement cell
➤ Other than campus recruitment	84%
Entrepreneurship/Self-employment	1 %

30.	Details of Infrastructural facilities	
a.	LIBRARY	
	Books Main Library	2998 Books
	Department Library	80 Books
b.	Internet facilities for Staff & Students	Available
c.	Class rooms with ICT facility	05 Class rooms and Laboratory
d.	Laboratories	02
	Area of the Laboratories	3400 sq.ft.
31.	Number of students receiving financial assistance from college, university, Government or other agencies	Data furnished under student support services
32.	**Details of Student Enrichment Programmes**	

Title of the Guest Lecture Held	Date	Speaker
"Oracle 8" - for final year B. Sc. Students.	13-08-2009	**Kavya**, Center Head, Software technology Group international Ltd.,
"Visual Basic" - for final year B. Sc. & I year BCA Students	04-11-2009	**G. Sadashiv**, Center Manager, Dixit Infotech Services.
" SQL server" - for Final year B.Sc. And BCA students.	31-07-2010	**Divya**, Coordinator, SRM Learning Tree Pvt. Ltd.
"Career opportunities in IT field" - for Final year B.Sc. And BCA students.	11-02-2011	**B. S. Seetha.**, faculty, Boston Education and Software technologies Ltd., Jayanagar, Bangalore.
PHP (Hypertext Pre-Processor) -for final year B.Sc and BCA	21-01-2012	**Suresh**, Centre Head, NIIT Jayanagar
"Cloud computing" - For final Year BCA students	25-02-2012	**Anil,** Senior Faculty, Idea on Think, DVG Road, Bangalore

Title of the Guest Lecture Held	Date	Speaker
"Storage area Networks" - for Final Year BCA Students	24-03-2012	Sreenath , Software Engineer, EMC² , Jayanagar, Bangalore
"Software Development Process" - for 2nd year and final year Bsc and BCA	20-04-2012	Prabhakar , Swamy Vivekananda InfoTech, Chamarajpet, Bangalore.
"Industrial control systems" - for B.Sc. And BCA students	28-07-2012	Smt.Indira Hegde, Senior Project Manager, HoneyWell Automation, Bangalore.
"Career Opportunities in the field of Computer Science" - for Final year B.Sc. And BCA students	25-08- 2012	MR. Vikranth, Human Resources, Robert Bosch Engineering and Business Solution Ltd., Madiwala, Bangalore.
"Project Management" - for Final year BCA students	21-09-2012	Abhay Singh,Senior Software Engineer, HP India, Bangalore.
"Challenges in IT Industries" - for B.Sc. & BCA students	25-03-2013	Sri Sripad Krishnamurthy, Head of Capability Development, Adobe India, Bangalore.
"The courses offered by the Institute (a joint venture of Karnataka/Government of India) - for B.Sc. & BCA students	26-02-2014	Sri. Mruthyunjaya G P, Deputy Director of KGTTI (Karnataka German Technical Training Institute), Hosur Road, Bangalore.
" Software scenario in the IT industries" - for B.Sc. & BCA students	24-03-2014	Sri Sreehari S, Managing Director, India Development, Novell Netware, Bangalore.

Short term Courses conducted / Hosted

2011 – 12

Title of the Course	Dates held	Conducted by
COC in Network simulation	Aug 2011- Sept 2012	Staff, Vijaya College and tetcos

2012 – 13

Title of the Course	Dates held	Conducted by
Testing course	3rd February 2013 to 30th March 2013	Jai Gopi K conducted 20 hrs course on Manual and Automation Testing for B.Sc. and BCA students(80 students)

Title of the Course	Dates held	Conducted by
Dot Net and c# Programming	Aug 2012-Nov 2012	Jai Gopi K conducted training on VB.net for Final year BCA Students
COC in Network simulation	Aug 2012- Aug 2013	Staff, Vijaya College and tetcos

2013 – 14

Title of the Course	Dates held	Conducted by
COC in Network simulation	Aug 2013- till date	Staff, Vijaya College and tetcos
Floor Associate Course	15th June 2013 to 27th July 2013	40 students of B.Sc, BCA and B.Com participated in the course conducted by Centum Learning a venture of Bharati Walmart
JSP and My Sql training for BCA	1st December 2013 To April 2014	Pradeep T N Software Engineer : IBM India Pvt Ltd., Ashok Bhat S/w Eng., Cognizant Technology solutions.
Computer Animation certified by NSDC(National Skill Development Corporation) under STAR (Standard Training Assessment & Reward) Scheme	1st October 2013 to 1st November 2013	Karthik of ILFS/Skill's division
Testing course	3rd December 2013 to 30th December 2013	Jai Gopi K conducted 20 hrs course on Manual and Automation Testing for B.Sc. and BCA students(30 students)

2014 – 15

Title of the Course	Dates held	Conducted by
Testing course	3rd December 2014 to 30th December 2014	Jai Gopi K conducted 20 hrs course on Manual and Automation Testing for B.Sc. and BCA students(25students)
COC in Network simulation	Aug 2014 to till date	Staff, Vijaya College and tetcos

The department of Computer Science has initiated an annual intercollegiate fest titled "Protocol" where the following events are conducted.

- ➢   Virtual wars,
- ➢   Code storm,
- ➢   Bug arrest,
- ➢   Tech talk,
- ➢   Quiz.com,
- ➢   Trace the trove,
- ➢   Web krafting,
- ➢   Cross terminology,
- ➢   Tech-charades and
- ➢   Brain-flexer.

The objective of the fest is to arouse interest in the academics and the application of computers to solving specified problems. The best talented is recognized and awarded with a rolling trophy. It has been witnessed from the past two years that the event has been widely acclaimed amongst the students and the institutions. An average of about 50 colleges have participated in the past two years with a student strength of about 400.

❖   Protocol '13

Date of the event   :   25th March 2013
Inaugurated by   :   Mr. Sripad Krishnamurthy, Head of Capability Development, Adobe India
No. of participant colleges :   35
No. of student participants: 210
Winners of Rolling Trophy :   Maharani Lakshmi Ammani College, Malleswaram

❖   Protocol '14

Date of the event   :   24th March 2014
Inaugurated by   :   Mr. Srihari S, Managing Director, India Development Novell Netware, Bangalore
No. of participant colleges :   30
No. of student Participants :   150
Winners of Rolling Trophy :   Kristhu Jayanthi College, Bangalore

COC course in Network Simulation sponsored by UGC started in the year 2008.

33.   Teaching methods adopted to improve student learning

➢ Chalk and talk method

➢ Audio-visual presentation for theory and practical classes

➢ ICT in teaching – learning

➢ Seminars by students in individual subjects

➢ Mini projects and major projects

➢ Invited guest lectures

➢ short term programmes

➢ Remedial classes for slow learners

➢ Student participation in intercollegiate competitions

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

The department aims at providing an atmosphere of holistic development of students thereby transforming them into responsible citizens by transferring moral values. It aims at pursuing excellence towards creating students with high degree of intellectual, professional and cultural development to meet the national and global challenges. Department conducts various interclass competitions making for the preparation of the students for various intercollegiate competitions. The department encourages the students to involve in NSS activities and Blood donation Camps. Many of our staff has worked as resource persons for Pre-university colleges and schools. Teachers have gone to several institutions as judges for various intercollegiate competitions. Faculty members has given free consultation for establishing computer labs and purchase of software. Students are advised to save the power for nation by switching off the systems when it is not in use.

E-waste Management : An awareness programme was conducted and advised to collect E-waste generated by all the departments and administrative office and hand it over to the designated organization. This is an initiative launched by the BHS HES management in all its institutions.

I.   Trends in Success Rate of students in Computer Science : 2010 – 2014

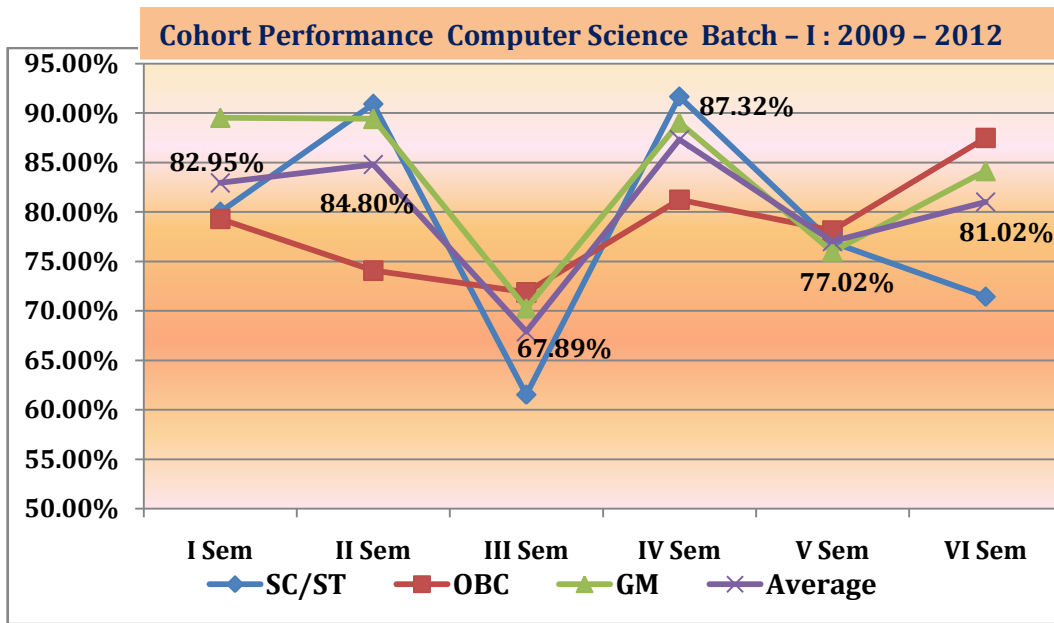| Sem	2010 - 11	2011 - 12	2012 - 13	2013 - 14
I	89	88	74	65
II	86	78	54	95
III	70	83	94	80
IV	91	83	76	80
V	86	77	92	91
VI				

Success Rate of Computer Science Students : 2010 – 2014
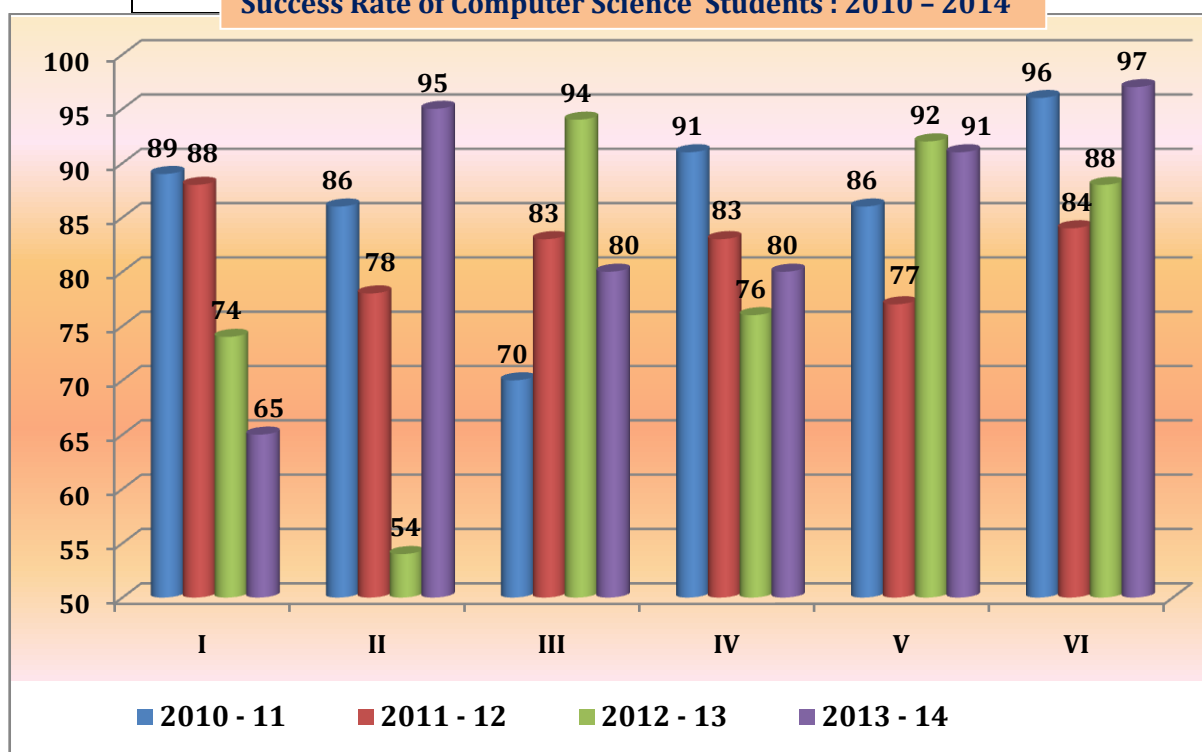
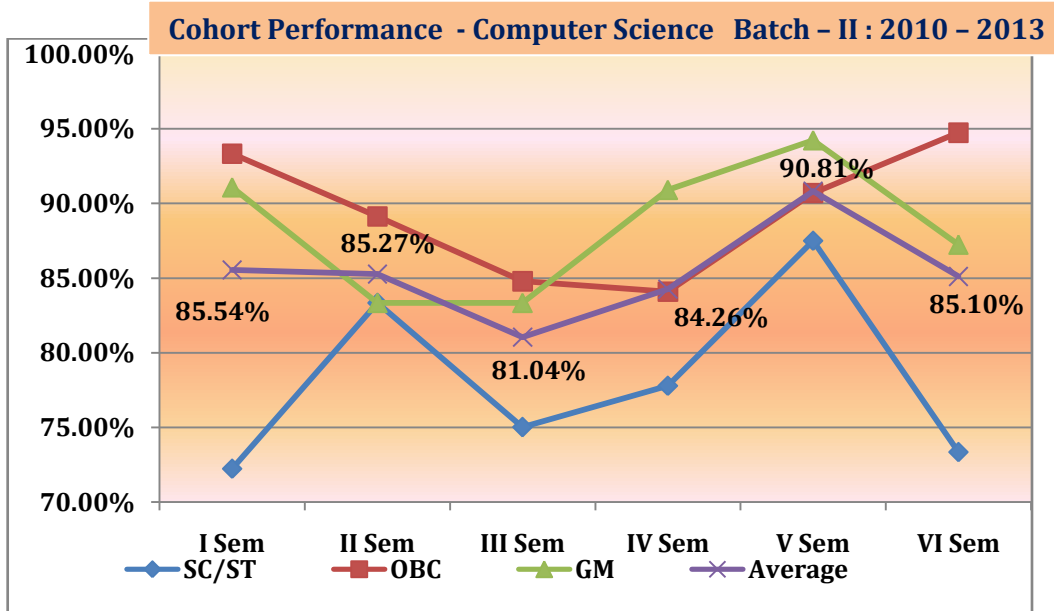## II.   Cohort Performance of Computer Science Students : 2009 – 2014

Batch - I : 2009 - 12

Category	I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem
SC/ST	80.00%	90.91%	61.54%	91.67%	76.92%	71.43%
OBC	79.31%	74.07%	71.88%	81.25%	78.13%	87.50%
GM	89.53%	89.41%	70.27%	89.04%	76.00%	84.15%
Average	82.95%	84.80%	67.89%	87.32%	77.02%	81.02%

Cohort Performance Computer Science Batch – I : 2009 – 2012

Batch - II : 2010 - 13

Category	I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem
SC/ST	72.22%	83.33%	75.00%	77.78%	87.50%	73.33%
OBC	93.33%	89.13%	84.78%	84.09%	90.70%	94.74%
GM	91.07%	83.33%	83.33%	90.91%	94.23%	87.23%
Average	**85.54%**	**85.27%**	**81.04%**	**84.26%**	**90.81%**	**85.10%**

Cohort Performance - Computer Science Batch – II : 2010 – 2013

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Batch - II : 2010 - 13

Category	I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem
SC/ST	72.22%	83.33%	75.00%	77.78%	87.50%	73.33%
OBC	93.33%	89.13%	84.78%	84.09%	90.70%	94.74%
GM	91.07%	83.33%	83.33%	90.91%	94.23%	87.23%
Average	85.54%	85.27%	81.04%	84.26%	90.81%	85.10%

Cohort Performance - Computer Science Batch – III : 2011 – 2014

III. Trends in success rate of students in BCA : 2010 – 2014

Sem	2010 - 11	2011 - 12	2012 - 13	2013 - 14
I	100	89	96	82
II	91	82	81	80
III	84	87	84	84
IV	91	93	79	87
V	90	92	90	92
VI	96	87	88	90

Success Rate of BCA Students : 2010 – 2014
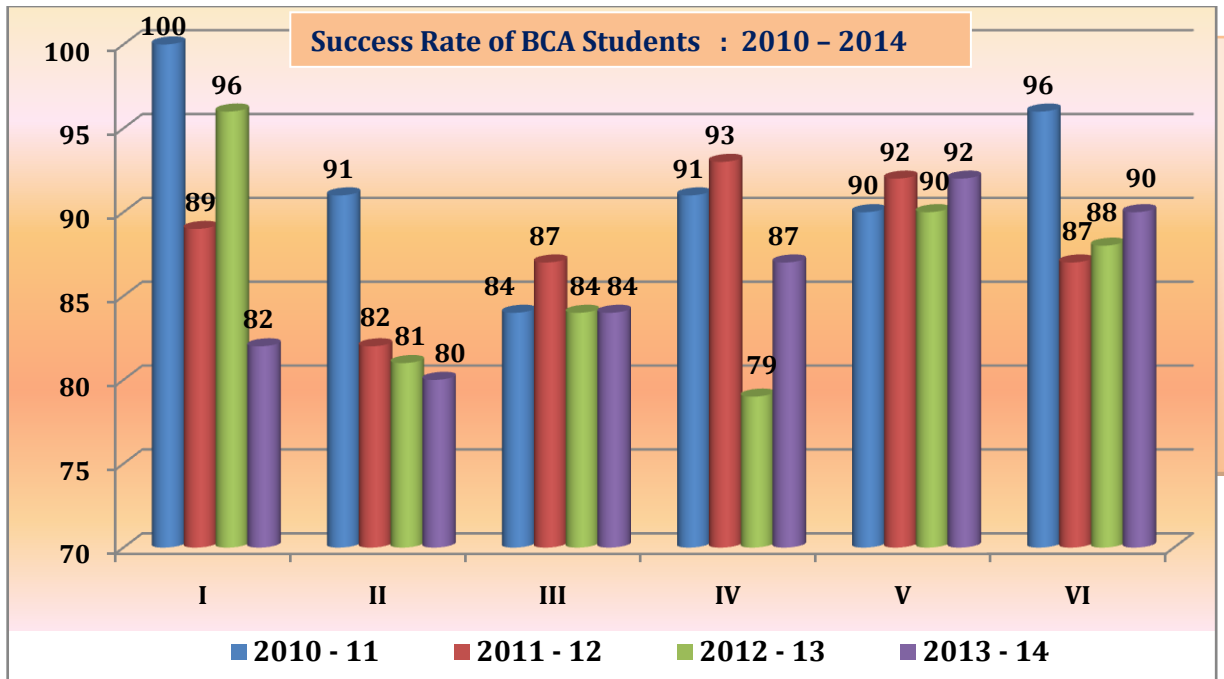
IV.   Cohort Performance of BCA students : 2009 – 2014

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%	80.00%	88.89%	93.33%	80.00%
GM	100.00%	88.46%	91.67%	95.65%	91.03%	87.69%
Average	100.00%	96.15%	90.56%	94.85%	94.79%	89.23%

Cohort Performance - BCA   Batch – I : 2009 – 2012
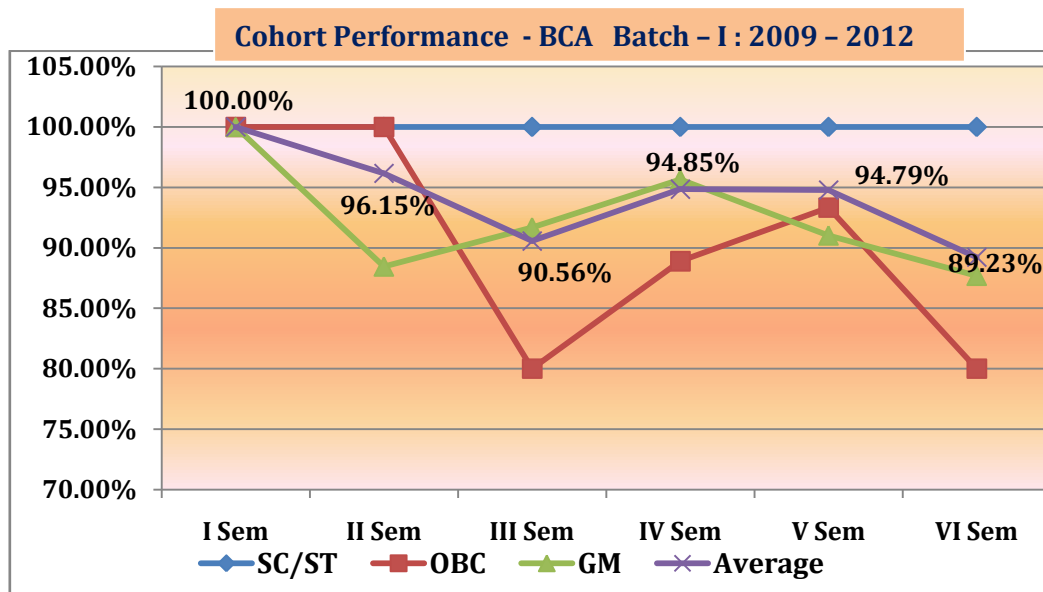
Batch - II : 2010 - 13

Category	I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem
SC/ST	100.00%	100.00%	77.78%	94.44%	83.33%	86.67%
OBC	100.00%	100.00%	93.75%	93.75%	91.25%	85.56%
GM	100.00%	88.46%	84.62%	92.31%	86.15%	90.83%
Average	100.00%	96.15%	85.38%	93.50%	86.91%	87.69%

Cohort Performance - BCA Batch – II : 2010 – 2013
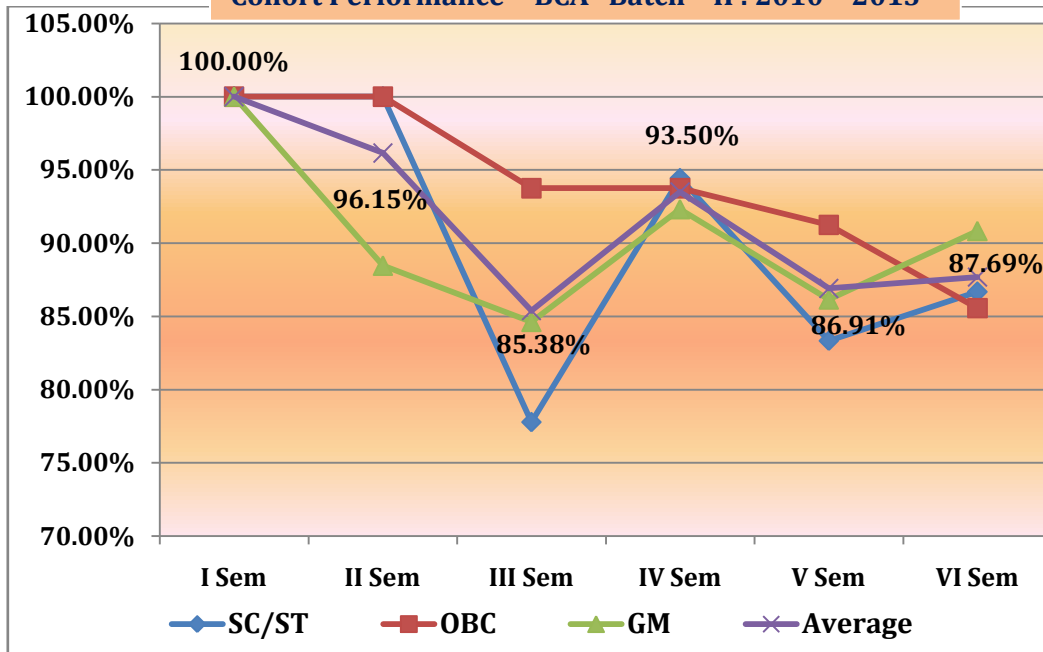
Batch - III : 2011 - 14

Category	I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem
SC/ST	66.67%	83.33%	77.78%	72.22%	86.67%	86.67%
OBC	86.11%	75.00%	81.25%	75.93%	97.50%	96.47%
GM	96.15%	86.00%	87.50%	83.33%	89.60%	86.92%
Average	82.98%	81.44%	82.18%	77.16%	91.26%	90.02%

Cohort Performance - BCA   Batch – III : 2011 – 2014
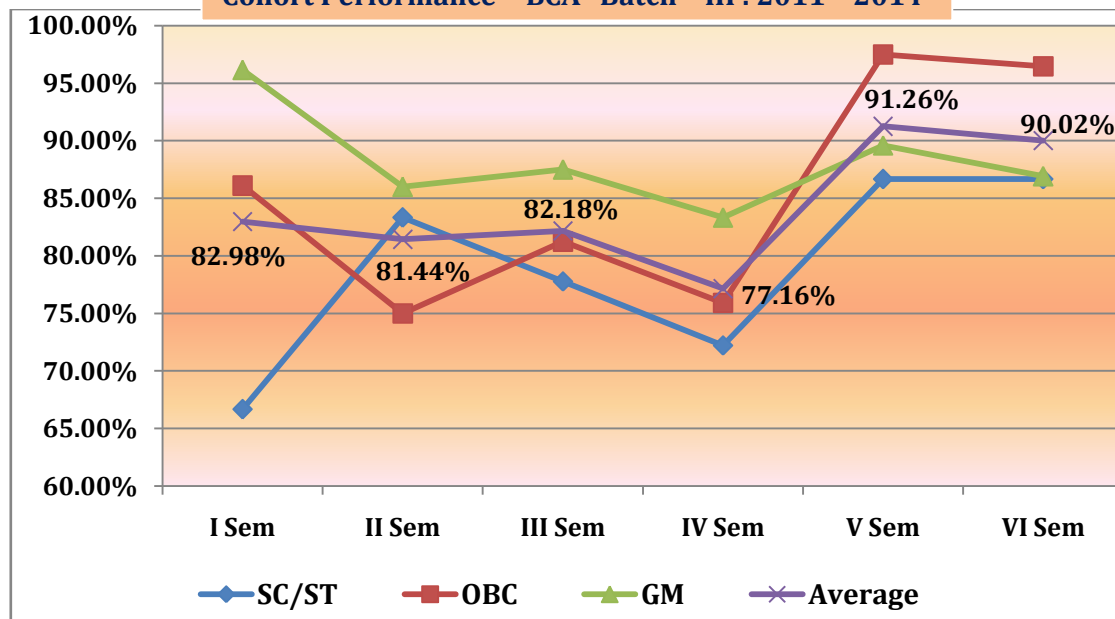
33. SWOC analysis of the department and Future plans

Strengths

- Good Team Work in the Department.

- Innovative Project Works by students.

- Consistent good results

- Good Infrastructure and Lab facilities.

- 80% of faculties are M.Phil. holders.

- Supportive alumni.

- Department has an interdisciplinary culture as faculty and students of all other departments seek support from the departmental staff for carrying out computer related tasks either for research work or for adopting modern pedagogy

- A good number of Supporting Technical Staff

- Active participation in the green revolution by achieving optimized utilization of material resources supplied to the department.

- Extensive use of ICT in class room as well as in lab.

Weaknesses

- No Ph.D. holders, however, most of them are M.Phil qualified.

- Lack of industrial exposure for internal faculty members.

- Less employment opportunities in IT development sector

- Limited faculty development programs for all to participate
- Professional skills needs to be further improved among students
- Communication skills among rural background students needs improvement

Opportunities

- Industry oriented training to students
- Implementing technological innovations in the college campus
- Implementing technology based teaching and evaluation strategies
- Becoming a leader in interdisciplinary and integrated learning
- Creating more opportunities to interact with eminent personalities in the IT field
- Upgrading M.Phil. qualified faculty to Ph.D.
- Designing short courses for working professionals
- Establishing a Central server and subscription to more online journals
- Motivating students towards competitive examinations like CAT/ GRE and also towards Govt./public sectors jobs

Challenges

- Adopting to rapid changes in software technology
- Funding requirement to change the infrastructure based on fast changing technologies
- High competition and fluctuating demand in industry.

Future plans of the department

- Development of learning resources such as computer based tutors, e-content and e-books and simulation of some practical problems.
- Procurement of IBM servers which will be used for storing e-content as well as web server.
- Industrial collaborations.
- Introduction of skill based certification programs in networking such as MCSE, CISCO and Active Directory services
- Efforts to get live projects for students.
- Strengthening the department library

- Bringing out a news letter from the department

- Floating e – magazine to hone creativity amongst students and faculty

Best Practices

- Additional labs conducted for students apart from the regular lab.

- All e-wastes are being disposed for recycling from 2009 onwards to an organisation designated by the management.

- The intercollegiate fest **"Protocol"** has received a wide acclaim among students and faculty members of different institutions as it is academically challenging.

- Irregular students are counselled periodically and motivated to attend classes.

- Use of plastics is discouraged in the department

- ICT is widely adopted for teaching – learning process

- Staff training program conducted in MS-Office and Internet

- Technical support by programmers for teacher researchers in programming techniques

- Departmental library facility for students and teachers.

- Technical consultation for the students other than the college and other educational institutions

- Teachers engaged as Resource persons and consultants in different institutions for setting up lab, conduct of workshop and procurement of software.

- Academic planner, unitization of syllabus, notes and question paper on the website.

- Student seminar and projects to upgrade their skills.

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