

EVALUATIVE REPORT – DEPARTMENT WISE

1. Name of the department: *Department of Computer Applications*
2. Year of Establishment: 2000
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):

Bachelor of Computer Applications

4. Names of Interdisciplinary courses and the departments/units involved:
Nil
5. Annual/ semester/choice based credit system (programme wise):
Semester
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: 04

Posts	Sanctioned	Filled
Professors	0	0
Associate Professors	0	0
Asst. Professors/ Lecturer	04	04

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	No. of Ph.D. Students guided for the last 4 years
Mr. Roopesh Kumar	MCA	HOD	Computer Applications	16	Nil
Mr. Raju Krishna Kishore	MCA	Lecturer	Computer Applications	07	Nil

Mrs. Anitha M P	MCA	Lecturer	Computer Applications	02	Nil
Dr. Thammaiah R B	Ph. D	Asst. Professor	English	12	Nil

11. List of senior visiting/Guest faculty:

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Mrs. Shyni K C	MCA	Lecturer	Computer Applications	09	Nil
Mr. A. C. Subhas	MA	Lecturer	Kannada	10	Nil
Dr. Balaji	M.A., Ph.D.	Asst. Professor	Hindi	10	Nil
Ms. SabihaJaha	M.A	Lecturer	Urdu	02	Nil
Mr. Umashanker	B.Com., LLM	Lecturer	Indian Constitution	07	Nil
Mr. Rauf Ahmed Mir	M.Sc.	Lecturer	Biotechnology	05	Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

Nil

13. Student -Teacher Ratio (programme wise):

10:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

	Sanctioned	Filled
Academic support staff	1	1
Administrative staff	4	4

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.:

Name	Qualification
Mr. Roopesh Kumar	MCA
Mr. Raju Krishna Kishore	MCA
Mrs. Anitha M P	MCA
Dr. Thammaiah R B	M.A., M.Phil., Ph.D.

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:	
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:	04
• Number of papers published in peer reviewed journals (national/international) by faculty and students:	04
• Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)	Nil
• Monographs	Nil
• Chapter in Books	Nil
• Books Edited	Nil
• Books with ISBN/ISSN numbers with details of publishers	Nil
• Citation Index	Nil
• SNIP	Nil
• SJR	Nil
• Impact factor	Nil
• h-index	Nil
20. Areas of consultancy and income generated	Nil
21. Faculty as members in	
a) National committees	Nil
b) International Committees	01
c) Editorial Boards	Nil

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 80%

23. Awards / Recognitions received by faculty and students Nil

24. List of eminent academicians and scientists / visitors to the department Nil

25. Seminars/ Conferences/Workshops organized & the source of Funding

- a) National: Nil b) International: Nil

26. Student profile programme/course wise (2012-13):

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
UG	07	07	04	03	60

*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
UG	10	80	10

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
UG to PG	70
PG to M.Phil.	10
PG to Ph.D.	30
Ph.D. to Post-Doctoral	10

Employed	
• Campus selection	80
• Other than campus recruitment	00
• Entrepreneurship/Self-employment	10

Student placements

The following are the major industries in which our students are placed:

- Infosys
- TCS
- HP
- Wipro
- IBM
- Samsung
- C-Cube Solutions
- Mphasis
- Aditya Birla Minacs
- Cross Domain
- Microland
- Sutherland Solutions
- ANZ Bank
- Karnataka Bank. Etc.,

30. Details of Infrastructural facilities:

a) Library

Departmental library is been sent up for students for easy access of information. Library has an organizational structure where the class representative is made in-charge and would be reporting to the head of the department with individual responsibilities. Log books are maintained for incoming and outgoing of students. Students can issue the books on producing identity cards and library cards. A separate register is maintained for the books and CDs issued to faculty members. Half yearly stock verification is done and notices would be issued to ensure book returns. Compulsory no due certificate is insisted for outgoing students and staff members when they are relieved from the job. CDs and

digital library material are allowed to use inside the library premises only. The reference books are secured in glass cupboards and will be issued on request to be used in the library premises only on entry in the log book.

b) Internet facilities for Staff & Students

Various support facilities include digital library facilities, reprographic facilities including photocopying and prints. The digital library has a compilation of all learning resources comprising of power point presentations prepared by teachers, videos and animations to illustrate various concepts as well as other computer aided learning resources.

c) Class rooms with ICT facility

An excellent state-of-the-art lab is setup in the college. The lab houses a total of 90 computers connected on the network,. The details of the hardware and software are as follows:

Computer Lab: Standalone Computers with the below configuration

- Pentium CPU 2.66 GHZ, 256 Mb RAM, 80GB HDD, 15" Monitor, KB & Mouse - 15 nos.
- Pentium CPU 2.60 GHZ, 1 GB RAM, 80GB HDD, 15" Monitor, KB & Mouse - 36 Nos.

All these computers are interconnected in a network through Switches and one router for intelligent networking, which is used for connectivity. Internet facility is available for all the systems in the lab; service provider is BSNL with 2Mbps bandwidth which provides seamless internet facility.

Thick Ethernet CAT – 6 is used as the physical medium of transfer of data at the rate 100 Mbps and physical implementation of the LAN has been structured through star topology which is supported by Switches.

d) Laboratories

The laboratory is upgraded and well maintained with latest softwares.

31. Number of students receiving financial assistance from college, university, government or other agencies

College Scholarships: 03 Nos.

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts

- Two special lecture on Languages titled –
Use of ICT to teach English language
Relevance of English Language in the Present day
- National Seminar on Language and Literature significance in under graduate courses

33. Teaching methods adopted to improve student learning –

In order to achieve a student centric teaching-learning method, the IQAC of the institution has streamlined the process by introducing formats for teachers in the form of course plan, lesson plan, completion reports, practical plan etc.,. These help the teacher in carrying out a systematic method of teaching for students as also a way for continuous self evaluation.

In science courses more importance is given to practical based teaching in developing skills to equip the students for the competent world. Theory and practical classes are integrated in certain areas for effective learning and opening new horizons to the students for better opportunities.

A thorough and continuous evaluation process will help in constant development of newer methods of teaching-learning. In this regard after evaluation of students, based on their aptitude they are grouped accordingly. These groups of students are given special attention in terms of choice of career and training needed in those lines.

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

A security cell has been constituted for complete overall security maintenance of the college campus. The entry into the campus is restricted and visitor log books are maintained. Students and staff members are made to present their identity cards compulsorily in the campus upon enquiry. The staff members are directed to use the biometric system for easy monitoring.

The safety and security cell has installed fire extinguishers at all strategic places in the college building. A workshop has been organized by the management on crisis and disaster

management and our students actively participated in the same.

35. SWOC analysis of the department and Future plans

Future plans

The department has the following strategies as plan of action for the next few years -

- Upgrading the departmental library and information resources.
- Planning and executing a much effective programs as an inter college event.
- Conducting the first national seminar in the department.
- Improving the placement assistance and arranging for campus interviews.
- Preparation of students for competitive exams and to reach a target of 50% CSIR qualified candidates at every outgoing batch.
- Arranging blood donation camps as part of the extension activities.
- Starting add on and certificate programs to supplement the university curriculum.
- Applying for a research center at the department.

1. Name of the department : **Department of Biotechnology & Microbiology**

2. Year of Establishment : 2001 - Biotechnology
2003 - Microbiology

3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) –

Biotechnology - B.Sc. (Biotechnology, Biochemistry, Genetics)
- M.Sc.
- Ph.D.
- P. G. Diploma in Nutraceuticals & Food Processing

Microbiology

- M.Sc.

4. Names of Interdisciplinary courses and the departments/units involved –

Name of the interdisciplinary course	Departments involved
M.Sc., Biotechnology	Microbiology, Biochemistry and Chemistry
M. Sc., Microbiology	Biotechnology and Biochemistry
P. G Diploma in Nutraceuticals & Food Processing	Biochemistry, Chemistry, Biotechnology and Microbiology

5. Annual/ semester/choice based credit system (programme wise)

Semester

6. Participation of the department in the courses offered by other departments

Biochemistry

7. Courses in collaboration with other universities, industries, foreign institutions, etc. –

Karnataka State Open University, Mysore

8. Details of courses/programmes discontinued (if any) with reasons – Nil

9. Number of teaching posts – 12

Designation	Sanctioned	Filled
Professors	2	1
Associate Professors	4	2
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	No. of Ph.D. Students guided for the last 4 years
Dr. Anuradha M	M.Sc, M.Phil, Ph.D	Professor	Biotechnology	16	2
Dr. Kumara swamy M	M.Sc, M.Phil, Ph.D	Associate Professor & HOD	Biotechnology	11	Nil
Dr. Balasubramanya S	M.Sc, Ph.D	Associate Professor	Biotechnology	10	Nil
Mrs. Tilaka G.K	M.Sc, M.Phil	Assistant Professor	Microbiology	8	Nil
Mr. Sudipta Kumar Mohanty	M.Sc, (Ph.D)	Assistant Professor	Biotechnology	7	Nil
Mr. Rauf Ahmed Mir	M.Sc, (Ph.D)	Assistant Professor	Biotechnology	7	Nil
Mr. Harish	M.Sc, (Ph.D)	Assistant Professor	Bioinformatics	8	Nil

11. List of senior visiting faculty

- Dr. C.N. Manoj
- Dr. Priya R. Rao
- Dr. Venu
- Dr. Suresh Babu
- Dr. Prabhu
- Mr. Chetan L. Hanchate

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

10% (Ten Percent)

13. Student -Teacher Ratio (programme wise) –

Biotechnology: 6:1

Microbiology: 4:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled –

	Sanctioned	Filled
Academic support staff	2	1
Administrative staff	4	4

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG. –

Name	Qualification
Dr. Anuradha M	M.Sc., M.Phil, Ph.D.
Dr. Kumara swamy M	M.Sc., M.Phil, Ph.D.
Dr. Balasubramanya S	M.Sc., Ph.D.
Mrs. Tilaka	M.Sc., M.Phil.
Mr. Sudipta Kumar Mohanty	M.Sc., (Ph.D.)
Mr. Rouf Ahmed	M.Sc., (Ph.D.)
Mr. Pradeep S Kaushik	M.Sc., (Ph.D.)
Mr. Harish	M.Sc., (Ph.D.)

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received –

Dr. M. Anuradha Biotech Finishing School - 100 Lakhs

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received –

Funding Agency	Grants received (in lakhs)
National Medicinal Plants Board, New Delhi	07.0
National Medicinal Plants Board, New Delhi	25.0
KBITS, Dept. of IT & BT, Govt. of Karnataka	100.0
VGST SPiCE, Dept. of IT & BT, Govt. of Karnataka	01.20
Sanat Products Ltd, New Delhi	0.40

18. Research Centre /facility recognized by the University: Bangalore University

19. Publications:

Publication by faculty	38 Nos.
Number of papers published in peer reviewed journals (national/international) by faculty and students	36 Nos.
Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)	36 Nos.
*Monographs	Nil
*Chapter in Books	4 Nos.
*Books Edited	Nil
*Books with ISBN/ISSN numbers with details of publishers	02Nos.
*Citation Index	40 Nos.
*SNIP	Nil
*SJR	06 Nos.
*Impact factor	15%
*h-index	11 Nos.

20. Areas of consultancy and income generated

Phytochemistry and Plant Tissue Culture with Rs. 40,000/-

21. Faculty as members in

a) National committees	01
b) International Committees	Nil
c) Editorial Boards	02

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	80 %

23. Awards / Recognitions received by faculty and students –

Faculty/Students	Funding agency
02	SPiCE, VGST, Govt. of Karnataka
03	Bangalore University
06	Rajat Jayanthi Vigyan Sanchar Fellowship, DST, New Delhi

24. List of eminent academicians and scientists / visitors to the department –

Name of the Scientist/visitor	Place	Topic taken as guest lecture/Specialization
Dr. G. A. Ravishankar	CFTRI, Mysore	Algal Biotechnology
Mr. S. Swaminathan	Katra Phytotech Pvt Ltd.,	Job skill required in Pharma industry
Mr. Mohan P V	Sunil Agro Biotech Ltd., Tumkur	HACCP regulations.
Mr. S. Swaminathan	Katra Phytotech Pvt Ltd., Bangalore	Analytical techniques in Pharma and Biotech industry
Dr. Pullaiah T	Eminent Professor, S K University, Anantapur, AP.	Biodiversity in India and Conservation through Biotechnology
Dr. Shivakumar S	Monsanto Research Center, Bangalore	Genetic transformation in plants
Dr. Tejavathi T	Professor, Dept of Botany, Bangalore University	An Overview of Micropropagation
Dr. Jitendra Prasad	<i>In Vitro</i> International Pvt. Ltd., Bangalore	Commercial Tissue Culture and Entrepreneurship.
Dr. Seenappa M	Eminent Ornithologist	Bird Conservation in Urban Scenario
Mohan Kumar K S	Consultant & Expert in supply chain Management	Supply chain Management
Dr. Bhanu K M	Prof from S V University, Tirupati	Statistics & its application & business
Ms. Suchin L	HR Manager, Wipro	Recruitment Strategies

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

- a) National 02 (Funded by UGC, DBT and DST)
- b) International Nil
- c) Workshops 10 (self-financed)

26. Student profile programme/course wise (2012-13):

Biotechnology:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
UG	25	10	7	3	80
PG	20	5	4	1	100

Microbiology:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
PG	15	8	00	02	100

*M = Male *F = Female

27. Diversity of Students:

Biotechnology:

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
UG	10	80	10
PG	00	90	10

Microbiology:

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
PG	00	100	00

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

10 Nos.

29. Student progression –

The results of our students are always good and the department has found an incremental academic performance over these years.

Student progression	Against % enrolled
UG to PG	90
PG to M.Phil.	10
PG to Ph.D.	30
Ph.D. to Post-Doctoral	05
Employed	10
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	80
<ul style="list-style-type: none"> • Entrepreneurship/Self-employment 	10

30. Details of Infrastructural facilities

a) Library –

Proposal is been accepted by the management and governing council to establish department library with reference books.

b) Internet facilities for Staff & Students –

Various support facilities include digital library facilities, reprographic facilities including photocopying and prints. The digital library has a compilation of all learning resources comprising of power point presentations prepared by teachers, videos and animations to illustrate various concepts as well as other computer aided learning resources. Free access to Wi-Fi enabled internet facility to all staffs and students.

c) Class rooms with ICT facility –

An excellent state-of-the-art lab is setup in the college. The lab houses a total of 90 computers connected to the network. The details of the hardware and software are as follows:

Computer Lab: Standalone Computers with the below configuration

Pentium CPU 2.66 GHZ, 256 Mb RAM, 80GB HDD, 15" Monitor, KB & Mouse - 15 nos.

Pentium CPU 2.60 GHZ, 1 GB RAM, 80GB HDD, 15" Monitor, KB & Mouse - 36 Nos.

All these computers are interconnected in a network through switches and one router for intelligent networking, which is used for connectivity. Internet facility is available for all the systems in the lab; service provider is BSNL with 2Mbps bandwidth which provides seamless internet facility.

Thick Ethernet CAT – 6 is used as the physical medium of transfer of data at the rate 100 Mbps and physical implementation of the LAN has been structured through star topology which is supported by Switches.

d) Laboratories –

Well equipped laboratory for plant tissue culture, microbiology, phytochemistry and food processing are established. The central instrumentation facility includes the following important equipments:

- Thermocycler
- Gel Documentation Unit
- HPLC System
- Extraction unit
- Laminar Air Flow (Both Vertical & Horizontal)
- CO₂ Incubator
- Fermentor
- Shaker Incubator
- Cooling Centrifuge
- UV-Spectrophotometer
- Colorimeters
- Precision balance
- Deep freezer
- Chromatography Unit
- Electrophoretic Units
- Homogenizer
- Transilluminator
- Trinocular Microscope

31. Number of students receiving financial assistance from college, university, government or other agencies –

Number of Students	Funding agency
01	SPiCE, VGST, Govt. of Karnataka
03	Bangalore University
08	Rajat Jayanthi Vigyan Sanchar Fellowship DST, New Delhi
18	Padmashree Group of Institutions
10	Rishi Herbal Technologies Pvt. Ltd, Bangalore

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

Name of the Scientist/visitor	Place	Topic taken as guest lecture/Specialization
Dr. G. A. Ravishankar	CFTRI, Mysore	Algal Biotechnology
Mr. S. Swaminathan	Katra Phytotech Pvt Ltd.,	Job skill required in Pharm industry
Mr. Mohan P V	QA Dept, Sunil Agrobiotech Ltd., Tumkur	HACCP regulations.
Mr. S. Swaminathan	Katra Phytotech Pvt Ltd., Bangalore	Analytical techniques in Pharma and Biotech industry.
Dr. Pullaiah T	Eminent Professor, S K University, Anantapur, AP.	Biodiversity in India and Conservation through Biotechnology
Dr. Shivakumar S	Monsanto Research Center, Bangalore	Genetic transformation in plants
Dr. Tejavathi T	Professor, Dept of Botany, Bangalore University	An Overview of Micropropagation
Dr. Jitendra Prasad	<i>In Vitro</i> International Pvt. Ltd., Bangalore	Commercial Tissue Culture and Entrepreneurship.
Dr. Seenappa M	Eminent Ornithologist	Bird Conservation in Urban Scenario
Mohan Kumar K S	Consultant & Expert in supply chain Management	Supply chain Management
Dr. Bhanu K M	Prof from S V University, Tirupati	Statistics & its application & business
Ms. Suchin L	HR Manager, Wipro	Recruitment Strategies

33. Teaching methods adopted to improve student learning –

Department plans and executes all the academic activities as according to the calendar of events. In case of medical microbiology paper, we take the assistance of Padmashree Diagnostics, our sister concern in arranging practical for students at their laboratory. During these practicals, the students are exposed to handling of pathogenic organisms and safe handling. The students will work with actual laboratory specimens with proper guidance. This has enhanced and supplemented the regular curriculum.

The department organizes industrial visits to make students aware of the recent happenings and advancements in research and industries. In order to inculcate an interactive learning experience among students, the department has introduced a new way of conducting seminars for students. Students are given topics related to the advancement in the field of Biotechnology, IPR related issues, job opportunities in different industries, Industry profiles and Entrepreneurship opportunities in Biotechnology. This is making students aware of the current happenings at the Biotechnology research and industry making them ready to face the competition on completion of the course. Many outreach programs are conducted in the department itself to support the skill development of the students. We also recruit students to different research centers for acquiring technical skills in the subject. Recently a group of students were sent to the Biotechnology Center, Dept of Horticulture at Hulimavu and Bangalore for training in DNA Profiling of Medicinal and crop plants. There is a well organized academic and personal counseling mechanism in the department. All the faculty members are very approachable and this easy access has helped students to get complete benefit in terms of subject understanding and overall development. The department has a state of the art laboratory facility with the latest equipments. Some of the important equipments are-

- PCR and its accessories
- Gel Documentation Unit
- CO₂ incubator
- Micro Centrifuge
- Continuous Orbital Shaker
- Vertical and Horizontal Laminar Air Flow Units
- Deep Freezer
- Fermentor
- HPLC system

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

With the inception of post graduate course, the college has introduced the concept of outreach programs, the first of its kind in private colleges. With the banner of Biotechnology outreach program, many workshops and training programs were conducted. The students who got benefited by these programs had come from various parts of the country. Initially plant tissue culture and secondary metabolite production were training modules. Later we included many other areas of life science including Animal cell culture and drug testing, Quality control and Quality assurance, Isolation and purification of active compounds, chromatographic techniques and Extraction of herbal compounds.

The outreach programs are integrated in the curriculum for enhanced performance of students. The post graduate students in a span of two years can opt for four such different programs one in each of their semesters. This is helping the students to equip themselves with the skills simultaneously along with the regular course.

35. SWOC analysis of the department and Future plans –

Strengths

Research based teaching and learning

Add on job oriented certificate programs

Weakness

Facing down trend in takers for life science course in general biotech in particular

Opportunities

MoU s and industrial tie ups

Challenges

Creating awareness among the students and parents about the course

Future plans –

The department has the following strategies as plan of action for the next few years:

- Setting up departmental library and information resources.
- Introducing social awareness programs and activities in the academic calendar
- Improving the placement assistance and arranging for campus interviews.
- Preparation of students for competitive exams and to reach a target of 50% CSIR qualified candidates at every outgoing batch.

1. Name of the department : **Department of Biochemistry & Chemistry**

2. Year of Establishment : 2003 - Biochemistry
2011 - Chemistry

3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) –

Biochemistry - B.Sc. (Biotechnology, Biochemistry, Genetics)

- M.Sc.

Chemistry

- M.Sc. (Organic)

4. Names of Interdisciplinary courses and the departments/units involved –

Name of the interdisciplinary course	Departments involved
M.Sc., Biochemistry	Microbiology and Biotechnology
P. G Diploma in Nutraceuticals & Food Processing	Biochemistry, Chemistry, Biotechnology and Microbiology

5. Annual/ semester/choice based credit system (programme wise)

Semester

6. Participation of the department in the courses offered by other departments

Biotechnology

Microbiology

PG Diploma in Nutraceuticals & Food Processing

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 – 08

Designation	Sanctioned	Filled
Professors	2	1
Associate Professors	3	3
Asst. Professors	5	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	No. of Ph.D. Students guided for the last 4 years
Prof. (Ms.) Rama Rao	M.Sc., Ph.D.	Professor & HOD	Chemistry	30	2
Dr. Ravikumar H N	M.Sc., Ph.D.	Associate Professor & HOD	Physiology	13	Nil
Mrs. Dhatri Devi	M.Sc., M.Phil.	Associate Professor	Biochemistry	10	Nil
Dr. Mohanambe Lingappa	M.Sc., Ph.D.	Assistant Professor	Chemistry	09	Nil
Mr. Pradeep S Kaushik	M.Sc., (Ph.D.)	Assistant Professor	Biochemistry	08	Nil
Mr. Lokesh P	M.Sc., (Ph.D.)	Assistant Professor	Biochemistry	06	Nil
Mrs. Manjubhargavi O J	M.Sc., (Ph.D.)	Assistant Professor	Chemistry	05	Nil
Mr. Ravikumar	M.Sc., (Ph.D.)	Assistant Professor	Chemistry	04	Nil

11. List of senior visiting faculty

- Dr. C.N. Manoj
- Dr. Priya R. Rao
- Dr. Venu
- Dr. Santhosh G
- Dr. B.M. Prabhu

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

10% (Ten Percent)

13. Student -Teacher Ratio (programme wise) –

Biochemistry: 10:1

Chemistry: 10:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled –

	Sanctioned	Filled
Academic support staff	2	1
Administrative staff	4	4

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG. –

Name	Qualification
Prof. (Ms.) Rama Rao	M.Sc., Ph.D.
Dr. Ravikumar H N	M.Sc., Ph.D.
Mrs. Dhatri Devi	M.Sc., M.Phil.
Dr. Mohanambe Lingappa	M.Sc., Ph.D.
Mr. Pradeep S Kaushik	M.Sc., (Ph.D.)
Mr. Lokesh P	M.Sc., (Ph.D.)
Mrs. Manjubhargavi O J	M.Sc., (Ph.D.)
Mr. Ravi Kumar	M.Sc., (Ph.D.)

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received –

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 by faculty	32 Nos.
Number of papers published in peer reviewed journals (national/international) by faculty and students	16 Nos.

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)	20 Nos.
*Monographs	Nil
*Chapter in Books	Nil
*Books Edited	Nil
*Books with ISBN/ISSN numbers with details of publishers	Nil
*Citation Index	20 Nos.
*SNIP	Nil
*SJR	11 Nos.
*Impact factor	10%
*h-index	11 Nos.

20. Areas of consultancy and income generated

Nil

21. Faculty as members in

a) National committees	02
b) International Committees	Nil
c) Editorial Boards	Nil

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	80 %

23. Awards / Recognitions received by faculty and students –

Faculty/Students	Funding agency
Lokesh P	Won prize in 2 nd International Seminar on Medicinal Plants & Herbal Products (ISMPHP-2010) organized by Sri Venkateswara University, Tirupati, A.P during 27-29 December, 2010.

24. List of eminent academicians and scientists / visitors to the department –

Name of the Scientist/visitor	Place	Topic taken as guest lecture/Specialization
Dr. Priya R Rao	Director, R&D, Pelican Biotech & Chemical Labs Pvt. Ltd., Kerala	Analytical Techniques used in Quality Control Biosafety practices and its importance
Dr. Santosh M.S	Director, Research Centre in Chemistry & Head PG Dept. of Chemistry, Al-Ameen College, Bangalore	Safety in Labs
Dr. Bhanu Prakash	Sr. Scientist, IIHR, Hessarghatta, Bangalore	Molecular & Biochemical Analysis of Seeds
Mrs. Yamuna Karthik	QC&QA Manager - Tishcon Corp., New York, USA	GMP - Theory & Practice

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

- a) National Nil
 b) International Nil
 c) Workshops 2

26. Student profile programme/course wise (2012-13):

Biochemistry:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
UG	15	11	04	07	100
PG	25	20	12	08	21.05

Chemistry:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
PG	35	28	13	15	-

*M = Male *F = Female

27. Diversity of Students:

Biochemistry:

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
UG	27.27	72.73	Nil
PG	80	10	10

Chemistry:

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
PG	100	Nil	Nil

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

06 Nos.

29. Student progression –

The results of our students are always good and the department has found an incremental academic performance over these years.

Student progression	Against % enrolled
UG to PG	90
PG to M.Phil.	10
PG to Ph.D.	30
Ph.D. to Post-Doctoral	10
Employed	10
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	80
<ul style="list-style-type: none"> • Entrepreneurship/Self-employment 	10

30. Details of Infrastructural facilities

a) Library –

Proposal is been accepted by the management and governing council to establish department library with reference books.

b) Internet facilities for Staff & Students –

Various support facilities include digital library facilities, reprographic facilities including photocopying and prints. The digital library has a compilation of all learning resources comprising of power point presentations prepared by teachers, videos and animations to illustrate various concepts as well as other computer aided learning resources. Free access to Wi-Fi enabled internet facility to all staffs and students.

c) Class rooms with ICT facility –

An excellent state-of-the-art lab is setup in the college. The lab houses a total of 90 computers connected to the network. The details of the hardware and software are as follows:

Computer Lab: Standalone Computers with the below configuration

Pentium CPU 2.66 GHZ, 256 Mb RAM, 80GB HDD, 15" Monitor, KB & Mouse - 15 nos.

Pentium CPU 2.60 GHZ, 1 GB RAM, 80GB HDD, 15" Monitor, KB & Mouse - 36 Nos.

All these computers are interconnected in a network through switches and one router for intelligent networking, which is used for connectivity. Internet facility is available for all the systems in the lab; service provider is BSNL with 2Mbps bandwidth which provides seamless internet facility.

Thick Ethernet CAT – 6 is used as the physical medium of transfer of data at the rate 100 Mbps and physical implementation of the LAN has been structured through star topology which is supported by Switches.

d) Laboratories –

Well equipped laboratory for plant tissue culture, microbiology, phytochemistry and food processing are established. The central instrumentation facility includes the following important equipments:

- Thermocycler
- Gel Documentation Unit
- HPLC System

- Extraction unit
- Laminar Air Flow (Both Vertical & Horizontal)
- CO₂ Incubator
- Fermentor
- Shaker Incubator
- Cooling Centrifuge
- UV-Spectrophotometer
- Colorimeters
- Precision balance
- Deep freezer
- Chromatography Unit
- Electrophoretic Units
- Homogenizer
- Transilluminator
- Fume Hood

31. Number of students receiving financial assistance from college, university, government or other agencies –

Number of Students	Funding agency
01	SPiCE, VGST, Govt. of Karnataka
25	Padmashree Group of Institutions
	Dept. of Backward Classes & Minority, Government of Karnataka

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts – 12

The Biochemistry department at the college has been conducting workshop on Chromatographic and analytical techniques as an annual event. The week day work shop gives insight into the various extraction procedures and analytical techniques used in Biochemistry. HPLC training is also given where industry experts and technicians are invited.

Students from outside the college also attended the program and are benefited. The teachers at the department attended a work shop conducted by ‘Waters’ Company on recent advancements in HPLC and UPLC techniques.

The department took the initiative of conducting ‘International Women’s Day’ at the college. The program was a successful start during which the women empowerment cell was inaugurated. During April 2012 the Biochemistry Department took the responsibility of organizing ‘Biosafety Week’. The week long program had activities for students in terms of debates, quiz, lectures and presentations. Dr. Priya R. Rao from Pelican Biotech and Chemical Labs Pvt. Ltd., was invited to the event who gave a lecture on safety practices followed in R&D labs and industry.

Students from the department have been sent to various industries and labs for their internships. One student by name Sudip Sha in the 2012-13 batch of M.Sc Biochemistry was sent to IIHR, Bangalore as a trainee from the college.

During 2009 the department selected a group of students and carried out a research project on ‘Migratory Birds in Karnataka’ with the prior permission of principal chief conservator of forest (Wild life), Karnataka. The research findings of the project gave students an overview of the migratory birds in Karnataka, their morphological, geographical and behavioral peculiarities.

Following are the on-going in-house research projects at the department-

S. No	Guided by	No of Students	Title of the project
1.	Mrs. Dhatri Devi	04	Extraction and phytochemical analysis of seed extracts of fruits.
2.	Mr. Lokesh P	01	Evaluation of Biodiesel from microalgae
3.	Mr. Lokesh. P	05	Evaluation of Anti-oxidant properties of important medicinal plants.

33. Teaching methods adopted to improve student learning –

In order to achieve a student centric teaching-learning method, the IQAC of the institution has streamlined the process by introducing formats for teachers in the form of course plan, lesson plan, completion reports, practical plan etc.,. These help the teacher in carrying out a systematic method of teaching for students as also a way for continuous self evaluation.

In science courses more importance is given to practical based teaching in developing skills to equip the students for the competent world. Theory and practical classes are integrated in certain areas for effective learning and opening new horizons to the students for better opportunities.

A thorough and continuous evaluation process will help in constant development of newer methods of teaching-learning. In this regard after evaluation of students, based on their aptitude they are grouped accordingly. These groups of students are given special attention in terms of choice of career and training needed in those lines.

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

A security cell has been constituted for complete overall security maintenance of the college campus. The entry into the campus is restricted and visitor log books are maintained. Students and staff members are made to present their identity cards compulsorily in the campus upon enquiry. The staff members are directed to use the biometric system for easy monitoring.

The safety and security cell has installed fire extinguishers at all strategic places in the college building. A workshop has been organized by the management on crisis and disaster management and our students actively participated in the same.

35. SWOC analysis of the department and Future plans –

Future plans:

- The department has the following strategies as plan of action for the next few years-
- Upgrading the departmental library and information resources.
- Planning and executing a much effective Biosafety program as an inter college event.
- Conducting the first national seminar in the department.
- Improving the placement assistance and arranging for campus interviews.
- Preparation of students for competitive exams and to reach a target of 50% CSIR qualified candidates at every outgoing batch.
- Arranging blood donation camps as part of the extension activities.
- Starting add on and certificate programs to supplement the university curriculum.
- Applying for a research center at the department.

1. Department Name : *Department of Management & Commerce*
2. Year of Establishment : 2007
3. Courses Offered :
- A) UG : BBM & B.Com
- B) PG : MBA & M.Com
4. Annual/ semester/choice based credit system (programme wise): Semester Wise
5. Participation of the department in the courses offered by other departments : Nil
6. Courses in Collaboration with other universities, Industries, foreign institutions, etc : Nil
7. Details of Courses/ programs discontinued (if any) : Nil
8. Teaching Posts

	SANCTIONED	FILLED
PROFESSORS	1	1
ASSOCIATE PROFESSORS	1	Nil
ASST. PROFESSORS	20	18

9. Faculty Profile with D.Sc/ D.Litt/ Ph.D/ M.Phil etc

Name : Dr K Y Reddy

Qualification : M.B.A, M.Com, Ph.D

Designation : Director

Specialization : Finance

No of Yrs Exp: 22

No of Ph.D students guided for last 4 Years: Nil

10. List of Senior Visiting Faculty

- Prof Sampath
- Dr N S Rao
- Mr. Pradeep
- Mrs. Manjula

11. Percentage of lectures delivered & practical classes handled by part-time faculty : 50%
12. Student Teacher Ratio (Program Wise) 17 : 1
13. Number of academic related staff and administrative staff :

Common Data related to entire college

14. Faculty With PG : 17

Faculty with Ph.D : 2

15. Number of faculty with ongoing projects from National and International funding agencies and grants received : Nil

16. Departmental Projects funded by DST – FIST, UGC etc and total grants received : Nil

17. Research Centre / Facility recognized by the University : Nil

18. Publications per faculty and number of papers published : Nil

19. Areas of Consultancy and income generated : Nil

20. Faculty Members in Editorial Board : 3

21. Student Projects

A) Percentage of students who have done in house projects including inter departmental program : 100%

B) Percentage of students placed for projects in organization outside the institutions : 100%

23. Awards or recognitions received by the faculty or students : Nil

24. Academicians / Visitors to Department

- Mr. Giridhar
- Mr. C Mahalingam
- Mr. P RangaSwamy
- Mr. P Santosh Gupta
- Mr. Yogesh Ajiwal
- Mr. Arpit Kalani
- Mr. Viplone Zakhir
- Mr. Arvind N Sharma
- Mrs. Lalitha
- Mrs. Suchin
- Mr. Rajiv Gowda
- Mr K S Mohan Kumar
- Mr D K Sriram

- Mr Dilip Kumar Thakur
- Mr. Arvind Gururaj
- Mr. G KalyanaSundaram
- Mr. B N Krishna Prasad
- Mr. Vineeth Srivastava
- Mr. Devdutt Gore
- Mr. Sharath N Rai
- Mr. S. K. Rao

25. Seminars/ Workshops organized and source of funding

A)Seminar : Bizveda – Internal Funding

B) Workshops : Excel – Internal Funding

C) Workshop : Unleash Your success – Internal Funding

26. Student Profile Program / course wise

Course Name	Applications Received	Selected	Enrolled		Pass %
			Male	Female	
BBM	10	10	10	0	60%
MBA	37	36	28	08	83.33
M.COM	30	30	23	7	

27. Diversity of Students

COURSE NAME	% OF STUDENTS FROM THE SAME STATE	FROM OTHER STATES	FROM ABROAD
BBM	10%	60%	30%
MBA	22.22%	72.22%	5.56%
M.COM	100%	Nil	Nil

28. Students who have cleared national and state competitive exams such as NET, SLET etc :

Nil

29. Student Progression

STUDENT PROGRESSION	AGAINST % ENROLLED
UG TO PG	5.55%
CAMPUS SELECTION EMPLOYED	33%
OTHER THAN CAMPUS RECRUITMENT	50%

30. Details of Infrastructural Facilities – Common Data

31. Number of students receiving financial assistance from college, university, government or other agencies : 10

32. Details of Student Enrichment Programmes

- A) Workshops : 1. Unleash your Success 2. Excel Training Programs
- B) Seminar : Bizveda – National Seminar
- C) Special Lectures
 - A Session on Global Financial Crisis by Mr. Rajiv Gowda, An IIM Faculty
 - Personality Development Programme
by Mrs. Suchin, HR Manager – Wipro, Mr K S Mohan Kumar,
Mr D K Sriram
 - Evolution and Growth of Wipro – A Case Study Discussion, also
Expectations of Industry from Management Students by Mr Dilip Kumar
Thakur
 - Interview Preparation, Importance of practicality on subjects, Practical
interview demonstration by Mr. Arvind Gururaj from JP Morgan Chase
 - Personality Development Sessions by Mr. G Kalyana Sundaram, Mr. B N
Krishna Prasad, Mr. Vineeth Srivastava
 - Motivational Sessions by Mr. G R Ramanath, Mr. P Giridhar
 - Personality Development Sessions by Mr. Santosh Kumar Gupta
 - A Session on Money Laundering by Mr. Sharath N Rai
 - A Workshop on Unleash Your Success by Mr. Devdutt Gore, Manager,
Corporate HRD, Wipro Technologies Ltd.

- A Workshop on "Creating a Powerful Future" by Mr. S. K. Rao, GM-Sales & Marketing, Centum Electronics Ltd.

33. **Teaching methods adopted to improve student learning program:** In-house Industry based Training Program

34. **Participation in Institutional Social Responsibility and extension activities:** Blood Donation Program

35. **SWOC ANALYSIS of the Department and future plans**

➤ **Strengths**

- ✓ Supportive community – small committed alumni base and strong community networks
- ✓ State-of-the-art facility – technology in the classroom; student spaces for collaboration
- ✓ Supportive environment for experimenting – innovative teaching methods and continuous efforts with integrating learning assessment
- ✓ Quality faculty and staff
- ✓ Technology infrastructure, on-line initiatives
- ✓ Physical facility – renovation efforts
- ✓ Private support, College of Business
- ✓ Student Success Center
- ✓ Advising system
- ✓ External relations (community, state)
- ✓ Scholarship funding

➤ **Weaknesses**

- ✓ Geographical location
- ✓ Students unwilling to relocate; firms
- ✓ Faculty research productivity
- ✓ Number and mix of faculty
- ✓ Lack of space for growth of both academic and outreach programs
- ✓ Lack of external income opportunities – consulting and grants

➤ **Opportunities**

- ✓ Potential for leadership roles in the region – though leadership with regard to innovation and entrepreneurship, expertise utilization, intellectual capital, and networks of the College
- ✓ Technological leadership in course delivery
- ✓ Rural Economic Development Center
- ✓ Growing Potential in the region for undergraduate and post graduate programs
- ✓ Construction Management
- ✓ Healthcare Management
- ✓ Entrepreneurship
- **Challenges**
 - ✓ Competing with international standards
 - ✓ Develop distinctive competencies
 - ✓ Inculcating students towards industrial case studies and research