

K.S. RANGASAMY COLLEGE OF TECHNOLOGY

(An Autonomous institution affiliated to Anna University, Chennai)

(Accredited by NBA, Accredited by NAAC – ‘A’ Grade and Approved by AICTE)

K.S.R. Kalvi Nagar, Tiruchengode – 637 215

DEPARTMENT OF BIOTECHNOLOGY

ANNUAL REPORT FOR THE ACADEMIC YEAR 2014-15



Submitted by

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June 2015

“If you really want to be successful you will find a way, if not you will find an excuse”, with this thoughtful quote I humbly present the annual report of our department for the academic year 2014-2015 by highlighting all the academic and non academic accomplishments by the staff members and students.

1. Department Profile

The Department of Biotechnology was started in the year 2002, with the primary aim of providing high quality education in Biotechnology from the formative years of Bachelor degree to Ph.D., program to rural people of Tamil Nadu. We are very happy to submit the annual report for the academic year 2014-15 in which the activities of staff members and students of Biotechnology Department are enormous and noteworthy.

The Vision and Mission of the department of Biotechnology are

Vision: To produce competent Scientists, Technologists, Entrepreneurs and Researchers in Biotechnology through quality education.

Mission:

- Excel in Biotechnology education and the research through continual process improvement
- Be recognized as a place of excellence in teaching and learning
- Facilitate students to function as competent professional Biotechnologists

Programme Educational Objectives of the programme B.Tech. Biotechnology are

- I. Graduates are professionally competent in Biotechnology to solve problems in environmental, food, biochemical and biomedical engineering and technology.
- II. Graduates demonstrate proficiency in theory and practice of biotechniques through life-long learning.
- III. Graduates perform as an individual and / or member of a team with professional and ethical behaviour.

Programme Outcome (POs) relevant to the B.Tech., Biotechnology programme are listed below:

- a) Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialisation for the solution of complex engineering problems in Biotechnology.

- b) Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural science, and engineering sciences.
- c) Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.
- d) Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- e) Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities, with an understanding of the limitations.
- f) Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the professional engineering and technology practice.
- g) Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- h) Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering and technology practice.
- i) Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- j) Communicate effectively on complex engineering activities with the engineering community and with the society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- k) Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- l) Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

1.1. Ranking

“Team work divides the task but multiplies the success”

According to survey conducted by “Biospectrum Asia Magazine”, Bangalore (Cyber media magazine) our Department ranked **4th position out of 280 private institutions** offering Biotechnology course in India, with respect to teaching-learning process, quality in education, placement, infrastructure and academic achievements. [“Biospectrum Asia Magazine”, Bangalore (Volume 11, Issue No. 5, May 2015)].

1.2. Courses offered

The department was established in 2002 with a student intake of 30 numbers. Later on due to the rapid developments and achievements of the department in academic activities the no. of intake was increased to 60 in 2007 by Anna University with the approval of AICTE. Now the department offers the following courses.

| | |
|----------|---|
| UG | : B.Tech. Biotechnology with an intake of 60 students per year |
| PG | : M.Tech. Biotechnology with an intake of 18 students per year |
| Research | : Ph.D. Biotechnology with intake of scholars as per the norms of corresponding university and guides |

1.3. Lab facilities

Highly sophisticated lab with all the necessary chemicals and equipment is highly mandatory for any institution to carry out trending researches in life sciences. Our department is constructed with excellent infrastructure and state of art laboratories to meet the needs of students and researchers to excel in their academic and research process. At present the department holds 13 laboratories with well advanced facilities and high-end instruments along with animal house facility for animal studies.

The lists of laboratories are as follows,

- Biochemistry lab
- Bioinformatics and Molecular Modelling lab
- Bioprocess Engineering lab
- Cancer Biotechnology lab

- Chemical and Reaction Engineering lab
- Cyanobacteria lab
- Food Biotechnology lab
- Immunology lab
- Instrumentation techniques lab
- Microbiology lab
- Molecular Biology and Genetic Engineering lab
- Plant tissue culture lab
- Research lab
- Animal house facility (Approval awaited)

1.4. Annual budget

The management is magnanimous for allocating sufficient fund to the department towards the procurement of equipment, glassware and chemicals covering recurring and non-recurring budget head. This year a tune of Rs 16.00 lakh was sanctioned to the department.

| S.No. | Purpose | Amount in Rs. |
|-------|---------------|---------------|
| 1. | Recurring | 6,46,081 |
| 2. | Non-recurring | 6,62,247 |
| 3. | R & D | 6,43,327 |
| 4. | Total | 19,51,655 |

1.5. Equipment purchased

As an evidence of continuous improvement and growth of the department, new equipment are purchased on each academic year for favoring the student community. Our management is benevolent in supporting our department for purchasing new equipment.

The details of equipment purchased on previous academic year are as follows,

| S.No | Name of Equipment | Equipment Cost (Rs.) |
|--------------|---|----------------------|
| 1. | Micro centrifuge <i>Make: Tarson</i> <i>Model: MC02</i> | 27,000 |
| 2. | Zoom stereomicroscope <i>Make: Labomed</i> | 84,000 |
| 3. | Gel documentation system, 1D analysis <i>Make: Biotech</i> | 2,59,000 |
| 4. | Rotary evaporator (from UGC fund) <i>Make: Superfit</i> | 1,39,440 |
| 5. | Semi auto analyser (from UGC fund) (Biochemical analyser) <i>Make : Merck</i> | 1,01,210 |
| 6. | Blood cell counter (from UGC fund) <i>Make : Superfit</i> | 51,597 |
| Total | | 6,62,247 |

1.6. Staff members

“The art of teaching is the art of assisting discovery”

Such a success artists were serving for our department to bring out the best discoverers and inventors. United they uphold a coveted tradition of commitment and work culture. A total number of 18 faculty members are working in the department with various specializations as per the AICTE norms to scatter the knowledge in Biotechnology to the student communities. Among the teaching staff members, six of them are pursuing Ph.D., program. In addition, there are 12 supporting staff members working in different laboratory which also includes three programmers.

| S. No | Name and designation of Faculty members | Qualification |
|-------|---|---------------------------------|
| 1. | Dr. P. Ponmurugan, Professor and Head | M.Sc., M.Phil., M.Tech., Ph.D., |
| 2. | Dr. Puniethaa Prabhu, Associate Professor | MCA., M.Phil., Ph.D., |
| 3. | Dr. V. Balakrishnan, Associate Professor | M.Sc., M.Phil., Ph.D., |
| 4. | Dr. J. Philip Robinson, Associate Professor | M.Sc., M.Phil., Ph.D., |
| 5. | Dr. B. Bagyalakshmi, Associate Professor | M.Sc., M.Phil., Ph.D., |
| 6. | Ms. B. Kalpana, Assistant Professor | M.Sc., M.Tech., (Ph.D.,) |
| 7. | Dr. S. Anita, Associate Professor | M.Sc., M.Phil., Ph.D., |
| 8. | Dr. M. Ramya, Associate Professor | M.Sc., M.Phil., Ph.D., |

| | | |
|-----|--|-----------------------------------|
| 9. | Dr. K. Poongothai, Associate Professor | M.Sc., M.Phil., Ph.D., |
| 10. | Mr. R. Subbaiya, Assistant Professor | M.Sc., M.Phil., M.Tech., (Ph.D.,) |
| 11. | Mr. I. Muthiah, Assistant Professor | B.Tech., M.Tech., (Ph.D.,) |
| 12. | Mr. S. Venkatesh Prabhu, Associate Professor | B.Tech., M.Tech., (Ph.D.,) |
| 13. | Mr. R. Arulvel, Assistant Professor | B.Tech., M.Tech., MBA., |
| 14. | Dr. M. Balasubramaniam, Assistant Professor | M.Sc., Ph.D., |
| 15. | Ms. S. Poornima, Assistant Professor | B.Tech., M.Tech., (Ph.D.,) |
| 16. | Ms. M. Nithya, Assistant Professor | M.Sc., M.Phil., |
| 17. | Mr. M. Karthikeyan, Assistant Professor | B.Tech., M.Tech., |
| 18. | Mr. G. Ayyappadasan, Assistant Professor | B.Tech., M.Tech., (Ph.D.,) |

2. Performance report of the department

2.1. Neomutants – Association activity

Contemporary research in the area of Biotechnology has witnessed an enormous growth in the past few decades in order to keep abreast with the latest developments in the field of Biotechnology, an extremely high level of understanding and awareness is created for the student communities by the Department. Further the department also encourages scientist, academicians, administrators, policy makers and entrepreneurs to enhance the vision of budding biotechnologists. On focusing on these targets the department has created an association which runs for the students and by the students for organizing special guest lecture programs and other technical functions.

2.2. Guest Lectures organized by the department through NeoMutants Association

“Knowledge increases by sharing not by saving”

Sharing knowledge has helped mankind survive and evolve into the intelligent and productive species he is today. In the animal kingdom and indeed in business, knowledge sharing can make the difference between survival and extinction. More than 40 guest lecture programs have been organized by the department association and eleven programs were organized by Neomutants in last academic year.

A brief report on the activities of Neomutant Association

Our department has been conducting various activities to promote the knowledge of the budding biotechnologists. One among the activities includes conducting guest lectures on various topics by inviting the Industrial persons. The areas covered by the resource person are mentioned below.

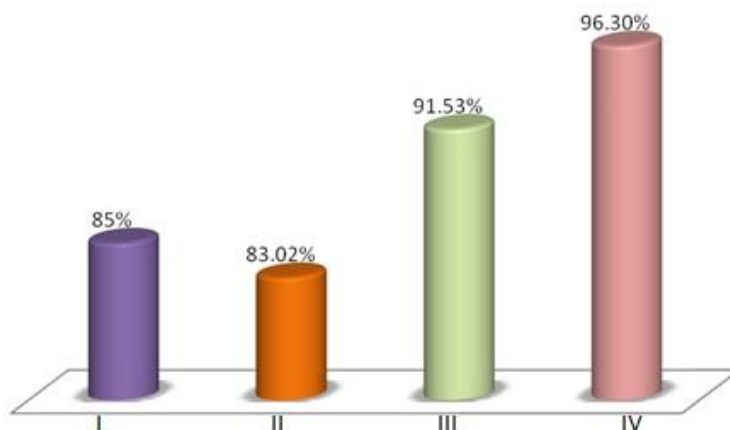
| S.No | Date | Resource person | Topic of Lecture |
|------|------------|---|--|
| 1. | 04.07.2014 | Dr. V. Santhanaraj, President IEEE-EMBS, Madras Section | Research design |
| 2. | 11.07.2014 | Dr. N. Sakthivel, Professor Department of Biotechnology, Pondicherry University | Importance of Research and Publication |
| 3. | 18.07.2014 | Dr. V. Sanjeeva Nayaka, Scientist, Lichenology Laboratory, NBRI, Lucknow | Importance of Paper Publication |
| 4. | 27.08.2014 | Dr. K. Vijay Kumar , Post Doctoral Research Associate, The University of Manchester, U.K | Type IV Pilus :Structural and Mechanistic Insight |
| 5. | 12.09.2014 | Mr. J. Shanmuganathan, Associate Professor , Department of Management studies, K.S.R.College of Technology, Trichengode | Education leads entrepreneurship livelihood and common sense. |
| 6. | 22.09.2014 | Dr. S. Shankaranarayanan., M.D.S Director, Mother Cell regeneration centre, Trichy | Stem cell therapy and its clinical implication |
| 7. | 30.09.2014 | Mr. M. Ganesh Karthick, Global Activist, Tirupur | Sustainability connecting the best ways for the solution to future generation |
| 8. | 21.01.2015 | Dr. S. Umesha, Professor Department of Biotechnology, University of Mysore, Mysore | New Frontiers in Marine Biotechnology |
| 9. | 22.01.2015 | Dr. S. Vankatesan, Professor, Department of Petrochemical Technology, Anna University, Trichy | Biofuel production from microalgae and petroleum degradation by marine organisms |
| 10. | 24.02.2015 | Dr. K.B. Jayanthi, Professor, Department of Electronics and Communication Engineering, K.S.R.College of Technology, Trichengode | Biomedical Imaging |
| 11. | 13.03.2015 | Dr. S. Selvam, Professor, Department of Economics, PVKN Government College, Chittoor, Andhra Pradesh | Anticorruption Act. |

2.3 Result analysis

“The result you obtain is directly proportion to the efforts you put in”

With a team of highly committed and dedicated faculty members it is never going to be tough task to make students excel in the field of biotechnology. As a measure of our hard work students of biotechnology produce good results with high grades.

B.Tech., Biotechnology



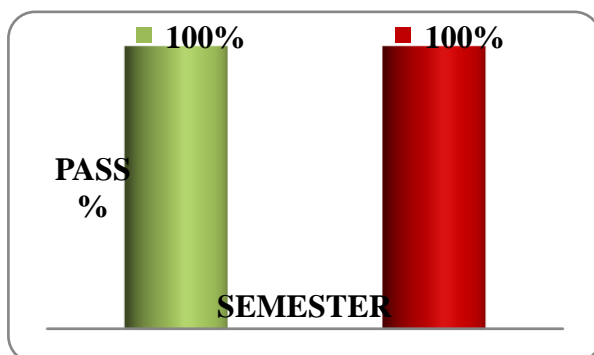
Autonomous end semester examination results for the odd semester of the academic year 2014-2015 have been published. Based on the results the following analysis was made to examine the academic performance of the students. The analysis revealed that the seventh semester results belong to the batch of 2011-2015 showed the pass percentage of 96.3%. The students of fifth semester of batch 2012-2016 produced the pass percentage of 83.02%, third semester of batch 2013-2017 showed the result of 83.02% and first semester of batch 2014-2018 secured the pass percentage of 85%.

With a team of experienced professionals, our department is smoothly moving in its own way to make the students excel in the field of biotechnology. There are many subjects in which 100% percent result has been achieved in the autonomous examination held during Nov/Dec 2014. Both B.Tech., and M.Tech., students has produced 100% result. The details of the subjects in which 100% results obtained were furnished.

The overall result of Department of Biotechnology is 83.2%. The analysis showed that the results were improved progressively as the students are moving to the higher semester.

M.Tech., Biotechnology

M.Tech. Biotechnology students of III and I semester showed cent percent results.



The overall pass percentage of M.Tech. Biotechnology is 100%. It shows that the academic performance of the M.Tech students is very good.

100% Result Details in B.Tech., Biotechnology Programme

| S.No | Sub. Code | Subject Name | Staff Name | Semester |
|------|-----------|---------------------------------------|---|----------|
| 1. | 10BTE21 | Immunotechnology | Dr. M. Balasubramanian | VII |
| 2. | 10 BT 511 | Food Biotechnology | Dr. S. Anita | V |
| 3. | 10BT711 | Immunology | Dr. V. Balakrishnan | VII |
| 4. | 10BT712 | Biopharmaceutical Technology | Dr. K. Poongothai & Ms. M. Nithya | VII |
| 5. | 10BT713 | Nanobiotechnology | Mr. R. Arulvel | VII |
| 6. | 10BT714 | Downstream Processing | Mr. S. Venkatesa Prabhu & Ms. S. Poornima | VII |
| 7. | 10BTE21 | Immunotechnology | Dr. M. Balasubramanian | VII |
| 8. | 10BTE24 | Stem Cell Technology | Mr. R. Subbaiya | |
| 9. | 10 BT 511 | Food Biotechnology | Dr. S. Anita | V |
| 10. | 10BT512 | Genetic Engineering | Ms. B. Kalpana | V |
| 11. | 10BT515 | Enzyme Engineering and Technology | Mr. M. Karthikeyan | V |
| 12. | 10BT516 | Bioprocess Engineering and Technology | Dr. P. Ponmurugan | V |
| 13. | 10BT311 | Cellbiology and Genetics | Dr. J. Philip Robinson | III |
| 14. | 14BT101 | Biology for Engineers | Dr. J. Philip Robinson | I |

100% Result Details in M.Tech., Biotechnology

| S.No. | Sub. Code | Subject Name | Staff Name | Semester |
|-------|------------|---|--|----------|
| 1. | 10 PBT 301 | Quality Control in Biotechnology | Dr. S. Anita | III |
| 2. | 10 PBT 302 | IPR and Biosafety | Dr. Puniethaa Prabhu & Mr. R. Arulvel | III |
| 3. | 10 PBT E34 | Clinical Research and Data Management | Mr. I. Muthiah & Dr. K. Poongothai | III |
| 4. | 40 PBT101 | Mathematics for Biotechnologists | Dr. R. Jeyasudha & Mr. G. Mohan | I |
| 5. | 40 PBT102 | Advanced Genetic Engineering | Ms. B. Kalpana & Mr. R. Subbaiya | I |
| 6. | 40 PBT103 | Biochemical Engineering | Mr. M. Karthikeyan | I |
| 7. | 40 PBT104 | Quality Control in Biotechnology | Dr. B. Bagyalakshmi | I |
| 8. | 40 PBT105 | Advanced Chemical Engineering | Mr. S. Venkatesa Prabhu | I |
| 9. | 40 PBT106 | Industrial Biopharmaceutical Technology | Dr. V. Balakrishnan & Dr. J. Philip Robinson | I |

3. Performance of Faculty members

“Happiness is not in the mere possession of money; it lies in the joy of achievement, in the thrill of creative effort.” The Faculty of Biotechnology has proved themselves in the global scientific community by publishing various research papers, patents, taking up research projects and etc.,

3.1 Ongoing project details

Among KSR group of institutions, our department holds a special credit and fame by holding a high number of R&D projects funded by various, government and non-government funding agencies. The list of ongoing projects is given below:

| S. No | Principal investigators | Amount in lakh(s) | Funding agency | Reference Number | Title of the project |
|-------|--------------------------------------|-------------------|---------------------|---|---|
| 1 | Dr. P. Ponmurugan Mr. R. Subbaiya | 8.60 | AICTE, New Delhi | (20/AICTE/RIF D/RPS(POLICY -III)35/2012-2013 dated March 13,2013) | Mass production of antibiotics from <i>Streptomyces</i> spp. for biomedical applications through bioprocess engineering |
| 2 | Dr. S. Anita | 2.15 | UGC, New Delhi | F.No:4.4/2014-15 (MRP-SEM/UGC-SERC) Dated 17.11.2014 | Formulation of probiotic health drink using different traditional herbs and its evaluation using animal models |
| 3 | Mr. G. Ayyappadasan | 3.50 | UGC, New Delhi | F.No:4.4/2014-15 (MRP-SEM/UGC-SERC) Dated 17.11.2014 | Pharmacological evaluation of anticancerous compounds obtained from lichens using animal methods |

3.2 Proposals submitted for funding

Research proposals are submitted by our faculty members to various funding agencies regularly, to carry out intensified research works in various biological applications. Apart from this our vibrant faculty members also do not fail to submit proposals for funding agencies for financial assistance to conduct workshops/conferences/FDPs etc., The list of proposals submitted for R&D projects for the previous academic year are as follows.

| S.No | Principal investigator | Title of Project | Sponsoring agency | Fund expected in Rs. | Status of the project |
|------|--------------------------|---|-------------------|----------------------|-----------------------|
| 1. | Dr. P. Ponmurugan | Nanobiotechnological approaches for the management of stem and root diseases of tea plants using indigenous biocontrol agents | NTRF, Kolkata. | 31,00,000 | Sanctioned |
| 2. | Dr. P. Ponmurugan | Evaluation of antibiotics producing <i>Streptomyces</i> spp. against rhizome rot disease in turmeric | UGC, New Delhi | 16.06 | Sanctioned |
| 3. | Dr. K. Manju Karunambika | Development of organic amended liquid and solid bioformulation for | DST Women | 34,00,000 | Sanctioned |

| | | | | | |
|-----|--|---|--|-----------|---------------------------|
| | | effective management of <i>Phomopsis</i> canker disease in tea plants | Scientist scheme, New Delhi | | |
| 4. | Dr. B. Nagarathinam | Prediction of binding sites of certain ligands for class I and class II type human Olfactory Receptors (ORs) subclusters and pharmacological study for proposed drugs in mouse cell lines, preclinical trials for inhalation therapy. | DST Women Scientist scheme, New Delhi | 34,00,000 | Sanctioned |
| 5. | Dr. B. Bagyalakshmi | Exploration of potassium solubilizing bacteria for increased yield and quality in turmeric (<i>Curcuma longa</i> L.) | UGC, New Delhi | 19,47,166 | Results awaited |
| 6. | Dr. K. Poongothai | Studies on the ameliorative potential of folkloric medicinal plants against experimental diabetic rats | UGC, New Delhi | 19,97,420 | Results awaited |
| 7. | Mr. G. Ayyappadasan Dr. P. Ponmurugan | Bioinformatics approach for inhibition of toxic action of Russell's viper venom PLA ₂ by lichen compounds validated through albino wistar rat model | ICMR, New Delhi | 26,49,900 | Concept proposal accepted |
| 8. | Dr. P. Ponmurugan Dr. B.G. Geetha Mr. I. Muthiah | Development of simple with rapid protocol for identification of lichens obtained from Western Ghats using Image Processing Techniques in cloud computing | SERB, New Delhi | 29,72,200 | Results awaited |
| 9. | Dr. P. Ponmurugan Dr. Puniethaa Prabhu Dr. V. Balakrishnan | Application of image processing techniques for identification of Lichen diversity and conservation in Eastern Ghats of southern India | Ministry of Environment and Forest, New Delhi. | 26,32,080 | Results awaited |
| 10. | Dr. P. Ponmurugan Dr. G. Vennila & Ms. S. Poornima | Sustainable management of water resources, water conservation measures and waste water treatment | DST, New Delhi | 7,00,000 | Concept proposal accepted |
| 11. | Mr. G. Ayyappadasan | Demonstration and training on restoration technology for socio economic upliftment of young minds as Eco Engineers from rural areas of Tamil Nadu | NCSTC, Department of Science and Technology, New Delhi | 9,20,000 | Concept proposal accepted |

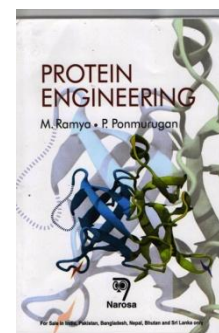
3.4 Faculty members visited abroad

Our faculty members had visited several foreign countries including Japan, Nepal and various other countries to share their knowledge with various scientists. A list of few visits is:

| S.No | Name of all the authors | Title of the paper | Venue | Title of the conference | Date |
|------|-------------------------|--|-------------------|---|------------------|
| 1. | Dr. P. Ponmurugan | Mass production of <i>Streptomyces griseus</i> for the biological control of rhizome rot disease in turmeric plants through bioprocess engineering | Tokyo, Japan | International Conference on Life Science and Biological Engineering | 17-19 Dec. 2014. |
| 2. | Dr. J. Philip Robinson | <i>In vitro</i> culture and reintroduction of <i>Emilia zeylanica</i> C. B. clarke a valuable medicinal herb from Palani hills. | Bhairahawa, Nepal | International Conference on Advances in Plant Science | 01–03 Nov. 2014 |
| 3. | Dr. V. Balakrishnan | <i>In vitro</i> propagation of <i>Cassia alata</i> L. and its secondary metabolites. | Bhairahawa, Nepal | International Conference on Advances in Plant Science | 01–03 Nov. 2014 |
| 4. | Mr. G. Ayyappadasan | Phytochemical investigation of lichen <i>Rocella montagnei</i> obtained from southern India for diabetic control in rat model | Bhairahawa, Nepal | International Conference on Advances in Plant Science | 01–03 Nov. 2014 |

3.5 Book published by the faculty members

In addition to the publication of research articles in journals, the faculty members of biotechnology department are interested in publishing books also. An example for one such publication is given here. Dr. M. Ramya and Dr. P. Ponmurugan have published a book entitled “Protein Engineering” through Alpha Science International Ltd., publication, Oxford UK with ISBN number 978-1-84265-945-8. The book furnishes all the details for the basic understanding of the proteins, their nature, structure and functional mechanisms.



3.6 List of papers published in various journals

The faculty members and the students of the department of biotechnology are good researchers' as well good publishers of the research work. Here are the publications made by faculty members as well students of various class of B.Tech., and M.Tech.,

| S.No | Name of all the Authors | Title of the Paper | Name of the Journal | Volume No., Page No. and Year | National / International | Impact Factor |
|------|---|--|--|-------------------------------|--------------------------|---------------|
| 1. | J.J Peter, C. Chellaram. and P. Ponmurugan, | Novel strategy for enhanced expression and purification of recombinant Bacteriorhodopsin in <i>Escherichia coli</i> . | Research Journal of Biotechnology | 10 (5): 55-61. 2015. | International | 0.262 |
| 2. | B.Bagyalakshmi P. Ponmurugan and A. Balamurugan | Studies on nutrient solubilization, biocontrol and plant growth promoting traits of <i>Burkholderia cepacia</i> from tea soil | Journal of Plantation Crops | Vol.42(3),2014 (Accepted) | National | Nil |
| 3. | R Subbaiya, and M Masilamani Selvam | Synthesis and Characterization of Copper Nanoparticles using <i>Eupatorium glandulosum</i> Extract and Their Antimicrobial, Antioxidant Activities | Research Journal of Pharmaceutical, Biological and Chemical Sciences | Vol.6, 1117-1127, 2015 | International | 0.35 |
| 4. | R Subbaiya, and M Masilamani Selvam | Green Synthesis of Copper Nanoparticles from <i>Hibiscus Rosasinensis</i> and their antimicrobial, antioxidant activities | Research Journal of Pharmaceutical, Biological and Chemical Sciences | Vol.6, 1183-1190, 2015 | International | 0.35 |
| 5. | J. Philip Robinson, K. Nithya, R. Ramya, B. Karthikbalan and K. Kripa | Effect of Vesicular Arbuscular Mycorrhiza Glomus fasciculatum on the growth and physiological response in <i>Sesamum indicum</i> L. | International Letters of Natural Sciences | Vol.18:47-62, 2014 | International | - |

| | | | | | | |
|-----|--|---|---|-------------------------|---------------|-------|
| 6. | V.Balamurugan, V.Balakrishnan, J. Philip Robinson and M. Ramakrishnan | Anticancer and apoptosis-inducing effects of <i>Moringa concanensis</i> using hepG2 cell lines | Bangladesh Journal of Pharmacology | Vol.9, 604-09, 2014 | International | 0.514 |
| 7. | Sruthi Prema Sunil, J. Philip Robinson, S. S. Karthick Balan, M. Anandhaprabakaran and V. Balakrishnan | <i>In vitro</i> regeneration and induction of multiple shooting in <i>Cicer arietinum</i> L. using cotyledonary nodal explants | African Journal of Biotechnology | Vol.13-2014 | International | 0.57 |
| 8. | R.Arulvel, Y.Geetharani and E.Selvarajan | Studies On Kinetic Parameters and Biochemical Characteristics Of Polyphenol Oxidase Purified From Jackfruit (<i>Artocarpus Heterophyllus</i>) Waste | International Journal of Pharmacy and Pharmaceutical Sciences | Vol 6, 473-478 2014 | International | 1.59 |
| 9. | K. Syed Zameer Ahmed, K. Poongothai, P. Ponmurugan, B. Senthil kumar | Ameliorative potential of <i>Solanum trilobatum</i> on oxidative stress in alloxan induced diabetic rats. | Pakistan Journal of Pharmaceutical Sciences | Vol.29 | International | 0.95 |
| 10. | Balamurugan A. Bagyalakshmi, B. Nepoleon, P., Kuberan, T., Mareeswaran, J., Jayanthi, R and T.Princy | Exploitation of <i>Pseudomonas</i> spp. for disease control and productivity in tea | International Journal of Multidisciplinary Research and Development | Vol.2(2), 227-235, 2015 | International | - |

3.7 List of papers published by faculties in various conferences/ seminars

The faculty members of the department of biotechnology had participated and presented their research work in various national/ international conferences the list of which is provided below.

| S.No | Name of the Faculty | Title of the Paper | Title of the Conference | Venue | Date | National/ International |
|------|---------------------|--|---|---|-----------------------------|-------------------------|
| 1. | Mr. R. Subbaiya | Synthesis and Characterization of Silver nanoparticles from Rhodococcus-2891 and its anti cancerous activity against Lung Cancer Cell Line | International Conference on Science Engineering and Management Research (ICSEMR 2014) | Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai. | 27-29, Nov. 2014 | International |
| 2. | Dr. S Anita | Formulation and evaluation of ready to serve herbal cold tea using Lactic acid bacteria | Nutrizione - 15 | SRM University, Chennai. | 26 -27 Mar. 2015 | National |
| 3. | Ms. M. Nithya | Comparative Studies On Biosorption Efficiency Using Different Colored Bird Feathers | DNAX15-2015 | Kongu Engineering college | 29 th Mar. 2015 | International |
| | | Biostimulant properties of keratin obtained from spider web | | PSG College of Technology, Coimbatore | | National |
| | | Aqueous two phase extraction of xylanase produced from mixed lignocelluloses waste by <i>Streptomyces</i> | | Karpagam University, Coimbatore. | | National |
| 4. | Ms. S. Poornima | Xylanase production by <i>Streptomyces geysiriensis</i> using lignocellulosic wastes for paper pulp bleaching | International conference on Advances in Biotechnology, Civil and Mechanical Sciences | Selvam Engineering College, Namakkal. | 13-14, Mar. 2015 | International |
| | | Participation | National conference on challenges and future prospects of applied research in life sciences | Bharathidasan University, Trichy. | 6 th , Feb. 2015 | National |

| | | | | | | |
|----|---------------------|--|---|---|----------------------------|---------------|
| 5. | Mr. G. Ayyappadasan | Activation and stabilization of enzymes entrapped into biosurfactants obtained from actinomycetes | National conference on Impacts of Petrochemicals in energy improvement | Ramanathan College of Engineering, Tirupur. | 12, Feb. 2015 | National |
| 6. | Mr. R. Arulvel | <i>In Vitro</i> antilithiasis activity of <i>Acalypha Indica</i> Linn. | ICABCMS-15 | Selvam College of Technology, Namakkal. | 13-14, Mar. 2015 | International |
| 7. | Dr. K. Poongothai | Evaluation of antidiabetic activity of <i>Leucus aspera</i> leaf on alloxan induced experimental diabetes | Biotechnological approach towards environmental sustainability and conservation | Bharat University, Chennai. | 19 th Mar. 2015 | National |
| | | Larvicidal activity of terrestrial plants and mangrove plants – a comparative study and bioformulation of mosquito repellent mask (peel off) | Biotechnological approach towards environmental sustainability and conservation | Bharat University, Chennai. | 19 th Mar. 2015 | National |
| | | Assessment of antidiabetic activity of <i>Acallipa indica</i> leaf on experimental diabetes mellitus. | DNAXIS 15 | Adhiyaman Engineering College, Hosur. | 23 rd Jan. 2015 | National |

3.8. List of Ph.D., degrees awarded during the academic year 2014-15

Three of our faculty members are having guideship in various universities to guide Ph.D., scholars. Every year certain number of scholars are registering and completing their Ph.D., under the guidance of the faculty members of our department. The list of scholars those who had completed their Ph.D., in the academic year 2014-15 are given here.

| S.No | Name of the Ph.D scholar | Name of the research guide | Name of the university | Title of the thesis |
|------|--------------------------|----------------------------|--------------------------|--|
| 1. | K. Manju Karunambika | Dr. P. Ponmurugan | Anna University, Chennai | Evaluation of <i>Pseudomonas spp.</i> For plant growth promoting traits and biological control of red root rot disease in tea plants |

| | | | | |
|----|---------------------|---------------------|-----------------------------------|---|
| 2. | Nagraja Suryadeva | Dr. P. Ponmurugan | Anna University, Chennai | Isolation and molecular characterization of multi-resistant <i>Pseudomonas fluorescens</i> from turmeric fields of Andhra Pradesh |
| 3. | B.Gangathara Prabhu | Dr. P. Ponmurugan | Bharathiar University, Coimbatore | The Pho PQ DNA binding protein as a potent transcription regulator in <i>Salmonella</i> |
| 4. | V. Balamurugan | Dr. V. Balakrishnan | Bharathiar University, Coimbatore | Pytochemical and pharmacological studies of <i>Moringa concanensis</i> against cancer |
| 5. | V.Kanimozhi | Dr. P. Ponmurugan | Bharathiar University, Coimbatore | Isolation characterization and field evaluation of indigenous <i>Pseudomonas fluorescens</i> for biocontrol activity against <i>Phomopsis</i> canker disease in tea |

3.9 Topics discussed in Research Forum

In addition to the lectures conducted by the neomutant association to enhance the knowledge of the students, our department is also organizing a thought provoking session namely research forum on every fortnight interval. In this forum various research topics will be discussed by the faculty members. Those topics include:

| S.No | Date | Name of faculty | Research topic |
|------|------------|-------------------------|---|
| 1 | 03-7-2014 | Dr. P. Ponmurugan | Exploration of Biofertilizers in tea plantation. |
| 2 | 24-7-2014 | Mr. G. Ayyappadasan | Survey and distribution of lichens on Yercaud hills. |
| 3 | 31-7-2014 | Mr. M. Karthikeyan | Biomedical application of lichens |
| 4 | 14-8-2014 | Dr. V. Balakrishnan | Heavy metal stress on plants. |
| 5 | 28-8-2014 | Mr. I. Muthiah | Significance of beta carotene in the regulation of PD -1 during the suppression of malignant plural mesothelium. |
| 6 | 18-9-2014 | Dr. Punietha Prabhu | 2D & 3D –QSAR of β -lactam Isatin triazole derivatives against “ <i>trichomonas vaginalis</i> ” activities. |
| 7 | 18-12-2014 | Dr. S. Anita | Emerging trends in probiotics research. |
| | | Ms. S. Poornima | Modeling of breakthrough curves in fixed bed adsorption. |
| 8 | 8-1-2015 | Mr. S. Venkatesh Prabhu | Genetic algorithm based Response Surface Optimization of zinc leaching from sphalerite ore using <i>Leptospirillum feriphillum</i> & its kinetics |

| | | | |
|----|-----------|---|---|
| 9 | 12-2-2015 | Dr. M. Balasubramanian Ms. M. Nithya | Purification of TCW peroxidase from <i>Cocos nucifera</i> L: Biotransformation of genotoxic into non-genotoxic compound. Studies on linalool extracted from <i>Cortandurm salium menthe kamicearmulanya koneig111</i> for the antifungal & insecticidal activity. |
| 10 | 19-2-2015 | Dr. B. Bagyalakshmi | Impacts on environment due to Coal Bed Methane (CBM) extraction in the delta region of Tamil Nadu. |
| 11 | 26-2-2015 | Dr. K. Poongothai | Evaluation of antidiabetic of folk medicinal plant against experimental diabetes in rats. |
| 12 | 5-3-2015 | Mr. R. Subbaiya | An investigation on morphological characterization of actinomycetes isolated from marine sediments. |

3.10 List of conferences organized by our department faculty members

Our department faculty members are not only good teachers and researchers, they are also potential organizers. Each and every countable number of workshops/ seminars/ conferences/ lectures will be conducted by our department faculties. The conferences organized by the faculty members during the academic year 2014-15 are given here.

| S. No | Name of the Conferences | Sponsors (with funds received) | Date of the Conferences |
|-------|---|---|-------------------------------------|
| 1. | National Seminar on Biodiversity Conservation – Status, Future and Way Forward” | DST – SERB, New Delhi. (Rs.50,000/-) | 19- 20 th July, 2014 |
| 2. | National Conference on Impact of Research and Development in Biotechnology for Sustainable Textile Production | DBT, New Delhi. (Rs.50,000/-) | 23- 24 th December, 2014 |
| 3. | Popular Lecture Series Programme in Biotechnology Sponsored By Department Of Biotechnology, New Delhi | DBT, New Delhi. (Rs.1,26,840/-) | 21- 23 rd January, 2015 |
| 4. | National Conference on “Role of Biotechnology Tools and Techniques in Wastewater Management | DBT, New Delhi. (Rs.50,000/-) | 03- 04 th February, 2015 |

3.11 IEEE-EMBS

The department of biotechnology is involved in various important activities. One such event is the involvement in the IEEE-EMBS student chapter and conducting various conferences

under IEEE-EMBS. The list of events organized includes the following. The collaborative event was also organized.

| S.No | Name of the Event | Sponsors | Date of the event |
|------|---|---|------------------------------|
| 1. | <i>BIOELECTRONICS 2K15</i> (Students Technical Quest)- Project Exhibition, Technical Quiz and Project Design Contest | IEEE-EMBS student's chapter, Madras (fund @ Rs. 18,000/-) | 23 rd March, 2015 |
| | IEEE-EMBS Members meet | Department of Biotechnology (fund @ Rs. 13,500/-) | 25 th March, 2015 |

4. Performance of the students

4.1 Class toppers in Biotechnology

The performance of the students will speak the success of good teachers. The following students are the best performers in academic with the passion towards art of learning. The toppers in all the classes of biotechnology are given here.

| Rank | Name | CGPA |
|-----------------------------------|-----------------------|------|
| IV B.Tech., Biotechnology | | |
| 1. | Deepak Kumar, P. | 8.88 |
| 2. | Judith, N. | 8.66 |
| 3. | Anu Priya, B. | 8.47 |
| III B.Tech., Biotechnology | | |
| 1. | Venkatraman, V. | 9.14 |
| 2. | Priyanga, R. | 8.93 |
| 3. | Lavanya, K. | 8.88 |
| II B.Tech., Biotechnology | | |
| 1. | Sandhya, S.M. | 9.19 |
| 2. | Uthira, M. | 9.12 |
| 3. | Vishnu Priyan, V. | 8.89 |
| II M.Tech., Biotechnology | | |
| 1. | Divya, P. | 9.11 |
| 2. | Nandakumar, A. | 8.55 |
| 3. | Rajani Sowparnika, J. | 8.40 |
| I M.Tech., Biotechnology | | |
| 1. | Mangayarkarasi, G. | 9.00 |
| 2. | Kalaivani, K. | 8.77 |
| 3. | Rubavathi, S. | 8.62 |

4.2 Number of students participated in various technical events outside the college

The best performers in academic indicate the success of good teacher. The participation and award winning students in various events held in out of the college symbolizes the best guidance provided by the researchers.

| Program | Number of students participated in conference | | Symposium |
|---------|---|---------------|-----------|
| | National | International | National |
| UG | 117 | 6 | 49 |
| PG | 8 | 3 | 4 |

4.3 Paper/poster presented by students in various conferences/ seminars

The students of our department actively participate in various technical and non technical events conducted in and out of our college. Here is the list containing the names of few pupil those who had participated and won prizes in other institutions.

| S.No | Name of the Students(s) | Course, Branch & Year | Event | Organized By | Prize Won |
|------|-------------------------|-----------------------|---|---|-----------|
| 1. | Sethupathi, S. | B.Tech. III year | Paper presentation | Bannari Amman Institute of Technology, Sathyamangalam | First |
| | | | Poster presentation | | First |
| | | | Imagenome and Instrumethod Participated | | First |
| 2. | Venkatraman, V. | B.Tech. III year | Imagenome and Instrumethod Participated | Bannari Amman Institute of Technology, Sathyamangalam | First |
| | | | Poster presentation | | First |
| | | | Paper presentation | | First |
| 3. | Shanmuga Priya, S. | B.Tech. III year | Poster presentation | Bannari Amman Institute of Technology, Sathyamangalam | Second |
| | | | Paper presentation | | Second |
| 4. | Aravinth, S. | B.Tech. III year | Paper presentation | Bannari Amman Institute of Technology, Sathyamangalam | Second |
| 5. | Gayathri, P. | B.Tech. IV year | Paper presentation | Sri Ramanathan Engineering College, Tirupur | Second |





| | | | | | |
|-----|---------------------------------|---------------------|---------------------|---|------------------|
| 6. | Jeyasakthi, P. | B.Tech. IV year | Paper presentation | Sri Ramanathan Engineering College, Tirupur | First |
| 7. | Narasimman, S. | B.Tech. IV year | Paper presentation | Sri Ramanathan Engineering College, Tirupur | Second |
| 8. | Madhan, R. Shahul Hameed, K. | B.Tech. IV year | Technical Symposium | Adhiyamaan College of Engineering, Hosur | First |
| 9. | Gayathri, P. | B.Tech. IV year | Technical Symposium | Adhiyamaan College of Engineering, Hosur | Second |
| 10. | Mohanapreethi, M. | B.Tech. IV year | Paper presentation | Sri Ramakrishna Engineering College, Coimbatore | First |
| 11. | Anupriya, B. | B.Tech. IV year | Paper presentation | Sri Ramakrishna Engineering College, Coimbatore | Second |
| 12. | R. Naseeb | B.Tech. IV year | Oral Presentation | TamilNadu Agricultural University Coimbatore | First |
| 13. | K. Maharaja Sundari | B.Tech. IV year | Poster presentation | TamilNadu Agricultural University Coimbatore | Third |
| 14. | K. Lavanya | B.Tech. III year | Paper presentation | Adhiyamaan College of Engineering, Hosur | Second |
| 15. | R. Subakeerthana | B.Tech. III year | Paper presentation | Adhiyamaan College of Engineering, Hosur | Second |
| 16. | R. Rathnachalam | B.Tech. III year | Paper presentation | Mepco Schlenk Engineering College, Sivakasi. | Second |
| | | | Problem Tacklers | | Second |
| | | | Word Association | | Second |
| 17. | G. Madhumathi | B.Tech. III year | Poster Presentation | Vivekanandha College of Engineering, Tiruchengode | Third |
| | | | Paper presentation | | Third |
| 18. | B. Amutha | M.Tech. II year | Poster presentation | Kamaraj College of Engineering and Technology, Virudhunagar | Best Paper Award |
| 19. | G.B. Shrinivasan | B.Tech. III year | Technical Quiz | Mepco Schlenk Engineering College, Sivakasi | First |
| | | B.Tech. III year | Word Association | | First |
| 20. | S. Mani | B.Tech. III year | Problem Tacklers | Mepco Schlenk Engineering College, Sivakasi | Second |



| | | | | | |
|-----|------------------------------------|-------------------------|-------------------------|---|--------|
| 21. | K. Sanjay Kumar | B.Tech. III year | Problem Tacklers | Mepco Schlenk Engineering College, Sivakasi | First |
| | | B.Tech. III year | Debate | | First |
| 22. | J. Rajani sowparnika | M.Tech. , II year | Oral paper presentation | Vivekanandha College of Engineering, Tiruchengode | First |
| 23. | S. Sudhan | B.Tech., IV year | Poster presentation | Kongu Engineering College, Erode | Third |
| | | | Quiz | | First |
| 24. | P. Deepak kumar | B.Tech., IV year | Paper presentation | Kamaraj College of Engineering, Virudhunagar | Second |
| 25. | B. Mahendrakumar | | Poster presentation | | Second |
| 26. | S. Jayaprakash | B.Tech., III year | Oral paper presentation | Kamaraj College of Engineering, Virudhunagar | Second |
| 27. | V. Venkatraman | B.Tech., III year | Quiz | Kongu Engineering College, Erode | First |
| | | | Poster presentation | | Third |
| | | | Oral presentation | | First |
| 28. | P. Arun | B.Tech., III year | Bio-Lexicon | Mepco Schlenk Engineering College, Sivakasi | First |
| | | | Word Association | | First |
| | | | Debate | | Second |
| | | | Technical Quiz | | First |
| 29. | G. Selvam | B.Tech., III year | Paper presentation | Mepco Schlenk Engineering College, Sivakasi | Second |
| | | | Debate | | Second |
| | | | Bio-Lexicon | | First |
| 30. | S. Aravinth | B.Tech., III year | Poster presentation | Adiyamaan College of Engineering, Hosur | Second |
| 31. | V. Venkatraman | B.Tech., III year | Paper presentation | Vivekanandha College of Engineering, Tiruchengode | Second |
| 32. | M. Nivethini and K. Selvambigai | B.Tech., II year | Poster presentation | Kamaraj College of Wngineering, Virudhunagar | Third |
| 33. | G. Sibi and T.R.S. Karthikeyan | B.Tech., I year | Bio-Mystriz | PSG College of Technology, Coimbatore | First |

| | | | | | |
|-----|---------------------------------|----------------------|---|---|--------|
| 34. | Thaiyalnayaki, R. | B.Tech. IV year | Technical Symposium and Project Design Contest | Bannari Amman Institute of Technology Sathyamangalam | First |
| 35. | Narasimman, S. | B.Tech. IV year | Poster presentation | Sri Venkateswara College of Technology Sriperumpudhur | Third |
| 36. | B. Vignesh | B.Tech., IV Year | Paper presentation | Kongu Engineering College Perundurai | Second |
| 37. | M. Aravindh S. Shanmugapriya | B.Tech., III year | Product launch | Kongu Engineering College Perundurai | Second |

4.4 List of students received Summer Research Fellowship

Each and every year, our students are receiving “Summer Research Fellowships” from Indian Academy of Science (IASc), Bengaluru, Jawaharlal Nehru Centre for Advanced Scientific Research, Mumbai and DST, New Delhi. The list of the students received their fellowship in this academic year is given below.










| S.No | Name of the student | Institute offering Internship training | Year of study | Fellowship awarding institute |
|------|--|---|---------------|--|
| 1. | P. Deepak Kumar  | Institute for Stem Cell Biology and Regenerative Medicine, NCBS, Bangaluru. | IV B.Tech., | Jawaharlal Nehru Centre for Advanced Scientific Research |
| 2. | P.Arun  | MDRF, Chennai. | III B.Tech., | Indian Academy of Sciences, Bengaluru |
| 3. | S. Sushmetha  | CSIR Institute for Genomic and Interpretive Research, New Delhi. | III B.Tech., | Indian Academy of Sciences, Bengaluru |
| 4. | M. Uthira  | National Brain Research Centre, Haryana. | II B.Tech., | Indian Academy of Sciences, Bengaluru |



| | | | | |
|----|--|--|--------------|---------------------------------------|
| 5. | V.Venkatraman  | Indian Institute of Immunology, New Delhi | III B.Tech., | Indian Academy of Sciences, Bengaluru |
| 6. | K.S.Ganapathy Ram  | Indian Institute of Technology- Madras, Chennai. | I B.Tech., | DST, New Delhi |



4.5 List of students got placed in various core companies in the academic year 2014-2015

The privilege of the department lies in the performance of the students and faculty members whereas the fame of the department depends on placing the students to pave way for their life. Such students who has brought fame for our department includes:






B.Tech., (2011-2015)

| Name of the students | | Name of the company |
|---|--|--|
|  P.Gayathri  S.Prasanth | | Zifo Technologies Private Limited # 21 A, Anna Salai Little Mount, Saidapet, Chennai - 600 015 |
|  D.Aambareesh  N.Judith  Neha Halder  K.M.Sanofar  V.A. Swarnalatha  D.Sruthi  M.Suganya | | VWR Lab Products Private Limited Rathinam Techno Park Pollachi Main Road Eachanari Post Coimbatore - 641 021 |

| | | |
|---|---|--|
|  |  | <p>TNQ Plot # 4/600, 4/97, Phase 2, Dr. Vikram Sarabhai Instronic Estate, Kottivakam, Thiruvananthapuram, Chennai – 600 041.</p> |
| <p>P.Jeyasakthi</p> | <p>S.Nandhini</p> | |

| | | | | |
|---|---|---|---|---|
|  |  |  |  | <p>Fruzyme Biotech India Pvt Limited 274/1-A ,Ganapathypalayam Road, Veerapandi Post, Tirupur - 641 605</p> |
| <p>B.Anupriya</p> | <p>S.Karthika</p> | <p>A.Sharmila</p> | <p>K.Rajalakshmi</p> | |

M.Tech., (2013-2015)

| Name of the students | | | Name of the company |
|---|---|--|---|
|  A.G.Arunima |  P.Divya |  J.RajaniSowparnika | Fruzyme Biotech India Pvt Limited 274/1-A ,Ganapathypalayam Road, Veerapandi Post, Tirupur - 641 605 |
|  M.Bharath | | | VWR Lab Products Private Limited Rathinam Techno Park Pollachi Main Road Eachanari Post Coimbatore - 641 021 |
|  B.Amudha | | | Green Chem Lab 5-BDA, 2nd stage, 3rd phase, Domlur, Bengaluru – 560 071 |

4.6 Extracurricular activities of the students

The students of our department are keen learners and they involve themselves for the preparation of various competitive exams. They also serve for the betterment of the society through various events and make us to reach the height of glory.

4.6.1 CARE Club Activities

The center for academic research and excellence (CARE) has been organized to promote the communication skills and leadership of the students in various aspects. The preparation procedure for the competitive exams and tips will be given by the alumni students of our department. As New initiative of the CARE Club during the winter vacation of odd semester a workshop was conducted for third year and second year Under Graduate students on December 1, 2015 to December 5, 2015. The workshop was entitled as “Practical Application of Biotechnology”. It was conducted as 10 sessions in 5 days covering different important dogma’s of biotechnology like application of Chemical Engineering, Food Biotechnology, Bioinformatics, Biochemistry, Plant Biotechnology and Animal biotechnology. It also covers sessions which explains how to tackle of placement Interviews? and how to become an Entrepreneur? Total number of 25 students from both years enrolled their names and benefited by this workshop. This Workshop was possible by the support of all Staff Members who passionately came forward to take different sessions. This Journey of CARE Club will continue in for coming Vacations. Interested students can enroll their names for their participation in the workshop it was entitled as “*Biotechnology and its research aspects*”.

List of events organized

| S.No | Date | Event | Resource Persons |
|------|--------------|--|---------------------------------------|
| 1 | 01/06/2014 | How to apply a proposals for TNSCST and ABLE India Fellowships | Mr. R.Arulvel and Mr. G.Ayyappadasan |
| 2 | 12/07/2014 | Placement Training Session | Alumni Students |
| 3 | 01/08/2014 | Quiz Competition | Office bearers |
| 4 | 09/08/2014 | Experience towards Summer Research Fellowship | J.Jeslin (III B.Tech) |
| 5 | 25/08/2014 | Experience towards Summer Internship Programs | S.Jeya prakash (III B.Tech) |
| 6 | 09/09/2014 | Higher studies in abroad | S.Sudan (IV B.Tech) |
| 7 | 23/09/2014 | How to crack the placement Interviews | S.Prasanth and P.Gayathri (IV B.Tech) |
| 8 | 01/12/2014 - | Workshop on “Practical Application of | Faculty members and |

| | | | |
|----|------------|--|---|
| | 05/12/2014 | Biotechnology” | Office bearers |
| 9 | 22/01/2015 | Debate on “Allopathy Medicine Vs Ayurvedic Medicine” | M.Kalaiselvi (Research Scholar)and S.Rubavathi (I M.Tech) |
| 10 | 10/02/2015 | Micro-Talk | Office bearers |
| 11 | 12/03/2015 | Word Association and Bio-lexicon | Office bearers |

4.6.2 Press and Media Club

- The press and media club organised a program entitled “*Wer Du Bist Wie Geth Es Dis Wo Du Bist*” on 25.08.2014 Monday for 9th standard students of K.S.R Matriculation school and Rajammal Rangasamy school.



- The program was conducted as various sessions to create awareness regarding child labour, wastage and value of food by projecting videos. Attempts were also made to create awareness regarding the corruption and its cause in third and fourth session.

- The program came to an end with a debate on “**NUCLEAR FAMILY VERSUS JOINED FAMILY**”. The best performers were awarded with gifts. The booklet on current issues was circulated for creating awareness among the people on 06/9/2014.

- On 24/12/2014 the details of conference with its inauguration and valediction are published in the newspapers such as The Hindu, Indian Express, Dinathandhi, and Dinamani.

4.6.3 Public Awareness Club

- A Public awareness club is introduced for the very first time in the history of our department, in our college campus also.

- The club is organised to create awareness among the school students, youngsters, rural farmers and tribal



regarding the various diseases like Diabetes, Cancer, HIV/AIDS, and danger of junk foods, intake of expired medicines and usage of inorganic chemicals.

- It is also aimed to motivate the young mind to avoid illegal practices which would affect them and in turn the society also.
- The important events such as Science day, Cancer day has been celebrated by the club.
- The future aspects of the club are to serve for the betterment of the society in various ways through the science and technology.

5. Other activities of the department

- An in-house magazine called “Biozoom” is regularly released by the Department of Biotechnology every semester in which research articles, general articles, legendary works, new innovations, interesting facts and figures are compiled and edited by our own students and staff members. In this academic year, Biozoom Volume 7, Issue 2 has been released along with the ISSN No: 2250 0693.
- Campus Compass program was conducted by the department to promote the interaction between the Alumni and the student representatives of the academic year 2014-2015.



6. Forthcoming events

- A collaborative conference between Department of Biotechnology and Department of Mechanical Engineering in our college have been planned to conduct it during 18-19th August, 2015. The conference is funded by DST-SERB and DBT, New Delhi.
- IEEE-EMBS student chapter inauguration: IEEE-EMBS student's chapter is to be inaugurated in the academic year 2015-2016.

7. Notable Moments

NABS Conference



Conference conducted by Department of Biotechnology in collaboration with Textile Technology Department



Conference conducted by Department of Biotechnology in collaboration with Civil Engineering Department



Programs conducted by Neomutant Association



8. Final note

“Change is inevitable, progress is optional”

With all my pleasure, I am very proud to submit the annual report of our department highlighting all the changes made in our department along with the progress obtained by us. I also anticipate that the success tempo and intensification of the department will be in log phase ceaselessly. It is my colossal contentment to thank all the teaching, non-teaching staff members and the students who contributed their best to give a lift for our department.

Acknowledgement

I conclude the annual report with my profuse thanks and indebtedness to our honorable Chairman and beloved Secretary and Principal of KSR College of Technology whose generosity and bigheartedness have transformed the dreams of many people into a virtual reality. I would also like to extend my gratitude towards our Dean, Controller of Examinations, Directors, faculty members of the department, supporting staff members and students whose encouragement, contribution and appreciation has made it possible. I also thank Ms.M.Kalaiselvi, Research Scholar/BT, for preparing this annual report.

The best is yet to be.....

Thank you...