

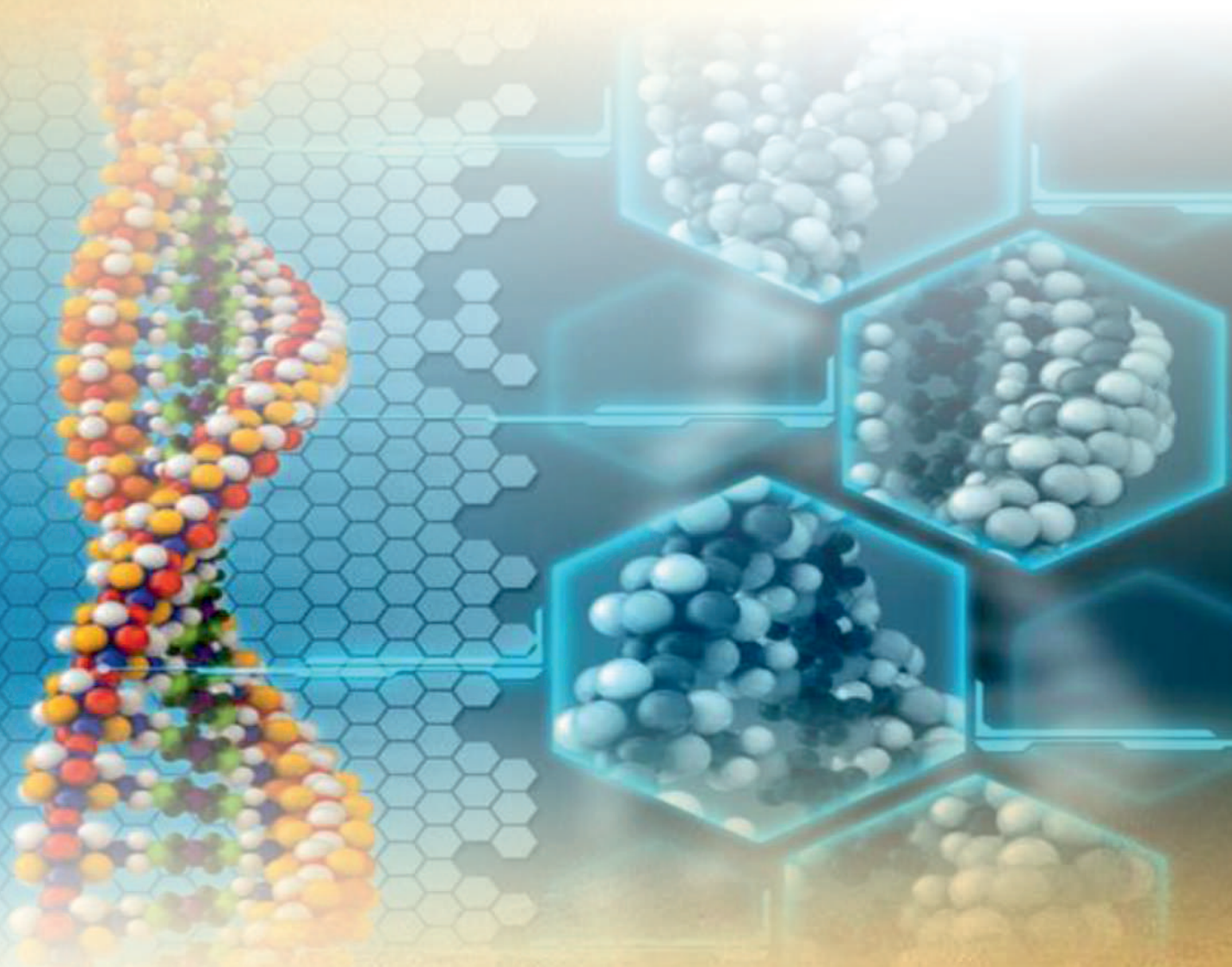


PSGR Krishnammal College for Women



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DBT STAR STATUS Newsletter - 2020



Department of Computer Science

Department of Information Technology

Department of Computer Applications

Volume II Issue 3

MESSAGE



I am pleased to know that the Department of Computer Science, Information Technology and Computer Applications had come out with a newsletter. This newsletter showcases the various activities organized by the departments to promote interdisciplinary research under DBT Star Status. I extend my hearty congratulations to the faculty members and students of all three departments for their enthusiasm and efforts to achieve success.

Dr. N. Yesodha Devi
Secretary



I am happy to find that the newsletter prepared by the Department of Computer Science, Information Technology and Computer Applications carries the news of various activities organized by these departments under DBT Star Status. The events such as mentor meetings, workshops, guest lectures and industrial visits are been organized to promote interdisciplinary knowledge in bioinformatics. The newsletter highlights the efforts taken by the faculty members and students to enrich the knowledge in bioinformatics. I congratulate the entire faculty team of all the three departments for their active involvement on planning, execution of events and for bringing out this newsletter on the various activities carried out by them under this scheme.

Dr. S. Nirmala
Principal

ABOUT DBT STAR COLLEGE SCHEME

STAR COLLEGE SCHEME has been initiated by the Department of Biotechnology, New Delhi, to support colleges and university departments offering undergraduate education to improve science teaching. The departments of Computer Science, Information Technology and Computer Applications of our institution has been included in this scheme during the academic year 2016 -2017 and has been elevated to DBT Star Status in the academic year 2019 - 2020.

Under this Scheme, the curriculum has been updated with the interdisciplinary topics of Bioinformatics, Biocomputational methods, BioPerl for the students of B. Sc. Computer Science, B.Sc. Information Technology and BCA respectively. To enhance interdisciplinary knowledge among students and faculty members, the departments organized various guest lectures, workshops, faculty development programmes in topics related to computational biology, bioprogramming python and perl. Under this scheme, the students were given opportunity to do internship and projects of inter disciplinary nature. This enhanced the technical skills of our students to process biological data and improved the placement opportunities in research laboratories.



MENTOR MEETING

Dr. J. Sridhar, UGC-Commonwealth Doctoral Fellow-UK, Assistant Professor, Department of Biotechnology (DDE), Madurai Kamaraj University, Madurai, is the mentor for the department of computer science. He gave suggestions towards students projects, resource person for organizing events and industrial visits during the mentor meeting organized by the department of computer science.



The mentor meeting was organized by the Department of Information Technology. Dr. Selvi Subramanian, Professor, Department of Biotechnology, PSG College of Technology gave suggestions to carry out the effective planning and execution of the activities.



The mentor meeting was organized by the Department of Information Technology. Dr. Shanmuga Sundaram, Ph.D Scientist Emeritus, Department of Biotechnology, Sri Shakthi Institute of Engineering and Technology, Coimbatore. He discussed about the recent research challenges, bioinformatics tools and technologies.



The mentor meeting was organized by the department of Computer Applications. Dr. R. Subash Kumar, Assistant Professor, Department of Biotechnology, Sri Ramakrishna Arts and Science College, Coimbatore has shared his views on bioinformatics research challenges, projects, workshops and Industrial Visit.

GUEST LECTURES

The department of Computer Science organized a guest lecture on **Next Generation Sequence Analysis**. Dr. J. Sridhar, UGC-Commonwealth Doctoral Fellow-UK, Assistant Professor, Department of Biotechnology (DDE), Madurai Kamaraj University, Madurai addressed a total of 120 students and 12 faculty members. The students gained knowledge on various sequencing techniques and tools applicable to any genome size available in public sequencing repositories.

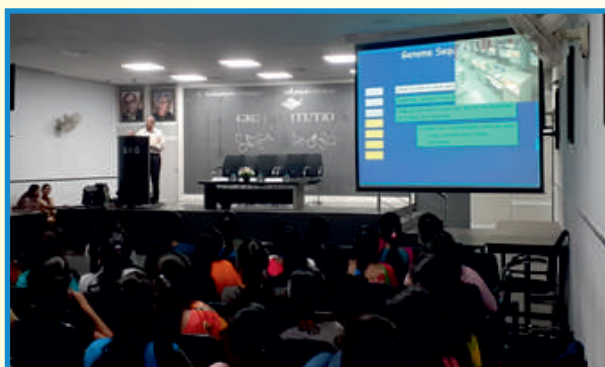


Dr. P. Lalitha, Associate Professor, Department of Chemistry, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore delivered a guest lecture on the topic **Introduction to Cheminformatics** organized by the department of Computer Science. Around 140 students and 12 faculty members of Computer Science were benefited. She created awareness on the importance of computational chemistry and the necessity to know the property, structure and reactions of a chemical compound during drug discovery using Insilco approach.





Guest Lecture on **Gene Assignment using R** was conducted by the Department of Information Technology. Dr. Kabilan Mani, Assistant Professor - Research, Centre for Molecular Medicine & Therapeutics (CMMT), PSG Institute of Medical Sciences & Research (PSG IMSR) Coimbatore was the Resource Person. Around 9 faculty members and 230 students of B.Sc Information Technology were benefited. The students gained awareness on the importance of bioinformatics using R Programming.



Guest Lecture on **Social Impact and Ethical Implications of Genomic Advances** was organized by the Department of Information Technology. Dr. Shanmuga Sundaram, Ph.D Scientist Emeritus, Department of Biotechnology, Sri Shakthi Institute of Engineering and Technology, Coimbatore was the resource Person. 10 Faculty Members and 325 students were benefited. He emphasized and created awareness on social impacts and ethical implications in genomics.

Guest lecture on **Biomedical Imaging** was organized by the Department of Computer Applications. Dr. U.S. Ragupathy, Associate Professor and Head, Department of Electronics and Instrumentation Engineering, Kongu Engineering College, Perundurai delivered the lecture. Around 320 students and 9 faculty members were a part of this event. They gained knowledge on latest image processing Techniques.



Dr. B. Thiagarajan, Deputy Registrar, Indian Institute of Technology, Palakkad delivered a lecture on **Genetics and Genomics** organized by the department of Computer Applications. He enriched the students with the latest updates of the Industries and Techniques in genetics and genomics. 320 students and 9 faculty members were a part of this event.



WORKSHOPS

The department of computer science organized an interdepartmental workshop on **Bioinformatics Programming in Python**. Ms. V. Ramya, Project Lead and Ms. G. Gokulavani, Trainer, KG-Information System Pvt. Ltd, Coimbatore demonstrated the basics of python programming and packages used to process biological data. Around 50 students from various science departments of our college were benefited.

Dr. S. Shiva Shankari, Assistant Professor, Department of Bioinformatics, Nirmala College for Women, Coimbatore and her 2 research scholars handled the sessions for the workshop on **Bioinformatics Tools** conducted by the department of computer science. She shared her expertise on computational methods, tools and algorithms employed for Biological and chemical data. Around 118 students and 9 faculty members of computer science were benefited.



Workshop on **BioPerl Programming** was organized by Department of Information Technology. Mr. Naveen Kumar, Web Developer Accent Techno Soft, Coimbatore was the Resource person and 58 students were benefited. The participants were demonstrated with the biological data using Perl Programming.



Internet of Things (IoT) an interdepartmental workshop was jointly organized by the Department of Information Technology Chemistry. Mr. Shyam Prashad Rajasekaran, Founder and CEO, Twirltact Technology Solutions, Coimbatore handled the session and 115 students participated. The students gained knowledge on the applications of Internet of Things (IoT).

The Department of Computer Applications has organized a workshop on **R Programming**. Dr. MD. Afroz Alam, Assistant Professor, Department of Biotechnology, School of Agriculture and Biosciences, Karunya Institute of Technology and Sciences, Coimbatore demonstrated the basics of R programming and highlighted technologies relevant to the biological data. Around 60 students were benefited.



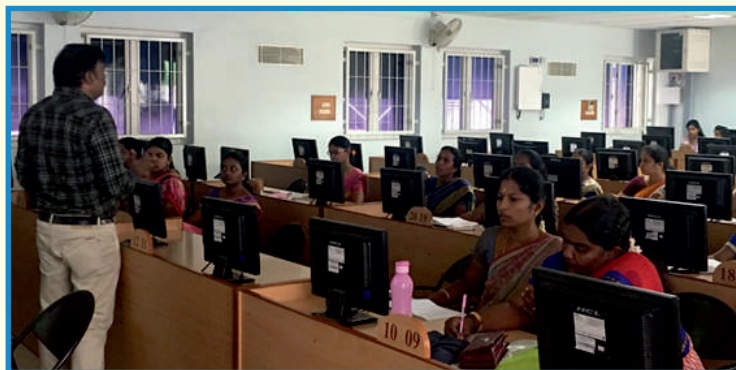
Workshop on **Mobile Applications using Android** was organized by the Department of Computer Applications. Dr. Blessed Prince, Associate Professor at Presidency University, Bangalore was the Resource Person. This workshop was attended by 60 students and it helped them to develop an App to process biological data.

FACULTY DEVELOPMENT PROGRAMME



The department of computer science organized a faculty development programme on **Android Mobile Application Development using Kotlin**. Around 25 faculty members from various science departments of our college had participated. The sessions were handled by Mr. T. Nallaperumal, Joint Director, Appville Softwares, Coimbatore and Dr. K. Sashi, Research - Head, Duratech Solutions, Coimbatore. The faculty members were exposed to various professional applications created using Kotlin, the new Java-based programming language.

The Interdepartmental Faculty Development Programme on **Tensor flow** was organized by the department of Computer Applications. Mr. C. Surendar, Technical Head, Aakkam Industrial Training and Research Institute, Coimbatore presided over the sessions as the resource person. 30 faculty members from the science department had participated and gained knowledge on the working of Tensor flow.



The departments of Computer Science, Information Technology and Computer Applications organized an Inter-collegiate Faculty Development Programme on **Big Data Analytics in Bioinformatics** under DBT Star College Status. The resource persons were Dr. P.T. Prathima, Scientist (Biotechnology), Crop improvement Division, Sugarcane breeding Institute, Coimbatore, Dr. S. F. Maleeka Begam, Head, Department of Biotechnology, Sri Ramakrishna College of Arts and Science, Coimbatore. Dr. Puniethaa Prabu, Professor, Department of Biotechnology, KSR College of Technology, Tiruchengode handled the sessions. Around 46 faculty members from various institutions of Tamil Nadu participated in this event. The participants of this programme gained knowledge about the huge amount of genomic data generated and about the diverse facets of computational biology which will enable the participants to take up projects related to analysis of biological data by developing novel algorithms and tools.



INTERDEPARTMENTAL COMPETITION



In interdepartmental competition **TechiTrendz 2020** was organized by the Department of Computer Science. Nearly 210 students of Physics, Chemistry, Mathematics, Botany, Zoology, Computer Science, Information Technology and Computer Applications of our college actively participated in the events such as quiz, paper presentation and logo finding related to the concept of biological data processing.



Interdepartmental competition **BIOESPARANZA - 2K19** was conducted by the Department of Information Technology. Around 72 students from various departments were participated and showcased their talents in the competition.



The Department of Computer Applications had organized an interdepartmental competition on the topic **Creative Thinkers**. Mr. S. Thiyagarajan, Technical Operations Head, Image creative Education, Coimbatore presided over the sessions as the resource person. 160 students were actively participated.

INTERCOLLEGIATE PROGRAMME

In BIO-HYPHENZIA '2020, Department of Computer Science organized **Conessione** competition. 88 students of 15 different Institutions in and around Coimbatore had participated and showcased their talents in this competition. The first prize was won by Mr. V. Dhanush Nagaraj and M. Bhuvan Uthaiyah, Kumaraguru College of Technology, Coimbatore. The second prize was won by Mr. S. Kaushik and Mr. R. Vinu Varshith, Kumaraguru College of Technology, Coimbatore and the third prize was won by Mr. S. Dinesh Babu and Mr. K. T. Naveen Kumar, Dr. NGP Arts and Science College, Coimbatore.



In the intercollegiate Fete BIO-HYPHENZIA '2020, **Skills 'n' Thrills** event was organized by the Department of Information Technology. Around 60 Students from various institutions actively participated in this competition. The first prize was won by Mr.V. SabariGirisan and Mr. N. Jack Alfred, Dr. NGP Arts and Science College, Coimbatore. The second prize was won by Mr. S. Sandeep and Mr. A. Gokul Krishnan, Dr. NGP Arts and Science College, Coimbatore the third prize was won by Mr. A. Premraj and K.R. Anandhan, SNMVCAS, Coimbatore.



In the intercollegiate Fete BIO-HYPHENZIA '2020, **FUN ++** event was organized by the Department of Computer Applications. 80 Students from various institutions of Coimbatore actively participated in this competition. The first prize was won by Mr. K.P.Arul Karthi and Mr. R. Dharnenpra, PSG College of Technology, Coimbatore, second prize was won by Ms. V. Srimathi and Ms. R.S.Reshma, Hindusthan College of Arts And Science, Coimbatore and the third prize was won by Mr. K. Shankar Dhev and Mr. K. Yogeshwar, Sri Eswar College of Engineering, Coimbatore.



INDUSTRIAL VISIT



ICAR - Sugarcane Breeding Institute, Coimbatore was visited by 23 students and 2 faculty members organized by the department of computer science. Students gained ideas to develop interdisciplinary projects related to creation of website and data base for Saccharum Species.

The department of computer science had organized a visit to **Institute of Bioinformatics and Applied Biotechnology (IBAB), Bangalore** to expose the students on different landscapes, a variety of people and thereby encouraging interaction. A total of 48 students and 2 faculty members acquired knowledge in the automated tools used to process biological data.

A total of 28 Students and 2 faculty members visited the **Horticultural Research Station, Yercaud** organized by the department of computer science. Students were given details about scientific name, vernacular name, family, order and medicinal values of orchid flowers. This motivated the students to develop a website which gives the details of orchid flowers grown in the areas of Yercaud.



A visit to **Central Potato Research Station, Ooty** was organized by the department of computer science. Around 32 students and 2 faculty members gained ideas on the sequencing pattern design analysis of DNA and protein structure.



Central Marine Fisheries Research Institute, Cochin was visited by 48 students and 2 faculty members organized by the department of computer science. Students gained ideas on various species of fishes and their biological classification.

Industrial Visit to Institute of **Bioinformatics and Applied Biotechnology (IBAB), Bangalore**, was organized by the Department of Information Technology. 67 III-B.Sc IT students & 2 Faculty members were visited the Institution. The students acquired Industrial exposure and knowledge from experts and practical learning in real life environment.

Farm visit to **ICAR- National Research Centre For Banana (NRCB) Trichy**, 50 students of I & II B.Sc IT and 2 faculty members were visited. This visit motivated the students to take up the projects in interdisciplinary area.



The Department of Computer Applications had organized a visit to **Central Marine Fisheries Research Institute, Cochin**. A total of 55 students and 2 faculty members visited the institution. Another visit to **Tamil Nadu Agricultural University, Coimbatore**. 55 Students and 2 faculty members visited the institution. They acquired knowledge of bioinformatics application in agriculture and fisheries



The Department of Computer Applications had organized a visit to **South India Textile Research Association (SITRA), Coimbatore**. A total of 60 students and 2 faculty members visited the institution. They gained knowledge about pilot mill, physical and chemical laboratories which are used to carry real time simulation test and research.



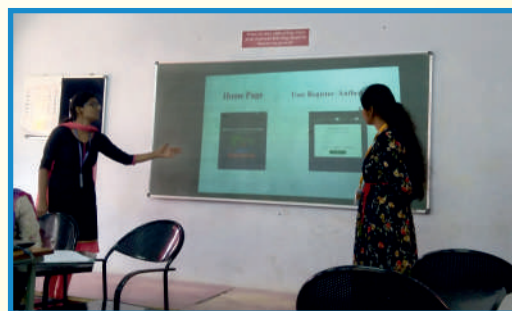
TRAINING ATTENDED

- Three faculty members from the departments of computer science, information technology and computer application attended the 5th **IIT Madras- Tokyo Tech Joint symposium on Current Trends in Bioinformatics : Big Data Analysis, Machine Learning and Drug Design** at Indian Institute of Technology Madras, Chennai.
- One faculty member attended the **International Conference on Computational Intelligence Cyber Security Computational Models** organized by the Department of Applied Mathematics and Computational Sciences at PSG College of Technology, Coimbatore.
- Three faculty members from the department of computer application attended DST - SERB Sponsored National Seminar on **Computing Platforms for Biological Big Data Analytics**, at Dr. N. G. P Arts and Science College, Coimbatore
- Three faculty members from the departments of computer application and information technology attended the one week Faculty Development Programme on **Red Hat Certified System Administrator** organized by the Department of Information Technology at PSGR Krishnammal College for Women, Coimbatore.
- Twenty Two students from the departments of computer science, information technology and computer application attended the **National workshop on Humanoid Collaboration with Edux Labs in association with NSS IIT - Roorkee** at PSGR Krsihnammal College for Women, Coimbatore.



PAPER PRESENTATION

- V. Ragavi and Mrs. N. Deepa presented a paper on **An IoT Deployed Wearable Sensor Network for Environment And Health Monitoring** in the National Conference on Advanced Computing (NCAC - 2020), Bharathiar University, Coimbatore.
- T. Monika, M. Mehala and Dr. J. Viji Gripsy presented a paper on **Voice Based Medicine Remainder Alert Application for Elder People** in the National Conference on Advanced Computing (NCAC - 2020), Bharathiar University, Coimbatore.
- G. Lakshana and Mrs. A. S. Kavitha presented a paper on **DNA and RNA Sequence Analysis for Fungal Disease Targets with Classification** in the DST - SERB sponsored National Seminar on Computing Platforms for Biological Big Data Analytics, Dr. NGP Arts and Science College, Coimbatore



U. Anu, M. Mahalaxmi and Mrs. V. Deepa presented a paper on **A Survey on IoT Applications for Smart Cities** in the National Conference on Machine learning and smart technology, Sri Krishna Arts and Science College, Coimbatore



S. Mithra, L. Monika and Dr. R. Vishnupriya presented a paper on **A study on IoT Based Elephant Intrusion Monitoring System** in the National Conference on Machine Learning and Smart Technology, Sri Krishna Arts and Science College, Coimbatore

Mrs. G. Sophia Reena, V. Sivadharini and K. Renuga Sree presented paper entitled **Cloud Assisted IoT - Enabled Framework for Cardiac Rhythm Monitoring** at National Conference on Exploring Bionanoscience in Pharma, Agri, Food Science and Industrial Microbiology, CBNR Institute, Coimbatore on 30.8.2019 & 31.8.2019.

Mrs. J. Maria Shyla, D. Sri Gopika and K. Ramya Devi presented paper entitled **Field Monitoring & Automation using IoT in Agriculture Domain** at National Conference on Exploring Bionanoscience in Pharma, Agri, Food Science and Industrial Microbiology, at CBNR Institute, Coimbatore. 30.8.2019 & 31.8.2019

Dr. S. Nithya, R. Yuvashree, V. Nivetha and S. Prithivie presented paper entitled **Mixed Reality in Health care** at National Seminar on Computing Platforms for Biological Big Data Analytics at Dr.N.G.P Arts and Science College, Coimbatore on 5.2.2020.



Mrs. G. Sophia Reena and G. Harini presented paper entitled **IoT based Health Care System for Paralyzed Patients** at National Seminar on Computing Platforms for Biological Big Data Analytics at Dr. NGP Arts and Science College, Coimbatore on 6.2.2020

Mrs. J. Maria Shyla, A. Ramya and V. Ramya presented paper entitled **IoT and Bioinformatics in Hospitals** at National Seminar on Computing Platforms for Biological Big Data Analytics at Dr. NGP Arts and Science College, Coimbatore on 6.2.2020

V. Afrin and Mrs. S. Mohana Priya presented a paper on **Bioinformatics Genetic Diversity of various Ginger Tubers** in National Conference on Exploring Bionanoscience in Pharma, Agri, Food Science and Industrial Microbiology, Centre for Bioscience and Nano science Research (CBNR), Eachanari, Coimbatore.

Aishwaryadharshini and Mrs. K. Geethalakshmi presented a paper on **Molecular Identification of Gram-ve Pathogen** in National Conference on Exploring Bionanoscience in Pharma, Agri, Food Science and Industrial Microbiology, Centre for Bioscience and Nano science Research (CBNR), Eachanari, Coimbatore.

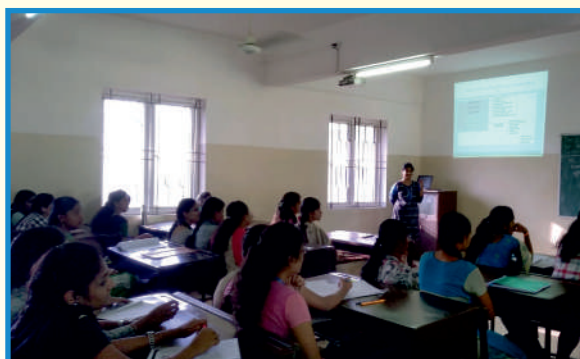
M. Harshini and Mrs. L.Sheeba presented a paper on **Anti cancer Study** in National Conference on Exploring Bionanoscience in Pharma, Agri, Food Science and Industrial Microbiology, Centre for Bioscience and Nano science Research (CBNR), Eachanari, Coimbatore.



J. Jaishree and Mrs. M.Selvanayaki presented a paper on **Bacterial Gene Analysis** in National Conference on Exploring Bionanoscience in Pharma, Agri, Food Science and Industrial Microbiology, Centre for Bioscience and Nano science Research (CBNR), Eachanari, Coimbatore.

❁ S. Indhumathi and Mrs. T.S. Anushya Devi presented a paper on **Bioinformatic Tools** in National Conference on Exploring Bionanoscience in Pharma, Agri, Food Science and Industrial Microbiology, Centre for Bioscience and Nano science Research (CBNR), Eachanari, Coimbatore.

❁ S. Divya and Mrs. M. Selvanayaki presented a paper on **Cardio Vascular Disease Prediction** in DST - SERB Sponsored National Seminar on Computing Platforms for Biological Big Data Analytics at Dr. NGP Arts and Science College, Coimbatore



❁ S. Sowmiya and Mrs. S. Kavitha presented a paper on **Prediction of Hospital Readmission** among Diabetic Patients in DST - SERB Sponsored National Seminar on Computing Platforms for Biological Big Data Analytics at Dr. N. G. P Arts and Science College, Coimbatore.

❁ R. Sharmathi and Mrs. L. Sheeba presented a paper on **Breast Cancer Prediction** in DST - SERB Sponsored National Seminar on Computing Platforms for Biological Big Data Analytics at Dr. NGP Arts and Science College, Coimbatore.

❁ Mrs. G. Sangeetha presented a paper on **Ensemble Hybrid K-Means and DBSCAN clustering Algorithm for prognosis and diagnosis of breast cancer** in 5th IIT Madras- Tokyo Tech Joint symposium on Current Trends in Bioinformatics: Big Data Analysis, Machine Learning and Drug Design at Indian Institute of Technology madras, Chennai.



POSTER PRESENTATION

Dr. R. Kavitha and Dr. S. Karpagavalli presented a poster on **ECG Classification based on Deep Learning Classifier** in the IIT Madras Tokyo Tech Joint Symposium on Current Trends in Bioinformatics: Big data Analytics, Machine Learning and Drug Design organized by IIT Madras Chennai and Tokyo Institute of Technology, Japan.

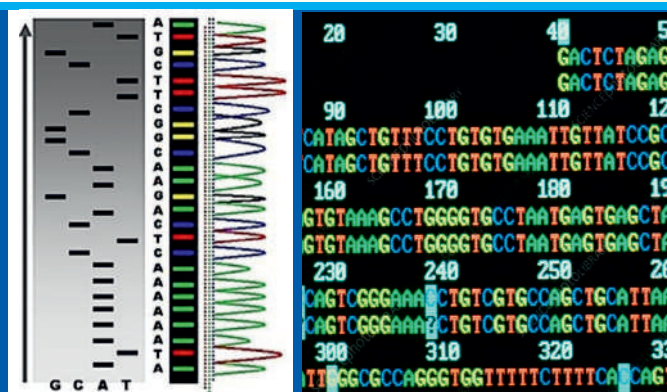


PUBLICATIONS

- ❁ Dr. J. Vijigripsy, Mrs. A. S. Kavitha and V. Menaka, Biological Software for Recognition of Specific Regions in organisms, Biomedical Communications, Vol. No: 13; Issue. No: 1, March 2020, PP.340-344 **Indexed by Web of Science**
- ❁ Dr. J. Vijigripsy, M. Mehala, Voice based medicine remainder alert application for elder people, International journal of Recent Technology and Engineering Vol. No: 8; Issue. No: 6, March 2020, PP. 2284-2289- **Indexed by Scopus**
- ❁ S. Sneha, S. Sruthimol and Mrs. S. Ponmalar, A Survey on White Blood Cell Classification using Microscopic Images, International Journal for Scientific Research & Development, Vol. No 7, Issue. No. 11, Jan, 2020, PP. 13 - 15.
- ❁ J. Gayathri and Dr. C. Arunpiya, Breast Cancer Detection Using BPN Classifier and Grey Level Co-Occurrence Matrix, International Journal for Science and Advance Research In Technology, Vol. No. 5, Issue.No. 12, Dec.2019, PP.155 - 159.
- ❁ T. Gopiga and Dr. C. Arunpriya, Assessing Food Volume and Nutritious Values from Food Images using Decision Tree Approach, International Research Journal of Engineering and Technology (IRJET), Vol.No.6, Issue.No. 12, Dec.2019, PP.1458 - 1462.
- ❁ Mrs. A. S. Kavitha and T. Lakshana, A Review Paper On Cancer Biology Using Biotechnology and Nanotechnology, International Research Journal of Engineering and Technology, Vol. No 6, Issue. No. 7, July, 2019, PP. 3540-3542.
- ❁ Mrs. A. S. Kavitha and S. Keerthana, A Review Paper on Brain Tumor, International Research Journal of Engineering and Technology, Vol. No 6, Issue. No. 7, July, 2019, PP. 3467-3474.
- ❁ Mrs. N. Deepa, S. Rakshana and S. Rakshana, A molecular modeling studies in various drugs, Journal of Emerging Technologies and Innovative Research, Vol. No 6, Issue. No. 6, June, 2019, PP. 560 - 566.

Sequence Published in NCBI Database

Curcuma Amada	- MN989427
Klebsiella pneumonia	- MN988618
Hedecheium Flavuam	- MN988619
Pseudomonas Alcaligenes	- MN988620
Staphylococcus	- MT126466
Kouria Plaustris	- MT126465
Entero Bacter Cloacae	- MT126476.1
Bacillus sp	- MT131177.1



ONLINE COURSES

Self learning by the students is encouraged, 116 students of II B.Sc. Computer Science has completed Biopython and 112 students of I B.Sc. Computer science has completed C++ Programming through Spoken Tutorials, IIT Bombay. This online course has motivated students to take up inter disciplinary projects on bioinformatics.

To develop the learning capacity of the students online course is encouraged. 36 students of I BCA has completed C++ programming and 38 students of II BCA has completed Java programming through Spoken Tutorials, IIT Bombay.

A total of 99 Students of I B.Sc. Information Technology has completed Introduction to Computer Science Course through Spoken Tutorial, IIT Bombay

INTERNSHIP

Internship help the students to develop and refine their skills in biological data base, tools and technologies of bioinformatics. 16 students of B.Sc. Computer Science, 10 students of B.Sc. Information Technology and 8 students of BCA have undergone training in application areas of bioinformatics.

Few of them are listed below

- Study on Medicinal Plants Websites, PSGR Krishnammal College for Women, Coimbatore
- Detection of breast cancer using BPN Classifier in Mammograms, NXT Logic Software Solutions, Coimbatore
- Candidate Identification using Gene, Shifa Clinical Laboratory, Coimbatore
- Bacteria Structure Aid using AR at Maylancer Techios, Coimbatore.
- Evolutionary Relationship Profile of Human Insulin Protein at Accent Techno Soft, Coimbatore.
- Computer Aided Prediction of Drug Likeness of Metformin Accent Techno Soft, Coimbatore.
- Insilico analysis of human melanin receptor gene ,Accent Techno Soft, Coimbatore.
- BioInformatic Tools - Pseudomonas Aeruginosa at CBNR, Coimbatore.
- BioInformatic Tools - Escherichia Coli at Center for Bioscience and Nano Science Research, Coimbatore.
- BioInformatic Tools - Pseudomonas Pudida at CBNR, Coimbatore.

PROJECTS

Projects, prepare students to solve real-world problems.25 students of B.Sc. Computer Science, 23 students of B.Sc. Information Technology and 22 students of BCA undertook projects in Bioinformatics.

Few of them are listed below

- Plant Tagging System using QR Code, PSGR Krishnammal College for Women, Coimbatore.
- Mobile App for Diabetics Self Management, Sri Sabari Clinical Lab, Gobi.
- Temperature sensing in fishing tank, Tetra Aquarium, Coimbatore.
- Website for Flora in College Campus, PSGR Krishnammal College for Women, Coimbatore.
- Customized website for genes of Saccharum at ICAR - Sugarcane Breeding Institute, Coimbatore, PSGR Krishnammal College for Women, Coimbatore.
- Perfect Sight for Visually Impaired & Blind-A Smart Cap Wearable at Twirltact Technology Solutions Pvt Ltd, Coimbatore.
- Molecular Docking of Hypophyllanthin against Hepatitis B Virus at Accent Techno Soft, Coimbatore.
- Air Purity and Pollution Monitor at Redpyx Technologies, Coimbatore.
- Learn Science with AR at Twirltact Technology Solutions Pvt Ltd, Coimbatore.
- Anti - Cancer Activity against MCF - 7 Cells and the Protein Characteristics at Centre for Bioscience and Nano Science Research, Coimbatore.
- Molecular Study of White ROT Fungi and its Applications at Centre for Bioscience and Nano Science Research, Coimbatore.
- App for Sign Language Conversion and Message Service System at Ascent Solution System, Coimbatore.
- Android App for Blind People at Ascent Solution System, Coimbatore.
- Soil Beneficial Bacteria at Centre for Bioscience and Nano Science Research, Coimbatore.
- Android App for Blind People at Ascent Solution System, Coimbatore.

LAB MANUAL, STANDARD OPERATING PROCEDURE & BOOK

Lab Manual

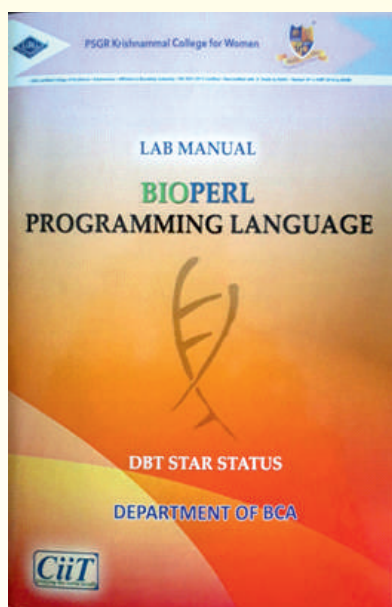
Biological Data Analysis
Year of Publication: 2019
ISBN: 9 -788194 - 294047

Bio Perl Programming
Year of Publication: 2020
ISBN: 978-93-891053-7-7

Bio Computing Technologies
Year of Publication: 2020
ISBN: 978 -93-89105-43-8

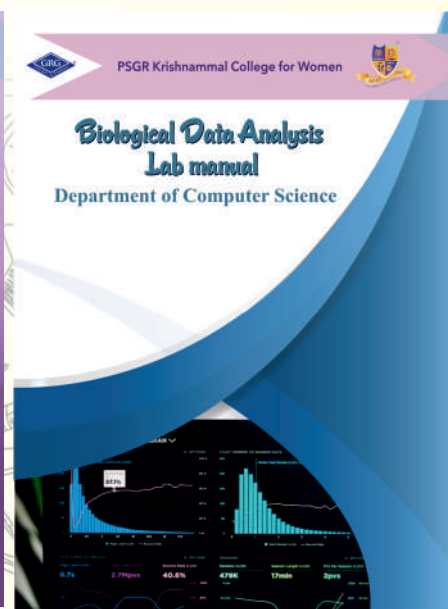
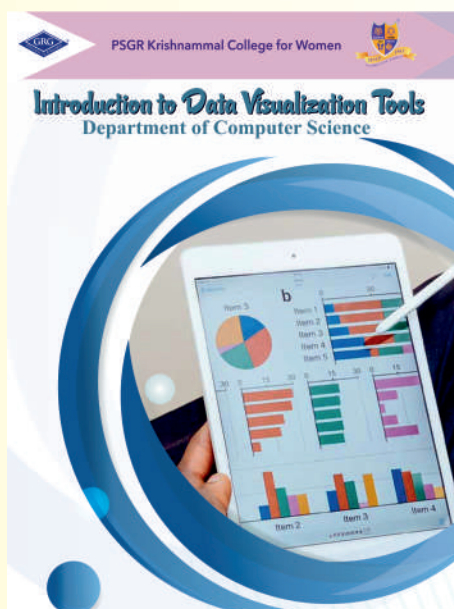
Standard Operating Procedure

Bio Perl Programming
Year of Publication: 2020
ISBN: 978-93-891053-8-4



Book

Introduction to Data Visualization Year of Publication: 2019 ISBN: 9 - 788194 - 294030



- Patron** **Smt. R. Nandini**
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- Secretary** **Dr. N. Yesodha Devi**
Secretary, PSGR Krishnammal College for Women
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PSGR KRISHNAMMAL COLLEGE FOR WOMEN

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