

DEPARTMENT OF COMPUTER SCIENCE

NEWSLETTER-(2023-24)ODD SEMESTER

ABOUT THE DEPARTMENT

The Computer Science department has been functioning in the college since 2002 .It has become wider with the introduction of PG-M.Sc.,CS in the academic year 2010 and Department of Data Science in the academic year 2023. It has a well equipped UG, Data Science Lab& PG lab with latest system configurations. Department have their own association named “BIOS-CS – Bon Secours Integrated Operating System- Computer Science”. and it strives to mould the students as digital professionals to build a prosperous society and contributes to the IT fields by conducting various seminars/conference/ workshops and symposium to motivate the students. It has earned their reputation for academic excellence by securing top ranks in the university with remarkable placement of our students in various companies. At present our strength comprises of 432 students in UG & PG. We have a good team of faculty members, who dedicated and involved to promote educational values among the students

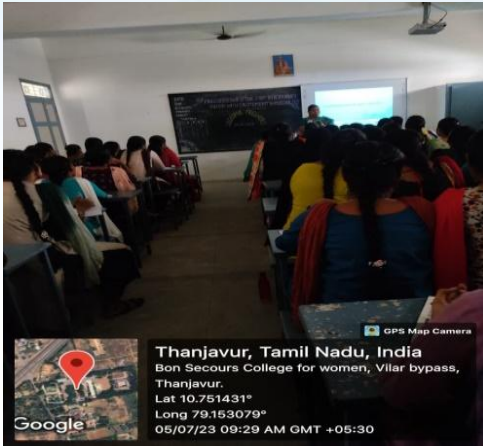
FRESHERS DAY & FOUNDATION COURSE PROGRAMME



The fresher's day was filled with excitement, joy, music, enthusiasm, laughter and happiness. It is the day where seniors and juniors finally bond and unite to celebrate being part of the college. Students were welcomed with the so much of enthusiasm which was organized by Dept

Student's Council in the Open Ground. The inauguration of event started by kindling the lamp along with the blessings .The Head and Staff of the Department of Computer Science organized a foundation course program for undergraduate students from June 26th to June 28th, 2023. The (SIP) was conducted at Classroom No. B49. Dr. S. Bhuvaneswari, Assistant Professor of BCA at Annai College of Arts and Science in Kumbakonam. She delivered extensive lectures on Industrial Readiness, Skill, Upskilling, and Reskilling. Our academic members also delivered speeches on various topics.

ICT-SPECIAL LECTURE ON SECURITY IN EMBEDDED SYSTEMS



On July 5, 2023, the Department of Computer Science organized a "ICT-Special Lecture on Security in Embedded Systems". Mrs.P.Sangeetha, Assistant Professor of Information Technology at Bharath College of Science and Management, Thanjavur. Managing cybersecurity hazards is vital throughout the whole lifecycle of connected products, therefore cyber safety

has become just as important as electrical or RF safety as a standard practice. However, embedded systems security is a distinct discipline that is inextricably linked to new device designs, necessitating not only sophisticated understanding of how to reduce security vulnerabilities in system design, but also the capacity to manage new and emerging threats as they arise. This program involved 105 students.

SOFT SKILL TRAINING PROGRAMME ON BASICS OF PYTHON



On July 6, 2023, the Department of Computer Science held a Soft Skill Training Programme on Python Basics. Mr. R. Logeswaran, M.E., is a Technical Trainer at IGNIZEE in Chennai. He is a very competent software trainer who is well-versed in a

variety of programs and operating systems commonly utilized in professional settings. Keeps up with new apps as they become available and incorporates them into training materials. has six years of experience working as a software trainer for several organizations. The resource person explained how flow controls and Python code are used in numerous applications. At the conclusion of the Programme, the students utilized Python to

clarify their questions. Ms. R. Kiruthika, Department of Computer Science, Bon Secours College for Women, gave the Vote of Thanks.



CAREER GUIDANCE PROGRAMME

The Department of Computer Science organized a Career Guidance Programme on the topic "How to Build a Career in Cyber Security" on July 10, 2023. Mr. R. Samyamray is an Associate Consultant at Control Case International Pvt. Ltd. in Mumbai. 105 Students were benefited. To

become a successful information technology expert, channel technical knowledge and abilities to assure personal and professional progress while also contributing to the organization's prosperity. He described the various firms' information, as well as how to prepare for the interview and create one's personality. Students actively participated, asking the resource person questions. The session was attended by 105 students. Students will be able to engage in critical thinking by analyzing events and generating and selecting feasible problem-solving strategies.

INSTALLATION OF BIOS-CS ASSOCIATION

The Installation of Associations was held on 17.07.2023.. We congratulated the Bios-CS Office Bearers.

President - Ms. S.Priyadharshini (II M.Sc., CS)

Vice President – Ms. S.R Gayathri (I M.Sc., CS)

ICT - PLAY WITH PYTHON

The Department of Computer Science has organized “ICT - Play With Python” on 19.07.2023 to edify the students about the recent trends and technologies related to Machine Learning and Python. The session was started with Prayer song, and Student Ms. L.Mohankumari, welcomed the Rev. Sr. Terencia Mary, Director, Bon Secours College For Women, Thanjavur, Dr. S. Gayathri, Principal, Bon Secours College For Women, Thanjavur, Resource person, HOD, staff and the students.



Mr. Shahul Hameed, Start-up Advisor and Technical Lead at cloudronics, serves as the Resource Person. The event began with an introduction from an expert in Python. The session was broken into two parts. In the first part, students presented their Python projects. The Expert reviewed all of the projects. Exhibitions highlight students' learning processes and products, allowing them to share their work with individuals outside of the classroom. They encourage all pupils to perform their best so that they can stand proudly behind their accomplishments.

In the second section, the expert provided a brief overview of the differences between supervised and unsupervised machine learning, the traditional and machine learning programming paradigms, applications, prerequisites, and the necessity of statistical knowledge. We also spoke about how to develop a model in machine learning. The seminar was finished by answering the students' questions and exploring the potential applications of Machine Learning and Python in industry, as well as assisting them in developing a project for their final year. 63 students attended this session. Ms. M, Varsha, the student, finished the session with a vote of thanks.

SKILL ENHANCEMENT PROGRAMME

The Department of Computer Science organized the "Python Skill Enhancement Programme" and "Career Guidance Programme-Python Computing" for 102 students. Resource person Mr. Y. Shahul Hameed, Start-up Adviser, Technical Lead, Cloudronics, Bangalore. To become a successful information technology expert by channelling technical knowledge and skills to ensure personal and professional growth and contribute to the organization's prosperity. he explained the various companies' information as well as how to face the interview and develop one's personality. Students actively participated and asked the resource person questions. This session was attended by 105 students. Students will be able to engage in critical thinking by analysing situations and developing and selecting viable problem-solving solutions.



ICT-SPECIAL LECTURE ON “DATA STRUCTURES AND ALGORITHM SOLVING KNAPSACK PROBLEMS”

The Department of Computer Science has organized “ICT - Special Lecture on Data Structure and Algorithm Solving Knapsack Problems” on 21st July 2023. Algorithms can

help us to identify and construct useful mathematical entities and processes.

Dr. E. Kaveri, Assistant Professor, PG Department of Computer Science, Government Arts & Science College for Women, Orathanadu, served as the resource person, explaining the fundamental principles and techniques for handling data structure challenges. She emphasized a recent technique for solving a range of data structure challenges.

The seminar was participatory, and students learned about the knapsack problem. The talk drew 103 people, including two faculty members

INTERNATIONAL WEBINAR ON SOFTWARE DESIGN TOOLS AND PROTOTYPE DEVELOPMENT

The Department of Computer Science used Google Meet to host a "International Webinar on Software Design Tools and Prototype Development" on July 24, 2023. To encourage design thinking and enable students to produce prototype designs for software development. Ms.B.Gayatri, Lead Software Engineer at Startup Laakbot Inc., California, USA.



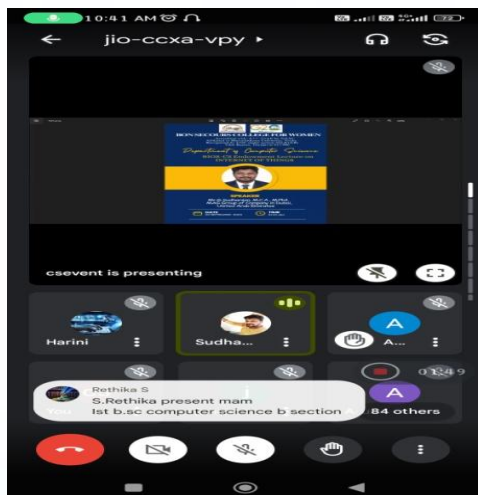
She discussed the need for innovation, the process of innovation, the impact of innovation, and the drivers of innovation, as well as the innovation cycle and product development phases, which ranged from ideation to proof of concept to prototype development in various technology readiness levels and, finally, maturing to a product for start-up. This programme was attended by 98 students.

ICT- SPECIAL LECTURE ON CLIENT AND SERVER SIDE SCRIPTING IN UIDD

On August 29, 2023, the Department of Computer Science organized a "ICT- Special Lecture on Client and Server Side Scripting" at UIDD. Dr.S. Bhuvaneswari MCA., M.Phil., Ph.D., Assistant Professor, Department of BCA, Annai College of Arts and Science, Kumbakonam, Tamil Nadu, served as the resource person, delivering the fundamental

concepts of User Interface design as well as the process designers use to build interfaces in software via online mode. She was credited with creating any visual element, interaction, or animation in a product or webpage. The seminar was interactive, and students learned about user interface design and development. Sixty students, including two faculty members, attended the programme.

INTERNATIONAL WEBINAR ON IOT



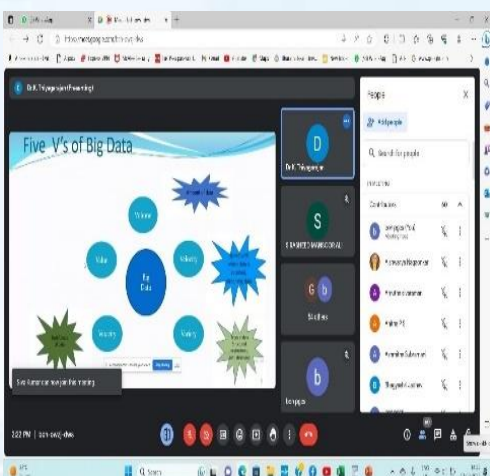
The Department of Computer Science organized the International Webinar on IOT on September 2, 2023. Mr.G.Sudharsan,M.C.A.,M.Phil., of the MAG Group of Companies in Dubai, United Arab Emirates, served as the resource person and provided the lecture Internet of Things Devices with Sensors, Processing Ability, Software, and other Technologies. 101 students attended and received benefits.



ENDOWMENT LECTURE ON INTERNET OF THINGS

The Department of Computer science organized the Endowment Lecture on Internet of Things 25.09.2023 Mr. S. Sudhakar, M.C.A., Info system, Software training institute, Thanjavur was the resource person he delivered the design methodology and hardware platforms involved in IoT.92 students attended and got benefitted

FACULTY DEVELOPMENT PROGRAMME ON "RECENT TRENDS IN DATASCIENCE"



The Department of Computer Science, Bon Secours College for Women, Thanjavur, organized a Five day online Faculty Development Programme on ""RECENT TRENDS IN DATA SCIENCE"" from September 11 to September 15 2023.

During this programme, eminent industry experts covered a variety of topics related to the newest technologies in depth, and participants enjoyed a very supportive academic environment. Thanks to Google Meet. <https://meet.google.com/bch-owzj-dws> is the meeting URL. The Faculty Development Program intended to design computer systems that can learn and use the most recent machine learning technology. By utilising algorithms and statistical models to analyse and infer conclusions from patterns in data, the Faculty Development Program sought to construct computer systems that can learn and adapt without explicitly following instructions and revolutionise our digital lives. Future trendiest technologies trends in Practice will educate you on the most significant technological developments of the day and how to fully utilise them to advance in our digital lives. This curriculum presents current technological trends and how they could help an organisation succeed. Five notable specialists were invited to present their knowledge and extensive experience on the subject from around the University.

Day 1 Title: Introduction to Data Science, Resource Person : Dr.S.Roja, Asst.Prof., Dept.of CS & Engineering and Applications,BDU, Trichirappalli.. Day 2 Title: Applications of Data Analytics using R & Python,Resource Person : Dr.A.Haja Abdul Khader, Dept.of CS, Khadir MohideenCollege, Adirampattinum.Day 3 Title: Recent Trends in Data Warehousing for Big Data.Resource Person : Dr.K.Thiyagarajan, Asst.prof., Dept.of CS.,Periyar Maniammai Institute of Science and Technology, Thanjavur.Day 4 Title: Classification in Machine Learning ConceptsResource Person : Dr.S.Abirami, Asst.prof., Dept.of CS and Engineering, Annamalai University, Chidambaram.Day 5 Title : Data Analytics in Health Care and Agriculture.Resource Person : Dr.B.Surendiran, Associate Professor, Dept.of CS.,National Institute of Technology, Puduchery University, India.

CONVERTING INNOVATION INTO START-UP



The Department of Computer science organized the Converting Innovation into Start-Up on 15.09.2023. Dr.V.NAGARAJ M.E., M.B.A., PH.D.,Managing Director,Trueline Research Private Limited &Trueline Academic and Research Centre, Co-Founder Start net Ventures Private Limited delivered the lecture on the need for creative thinking, the process of initiation, consequences, and how start-ups differ from other businesses. 90 students attended and got benefitted.

WORLD TOURISM DAY

This World Tourism Day 2023, under the theme “Tourism and green investment” highlights the need for more and better-targeted investments for the Sustainable Development Goals. Three days Educational trip was organized by Department of Computer Science, All the students were directed to gather at College Lobby at 9:30PM. Secretary, Director, Principal of the college wished all the students best and safe journey.



As a part of the annual end semester tour, 104 students of PG and UG went for a 2 night, 3 day trip to Mysore, Coorg & Bangalore from 25th to 27th September 2023, organized by Happy Holidays Tour Company. The students were accompanied by Four teachers. The students visited ecologically significant places like Mysore Palace, Mysore Zoo, Brindavan Garden at Mysore. The Garden visit is relevant to the tour's theme of promoting environmental awareness and encouraging students to take action to protect the environment. Dubare Forest, Elephant camp, Golden Temple and Nisargadhama Bamboo forest at Coorg. The day was eventful with river rafting and campfire. The last day was Full day enjoyment to Wonderla at Bangalore. In conclusion, the educational tour provides an excellent opportunity for students to learn outside of the classroom setting. The tour's theme of promoting scientific knowledge, historical awareness, and environmental consciousness is evident in the choice of destinations. The tour is an excellent opportunity for students to gain practical knowledge that they can apply in real-life situations, broaden their horizons, and enhance their learning experience.

EDUCATIONAL TRIP

The Department of Computer Science organized a One day trip for the First year students UG & PG to Kodaikanal. Two Hundred and Twenty eight Students along with 5 Staff members accompanied with them



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STAFF ACHIEVEMENTS







- ✓ The Delta Rotary Sangam, Thanjavur gave the "Samudhaya Sirpi Award" to Dr.K.Kalyani, Head and Assistant Professor of Computer Science.
- ✓ Dr. K. Kalyani, Head & Assistant Professor, Ms. S. Bruntha, Ms. A. Daisy Rani, Ms. S. Pushpavalli, and Ms. B. Asha, Assistant Professors of Computer Science, attended the five-days Faculty Development Programme (FDP) on "Data Science Specialization using Python" at NoviTech R&D Private Ltd., Coimbatore from 10.07.2023 to 14.07.2023
- ✓ Ms. M. Saritha, Asst.Prof. of Computer Science attended the five-days "Faculty Development Programme on Microsoft Azure AI Engineer Associate" held at Mount Zion College of Engineering and Technology, Pudukkottai.
- ✓ The Department of Computer Science's Head and Assistant Professor, Dr. K. Kalyani, received a publication patent on "AI-Assisted Image Recovery for Low-Dose CT Scan"
- ✓ Dr.K.Kalyani, Head & Assistant Professor of the Department of Computer Science, received the "Senior Researcher Award" from the DK International Research Foundation, Perambalur, Tamil Nadu.
- ✓ Dr. K. Kalyani, Head and Assistant Professor of the Department of Computer Science, took part in the 10th International Conference on Multidisciplinary Research and Modern Education, and was sponsored by the DK International Research Foundation, International American Council for Research & Development and Saint Martin's Centre for Research & Accreditation Commission, Perambalur, Tamil Nadu.

- ✓ Dr. K. Kalyani, Head and Assistant Professor of the Department of Computer Science, was appointed as a Member of Editorial Board Team for DKIRF Journals & Novel Research Academy in Puducherry, presented the "Best Senior Faculty Award" to Dr. K. Kalyani, Head and Assistant Professor of the Department of Computer Science.
- ✓ In The Month Of 11th July 2023, PG Students And Dr. K. Kalyani, Head & Assistant Professor Of The Department Of Computer Science, Released A Book With The Title "Computing In Green Technology" And Received Appreciation Certificates For Their Work.
- ✓ Dr.K.Kalyani Head & Asst.Professor of Computer, Ms.N.Vijayalakshmi, Ms.S.Bruntha, Ms.A.Daisy Rani, Ms.S.PushpaValli, Ms.B.Asha, and Asst.Professors of Computer Science attended the five-days Faculty Development Programme (FDP) on "Data Science Specialization using Python" from at Dr.SNS Rajalakshmi College of Arts and Science, Coimbatore From 19.07.2023 to 23.07.2023
- ✓ Ms.N.Vijayalakshmi, Ms.S.Pushpavalli, & Ms.M.Saritha, Asst.Professors of Computer Science participated in the Naan Mudhalvan FDP programme which was organized by Bharathidasan University, Trichirappalli from 24.07.2023 to 26.07.2023.
- ✓ Ms.S.Bruntha, Ms.B.Asha, Asst.Professors of Computer Science participated in the Naan Mudhalvan FDP programme which was conducted by Bharathidasan University Trichirappalli from 26.07.2023 to 28.07.2023.
- ✓ Dr.S.Sahana, Asst.Prof. of Computer Science attended the Innovation Ambassador (IA) training "Advanced Level through online mode by MoE's Innovation Cell & AICTE on 21.08.2023
- ✓ Dr.K.Kalyani, Head & Asst.Prof., and Ms.N.Vijayalakshmi, Ms.M.Saritha, A.Daisy Rani S.Pushpavalli, Asst.professors of Computer Science attended the 3 Hours Workshop in Cybersecurity at Novitech R&D Private Limited, Tiruchirappalli on 31.08.2023

UG RANK HOLDERS 2020 -2023

Photo	Student Name	University Rank
	MUTHUMEENATCHI P	4
	INDHUMATHI M	5
	DEEPA T	6
	SAMRIN NISHA S	8
	SNEKA P L	9
	DHARANI DEVI S	10
	NAFISA FAIROSE BEGUM Z	12

UG RANK HOLDERS 2020 -2023

Photo	Student Name	University Rank
	LEONA T	13
	SWARNA PRIYA P	14
	SARASWATHI C S	16
	BAHMEDA RUSLIN H	17
	AFRATHILFAR Z	18
	SWETHA M	19

PG RANK HOLDER 2021-2023

Photo	Student Name	University Rank
	J.MARIYA FAUSTINA	1
	V.DEVI SHRI	5
	R.RAMYA	7
	S.SARANYA	14
	K.JANANI	15

Conclusion

This academic year was good in terms of learning. Several events were organized, and incredible achievements were made, paving the way for us to reach greater heights. With the Lord's blessings and management's backing, the department was able to achieve excellence. Maintaining this energetic mood, we hope to continue the trend in the upcoming academic year.



BON SECOURS COLLEGE FOR WOMEN



Accredited with 'A++' Grade by NAAC
Affiliated to Bharathidasan University, Trichy
Recognized by UGC under section 2(f) & 12(B)
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DEPARTMENT OF COMPUTER SCIENCE & DATA SCIENCE

NEWS LETTER

November 2023



