

### 1. Seminar on Rapid Prototyping for Mobile UI – 13.10.2023

The Departments of Arts and Computer Science, in collaboration with IQAC, organized a seminar on October 13th, 2023, for first and second-year BVA, BA, and BCA students. The event focused on Rapid Prototyping for Mobile UI, design elements, Adobe XD, Figma, UI/UX materials, and career opportunities in design. Interactive sessions and feedback collection facilitated student engagement and skill enhancement. Participants showcased strong critical thinking and a thorough understanding of mobile application UI design. The event concluded with certificate distribution, recognizing students' efforts and participation, and left attendees with valuable insights into design and prototyping tools.

### 2. "Let's Know " (Video Production), Design a Perfect Masthead( Workshop) 13.10.2023

The Departments of Arts and Computer Science, in collaboration with IQAC, hosted a seminar on October 13th, 2023, for first and second-year BVA, BA, and BCA students. The session focused on masthead design, covering Adobe InDesign, offset printing materials, and career opportunities, bridging traditional and digital design practices. Interactive discussions enhanced participants' understanding of masthead design for print media, such as newspapers and magazines. By including BCA students, the seminar highlighted the interdisciplinary nature of design in the digital age. Certificates were awarded to students for their active participation, encouraging their skill development and engagement.

### 3. Seminar on IOT in Day to Day applications 6.1.2024

The Department of Computer Science, in collaboration with IQAC, organized a seminar titled "IoT in Day-to-Day Applications" on January 6, 2024, from 11:00 AM to 3:00 PM, for I and III BCA students. The session was conducted by Mr. Gokul Kumar Vishwanathan from Hysteresis Pvt. Ltd., Pune. The seminar explored the practical and theoretical aspects of IoT, highlighting its everyday applications and recent

advancements. Mr. Vishwanathan provided valuable insights into IoT project design, including coding tips to enhance technical skills. With over 100 enthusiastic students actively participating, the event offered practical knowledge and career guidance, receiving highly positive feedback.

#### 4. International Webinar on Software Engineering Ethics – 13.01.2024

The Department of Computer Science, in collaboration with IQAC, conducted an International Webinar titled "Software Engineering Ethics" on January 13, 2024, from 11:00 AM to 12:00 NOON. The session saw active participation from over 100 BCA students, international students, and 16 working professionals worldwide. Led by Ms. Indhurani Kanagaraj, the webinar explored key aspects of software engineering ethics, practical responsibilities, and recent developments in the field. Participants gained valuable insights and practical tips for navigating ethical challenges and enhancing their technical skills for real-world IT roles. The event received enthusiastic feedback for its engaging and informative content.

#### 5. Seminar on R Programming 8&9.2.2024

On February 8th and 9th, 2024, the Department of Computer Science, in collaboration with IQAC, successfully conducted a two-day online seminar on "R Programming Concepts with a Focus on Data Visualization" for BCA students. The sessions took place from 7:00 PM to 8:00 PM each day, with Mrs. Sweetly Singh, a seasoned professional in the field, serving as the resource person. The seminar aimed to provide students with practical skills, bridging the gap between academic knowledge and real-world application. Mrs. Singh's expertise enriched the learning experience, focusing on data visualization techniques using R programming.

#### 6. **Dual Cyber Security & Ethical Hacking / Blockchain Technology – 2.5.2024**

The Department of Science and the Department of Computer Science, in association with IQAC/IIC, organized a seminar on **Cyber Security & Ethical Hacking /**

**Blockchain Technology** on May 2, 2024. The event aimed to equip participants with knowledge of cyber security principles, ethical hacking techniques, and blockchain technology. It featured expert-led sessions, hands-on labs, and interactive discussions. Topics covered included network scanning, vulnerability assessments, and penetration testing using tools like Nmap, Wireshark, and Metasploit. Blockchain concepts such as structure, types, and consensus mechanisms like PoW and PoS were also discussed. A total of 144 students participated, gaining practical insights and skills. The seminar concluded with a Q&A session, addressing emerging threats, future trends, and blockchain implementations.

#### 7. National Level Seminar - Bits to Brilliance

The Department of Computer Science hosted a national-level seminar "Bits to Brilliance: Exploring the Frontiers of AI" from May 13th to May 16th, 2024. The event was conducted online, with participants joining via Google Meet and YouTube from across the country. All BCA students attended.

##### **Day - 1 (13.5.24)**

- **Resource Person:** Dr. Jeeva Joseph, Associate Professor, BPC College, Piravom, Kerala
- **Title:** "Machine Learning: Empowering Intelligence, Transforming Tomorrow."
- The seminar covered foundational Machine Learning concepts, real-world applications, emerging trends, and ethical considerations.

##### **Day 2 (14.5.24)**

- **Resource Person:** Dr. Reshmi K.R, Assistant Professor, CHRIST (Deemed to be University), Bengaluru
- **Title:** "The Future of Programming - Prolog using AI"
- Focused on Prolog's role in symbolic AI, technical advancements, and ethical considerations.

##### **Day 3 (15.5.24)**

- **Resource Person:** Dr. Neetha Thomas, Assistant Professor, Santhigiri College of Computer Science, Thodupuzha, Kerala
- **Title:** "Synergizing Big Data and AI: Illuminating Insights"
- Addressed the data analytics lifecycle, technical processes, and ethical considerations.

#### **Day 4 (16.5.24)**

- **Resource Person:** Mr. Vivin Karthik, Senior Machine Learning Engineer, Tiger Analytics, Hyderabad, Telangana
- **Title:** "Creative Intelligence: Exploring Generative AI"
- Focused on generative AI's creative potential, ethical challenges, and future possibilities.

#### **8. 2-Day Workshop on Powering SAP BTP – 16,17 .05.2024**

The Department of Science and the Department of Computer Science, in association with IQAC/IIC, organized a **2-Day Workshop on Powering SAP BTP** on May 16–17, 2024. The workshop aimed to provide insights into SAP BTP, its components, benefits, and applications in modern businesses. Mr. Harsha Vardhan Singh from WIPRO led the sessions, emphasizing SAP BTP's role in digital transformation by integrating data management, analytics, and intelligent technologies. Students gained hands-on experience in building applications, managing data, and leveraging analytics for business insights. A total of 144 students actively participated, engaging in discussions and practical exercises. The workshop concluded with a Q&A session, clarifying concepts and enhancing participants' understanding of SAP BTP.

## 1. A seminar on Winner's Strategy – 16.08.2022

The Department of Computer Science, in collaboration with IQAC, hosted a seminar on Winner's Strategy on August 16, 2022, from 9:15 AM to 3:30 PM for the NEP Batch 2022–26 BCA students. Ms. R. Sruthi, Assistant Professor at Santhigiri College, Kerala, led the session, highlighting the importance of strategy as a coordinated set of decisions for success. She introduced the NEP syllabus and first-semester subjects while discussing postgraduate options like MIM, MCM, MBA, and MCA for BCA graduates. Ms. Sruthi outlined career opportunities, salary packages, and self-paced learning resources like W3Schools and Tutorial Point for Java, C++, Python, and ASP. She also explained Bloom's Taxonomy, covering key skills—create, evaluate, analyze, apply, understand, and remember. The afternoon session focused on network basics, providing insights into core networking concepts.

## 2. A Seminar on Introduction to MS-Office Tools

On August 17, 2022, from 9:15 AM to 3:30 PM, the Department of Computer Science, in collaboration with IQAC, organized a one-day seminar on MS-Office Tools for the NEP BCA Batch 2022–26. Mr. Rajeev P R, Assistant Professor at MEC College, Nedumkandam, led the session. He covered resume preparation, document formatting, mail merge, inserting tables, pictures, and hanging paragraphs in MS Word, along with useful shortcuts. In MS Excel, he explained formulas, charts, auto filters, pivot tables, and macros with examples. The session also demonstrated MS PowerPoint, focusing on creating presentations, animations, and adding sound and video. Students gained practical insights into essential MS-Office tools for academic and professional use.

### 3. Workshop on Campus to Corporate Orientation

On August 18, 2022, the Department of Computer Science, in association with IQAC, organized a guest talk on “Campus to Corporate” from 9:15 AM to 3:30 PM for BCA NEP Batch 2022–26 freshers. Mr. Abdul Kareem, Lead Software Engineer at JP Morgan Chase & Co., Bangalore, delivered the session. He discussed career goal setting, interview preparation, and skill development for corporate success. Emphasizing leadership qualities, he highlighted strategies to excel in the professional world. The talk focused on bridging academic knowledge with industry practices and preparing students for career growth. It offered practical tips to enhance confidence and employability. The session concluded with an interactive Q&A, allowing students to clarify doubts and gain insights.

### 4. Better world Tomorrow

On August 19, 2022, from 2:00 PM to 3:30 PM, the Department of Computer Science, in collaboration with IQAC, hosted an event titled "For a Better World Tomorrow" with the theme of sustainable development for BCA NEP Batch 2022–26 freshmen. Students shared views on water scarcity, resource utilization, ecological balance, and human rights through drawings, poetry, and role-plays. Presentations highlighted the importance of sustainable development and addressed its social, cultural, environmental, and ecological aspects. Some emphasized the 17 UN Sustainable Development Goals and their relevance to future generations. Ms. S. Athilakshmi, HoD, emphasized sustainability as achieving human-ecosystem balance. The event received enthusiastic participation and positive feedback.

### 5. 5 Days Online Workshop On Flutter And Android App Development

The Department of Computer Science, in association with IQAC, organized a 5-day online workshop on "Flutter and Android App Development" from December 5 to 9, 2022. The workshop was conducted for all BCA students of the college and was led by Mrs. Sweety Singh, Faculty of Computer Science at Army Public School, Meerut. The session was inaugurated by Ms. Athilakshmi S, HoD of Computer Science, with support from the Principal, faculty members, and BCA students. The workshop, held from 6:00 PM to 8:00 PM via Zoom, focused on the fundamentals of Flutter and Android app development. It covered topics like Material Design, layout and animations, and the use of Android Studio for testing applications. Mrs. Singh also demonstrated the creation of multiplatform apps using the Flutter Material App widget, guiding students step by step through the installation process and basic app development. The event received positive feedback and was successfully concluded.

#### 6. Workshop On Learn to code using C

On January 17, 2023, from 9:30 AM to 12:15 PM, the Department of Computer Science, in association with IQAC, conducted a workshop on "Learn to Code Using C" for all BCA students. The resource person, Ms. Maheswari Jagadeesh, an Application Developer at Accenture, Chennai, explained the fundamentals of C programming. She demonstrated nested looping structures, focusing on nested for loops to print patterns. Through simple problems and examples, Ms. Jagadeesh showcased how to code in C and provided hands-on assistance to students. The interactive session helped students strengthen their programming skills and understand core coding concepts.

#### 7. Workshop On C# and Dot Net Industry Perspective

On January 17, 2023, the Department of Computer Science, in collaboration with IQAC, organized a two-hour workshop on “C# and Dot Net - Industry Perspective” for all BCA students at Christ College of Science and Management. The workshop aimed to bridge the gap between industry practices and the academic curriculum, focusing on software development basics using C# and Dot Net. Hosted by Rev. Fr. Jince George CMI, Principal, the session emphasized how classroom concepts are applied in the industry. The resource person engaged students by discussing real-time applications and provided examples of how industry uses the concepts taught in the curriculum. The interactive workshop helped students gain insights into industry-relevant skills and their real-world applications.

#### 8. Seminar On Tech Stimuli Computer Technology Students

On January 18, 2023, the Department of Computer Science, in association with IQAC, organized a seminar titled “Tech Stimuli for Computer Technology Students” for all BCA students. The seminar was led by Mr. Gokul Kumar Vishwanathan, a Web Developer and Data Scientist at Hysteresis Pvt Ltd, Pune. The session covered the latest developments in various IT fields and career opportunities, offering valuable insights for students' job search. Mr. Vishwanathan also discussed the degree and curriculum requirements for becoming an industry-ready professional. Additionally, the seminar provided guidance on research paper writing, helping students improve their research and article writing skills. Over 110 BCA students participated, gaining essential knowledge for their future careers.

#### 9. Workshop On Exam Preparation



The Department of Computer Science, in collaboration with IQAC, organized a Workshop on Exam Preparation on February 4, 2023, from 2:00 PM to 3:30 PM, for first-year BCA students (NEP Batch 2022-26). Held in the First Year BCA Classroom, the session aimed to provide guidance on exam procedures, rules, and regulations. Ms. S. Athilakshmi, Head of the Department of Computer Science, discussed effective exam-writing strategies and preparation techniques. Mr. Anuraj A, Assistant Professor and Coordinator of the Centre for Examinations, outlined university exam procedures and rules. The workshop focused on learning resource organization, study planning, and time management, equipping students with tools to excel in exams.

#### 10. Seminar on Know about IISc

The Department of Computer Science, in collaboration with IQAC, hosted the "Know About IISc" seminar on March 3, 2023, to provide an overview of the Indian Institute of Science, its academic programs, departments, and research. The seminar, presented by II- & III-Year BCA students, served as a preparatory session for the Open Day field visit to IISc on March 4, 2023. Students were divided into 12 teams with 4 members each, assigned topics in advance, and received feedback on March 2, 2023. Presentations were evaluated based on content clarity, slide design, team coordination, and effective use of details. The event proved informative and enhanced students' understanding of IISc's contributions to research.



### 1. Five Days Ultimate PHP Workshop Training

A Five-Day Workshop on Web & PHP was organized by the Department of Computer Science, Christ College of Science and Management, in collaboration with IQAC, from 27th to 31st December 2021, for final-year BCA students. The workshop aimed to enhance project development skills and application design. Ms. Karina (III BCA) began with Covid-19 awareness and protocol reminders, followed by a welcome address by Ms. Athilakshmi S, HOD, and a presidential address by Rev. Fr. Jince George CMI, Principal. The sessions were led by Ms. Shruthi R, Assistant Professor, Dept. of CS. Day 1 covered HTML basics, XAMPP installation, and coding practices. Day 2 introduced CSS with examples, while Day 3 focused on CSS, JS, Bootstrap, and header tags. Day 4 covered MySQL, PHP, server-side, and client-side scripting. Day 5 concluded with a login page project using PHP, HTML, CSS, JS, and Bootstrap. Interactive Q&A sessions and demonstrations enriched the experience, ending with a valedictory session.

### 2. Workshop On Project Induction - 2022

A one-day workshop on “Project Induction – 22” was organized by the Department of Computer Science, Christ College of Science and Management, in collaboration with IQAC, on 3rd January 2022, for final-year and second-year BCA students. The workshop aimed to promote all-round development, enhance logic skills, and provide domain knowledge for project creation. It was divided into two sessions. The morning session assessed programming skills, introduced project ideas, and covered RDBMS concepts, web programming, and frameworks. The afternoon session focused on selecting programming languages, databases, IDEs, and hosting platforms, followed by discussions on choosing project domains. Rev. Fr. Jince George CMI, Principal, encouraged students to aim for placements before graduation. The interactive workshop, supported by faculty and students, proved effective and insightful.

### 3. Code Optimization and best practices in Server side coding

The Department of Computer Science organized a Guest Talk on “Code Optimization and Best Practices in Server-Side Coding” by Mr. Simon Sebastian, Senior Software Engineer, Tech Machinery Labs, Bengaluru, on January 10, 2022, for II and III-year BCA students. The session began with a prayer song by Ms. Angel Anto, followed by an introduction of the guest. Mr. Simon discussed his role in a start-up and shared insights on coding practices, project phases, and requirements gathering. He emphasized optimizing code for time and memory efficiency, explained static code analysis tools like Sonarlint, and highlighted intuitive designs. He introduced concepts like service-oriented architecture, Axon frameworks, microservices, and tools such as Flask and Bubble.io for web development. The session concluded with a Q&A and a felicitation of the guest.

#### 4. Expert Lecture On Digital Fluency

The Department of Computer Science, in association with IQAC, organized an expert lecture on “Digital Fluency” by Mr. Abdul Kareem, Lead Software Engineer, JP Morgan Chase & Co., on February 4, 2022, via Zoom for all first-year UG students. The program began at 10:00 AM with a welcome address by Ms. Rekha (III BCA) and a presidential address by Rev. Fr. Jince George, CMI, Principal. Mr. Abdul Kareem conducted an interactive session using tools like Menti.com to engage students. He introduced databases, DBMS, tables, entities, and ER diagrams, explaining concepts in simple terms for better understanding. He discussed data analytics, its role in marketing and planning, Big Data, and visualization tools like Excel, Python, and R Programming. The session concluded with a Q&A, vote of thanks, and feedback form, enabling participants to receive certificates.

#### 5. IPR For All

The Department of Computer Science and Intellectual Property Rights (IPR) Cell, in association with IQAC, organized a webinar on “IPR For All” on February 4, 2022, for all staff and students of Christ College of Science and Management. The event also marked the inauguration of the IPR Cell, with Dr. Balaji Devarajan, Head, Centre for IPR, KPR Institute of Engineering & Technology, Coimbatore, as the Chief Guest. The program began with a silent prayer, followed by a welcome address by Ms. Sahana V (III BCA).

Rev. Fr. Jince George CMI, Principal, officially inaugurated the IPR Cell and highlighted its role in promoting start-ups and protecting intellectual property.

Dr. Balaji Devarajan delivered an engaging session on creative and critical thinking, innovation, and the importance of intellectual property rights in safeguarding ideas. He emphasized building brand identity, securing copyrights, and patents as essential steps in today's competitive world. The session concluded at 4:30 PM and was well-received by all participants.

#### 6. Workshop on Hardware and OS Installation

The Department of Computer Science organized a Workshop on "Hardware and Software Installation" on March 22, 2022, for I and II-year BCA students. The resource persons were Mr. Anuraj A, Assistant Professor, and Mr. Anand K, System Administrator, Christ College of Science and Management. The workshop, held in the I BCA classroom, began at 10:00 AM with an introduction to hardware components, processors, and RAM. Mr. Anand explained hardware basics, while Mr. Anuraj demonstrated assembling and disassembling computer components. The session provided insights into troubleshooting and installation processes. A total of 49 participants actively engaged in the hands-on session, which concluded with an interactive Q&A session.

#### 7. One week Crash course on Operation Research

A one-week crash course on "**Operations Research**" was organized by the **Department of Computer Science** for second-year BCA students of **Christ College of Science and Management** in collaboration with IQAC from **25th May to 2nd June 2022**. The course aimed to teach students the methodologies and techniques of **Operations Research (OR)** to solve operational problems without requiring advanced mathematics. The course covered various OR techniques, including **Linear Programming (LP)** and **Game Theory**. On **Day 1**, students learned **Linear Programming** and problem-solving using the graphical method. **Day 2** focused on the **Simplex Method** for solving LP problems. **Day 3** introduced solutions for **three-variable problems** using the Simplex Method. **Day 4** covered **Network Analysis** and the **Critical Path Method (CPM)**, and **Days 5 and 6** expanded on **CPM** and its special applications in project management. The course concluded with an introduction to **Game Theory** to address problems in **stochastic environments**. The crash course was highly interactive and effective, offering

students a practical understanding of the techniques. It was coordinated with the support of the **Principal, HOD**, and faculty members.

#### 8. Online Seminar on Unix Programming

An **Online Seminar on Unix Programming** was conducted on **18th June 2022** by **Vivin Karthick** for the students of the **Department of Computer Science** at **Christ College of Science and Management**. The seminar aimed to introduce students to the fundamentals of Unix programming and its importance in the world of software development. The session covered various aspects of Unix, including its **file system, commands, and shell scripting**. Vivin Karthick provided an in-depth understanding of how Unix commands are used to manipulate files and manage system resources efficiently. The seminar also focused on **shell programming**, where participants learned how to automate tasks and write scripts for system operations. Students were encouraged to explore **Unix utilities** and their practical applications in real-world scenarios. The session was interactive, with students actively participating in discussions and Q&A. It was a valuable learning experience for the students, enhancing their understanding of Unix and its applications in programming.

#### 9. one-day workshop on Software Development - Industry Perspective

A **one-day workshop** on "Software Development - Industry Perspective" was organized by the **Department of Computer Science** for **second-year and final-year BCA and BSc (CS)** students of **Christ College of Science and Management** on **10th June 2022**, in collaboration with IQAC. The workshop aimed to provide insights into software development from an industry viewpoint and bridge the gap between curriculum and industry practices. The workshop was conducted in two sessions. The **morning session** focused on assessing students' programming skills, with discussions on **RDBMS, web programming basics, and frameworks**. The **afternoon session** covered topics like **choosing programming languages, databases, IDEs, and hosting**. A group discussion on selecting the **project domain** was held to help students make informed decisions. **Rev. Fr. Jince George CMI**, Principal, concluded the event by sharing his vision of students securing placements before course completion. The workshop was interactive, with support from the Principal, HOD, faculties, and students.

#### 10. A workshop on Idea Presentation Skills

A **workshop on Idea Presentation Skills** was organized by the **Department of Computer Science** on **30th June 2022**, with **Mr. Farooq Indikar** as the resource person. The session aimed to enhance students' ability to present their ideas clearly and confidently. Mr. Farooq began by discussing the key aspects of effective presentations, including structuring content and engaging the audience. He demonstrated how to use visual aids to support ideas and make presentations more compelling. Students participated in practical exercises to apply the techniques discussed, receiving valuable feedback. The importance of body language, voice modulation, and creating impactful openings and closings was also emphasized. Interactive discussions allowed students to address specific concerns. The workshop concluded with a Q&A session, helping students further refine their skills. This session was beneficial in boosting students' presentation confidence, preparing them for future academic and professional challenges.

#### 11. Gateway to IT

The Department of Computer Science organized a workshop on **"Gateway to IT"** by **Mr. Simon Sebastian**, Senior Software Engineer, Tech Machinery Labs, Bangalore, Karnataka, on **June 24, 2022**. The workshop was conducted for all **BCA students** of the college. The program began at **09:00 AM** with a welcome address by **Ms. S Athilakshmi**, Head of the Department. Mr. Simon Sebastian discussed **challenges in securing IT jobs** and shared **strategies for preparation**. The morning session ended at **12:15 PM**. The **afternoon session** started at **01:00 PM**, focusing on **Python programming** and its **industrial applications**. Students engaged in **hands-on coding exercises** to grasp Python concepts. The session concluded at **03:30 PM** with **assignments** to reinforce learning.

#### 12. Seminar On Java for Development

The Department of Computer Science organized a seminar on **"Java for Development"** by **Ms. Sruthi R**, Assistant Professor, Santhigiri College, Vazhithala, Idukki, Kerala, on **August 17, 2022**. The session was conducted for all **BCA students** of the college. The program began at **09:00 AM** with a welcome and introduction of the resource person.

Ms. Sruthi R started with an overview of **Object-Oriented Programming (OOP)** and explained how **Java** incorporates OOP concepts. She discussed **industry tools** and the practical applications of Java in software development. Key topics included **Java techniques** and their real-world implementations. The session emphasized applying Java skills in the **IT industry**. Students gained insights into **modern programming practices** and tools. The seminar concluded by **10:15 AM**.

### 13. Seminar on Overview of model view controller

The Department of Computer Science organized a seminar on “**Overview and Usage of Model View Controller**” by **Ms. Sruthi R**, Assistant Professor, Santhigiri College, Vazhithala, Idukki, Kerala, on **August 17, 2022**. The session was conducted for all **BCA students** of the college. The program began at **10:45 AM** with a welcome and introduction of the resource person. Ms. Sruthi R explained the **framework concepts of MVC** and its role in software development. She provided **practical examples** of MVC and demonstrated its use in **industry applications**. The session highlighted how MVC simplifies **software design** and improves **programming efficiency**. Techniques to integrate MVC concepts into **real-world projects** were also discussed. Students gained insights into **modern development practices**. The seminar concluded by **12:15 PM**.