Department of Computer Applications Report 2019-2020

1. Seminar on Intelligence

On 28th of January 2020 department of computer science hosted Seminar on the topic intelligence. It was pre-dominantly only for the student of Computer Science. The Seminar was inaugurated at our esteemed institution SADC, followed by key note session by Azharuddin (Student of III BCA). He introduced to us the guest speaker. To conduct the seminar, one of the distinguished and a magnificent scholar in the field of Space Science, and a well-known Scientist Dr. Arun D.I from ISRO had come.

Dr. Arun D.I broke the ice by initial greetings, gave a glimpse of his caliber and shared his knowledge with us. The Seminar was very interactive. He Spoke about Artificial Intelligence Machine Learning, Deep Learning Vayommitra Space friend astronaut (Humanoid)], Intelligent materials, 4D Materials. He imported enormous knowledge to us. In the form of PPT, he made the session even more delightful. Soon after his presentation, we had discussions and students interacted with the speaker clarifying their many doubts by asking very interesting questions which made the session even greater learning atmosphere.

The Seminar successfully ended by felicitation and concluded with it. The seminar was very useful, informative., Which instilled enormous knowledge to the students? We get the recent advancements in technology and the expectations from the young minds. The students loved the event as a whole.

Speaker Bio:

Arun DI is a Scientist at Vikram Sarabhai Space Centre, ISRO and is responsible for design and realization of composite overwrapped propellant tanks for electric propulsion spacecraft for ISRO missions. His area of research focuses is on smart materials and structures as a

replacement for the pyro-systems currently in use for deployment in spacecraft and other space-based applications. He has published a book titled SHAPE MEMORY MATERIALS with CRC Press, Taylor & Francis group which addresses the basic principles, synthesis/fabrication and applications of smart materials, specifically shape memory materials. In addition to the book, he has generated many research articles about shape memory materials (both theoretical and experimental) which are published with popular refereed journals. His bachelor degree is in Civil Engineering(CET,Trivandrum) Masters in Project management (IIT, Delhi) and Ph.D. is in the field of Aerospace Engineering (Investigations on Electro-Active Shape memory Polymer Nano composites).

2. Photoshop Seminar

Date: 25th January 2020

Adobe Photoshop is an awesome and most popular and powerful professional photo editing software, drawing, painting and making 3D models .It is also used to   A very simple environment with the same charm and superb performance and it supports almost all existing video formats, High quality and low-resolution HDR quality, 3D image design, An animation design that has been added to the new version completely, Display colors with different criteria, Separate colors easily, Multi-color combinations to get the desired color, Effects, filters, incredibly beautiful brushes and many more, Ability to zoom into high-resolution images,

In this seminar discussed about the raster and vector images and how to reduce the size of images and basic features and tools about Photoshop.

Speaker Bio:

Mr. Ciju Kurian Mathew is a Senior Design Manager at Artizen Pvt.Ltd,Bangalore.He has 20 years of experience in design field. He has done many projects for IT industries and Hotels. He did his Bachelor degree (Product Design) from National Institute of Design(NID),Paladi, Ahmedabad.

3. Report on Intercollegiate Events

"You cannot fail without your consent; you cannot succeed without your Participation".

-Rob Thomas

Intercollegiate events serve as a base to display and discover the talents of students. The students from the Department of Computer Science actively participated in the IT fests conducted by Charans Degree

College and St. Joseph's College.

On 8th of February, Charans Degree College conducted its annual IT Fest "# 2020", the students from the department of Computer Science participated in huge numbers, participants from St. Aloysius Degree College managed to clear prelims of all the events and Qualified for the next round.

In the personality contest called IT Manager, out of six Participants who qualified for the final round, three were from St Aloysius Degree College, namely Arun Kumar E, Augustine, Valluvan.

As a result of hard work and High Competitiveness, Arun Kumar E and Infant Raj of III BCA bagged the 1st place in IT Quiz with a cash Prize of Rs.1500, also Manoj and Immanuel of II BCA won second place in IT Connections.

4. SYNTAXIA 2020

Syntaxia is an Intercollegiate IT Fest conducted by St. Joseph's College on 11th of February 2020, the students from the Department of Computer Science participated in the same. The participants lived up to the expectations again and managed to qualify to the final rounds of four events out of the eight.

Pavan Kaylan and team managed to secure the #3 rank in PUBG event, Augustine and team reached the semi-finals in Call of Duty. Arun Kumar E and Allan Peter of III BCA bagged the 2nd place in IT Quiz, also Arun Kumar E and Infant Raj won 3rd place in Coding event.

Both of these fests served as a platform to improve on the IT skills of the students and also gave an exposure of the high competitiveness in the IT world.

5. Report on "TECHATHON" – 2020

The Department of Computer Science always known for its innovation and creativity, embarked on a new venture this academic year by unveiling its Interclass IT fest TECHATHON – 2020.

The fest was inaugurated by the principal Sr. Philomena Cardoza and manager Fr. Vinoo Fabien,

The fest was conducted over the span of four days from 21/01/2020 to 24/01/2020. Techathon was designed to test all aspects of Student life, IT Quiz, IT Crossword, and IT Manager were conducted to test academics and problem solving skills, whereas IT Strings and Dumb Charades were designed to test Creative thinking and presence of mind. Treasure Hunt was a filler event conducted to bring in the aspect of Entertainment and Fun.

The fest saw active Participation by students from across all streams in the college, the Overall Participation for all events was approximately 160. IT Quiz saw the highest participation of over 40 students. IT Manager saw a record participation of 16 for such an event in the college.

Although it was a computer science fest, the Organizing committee were of the resolve to get students from all departments to participate, hence almost all events were designed to be general IT. The organizing committee comprised of Students of the computer science association, especially the final year students.

The lead co-ordinators for the fest were Arun Kumar E and Allan Peter of III BCA. All Volunteers were from III BCA. The judge's panel comprised of teachers from all the departments.

The Department was highly appreciated for its innovative ideas for the fest and also for the neat Organization of the 4 day long fest.

6. ADD-ON COURSES

Through the ADD-ON courses, the college aims at imparting job skills to the students through various certificate programmes, thus enabling them to acquire an additional certificate along with their Degree certificate. Students can pursue them along with their regular Degree Programmes as it is a short-term course.

MICROSOFT OFFICE SKILLS COURSE ON MS-WORD, MS-POWERPOINT AND MS-EXCEL

The department of computer science in partnership with HOPE FOUNDATION, a non-sectarian charitable institute, conducted a 60 hour course during the month of august and September, 2019 for all the final year students, on Microsoft office-

word, power and excel, training the students to acquire basic skills in computer usage and soft skills are often required in today's workplace and social exchange

Learning objectives for these classes state the desired outcomes, such as improved confidence in technology use and increased awareness of opportunities afforded to individuals with computer application skills

AI COURSE: MICROSOFT ARTIFICIAL INTELLIGENCE TRAINNING PROGRAMME

With the advancement in technology, the competition in market today has grown exponentially.

To equip the students with better technical and soft skills, St Aloysius Degree College in partnership with Hope Foundation and Microsoft is conducting the Artificial Intelligence course for the final year students of the academic year 2019-2020.

The inauguration of the same took place on 24/01/2020, the chief guest was Mr. Chandrasekhar, director of Hope Foundation from Delhi.

The course began on 3/02/2020 and will be conducted for a span of 6 months along with final year students from Computer science Department of St Aloysius Degree College, the course is open to neighboring colleges as well.

RBANMS and Scared Heart's College have collaborated in sending their students for this ADD-ON course This course will help students improve and enhance their ability to accomplish coding skills in python, CSS, HTML and Java Script with an experience in live projects and industrial visit. Excellent faculty from Hope Foundation and Microsoft, Mr. Sunil and Ms. Swetha are handling the sessions.

7. <u>One day orientation workshop for NET/SLET EXAMINATION</u>

Date: 19th October 2019   **Time: 9: 00 am to 4: 30 pm**

The aim of this workshop is to equip the students and faculty on the various aspects needed to face the NET exam. All the Students and Faculty were provided with Question banks with key answer for reference, for all the subjects. The study material was provided for all the subjects.

The workshop was conducted across multiple sessions throughout the day, which included Introduction to NET/SLET exams, Mock Test on General Paper I and also on specific subject paper based on participant.

Google classroom technology was used to conduct the mock test, members of the teaching fraternity and Students took the mock test. Various colleges Faculties and Post Graduate students participated the workshop.

Speaker : Dr,Vinaychandran(Pondicherry university).

ST ALOYSIUS DEGREE COLLEGE AND CENTRE FOR POST GRADUATE STUDIES
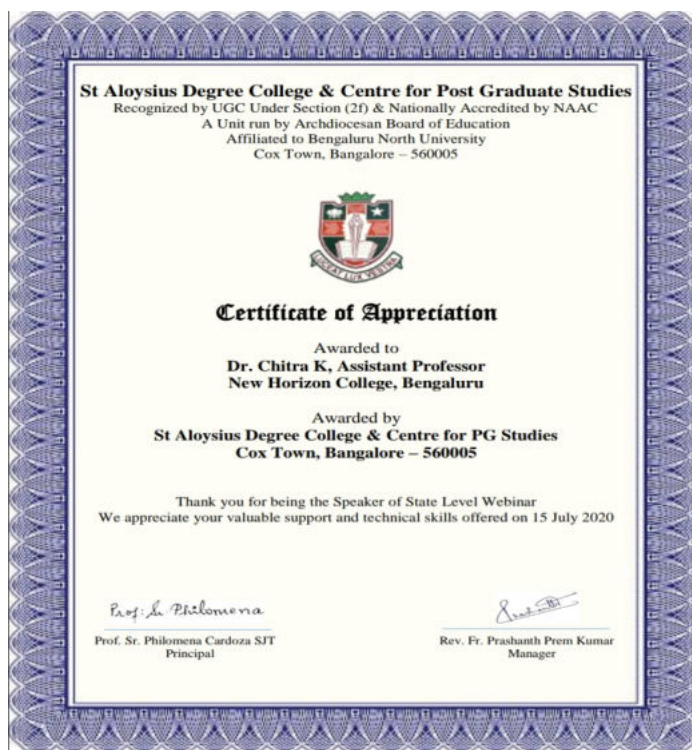
DEPARTMENT OF COMPUTER SCIENCE

Annual Report 2020 -2021

Webinar on "**Overview of Microprocessors, Compilers and Loaders**"

The Department of Computer Science organized a webinar for the final year students under Bangalore University pursuing the subject System Programming. The agenda of the webinar was to educate the students on the importance of the subjectSystem Programming which involves designing and writing computer programs that allow the computer hardware to interface with the programmer and the user. The speaker of the session was DrChitra K,Assistant Professor from New Horizon College, Kasturinagar. The session was held on July15, 2020 using the platform Google Meet at 11.00 a.m. with 82 participants from various Colleges.

The speaker focused on the following topics in her session: Components of Micro Processor, concept of macros, MTD (Macro table definition), Argument list arrays, Loaders, compile and go loaders, types of cards etc. The session was highly interactive with brainstorming question and answer session in the end. All the participants were given a E-certificate after filling a feedback form. The speaker thanked the College for the opportunity given to address final students from various Colleges.

The speaker received a certificate of appreciation from the College for her distinguished effort. Students from the following Colleges (New Horizon College Marathahalli, Rbanms, Scared Heart's and St Aloysius Degree College) expressed their gratitude and thanked the speaker for sharing her presentation slides to all the participants.

St Aloysius Degree College & Centre for Post Graduate Studies
Recognized by UGC Under Section (2f) & Nationally Accredited by NAAC
A Unit run by Archdiocesan Board of Education
Affiliated to Bengaluru North University
Cox Town, Bangalore – 560005

Certificate of Appreciation

Awarded to
Dr. Chitra K, Assistant Professor
New Horizon College, Bengaluru

Awarded by
St Aloysius Degree College & Centre for PG Studies
Cox Town, Bangalore – 560005

Thank you for being the Speaker of State Level Webinar
We appreciate your valuable support and technical skills offered on 15 July 2020

Prof. Sr. Philomena Cardoza SJT
Principal

Rev. Fr. Prashanth Prem Kumar
Manager

Saranya M
Asst Professor, Dept of Computer Science
St Aloysius Degree College

Career Guidance Program for Final Year BCA Students

DEPARTMENT OF COMPUTER SCIENCE

Date – 11-08-2020

Time – 10.00 a.m.

Venue – Audio Visual Room

Participants – Final Year BCA Students

Trainer's Name – Mr Chaitanya, Software Developer, SS Opal Solutions

The final year students of St Aloysius Degree College were given a platform for a brainstorming session with Senior Software developer Mr Chaitanya, a Cyber Security Professional, Developer and a practitioner having 6+ years of IT Industry experience in multiple domains. The students of our College were briefed on the various advancing web based concepts.

A freelance trainer and a consultant who has delivered technical seminars across Colleges in Bangalore and was active in market from the past 4+ years in the training industry. Proficient IT Skills include Application Security, Web Development, Cloud, Java, .NET & Python are of his strong hold. A certified professional holding various certifications (CEH, MTA, MCP) which showcases the abilities that one can have in different domains.

The students learnt

a) Efficient Designing and Coding Skills
 b) Developing good Analytical skills for problem solving techniques (Artificial Intelligence)
c) An approach to Scrum based model.

Technical Presentation Contest

DEPARTMENT OF COMPUTER SCIENCE

Date	15-12-2020
Time	12.30 p.m.
Venue	Computer Science Lab
Participants	I/II/III Year BCA Students

The Students of BCA were given a platform to showcase their presentation skills on Technical concepts such as Software Engineering, Digital Electronics, Computer Architecture and Visual Programming. The participants were judged on various presentation criteria's and ranked accordingly.

- To inculcate the art of preparation, presentation and practice of verbal and non-verbal communication.
- To develop means of communication that can be adapted to various speaking situations, such as talking to a group, addressing a meeting or briefing a team.
- To be effective, step-by-step preparation and the method and means of presenting the information should be carefully considered.

The Winners of the Event are:

Sl No	Student Name	Class
1	Arun Kumar E	III BCA
2	Allan Pedro	III BCA
3	Yuvashri	II BCA

ST ALOYSIUS DEGREE COLLEGE &CENTRE FOR POST GRADUATE STUDIES

ANNUAL REPORT ON COMPUTER SCIENCE DEPARTMENT 2021-2022

The Department of Computer Applications aims at producing BCA graduates by imparting technical knowledge and fostering practical skill set empowering students to meet the emerging trends. We create high quality software professionals by allowing our students think beyond academics making them understand the societal, environmental and moral values and its impact with respect to computing, communication, literary and professional practice.

Social Awareness Programme

The Department conducted 'AIDS AWARENESS PROGRAMME' on 30th November 2021 to spread awareness to curb the virus. The resource person Ms Aghatha Shekar, senior programme officer INSA INDIA addressed our students and promoted the theme of World AIDS Day 2021 "**End inequalities. End AIDS".**

TECHKATHON-Departmental Fest

The Department of Computer Applications conducted an academic inter departmental fest called **TECHKATHON** on the 10th and 14th of December. Final year BCA students organised the events coordinated by the faculty of Computer Science Department. The following are the events.

1. **IT Connections:** The event had huge number of participants it had three rounds. It was pictorial event with time constraints
   The winners are:

Sl. No	Name	Class	Winners
1	David and Gnana Praveen	II BCA	1st prize
2.	Deepika and Jothika	III B.Com	2nd prize
3.	Dinesh and Teja	I BCA	3rd prize

2. **IT Quiz**: The event had many rounds with different type of questions optional, picture representation, company logo and slogan recognition and so on.
   The winners are:

Sl. No	Name	Class	Winners
1	Bhaskar and Damian	II BCA	1st prize
2.	David and Solomon	II BCA	2nd prize
3.	Vivian Anthony Das and Samuel Sundar	I BA	3rd prize

3. **IT Dumb charades:** The event had three rounds. Each team had two participants one participant enacted the word the other participant should guess the right word with time constraint
   The winners are:

Sl. No	Name	Class	Winners
1	Fredrick and Rathon Joseph	I BBA	1st prize
2.	Sathish and Rohith	II B.Com	2nd prize
3.	Purushoth and Gagan Kalyan	II B.Comm	3rd prize

BCA Students participate in Bangalore North University tournaments

Vinay M (I BCA) represented the College in Hockey tournament conducted by BNU on 29th Decembr 2021. Snehith V (I BCA) and Bhaskar GM (II BCA) participated in the cross country race organised by BNU held in Sulibele, Hoskote on 13th January 2022.

Seminar/Conferences attended by Computer Science Faculties

All the faculties attended a workshop on ICT TOOLS for online teaching and learning on 12th February 2022 conducted by GRV Business Academy. Mrs Saranya M and Ms Sunitha Participated in 2 days conference on 'Digital Business Innovation in Global Outlook -2022' organised by Ebenezer Management College in association with Bangalore North University.Mrs Saranya M, participated in 7 days International Level FDP onResearch perspectives on New Age Technologies from 3rd August to 10th August 2021.

Webinar on "THE RISE OF IOT"

The Department conducted a webinar on 17th February 2022 at 11.30 a.m.on "The Rise of IOT". The Speaker of the session Mr. Dhamodaran G, initiated the webinar by describing the basics of IoT. He covered various topics like Architecture of IOT, Purpose, driving factors of Iot, usage of IoT in simple terms, and its applications that are widely used. He demonstrated real time applications using Raspberry Pi in Python. The session was very interactive.

Inaugural of Artificial Intelligence Course

St. Aloysius Degree College started the Inaugural ceremony on "Artificial Intelligence using Python course" in collaboration with Hope Foundation on 28th June 2022 for final year BCA Students at 10.00 AM. The Students from Department of Computer Sciene attended the inaugural session. The dignitaries Dr. Sr.Sagayamary, Fr. Vinoo Fabian, Mr. Joseph, Mr. Augustine and Mr.Regan addressed the gathering followed by the lighting of lamp by Dr. Sagayamary B, Principal. Dr. Sr. Sagayamary gave the keynote address on the importance of AI course to the students and motivated the final year students to actively participate in the workshop and equip themselves to meet the industry needs.

Interclass Competition – TECHNO Z

Department of Computer Science conducted interclass events TECHNO Z on 3rd August 2022 in the Computer Science lab, the competitions were organised by II Year BCA students. The following events were conducted and there was active participation from other streams like B Com, BBA, BA and BSW.

Event Name – Technical Quiz: The event was coordinated by Mohammed Ayan Hussain it had three rounds to qualify for the finals it was very interesting to see students in great competitive spirit. The winners of the events are:

Sl. No	Name	Class	Winners
1	Snehith and Saalim Khan	I BCA	1st Prize
2.	Amaan and Akshay Arumugam	III BCom & BCA	2nd Prize
3.	Daniel and Derick	I BCA	3rd Prize

Event Name –Treasure Hunt: The event was coordinated by Mohammed Khurram. There were a huge number of participants. They had to solve riddles which was sent online to them and reach the destination first

Sl. No	Name	Class	Winners
1	Charles and Shoaib	II BBA	1st Prize

Event Name –IT Reels: The event was coordinated by the students of II year BCA. Reels were posted on Instagram
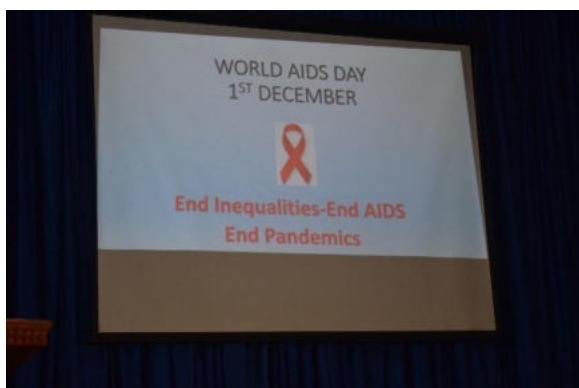The concept was work life of IT students.

Sl. No	Name	Class	Winners
1	Musadhik and Team	I BCA	1st Prize
2	Srikanth and Team	I BCA	2nd Prize

Internship Training for Project Work
The Department of Computer Science offered internship to two final year BCA students Valluvan and Dillbabu in a Software Company IROOTS located in Hennur Road. The CEO of the company Ms Ramya offered an internship for design and development. The students are working on real time project using PHP, the students will be given an opportunity to work as full time software developers after the internship duration.

GALLERY

SOCIAL AWARENESS PROGRAMME- "End inequalities. End AIDS".

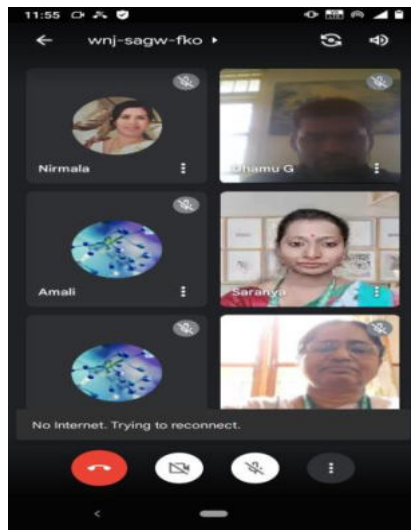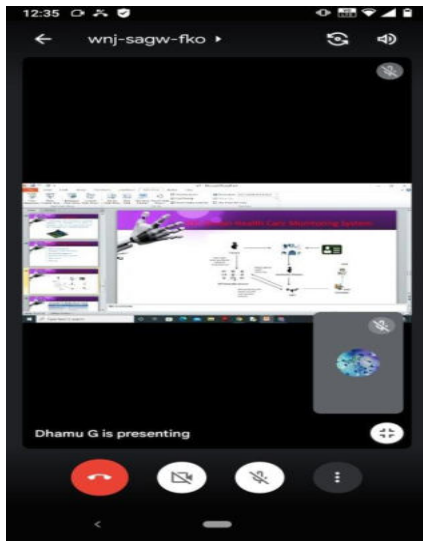**TECHKATHON -2021-2022 –DEPARTMENTAL FEST**

III BCA team organizers

BCA STUDENTS IN BANGALORE NORTH UNIVERSITY TOURNAMENTS
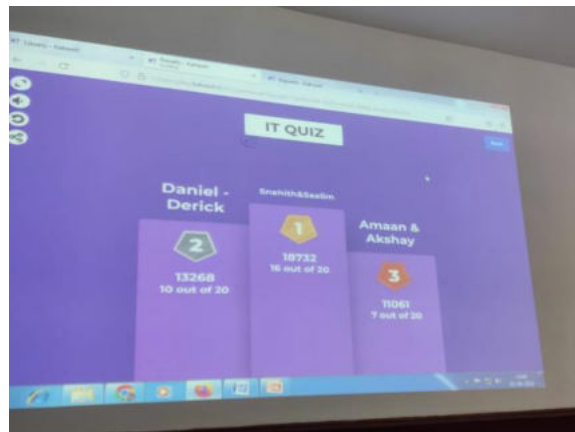
WEBINAR ON "THE RISE OF IOT"

INAUGURAL OF ARTIFICIAL INTELLIGENCE COURSE

Mr. Joseph and Mr. Augustine addressing the students

TECHNO-Z 2022-2023-INTERCLASS COMPETITION

IT-Quiz-Winners

DEPARTMENT OF COMPUTER SCIENCE

ANNUAL REPORT 2022- 2023

TECHNO Z - INTERCLASS COMPETITION

St. Aloysius Degree College, Department of Computer Science conducted interclass events TECHNO Z on 3rd August 2022 in the Computer Science lab, the competitions were organized by II Year BCA students. The following events were conducted and there was active participation from other streams like B Com, BBA, BA and BSW.

Event Name – Technical Quiz

The event was coordinated by Mohammed Ayan Hussain it had three rounds to qualify for the finals it was very interesting to see students in great competitive spirit. The winners of the events are:

S.No	Name	Class	Winners
1.	Snehith and Saalim Khan	I BCA	1st
2.	Amaan and Akshay Arumugam	III BCom & BCA	2nd
3.	Daniel and Derick	I BCA	3rd

Event Name –Treasure Hunt

The event was coordinated by Mohammed Khurram. There were a huge number of students who participated each team had two participants. They had to solve riddles which were sent online to them and reach the destination first.

Sl. No	Name	Class	Winners
1.	Charles and Shoaib	II BBA	1st Prize

Event Name –IT Reels

The event was coordinated by the students of II year BCA. Reels were posted on Instagram. The concept was work life of IT students

Sl. No	Name	Class	Winners
1	Musadhik & Team	I BCA	1st
2	Srikanth & Team	I BCA	2nd

FRESHER'S DAY

St. Aloysius Degree College, Department of Computer Science organized fresher's day on 28th November 2022. The theme of the event was "Retro 80's" with flashy colors to bring enthusiastic and affectionate welcome to the newcomers. Such programs instill confidence in students and enhance their creativity. The event started with cultural performances by the seniors followed by the show for the fresher's who participated actively walking the ramp and exuberating the dais with singing performances thus making it a soulful experience.

The Judges asked brainstorming questions to the participants to bring out their talents, after scrutinizing the title Mr Fresher was bagged by Ajay P of I BCA and Ms Freshee was handed over to Sharon of I BCom by our Principal with sash as a token of appreciation.

SEMINAR ON - GAME DEVELOPMENT

St. Aloysius Degree College, Placement cell in collaboration with the Department of Computer Science presented Seminar on - Game Development" conducted by EDGE METAVERSITY, Pearl Academy. The session was arranged specifically for 2nd and final years of B.A and BCA students. He presented about the Unreal Engine, 3D creation tool, IAMAG master classes, Trazos school and shared his professional experience in the industry.

Students were screened with different aspects of game design and development through videos based on real projects and detailed the courses on Game development, Virtual Production, Animation and Visual Effects. The session ended with a Q&A where he cleared queries about courses and careers in Unity game development.

FACULTY DEVELOPMENT PROGRAM – HOPE FOUNDATION

Hope Foundation ensures inclusive and equitable quality education to students and women belonging to economically weaker sections. Hope Foundation has signed a memorandum of understanding (MOU) with St Aloysius Degree College. Mr. Augustine (Co-coordinator, Hope Foundation Bengaluru) organized a FDP on 'Demography and Digitization' on January 27th 2023 from 8.00 am to 4.00 pm.

All the faculty members of the Computer Science Department attended a one-day workshop in Shillandra, Ramanagara, and Karnataka. The Resource person Mr. Maria Johnson discussed about rapid increases in computational power and the explosion of Internet, social media and mobile phone use which has radically changed our lives, the way we interact with each other and our behaviour, including demographic choices and constraints. The digitalization of our lives has also led to the so-called "data revolution" that is transforming the social sciences.

The session comprised of interactive activities that gave us a critical thinking ability on students to in the field of Digital and Computational Demography, with emphasis on fostering modern demographic analysis and (big) data-driven discovery. Team Hope thanked the Principal and Management for the support; they appreciated our presence and awarded the faculties with a certificate.

REPORT ON GRADUATION CEREMONY AND JOB DRIVE

Hope Foundation organized its graduation ceremony and Job drive at the United theological College premises on **February 3rd 2023 at 10.00 a.m.**

St. Aloysius Degree College has signed MOU with Hope foundation to establish a programme for academic and technological cooperation and agreed to offer Artificial Intelligence using Python course training for 5 months both online and offline. They trained students on Python course, Soft skills, Interview Preparation and Webinars.

Graduates who passed out during the academic year 2021- 2022 received their graduation certificates from the Guests Mr Maria Joseph and Mr Augustine. Hope Foundation members who presided over the ceremony presented certificates to the students who successfully completed the course with their projects.

Mr Maria Joseph and Mr Augustine in their address congratulated the graduates on becoming professionals and advised them to upgrade in Digitalization. Followed by the Job drive started from 1pm to 5.30pm and was conducted offline. From St. Aloysius Degree College 8 students gave their consent for participation in the drive.

FDP ON RESEARCH METHODOLOGY AND TEACHING PEDAGOGY

St. Aloysius Degree College organized Five days FDP for teaching faculty exclusively. Third day FDP on the 11th March 2023 at 11.30 am the program was organized by department of Computer Science. There were 15 participants. The dignitaries on the dais were Rev.Fr. Anthony Mahendran, Manager, Dr.Sr.SagayaMary B, Principal, Rev. Fr.Vinoo Fabian Vice-Principal and the speaker for the day Mrs.Carol Fortunata .

Our esteemed resource person was from the Commerce department post- graduate studies. The session focused on The Power Trio: Mentoring, Self Esteem and Motivation. The FDP session began with a small prayer and honoring our resource person with a memento and sapling. Mrs.Carol Fortunata began the session with the quote "Mentoring is a brain to pick, an ear to listen, and a push in the right direction." - John C. Crosby.

The session focused on meaning of mentoring which included its various aspects like motivation, direction, goal, advice coaching and so on, evolution of mentoring by enlightening the Guru Kula tradition which was part of our Indian history. The resource

person also spoke about benefits of mentoring to the mentor, mentee and the process of mentoring to the college.

Mrs. Carol Fortunata explained the process with the case study based on retention of IT employees and how mentoring plays an important role in the process. The resource person also explained various method of modeling, documenting, measuring and scaling the research process with examples.

The resource person also spoke about various mentoring activities, problems in effective mentoring activities also about self-esteem and motivation to the mentors and spoke about the importance of mentoring the mentor. We had an interactive Q&A session and discussion about the topic. In the end Assistant Prof. Saranya Mahendran gave the vote of thanks and concluded the third day faculty development programme.

COMPUTER SCIENCE LAB INAUGURATION-LAB 1

Department of Computer Science witnessed a facelift and revamping of the Computer Science Labs. The infrastructure of the lab was renovated for info-tech training as well as the use of modern teaching methods like ICT Technology. The hardware components were replaced and a false ceiling with LED lights added on to the extensive look of the Lab.

With the intension to provide quality training and finest lab facility to our students the Manager and Correspondent Rev Fr Antony Mahendran administered and planned the up gradation of the lab with the support and sanctions of His Grace, the Arch Bishop of Bangalore Dr Peter Machado. Our Principal Dr Sr Sagayamary SJT and Vice Principal Fr Vinoo Fabian co-operated and encouraged the students and staff for the positive progress.

The Inaugural Ceremony was concluded with Prayer service and blessings from the dignitaries.

INTERNSHIP AND PLACEMENTS – DEPARTMENT OF COMPUTER SCIENCE

The IT industry is a broad, sweeping term that covers many information technology oriented organizations. The students of VI Sem BCA, DillBabu and Valluvan A were shortlisted to be a part of a start-up IT company named IRoots located in Babusapalya Bengaluru. The students were working as Trainee Software Developers in .NET for a stipend of Rs 2500/- Ms Ramya, Director of the company shortlisted and selected Dill Babu as a fulltime employee of the firm after his internship period of 5 months. The Department of Computer Science was thankful to the Director for providing a platform and creating an opportunity for fresher's to step and explore in the IT Industry.

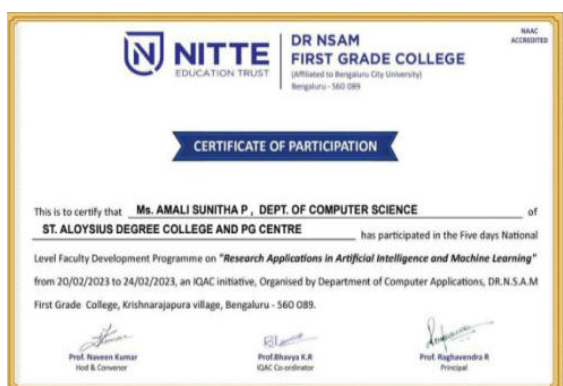| Student Name	Internship Duration	Project Title	Company Name
DillBabu	10 months	Church Monitoring System	IRoots Technology
Valluvan. A	5 months	Attendance Monitoring System	IRoots Technology

FIVE DAYS FDP REPORT ON ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Dr. N.S.A.M First Grade College, Department of Computer Applications organises 5 Days (20.02.2023 to 24.02.2023) Faculty Development Programme on "Research Applications in Artificial Intelligence and Machine Learning" an IQAC initiative in collaboration with NITTE Education Trust.

The first day of FDP highlighted on "Special Issue Artificial Intelligence Technologies and Applications" by the Resource Person Dr.Piyush Kumar Pareek Head Professor at Nitte Meenakshi Institute of Technology, Bengalore. The second day of FDP focused on "Machine Learning Algorithms & its implementations using Python" and the resource person is Ms.S.Uma Mageswari Head of the Department Computer Applications, Koshys Institute of Management Studies, Bangalore.

On the third day was a topic on "Applications of AI and MI in Computer vision", the Key speaker of the day is Dr.Vani Vasudevan, Professor in Department of Computer Science, Nitte Meenakshi Institute of Technology, Bengalore.Day four of the FDP gives Knowledge about "Future of Web Applications using AI" and the Resource Person is Ms.Radhika E.K, Head of Computer Science Department, Sindhi College, Bangalore.

The fifth day was on the title "Research areas of AI and ML" by Dr.Kumar P.K Assistant Professor, Department of Computer Science, VTU, CPGS,Mysuru. All the faculties of BCA department attended the FDP through Zoom Platform and received E-certificates on giving valuable feedbacks.

INTERNSHIP AND PLACEMENT FOR BCA STUDENTS 2022-2023

The placement cell coordinated and led by Prof Robin Frank. B, organized a campus placement drive exclusively for the final year BCA students on 16th March 2023 for the designation Trainee Software Developer in BSETEC, Bengaluru. The HR team conducted the selection process in the Computer Science Lab. The process was categorized into two rounds: Aptitude test-(Duration: 45minutes) and Virtual Technical test conducted by DevOps Engineer. Seven students from the College got selected in the company. The placement drive was coordinated by the faculty of Computer Science.

The following students were selected:

Sl no	Name
1	Anandi.A
2	Cyril John.J
3	David Wilson.T
4	Mohammed Khurram
5	Saranya.R
6	Shwetha.M
7	Solomon.V

WORKSHOP ON THEORY OF COMPUTATION

The computer science department of St. Aloysius Degree College organized one day workshop for the final year BCA students on the importance of Theory of computation. Resource person for the workshop was Ms. Helaria Maria, assistant professor New horizon College Bangalore.

The workshop was held on 26th May 2023 in SADC Lab 1 at 9 am in the presence of our chief patrons Rev.Fr.Anthony Mahindran, Manager and Dr.Sr.Sagaya Mary Principal the session began by invoking the blessings of the almighty and welcoming our resource person by Ms.Saranya, HOD Computer Science department. Ms.Helaria began with the basic concepts and applications of Theory of Computation with real time examples followed by solving various problems along with the students. Her methodology and approach towards the subject kept students engaging throughout the session they were excited to solve the problems. The students were very interactive with the resource person their interest towards the worksop was very impressive to Ms.Helaria.

The workshop was continued till 1.30 pm and concluded by vote of thanks by Ms. Saranya followed by student's feedback about the session and the resource person her profound knowledge on the subject Theory of Computation has been a great insight to our students The workshop has definitely invoked great interest towards the subject for the students.

ORIENTATION PROGRAM FOR FRESHERS 2023

The Orientation Program for Freshers 2023 was held on 27th July 2023. The event aimed to welcome the freshers and provide them with essential information about the College, its various departments, rules, and regulations

The Program commenced with a warm and cordial Welcome Address delivered by Dr. Sr. Sagayamary B, who extended her heartfelt greetings to all the fresher's. Her encouraging words set the tone for the day's proceedings, making the newcomers feel at ease in their new academic environment. The Orientation Program was organized by the Department of Computer Science, which worked diligently to ensure the smooth execution of the event.

HODs (Heads of Departments) of various academic disciplines then took the stage to introduce their respective departments and elucidate the objectives and goals of their programs. Mrs. Zeena Lobo, presented the rules and regulations that the students were expected to adhere to during their academic journey. Her informative session highlighted the importance of discipline in fostering a conducive learning atmosphere. The event was hosted by the charismatic and engaging emcee, Mohammed Khurram, the President of the college.

Towards the end of the program, the Vote of Thanks was delivered by Charles, the Vice President of the college. He expressed gratitude to all the speakers, organizers, and attendees for making the event a grand success

ANTI-DRUG AWARENESS DAY

The Department of Computer Science at St. Aloysius Degree College and Post Graduate Research Centre, in association with the NSS and NCC units, organized an impactful event called the "Anti-Drug Awareness Day." The event aimed to raise awareness about the dangers of drug abuse, promote a society free from drug addiction, and eliminate the stigma and discrimination associated with drug use.

The event commenced with an opening address by the Principal Dr. Sr. Sagayamary B, who emphasized the importance of creating a drug-free society and eradicating the stigma and discrimination associated with drug addiction along with introducing the chief guests. Then Rev. Father Anthony Mahendran the manager and correspondent shared his thoughts on the theme,

"People First: Stop Stigma and Discrimination, Strengthen Prevention" highlighting the need to prioritize the well-being and support of individuals affected by drug abuse.

Following the keynote speeches, the chief guest, Mr. Kiran P.B, Police Inspector of Frazer Town Police Station, delivered an informative talk on the consequences of drug abuse and the role of law enforcement in curbing this societal issue. Mr. Basavaraj J.K, Sub Inspector of Frazer Town Police Station, also shared his valuable insights into the matter.

Towards the end of the event, a solemn moment of unity was witnessed as the attendees, guided by the Principal, took an Anti-Drug Pledge, vowing to stay away from drugs, promote a drug- free society, and support those struggling with addiction. The pledge reflected the collective determination of the students and staff members to combat drug abuse at both an individual and community level.

The event ended with a powerful patriotic moment as the National Anthem resonated throughout the Auditorium. It reminded everyone of the shared values that unite us as a nation and the responsibility we have in protecting our society from the harmful effects of drug abuse.

REPORT ON AI PYTHON COURSE LAUNCH 2023

St. Aloysius Degree College has launched the AI Python course, in collaboration with the Hope Foundation, for BCA final students which commenced on the 26th of June 2023, aims to equip students with essential programming skills and empower them to excel in the ever-evolving field of computer science.

On 22nd June 2023, Students completed their entrance test for course. Students who secured more than 50% had been registered for the course. Upon enrolment, each student has been provided with unique login credentials, granting them access to an Eduvahini.com, online

learning platform. This platform offers a user-friendly interface, where students can access course materials, interactive tutorials, coding exercises, and assessments. Additionally, the platform records attendance ensuring that they actively engage in the learning process.

Skill Development Program started for the students from 26th June 2023 and divided into three parts: IT Python Class, Soft skill class and Communication Class handled by the trainers 6 days in a week. Dr. Sr. Sagayamary B, Principal and Hope Foundation members wished the students on their Python course.

<u>FACULTY DEVELOPMENT PROGRAM REPORT</u>

The Faculty Development Program on "New Horizons - Copyright and Patent Law" was successfully conducted on August 10, 2023, from 2:00 PM to 4:00 PM. The event was organized by the Internal Quality Assurance Cell (IQAC) of St. Aloysius Degree College, Coxt own, in collaboration with Gonzaga College of Arts and Science College, Krishnagiri.

The program marked its fourth day with insightful discussions led by Dr. Shilpa, Assistant Professor at Christ University School of Law. Dr. Shilpa's expertise shed light on the subject of copyright and patent law, exploring new perspectives and horizons in this field.

The event was graced by esteemed Chief Patrons, including Manager Rev. Fr. Anthony Mahendran, Principal Dr. Sr. Sagayamary, and Vice Principal Rev. Fr. Vinoo Fabian. Their presence and support added value to the program, emphasizing its significance in the academic community.

The event commenced with a soulful prayer led by Assistant Professor Ajo Varghese from the Department of Computer Science. It was a moment of reflection and unity as participants gathered to begin the session on a positive note. Assistant Professor Swathi K from the Department of Computer Science delivered the Welcome Address, setting the tone for the program. Her words conveyed a warm welcome to all attendees and highlighted the importance of the day's topic. As the program drew to a close, Assistant Professor Amali Sunitha from the Department of Computer Science expressed heartfelt gratitude in the Vote of Thanks. Her acknowledgment extended to the resource person, participants, patrons, and all those who contributed to the success of the event.

The Faculty Development Program provided a platform for meaningful interactions and insightful learning, fostering a deeper understanding of copyright and patent law. The collaborative efforts of St. Aloysius Degree College and Gonzaga College of Arts and Science College ensured the program's success and impact. With a Successful conclusion, the program left attendees enriched and inspired to explore New Horizons in the realm of Copyright and Patent Law.

REPORT ON INDUSTRIAL VISIT

St. Aloysius Degree College in collaboration with the Department of Computer Applications to enhance the practical knowledge of the students had organized an Industrial visit to BSNL RTTC Mysore on the 31st day of August 2023. The faculty members Mrs. Saranya.M (HOD), Mrs. Swathi.K, Ms. Amali Sunitha, Mrs. Indhumathi.D and Mr. Ajo Varghese along with fifty BCA students took part in the Industrial visit and were successful in gaining the knowledge in the field of telecommunication, networking and a lot more.

The resource person D. Manjunatha had given a talk on various topics like Internet, BTS, Antenna, Twisted pair cables. We were also provided an opportunity to witness the labs which were maintained in the organization like P.C.M Lab, Broad Band Lab which contained many equipment used in this particular field.

In conclusion, the Industrial visit was an enriching and eye-opening experience for both the students as well as the faculty members in order to look into the deep aspects and showing them a way to explore the subject of their interest.

TALK ON "SOFT SKILLS IN IT CAREERS"

The seminar on "Soft Skills in IT Careers" was held on 4th September 2023 at the Sona College of Technology in Salem, Tamil Nadu. Asst. Professor Saranya Mahendran, from St. Aloysius Degree College, Bangalore, served as the resource person. The event was attended by enthusiastic students pursuing BCA, BA, and BBA programs, and it aimed to educate them about the importance of soft skills in the context of IT careers. The Key take away from the session is Effective Communication, Teamwork and Collaboration, Adaptability and Problem-Solving, Time Management and Prioritization, Leadership and Emotional Intelligence, Continuous Learning and Professional Development in IT Sector presentation style left a lasting impact, providing students with a strong foundation in essential soft skills for success in IT careers.

TECHNO Z - INTERCLASS COMPETITION

FRESHER'S DAY

SEMINAR ON - GAME DEVELOPMENT

FACULTY DEVELOPMENT PROGRAM – HOPE FOUNDATION

REPORT ON GRADUATION CEREMONY AND JOB DRIVE

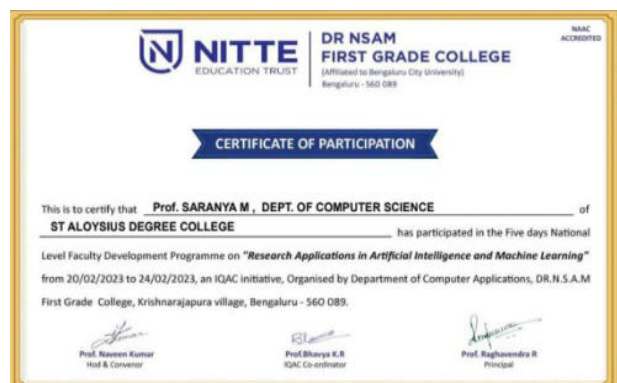# FDP ON RESEARCH METHODOLOGY AND TEACHING PEDAGOGY

COMPUTER SCIENCE LAB INAUGURATION-LAB 1

INTERNSHIP AND PLACEMENTS – DEPARTMENT OF COMPUTER SCIENCE

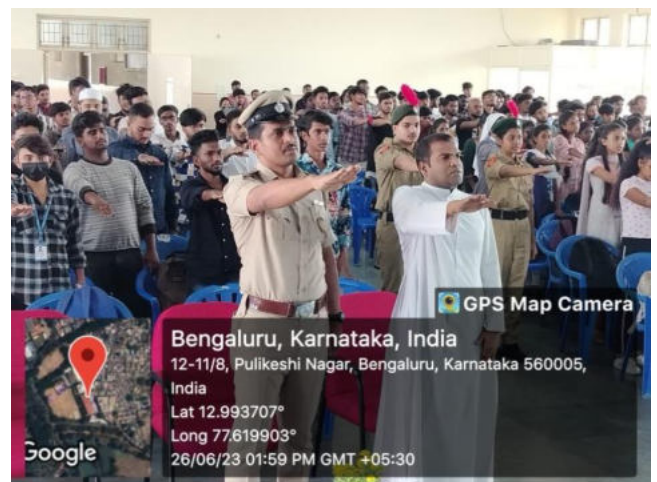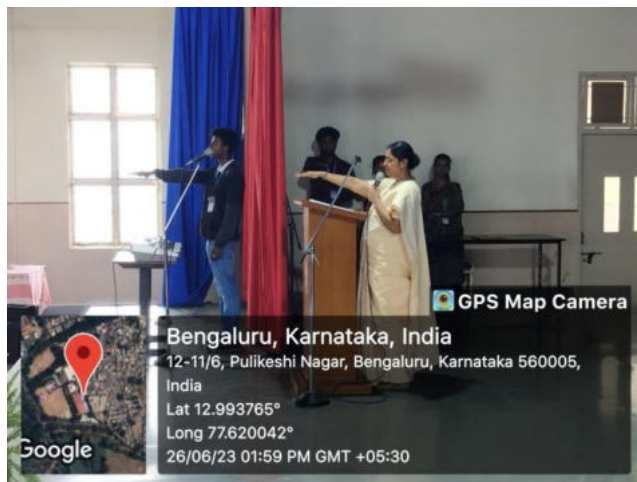# FIVE DAYS FDP REPORT ON ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

WORKSHOP ON THEORY OF COMPUTATION

ORIENTATION PROGRAM FOR FRESHERS 2023

ANTI-DRUG AWARENESS DAY

INDUSTRIAL VISIT

TALK ON "SOFT SKILLS IN IT CAREERS"