

BON SECOURS COLLEGE FOR WOMEN

VILAR BYPASS, THANJAVUR-613006



DEPARTMENT OF COMPUTER APPLICATIONS



PRESENTS

BIOS CA NEWS LETTER

NOVEMBER-2019

MY BCA MY HONOR

ABOUT THE DEPARTMENT

“Computer Applications is the knowledge of abstraction - creating the correct reproduction intended for a problem and devising the right mechanizable techniques to solve it”.

The Department of Computer Applications has been functioning in the college since 2004. The department strives for strengthening the students to build a prosperous society. We started department Association in the name of **BIOS-CA**. It also contributes to the IT fields by conducting seminar and workshop most frequently. The department has earned their reputation for academic excellence by securing top Ranks in the university and also our students got placement in the various companies. At present we have strength of 370 students. We have a good team of faculty members dedicated to the cause of higher education.

STUDENT INDUCTION PROGRAMME



- The department organized **“Student Induction Programme (SIP)”** from 18/06/2019 to 19/06/2019. In this Programme, we identify the area of Strength and Weakness of the Students through different Modules. On 20.06.2019 we conducted the Entry Level Test through which we identify the level of students’ knowledge.

INSTALLATION OF BIOS CA ASSOCIATION

- BIOS CA Association was installed and 29 office bearers were selected on 12.07.2019.



INDUSTRIAL VISIT

- Department of Computer Applications of Bon Secours College for Women, Thanjavur organized Industrial Visit at IBM India Pvt. Ltd., Porur, and Chennai with 115 students and 4 staff members on 03.08.2019. Ms. R. Dharamasamvarthini, Ms. J. Gayathri Devi, Ms. C. Lilly Tresha, Ms. J. Subashree and Ms. R. Nithya Sri has received **Certificate of Excellence**.



TALENT HUNT'19

- Intra-departmental Competition **Talent Hunt'19** was organized by Department of Computer Applications on 06.08.2019 and 07.08.2019 and many students of our department participated and won prizes.



WORKSHOP

- **Workshop on J2EE** was organized for our final year students on 06.09.2019. Mr. M.R amesh, Head, Dept. of Computer Science, Enathi Rajappa Arts and Science College, Pattukottai was the resource person.



HANDS ON TRAINING

- **Hands on Training in Auto CAD** was organized for the final year students on 13.09.2019. Mr. S. Rajesh, Managing Director, Sky Tech Builders, Thanjavur was the resource person.



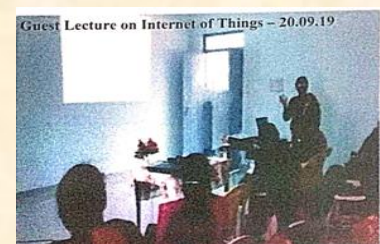
EDUCATIONAL TOUR

- Education tour is the planned combination of tours, site visits with the target of global learning which can enhance the knowledge of students and can help them to see the clear picture of the theoretical things they have learnt so far. To gain a deeper understanding of real life situations and trends than a book can ever convey, an educational tour was organized for our final year students from **18.09.2019 to 21.09.2019 to Kerala**. The expertise demonstrated the virtual reality technology used in Wonderla through virtual reality show.



GUEST LECTURE

- Guest lecture on **Internet of Things** was organized for our final year students on 20.09.2019. Ms. R. Subha, Assistant Professor, Dept. of Computer Science, Enathi Rajappa Arts and Science College, Pattukottai was the resource person.



CAREER GUIDANCE PROGRAMME

- Department of Computer Applications organized a career guidance programme on **Personality Development** for the final year students on 9.10.2019. Mr. V. Sriramulu, Director, "C" Academy, Thanjavur was the resource person.



EXTENSION ACTIVITY

- Computer Literacy Programme Level - V was conducted with the specialization of basic skills in **E-Commerce Applications** for 15 days from 07.10.2019 to 25.10.2019. Forty Students of 10, 11 and 12th standard were participated from Mother Terasa Anbu Illam, Thanjavur. Ms. S. Manimozhi, Assistant Professor, Dept. of Computer Applications & Ms.S.Jamuna, Assistant Professor, Dept. of Computer Applications engaged the classes.



- Department of Computer Applications organized an extension activity on vigilance_awareness at Govt. Middle School, Keelavastha chavadi, Thanjavur on 01.11.2019. Three staff members and 20 students are participated and conducted various competitions to the students.



SEMINAR

- Department of Computer Applications organized “Seminar on **Entrepreneurship: Corporate Entrepreneurship and Innovation**” held on 17.10.2019. Ms. S. Malarvizhi, Sona’s Beauty Parler, Thanjavur was the resource person. 112 students of BCA students participated in the seminar.



FACULTY DEVELOPMENT PROGRAMME

- Faculty Development Programme on “**4G & 5G Mobile Technologies**” was organized on 15.11.2019. Mr.S.Sivakumar, MCA.,M.Phil., Department of Computer Science, Annai College of Arts & Science, Kumbakonam was the resource person.

ADD-ON/CERTIFICATE COURSES

- In this year, our department introduced Add-on/Value added Courses like 3D Animation, Android Technology and HTML and CSS.

RESULT & RANK HOLDERS

- 98% of Result was produced this year.
- Four students secured University Ranks.



Ms. M. Priya
11th Rank



**Ms. M. Siddik
Fathimarali**
13th Rank



Ms. S. Swetha
17th Rank



Ms. M. Priyanka
19th Rank

RESEARCH PROPOSALS

- Student project proposal was submitted to TNSCST, Chennai with the topic entitled **“Solar Bag for Mobile Charging with Battery Status”** under the guidance of Ms. M. Florence Dayana, HOD & Assistant Professor, and Department of Computer Applications on 30.08.2019.
- Student project proposal was submitted to TNSCST, Chennai with the topic entitled **“IoT based Smart Parking System”** under the guidance of Ms. R.Gomathi Jayam, Assistant Professor, and Department of Computer Applications on 29.08.2019.

RESEARCH ACHIEVEMENTS

- Research project proposal was sent on 27.08.2019 to HARI Infotech, Thanjavur under the topic **“RFID based System for School Children Transportation Safety Enhancement”**. This proposal was sanctioned by HARI Infotech, Thanjavur and an amount Rs. 15,000.00 was received.
- Research project proposal was sent on 26.08.2019 to Sky Tech Solution, Thanjavur under the topic **“Automated rain water and crop saving system”**. This proposal was sanctioned by Sky Tech Solution, Thanjavur and an amount Rs. 10,000.00 was received.

MOUs SIGNED

- Signed MoU between **Department of Computer Applications, Bon Secours College for Women and WebEdz Software, Thanjavur** on 19.06.2019 for sharing their knowledge and offering internship training to the students.
- Signed MoU between **Department of Computer Applications, Bon Secours College for Women and Sky Tech Builders, Thanjavur** on 15.07.2019 for offering training programme to the students.
- Signed MoU between **Department of Computer Applications, Bon Secours College for Women and “C” Academy, Thanjavur** on 11.09.2019 for conducting collaborative programs.
- Signed MoU between **Department of Computer Applications, Bon Secours College for Women and Resultics Digital India (P) Ltd., Chennai** on 10.10.2019 for offering internship training to the students.

FDP, WORKSHOP & SEMINAR ATTENDED BY FACULTY MEMBERS

- Ms.D.Saritha, Ms.J.Anne Shirley Asst. Prof. of CA, attended **“Faculty Development Programme on National Educational Policy 2019”**, organized by Bon Secours College for Women, Thanjavur on 19.07.2019’
- Ms.S.Manimozhi, Asst. Prof. of CA, on **“National level Workshop on Data Science and Analytics with Python”** organized by Auxilium College of Arts and Science, Pudhukottai on 30.07.2019 & 31.07.2019
- Ms. V. Santhi, Asst. Prof. of CA, attended **“National level FDP on “MOOCs for blended teaching and learning”**, organized by Loyola College (Autonomous), Chennai, on 06 & 07.09.2019.
- Ms. M. Florence Dayana, Head of CA, attended **“One day National level Workshop on NIRF Ranking 2020”**, organized by IQAC, Marian College, Kuttikkanam(Autonomous) in association with the Institute for Academic Excellence, Hyderabad, Ernakulam, on 21.11.2019
- Ms. M. Florence Dayana, Head of CA, attended **“Workshop on Basics of Accreditation”**, organized by AIICHE, New Delhi& Bishop Heber College, Trichy, on 30.11.2019.

- Ms. M. JancyPriya, Asst. Prof. of CA, attended “**International colloquium centurion the challenges of higher education in the 21st Century**”, St. Joseph College, Trichy, on 27.09.2019.

STAFF PUBLICATIONS

- Ms. N. Ruba, Assistant Professor, Department of Computer Applications published a paper “Multiple Parenting Phylogeny Relationships in Digital Images”, In International Journal of Computer Science and Engineering, Vol.-7, Issue-8, E-ISSN: 2347-2693. Aug-2019.
- Ms. M. Florence Dayana, Head & Assistant Professor, Department of Computer Applications published a paper “An Intellect and Clustering Technology using Noiseless Content Extraction in Web Pages”, In International Journal of Advanced Research in Dynamical and Control Systems, Scopus Indexed – UGC Care List, Vol.-11, Special Issue-09, E-ISSN: 1943-023X. Oct-2019.

STAFF ACHIEVEMENTS

- **Ms. S. Vinothini**, Assistant Professor, Department of Computer Applications has conducted a “Computer Training Programme” for teaching staff in Bon Secours College for Women, Thanjavur on 01.08.2019
- **Ms. M. Florence Dayana**, Head, Department of Computer Applications represented as Chief Invigilator in TNPSC Group IV examinations on 01.09.2019.

STUDENT ACHIEVEMENTS

- ❖ Ms. R. Priyanka of III BCA ‘B’ participated and won **III Prize** in drawing competition organized by Regional Transport Office, Thanjavur and Lions Club of Thanjavur Vasandham on 04.07.2019 .
- ❖ Ms. R. Aruna Devi of II BCA ‘A’ participated in the events organised by Department of Physical Education, Bon Secours College for Women, Thanjavur and won **I Prize** in Javelin, II Prize in Shot put and Runner in Volley Ball held on 27.07.2019.
- ❖ Ms. T. Sumathi of III BCA ‘B’ participated in the events organised by Department of Physical Education, Bon Secours College for Women, Thanjavur and won **Runner** in Volley Ball held on 27.07.2019.
- ❖ Ms. S. Nalini of I BCA ‘A’ participated in the events organised by Department of Physical Education, Bon Secours College for Women, Thanjavur and won **Winner** in Volley Ball held on 27.07.2019.

❖ Ms. A.S. Vaishnavi of II BCA B and Ms. U. Suvetha of II BCA B participated in National Level Technical Symposium “STETCOMPUTERA-2K19” and won **first prize** in debugging event conducted by Sengamala Thayar Educational Trust Women College, Mannargudi on 13.09.2019.

❖ Ms. M. Arulmozhi of II BCA A participated in National Level Technical Symposium “STETCOMPUTERA-2K19” and won **second prize** in the Paper Presentation event conducted by Sengamala Thayar Educational Trust Women College, Mannargudi on 13.09.2019.

❖ Ms. K. Sonaa of III BCA B and Ms. J. Gayathri Devi of III BCA A participated in National Level Technical Symposium “PECSAM” and won **first prize** in Quiz event conducted by Periyar Maniammai University, Thanjavur on 13.09.2019.



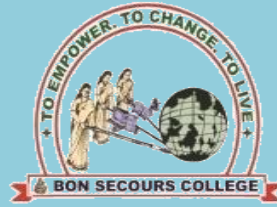
❖ Students from the Department of Computer Applications participated and won prizes in State Level Technical Symposium “BOOTFETE-2K19”, organised by Bishop Heber College, Trichy on 01.10.2019. Two students won first prize and six students won second prize in various events.

❖ Students from the Department of Computer Applications participated and won prizes in National level Technical Symposium “SWARD-2K19”, organized by Periyar Maniammai University, Thanjavur on 10.10.2019 and 11.10.2019. Three students won first prize, five students won second prize and four students won third prize in various events.



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ABOUT THE DEPARTMENT

“Computer Applications is the knowledge of abstraction - creating the correct reproduction intended for a problem and devising the right mechanizable techniques to solve it”.

The Department of Computer Applications has been functioning in the college since 2004. The department strives for strengthening the students to build a prosperous society. We started department Association in the name of **BIOS-CA** in the college since 2004. It also contributes to the IT fields by conducting seminar and workshop most frequently. The department has earned their reputation for academic excellence by securing top Ranks in the university and also our students got placement in the various companies. At present we have strength of 370 students. We have a good team of faculty members dedicated to the cause of higher education.

DEPARTMENT ORGANIZED PROGRAMMES

WORKSHOP, HANDS ON TRAINING AND SKILL DEVELOPMENT PROGRAMME

WORKSHOP

The department of Computer Applications organized one day “**Workshop on Photoshop**” on 06.12.2019 by our GEM Students **Ms.C.Shanmugapriya** of III BCA B and **Ms.R.Dharmasamvarthini**, of III BCA A.



SKILL DEVELOPMENT PROGRAMME

- Hands on Training –“**Web Designing**” was organized on 4.12.2019. Mr.A.J.Sasikanth, Managing Director, Sky Tech Solutions, Thanjavur was the chief guest. The target students are second year students of our department.
- The department of Computer Applications organized “**Skill Development on Python**” on 06.12.2019 for final year students. Ms.K.Meena, Assistant Professor, Department of Software Engineering, Periyar Maniammai University, Thanjavur was the chief guest.



INTERNSHIP PROGRAMME

- Internship Programme was arranged for second year students from 19.12.2019 to 23.01.2020. The students take over their internship in HARI Infotech, Thanjavur, WebEdz, Thanjavur, Sky Tech Solution, Thanjavur, Golden Net Computers, Trichy, Shenll Technology Solutions Pvt. Ltd, Chennai, Radar Technologies, Chennai, Step Infotech Technologies, Thanjavur, Pantech Pro Ed Pvt. Ltd., NRP Technologies, Mannargudi, Resultics Digital India Pvt.Ltd, Chennai.

FIELD VISIT

- Field visit on “**Ecosystem**” was arranged for the first year students at Agricultural University, Botanical Garden, Coimbatore and Herbal Garden of our college. This field visit was done from 03.02.2020 to 02.03.2020.



SMALL PROJECT

- Small Project/Group project were assigned to II year students using C, C++, Java. Time duration of the project is 15 days from 03.02.2020 to 21.02.2020. Students were grouped 5 members per team. This small project was initiated to give practical approach as theoretical knowledge alone won't be of help in a real-time work environment.

REAL TIME PROJECT

- The project must be a fairly significant piece of work. Students are encouraged to take on projects that involve experimental efforts or proving new results (or both). The final year students are encouraged to do the real time project.



FACULTY DEVELOPMENT PROGRAMME

- Faculty Development Programme on “Artificial Intelligence & Machine Learning” was organized on 04.02.2020. Dr. K. Sujith, PG & Research Department of Computer Science, Annai Vailankanni Arts & Science College, Thanjavur was the resource person.

ENDOWMENT LECTURE

- **Endowment Lecture on “Cyber Security”** was organized for our final year students on 12.02.2020. Dr. K. Surjith, Head , PG and Research Department of Computer Science, Annai Vailanganni Arts and Science College, Thanjavur was the Resource Person.

LINKAGE SIGNED

- Signed linkage between **Department of Computer Applications, Bon Secours College for Women and Pantech Pro Ed Pvt. Ltd., Trichy** on 03.12.2019 for sharing resources.

STUDENT ACHIEVEMENTS

- ❖ Ms. R. SnehaKrishnan of II BCA A participated inter collegiate cultural fest Ifesty'20 conducted by Indian Institute of Food Processing Technology, Thanjavur on 10.01.2020 and secured first position and received cash award of Rs. 5000.00 in Pro-beats event.



- ❖ Ms. R. Snehkrishnan, II BCA B participated in state level Nattupura Aadarkalai competition conducted by Avvai Trust, Thiruvaiyaru (2019) and secured 2nd price and received Naattupura Aadarkalai Thilagam Award & cash prize Rs.3000.



- ❖ Ms. M.Thendral of II BCA B was selected as NSS volunteer for National Integration Camp organised by Regional Directorate of NSS, New Delhi from 22/02/2020 to 28/02/2020 at Jammu University, Jammu.



CARRER ACHIEVEMENTS

- Eighty two students of our department got **“PLACEMENT”** from various companies through on campus

FACULTY ACHIEVEMENTS

- **Ms. M. Jancypriya**, Asst. prof. of CA, was assigned as a polling officer-V at Peravurani, Kalathur, for local body Election on 29.12.2019 & 30.12.2019.

- **Ms. N. Ruba**, Asst. Prof. of CA, has acted as resource person on Special Lecture on Artificial Intelligence, Enathi Rajappa Arts and Science College, Pattukkottai, held on 08.01.2020.
- **Ms. R.Gomathi Jayam**, Asst. prof. of Computer Applications acted as a resource person on PHP with MySQL, AnnaiVailankanni Arts & Science College, Thanjavur, held on 11.01.2020.
- **Ms. Ruba**, Asst. Prof. of CA, has acted as syllabus setter for diploma course in Web Technology, offered by WebEdz Software, Thanjavur.



PUBLICATIONS

- Ms. M.Florence Dayana, HOD & Assistant Professor, Department of Computer Applications published a paper “**Enhance Hadoop performance using Bigdata with Map Reduce Technology**”, in Journal of Information and Computational Science, Vol.-10, Issue 3-2020, E-ISSN: 1548-7741.
- Ms. M.Florence Dayana, HOD & Assistant Professor, Department of Computer Applications published a paper “**Intelligent layer based Image Fusion System using Cross Bilateral Filtering**”, in Journal of Information and Computational Science, Vol.-10, Issue 3-2020, E-ISSN: 1548-7741.
- Ms.R.Gomathijayam. Assistant Professor, Department of Computer Applications published a paper “**Intelligent DOS attack detection and performance improvement via Fake Node Elimination Scheme in MANET**”, in Journal of Information and Computational Science, Vol.-10, Issue 3-2020, E-ISSN: 1548-7741.
- Ms.R.Gomathijayam. Assistant Professor, Department of Computer Applications published a paper “**Security enabled Cyber-Physical clone detection mechanism over Wireless Sensor Networks**”, in Journal of Information and Computational Science, Vol.-10, Issue 3-2020, E-ISSN: 1548-7741.
- Ms.V.Santhi, Assistant Professor, Department of Computer Applications published a paper “**Efficient face expression identification system using Sparse Representation Methodology**”, in Journal of Information and Computational Science, Vol.-10, Issue 3-2020, E-ISSN: 1548-7741.
- Ms.V.Santhi, Assistant Professor, Department of Computer Applications published a paper “**Empirical Analysis of Big Data Issues and Recovery Solutions Using Hadoop Map Reducing Strategy**”, in Journal of Information and Computational Science, Vol.-10, Issue 3-2020, E-ISSN: 1548-7741.

- Ms.V.Santhi, Assistant Professor, Department of Computer Applications published a paper **“Prediction of Lung Cancer in Earlier Stages via Medical Images using Advanced Neural Bayes Methodology”**, in Journal of Information and Computational Science, Vol.-10, Issue 3-2020, E-ISSN: 1548-7741

WORKSHOP, SEMINAR AND FDP ATTENDED BY THE FACULTY

- Ms. S. Jamuna, Asst. Prof. of CA, attended **“National Seminar on Recent Trends in Data Mining (IPR Based)”**, organized by Meenakshi Chandrasekaran College of Arts and Science for Women, Pattukkottai on 27.01.2020.
- Ms. S. Manimozhi, Asst. Prof. of CA, attended **“National level Workshop on Data Science Analytics”** from 16.04.2020 to 22.04.2020.
- Ms. S. Sayipriya and Ms. V. Santhi, Asst. Professors of CA, attended online Faculty Development Program on **“Entrepreneurship, Research, Critical thinking and Innovation”** from 22.04.2020 to 28.04.2020.
- Ms. S. Jamuna and Ms. G. Sripriya, Asst. Professors of CA, attended online Faculty Development Program on **“Recent Trends in Artificial Intelligence and Impact on teaching professionals”** from 22.04.2020 to 24.04.2020.
- Ms. N. Ruba, Asst. Prof. of CA, attended online Faculty Development Program on **“The scope and impact of Open Source Technologies”** from 11.05.2020 to 15.05.2020.
- Ms. R. Gomathi Jayam,, Asst. Professors of CA, attended online National level Faculty Development Program on **“Construction and Cultivation of Teachers’ Quality in Higher Education”** from 13.05.2020 to 17.05.2020.
- Ms. M. JancyPriya and Ms. D. Seethslakshmi, Asst. Professors of CA, attended online Faculty Development Program on **“Cloud Infrastructure and Visualization”** from 25.05.2020 to 29.05.2020.

CONCLUSION

- As the nature of computer technologies has a never-ending cycle of innovation rooted in it, our focus is on increasing the standard of the teaching and learning to gain importance in research and academics. To set high standards in teaching and learning, to enable a bright career path for the students, we create a culture that fosters excellence and creativity and we focus to mold the next generations to use emerging technologies for betterment of society and prepare them to solve real-world problems.