ANNUAL REPORT

2020-21

DARKNESS TO LIGHT

PG & Research DepartmentofComputerScience
Dhanraj Baid Jain College(Autonomous)
Chennai - 600097

ABSTRACT

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About the Department of PG & Research Department of ComputerScience

The Department was established during the year 1992-93 with B.Sc Computer Science, BCA from the Academic Year 2000-01. During the year 2005-06 MSC(IT) were started and MPhil in Computer Science were added from the year 2015-16. An Another PG degree MSc Computer Science were started from the year 2018-19.

The Department is known for facilitating the quality education to the highest and conducting various curricular and extra-curricular activities to make students excel in every field of study, through...

- ➢ Syllabus meets Industry Expectations
- ➢ Induction & Remedial Courses
- ➢ Experiential Learning
- ➢ Bridge courses
- ➢ Seminars and Guest Lectures
- ➢ Faculty Development Programs
- ➢ Students Participation in Inter Departmental and Inter Collegiate Competitions
- ➢ Best Placement Training & Guidance team
- ➢ Revised Curriculum which meets Industry Expectations for both UG & PG Courses with papers like Python Programming, PHP, Cloud Computing
- ➢ The department is equipped with well qualified and experienced teaching staff and supporting staff, computing lab with 250 workstations and Three servers with all the required software and peripherals.
- ➢ The Department of Computer Science and Department of Placement acts as a connecting hub for the company and the students who want to serve in industry. It mainly focuses on the activities that enhances our student's employability and career development.
- ➢ Qualified and Dedicated faculty members with Ph.D/NET/SLET
- ➢ ICT Enabled Teaching

Department Academic Activities during Covid -19 Pandemic(2020-2021)

- The academic year 2020-2021 began from August 2020 due to the COVID 19 pandemic with teaching- learning and evaluation conducted online during odd and even semesters.

- The department staff members met virtually on the Zoom platform held on 14/9/2020, 15/9/2020, 16/9/2020 regarding online even semester examination (May 2020 exam postponed due to COVID)

- 21/09/2020 to 24/09/2020 Final Year Semester exams Conducted as per University Guidelines (May 2020 postponed exam conducted in online)

- From 1/9/2020 Regular Online Classes for all the Students Conducted as per the schedule through Zoom/Google Meet

- Seven Day Induction Programme conducted for the First Year Students in Online from 28/9/2020

- 21/10/2020,24/11/2020, Department Monthly staff meeting regarding online classes and to plan for the year ahead

- 9/11/2020 - MPhil - Entrance Exam conducted for New Research Applicants

- 3/12/2020 & 22/12/2020 Staff Meeting Regarding – Odd Semester - Theory Exam in Online

- Virtual communication training program conducted for I Year Students from 21/12/2020 to 24/12/2020 , 28/12/2020 to 31/12/202 , 04/01/2021 & 05/01/202 in zoom

- 23/12/2020 - Students & Staff Interaction Regarding Odd Semester Theory Exam in Online

- 28/12/2020 to 05/01/2021 Odd Semester online Exam conducted for II and II year students

- 08/01/2021- **Sutherland Technologies** Virtual Placement Drive organized for Final Year Students and 8 Students got selected.

- 18/1/2021,9/4/2021,6/5/2021,16/09/2021 – Department staff Meeting conducted for Even Semester planning

- 15/02/2021 to 19/02/2021 Odd Semester Practical Exam – I BSc & I BCA Students

- 22/02/2021 to 1/03/2021   Odd Semester Theory Exam for I Year BSc & BCA Students
- 26/03/2021   **Off Campus** Interview - for BSc,BCA Students Searchie Digital ,Kilpauk,Chennai
- 26/04/2021 to 04/05/2021 Online Even Semester Model Exam Conducted – for all UG, PG Students and Answer sheets collected through e-mail
- 21/6/2021 to 26/6/2021 – Online Even Semester Theory Examination conducted for all UG & PG Courses

Induction Programme for first year students (2020-2021)

- Induction & Overview of College programme - By Dr.B.Jagadhesan ,HOD,UG Dept of Computer Science organized for I Year Students of BSc Computer Science and BCA on 28/08/2020

- Introduction about the Department, Lab & Library – By Dr.S.Balaji HOD,PG Dept of Computer Science organized for I Year Students of BSc Computer Science and BCA on 29/08/2020

- Induction Programme On Scope of BSc CS & BCA - Carrier Guidance given by our Alumni organized for I Year Students of BSc Computer Science and BCA on 31/08/2020

- Communication & Presentation Skills - By Mrs.Vaishnavi Communication Trainer, Ufaber Edutech Pvt Ltd organized for I Year Students of BSc Computer Science and BCA on 01/09/2020

- Induction Programme On Value Education & Motivational Speech - By Mr.Mr.M.Manikandan   Associate Tech Specialist,(SAP,ASAP) Techmahindra organized for I Year Students of BSc Computer Science and BCA on 02/09/2020

- Induction Programme On Training & Placement Cell – By Mrs.Chandrakala.P,M.B.A Placement officer, Department of Training & Placement, Dhanraj Baid Jain College, chennai. organized for I Year Students of BSc Computer Science and BCA on 03/09/2020

- Interaction & Valedictory Sfession – given By Dr. K.RAJASEKARAN for I Year Students of BSc Computer Science and BCA on 04/09/2020

Seminars/ Workshops organized forstudents – Associated with IQAC

Date	Webinar Title
22/07/2020	Webinar On "Inspire Yourself " -Organized by CS Women faculties
29/08/2020	Online Webinar on Financial literacy
1/09/2020	Webinar on Digital Data Explosion
27/11/2020	Webinar On "Unleash Your Technical Talents " By Prof. Mr. Mohamed Suhail
26/02/2021	Webinar for Students – Strategies and Steps to Crack Civil Services Examination
26/02/2021	Seminar on - Python Coding Techniques
08/03/2021	IQAC- Women's Day Celebration- Webinar on "SELF MOTIVATION"
30/03/2021	DBJC Computer Science Department - Webinar on "Introduction to WordPress" by Mr.Joshua Sundar
14/07/2021	Webinar on Awareness on Covid & Vaccination Hesitancy Organized by DBJC Women Empowerment Cell

Remedial Classes

The remedial classes conducted periodically which helps:

➢ To motivate and help the academically weaker students to realize their weakness and help them to improve on their fronts.
➢ Improving academic skills of the students in various subjects.
➢ Raising their level of comprehension of basic subjects to provide a stronger for further academic work.
➢ Strengthens their knowledge skills and attitude in such subjects

Faculty Achievements (2020-2021)

- Kalam Dream Award 2020 Received By Dr. B. Jagadhesan on 13/10/2020
- Prof. Jaya Prasanna completed her PhD Thesis Submission at University of Madras on 16/10/2020
- Dr. S. Balaji , Dr. B. Jagadhesan , Dr. K. Rajasekaran submitted PhD Course Guideship Approval in University of Madras on 20/10/2020
- Dr.B.Jagadhesan invited as External Examiner for Ph.D. Viva-Voce – Bharathidasan University –Tiruchirappalli on 18/02/2021
- Dr.B.Jagadhesan   Invited as External Expert for Academic Audit on 26/02/2021 Ramakrishna Mission Vivekananda College , Chennai
- Dr.D.Elangovan nominated as course writer for preparing study materials for the BSc Computer Science programme by Tamil Nadu Open University 6/12/2021
- Dr.B.Jagadhesan invited as External Examiner for Ph.D., Public Viva-Voce Examination VELS University,Chennai on 04/03/2021
- Dr.B.Jagadhesan , Dr.K.Rajasekaran invited as Judge for – Interdepartmental Events Conducted by Department of Management Studies , DBJC on 19/03/2021
- Mrs.M.Bharathi , presented Webinar on Teacher's Role in Boosting Mental Health of Young Mind an Interdisciplinary Workshop 2021 Organized by Department of Management Studies ,DBJC on 14/06/2021

Faculty Attended Programmes (In-house & Outside)

- Dr. S. Balaji , Dr. K. Rajasekaran attended Workshop on "NIRF Excellence" by ICT Academy in CISCO WebEx on 5/11/2020
- Dr.B.Jagadhesan Associate Professor & Head (PG) has presented a webinar session "Born to Win" for the Students of S.A.College of Arts and Science on 04/09/2020 also he has participated in the Webinar on "Block-Chain and its Application" By Universities press on 6/11/2020.
- Dr. B. Jagadhesan&Dr. K. Rajasekaran attended Global Technology Forum 2020, International Conference On AI, Robotics & Automation – Organized by IT Academy from 14/10/2020 to 18/10/2020 in CISCO WebEx
- Dr.B.Jagadhesan Associate Professor & Head (PG) has participated in National

Level Webinar – VELS University on 27/01/2021
- ➢ Dr.B.Jagadhesaninvited as an External Examiner for Ph.D. Viva-Voce – Bharathidasan University -Tiruchirappalli on 18/02/2021.
- ➢ Dr.B.JagadhesanParticipated in Entrepreneur Mentor Program on 21/02/2021 in online
- ➢ Dr.B.Jagadhesan Associate Professor & Head (PG) invited as an Academic Audit committee member in Ramakrishna mission Vivekananda College ,Chennai on 26/02/2021
- ➢ Prof. Durga Siddharth presented a webinar session in the topic," 7 – Step Business Analytic Process" in SDNB College for Women
- ➢ Mrs.V.Nisha Submitted her PhD Research work Thesis in Mother Teresa University on 09/09/2021
- ➢ Dr.S.Balaji has attended ,Tamilnadu State Council for Higher Education Conducted NAAC & NIRF Consultative Meeting on 30/09/2021
- ➢ Prof. V. Nisha attended Virtual FDP on Fundamentals of Machine Learning from 16/02/2021to 20/02/2021 conducted by ICT Academy
- ➢ Dr.K.Rajasekaran Invited as Judge for – Interdepartmental Events – Conducted by Department of Management Studies on 19/3/2021

Online Certificate Courses Attended by the faculties

- ➢ Dr.B.Jagadhesan,Mr.M.Karthik,Mrs.M.Bharathi,Mrs.V.Nisha has attended Introduction to python programming course conducted by ICT Academy, Machine Learning Webinar and FDP Programs and received certificates.

Papers/Journals/Books Published by the faculties (2020-2021)

Title Of Paper	Name Of The Author/S	Department Of The Teacher	Name Of Journal	Year Of Publication	ISBN/ISSN Number
AN IMPACT OF BLOCKCHAIN TECHNOLOGY ON DIGITAL EDUCATION IN MACHINE LEARNING	DR.B.JAGADHESAN	COMPUTER SCIENCE	HIGH TECHNOLOGY LETTERS	2021	1006-6748
PERFORMANCE EVALUATION PROCESS OF SEMI-AUTOMATED SEMANTIC MATCHED	DR.D.ELANGOVAN	COMPUTER SCIENCE	HTTP://WWW.GJSTX-E.CN/GALLERY/55-JUNE2021.PDF.	JUN-21	ISSN 1006-6748

CONCEPTS					
CHURN PREDICTION ANALYSIS IN CELLULAR COMMUNICATION SECTOR USING CLASSIFIER LEARNING	SARAVANAN P	COMPUTER SCIENCE	LINO	2021	0211-2574
AN OPTIMIZING SECURITY IN A CLOUD COMPUTING ENVIRONMENT USING DEFENSE TECHNIQUES	SARAVANAN P	COMPUTER SCIENCE	LINO	2021	0211-2574
AN OPTIMIZING SECURITY IN A CLOUD COMPUTING ENVIRONMENT USING DEFENSE TECHNIQUES	DR.B.JAGADHESAN	COMPUTER SCIENCE	LINO	2021	0211-2574
AN IMPACT OF BLOCKCHAIN TECHNOLOGY ON DIGITAL EDUCATION IN MACHINE LEARNING	SARAVANAN. P	COMPUTER SCIENCE	HIGH TECHNOLOGY LETTERS	2021	1006-6748
MACHINE LEARNING ENABLED HEALTH METRICS AND DIET RECOMMENDATION WALL MOUNTED ELECTRONIC TABLET	DR T.R NISHA DAYANA	COMPUTER SCIENCE	PATENT	2021	2021410133 32A

MULTICLASS SVM COUPLED WITH OPTIMIZATION TECHNIQUES AND CLASSIFICATION OF MEDICAL IMAGES	DR T.R NISHA DAYANA	COMPUTER SCIENCE	ELSEVIER	2021	822271
TRAINING OF UPPER LIMB STROKE REHABITATION ROBOTIC SYSTEM USING KINETIC POSE ESTIMATION ALGORITHM AND DEEP LEARNING	MR.C.GOVINDASAMY	COMPUTER SCIENCE	PATENT	2020	2.02E+09

Students Admission (2020-2021)

S.No	Name of the Course	Student's Strength
1	BSc Computer Science	100
2	BCA	150
3	MSc	15
4	MSc IT	10

Student's Achievements 2020-2021

➢ 10/02/2021 - V. Krishnan from I BCA Participated in National Level Competition English Essay Writing in Arya P. G. College, Panipat in online

- ➢ Curriculum
- ➢ Practical orientation
- ➢ Electives
- ➢ Internship /Project
- ➢ Teaching Learning Process
- ➢ Orientation Programme
- ➢ Remedial Classes
- ➢ Tutorials
- ➢ Catering to diverse learning needs
- ➢ Co-curricular activities
- ➢ Symposium
- ➢ Seminar
- ➢ Workshop
- ➢ Conference
- ➢ Guest lectures
- ➢ Industrial visit

Stakeholder Feedback Report 2020 – 2021

Feedback from parents:

Parents were satisfied by the online class's initiation. During the stakeholder meeting, Parents suggested the institution to conduct weekly test virtually also they requested to maintain the placement activity and its record of recruitment as like previous years.

Feedback from Teachers:

Teachers were satisfied on completion of syllabus and conducting internal examination even virtually. They suggested to the students and parents to be regular to the online class so that the students can understand the subject easily.

Feedback from students:

Most of the students were satisfied with syllabus and they expect regular weekly revision tests. They were also happy with the complete regular online classes.

Feedback from alumni:

Alumni were happy with excellence of teaching learning activities and placement records. They also believed that the application of their learned knowledge through institution was really helpful to them. Alumni are suggested to introduce advanced industrial oriented courses.
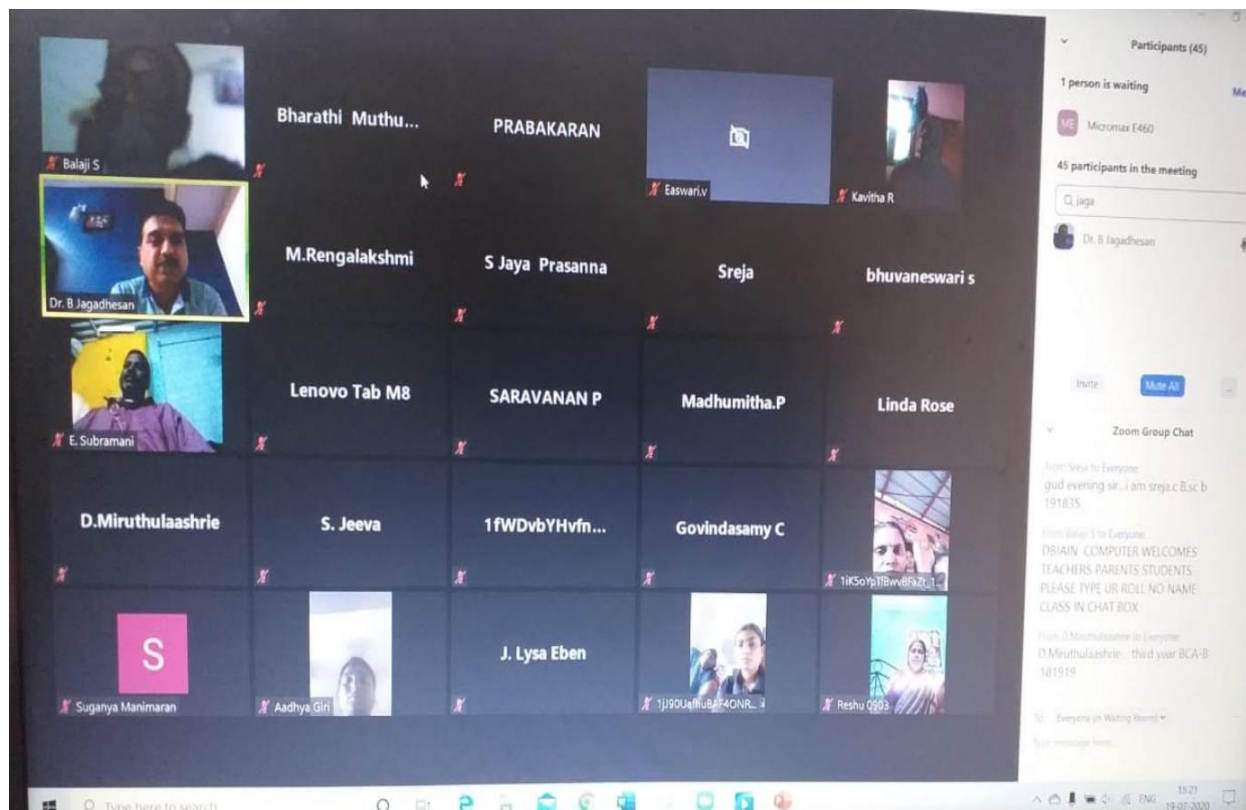
Parent-TeacherMeet

Name of the activity : Parent Teacher Meet

PTA -1 **Date**   : 14/02/2020 -College

PTA -2 **Date**   : 19/07/2020 (ZOOM)

PTA in ZOOM:

Targetgroup   :All UGStudents

   AboutActivity   **:** Total No. Of Parents Visited: 74

SUGGESTIONS/FEEDBACK FROM PARENTS:

1) Suggested to conduct parent-teacher meetfrequently
2) Expressed Quality of teaching isexcellent
3) Requested to send SMS about student attendance statusdaily.

Future Plans of the Department

- ➢ Do gain unique identity for the Department by conducting Seminars, Workshops Guest Lectures that enhances the scientific temperament in Students andFaculty
- ➢ To encourage and direct Faculty and students towards Paper Presentations, Minor Projects andPhD's.
- ➢ Encourage, motivated and guide students to pursue projects in the field of Computer Science.
- ➢ Organize Institution Industry Interaction programmes, and Industrial Visits.