Dayananda Sagar College of Arts Science and Commerce

Internal Quality Assurance Cell

CENTRE OF EXCELLENCE – SHRESHTHA
Cell Annual Report 2020-2021

Course: MASTER OF COMPUTER APPLICATIONS

COE - Big Data Analytics

The Centre of Excellence- Big data Analytics is constituted with the main purpose of creating new opportunities and exploring research in the area of Analytics, and motivating students in the same.

The core activities of the Centre of Excellence – Big Data Analytics include

- Insights towards algorithmic, theoretical and computational approaches such as Deep Learning networks, Statistical and mathematical analytics, visualization and informatics.
- Conducting seminars and hands workshops for the students to gain knowledge in the technology.
- Allows Data analysts, data scientists, predictive modelers, statisticians and other analytics professionals to analyze growing volumes of structured transaction data.
- The Centre of Excellence – Big Data Analytics conducted many activities to up skill the students. FDP was conducted in the area of "Data Science in Health Care" which covered the topics of data science in research and clinical trials. A National Level Webinars conducted on "Robotics Process Automation", "Artificial Intelligence and Machine Learning". These covered the techniques of AI in detail by the Speaker Mr.Arihant Jain, Imarticus Learning. The department also organized a Workshop series (6 Sessions) in associated with IBM. It took in to deep dive of Machine Learning using Python, K-Means Clustering Algorithm, Decision Tree and Random Forest Classification etc; A National Level Technical Poster Presentation held with the title " Artificial Intelligence- The Past, Present and Future" to enlighten the students from various colleges to improve the technical skills. A Hands on Workshop was held in the area of "Data Science with Python", "Image Processing Using Matlab" to improve the programming the skills to the students with practical examples. The "Machine Learning and Deep Learning" Webinar held covered the depth topics of Artificial Intelligence and Deep Learning. In association with Oracle Volunteering a Webinar was conducted in the area of "DevSecOps Security".

Activities Conducted for the period July 2020 – June 2021

Sl. No.	Activity Conducted	Date/ Period	Resource Person	Website Link
1	Organized Webinar on "Real Time Application of Machine Learning Algorithm" In Association with Oracle Volunteering.	30/06/2021	Mr. Deepak Agarwal Principal, Member of Tech staff. Area of Expertise: DevSecOps Security In Association with Oracle Volunteering	https://www.dscasc.edu.in/images/mca/coe/BD1doc-min.pdf
2	Organized Webinar on "DevSec Ops" In Association with Oracle Volunteering.	23/06/2021	Mr. Deepak Agarwal, Oracle Engineering Team, In Association with Oracle Volunteering	https://www.dscasc.edu.in/images/mca/coe/BD2doc-min.pdf
3	Call for Code Workshop conducted by IBM	7/4/2021	Mr. Yuktesh Chintamadaka, IBM India Software Labs Developer Advocate	https://www.dscasc.edu.in/images/mca/coe/BD3doc-min.pdf
4	4 Days Hands on Workshop on "Python Programming"	1/3/2021 To 4/3/2021	Mrs. Sandhya Anchan, Apponix Technologies Pvt Ltd, Bangalore, Karnataka	https://www.dscasc.edu.in/images/mca/coe/BD4doc-min.pdf
5	Online National Level Faculty Development Program on "Data Science with Python"	28/1/2021	1. Dr. Bharathi, Associate Professor Dr.AIT , Bangalore Prof. Shobha, Assistant Professor Dr.AIT , Bangalore	https://www.dscasc.edu.in/images/mca/coe/BD5doc-min.pdf
6	Organized Webinar on "Machine Learning and Deep Learning"	22/1/2021	Mr. Arihant Jain, Data Scientist, Imarticus Learning	https://www.dscasc.edu.in/images/mca/coe/BD6doc-min.pdf
7	Organized Workshop on "Image Processing Using Mat Lab"	13/1/2021	Prof. RadhaKrishnan K R, St. Joseph's College of Engineering, Chennai	https://www.dscasc.edu.in/images/mca/coe/BD7doc-min.pdf
8	Conducted Poster Presentation on "Artificial Intelligence- The Past, Present and Future"	11/1/2021	Student Activity – Poster Presentation Organized by Prof. Sunitha.	https://www.dscasc.edu.in/images/mca/coe/BD8doc-min.pdf

Sl. No.	Activity Conducted	Date/ Period	Resource Person	Website Link
9	Webinar on "Data Science"	5/11/2020	Mr. Arihant Jain, Data Scientist, Imarticus Learning	https://www.dscasc.edu.in/images/mca/coe/BD9doc-min.pdf
10	IBM Series 6 Workshop on "Machine Learning Using Python – Decision Tree and Random Forest Classification"	1/10/2020	Mr. Yuktesh Chintamadaka, IBM India Software Labs Developer Advocate	https://www.dscasc.edu.in/images/mca/coe/BD10doc-min.pdf
11	IBM Series 5 Workshop on "Machine Learning Using Python - K Means Clustering Algorithm"	24/9/2020	Mr. Yuktesh Chintamadaka, IBM India Software Labs Developer Advocate	https://www.dscasc.edu.in/images/mca/coe/BD11doc-min.pdf
12	IBM Series 4 Workshop on "Machine Learning Using Python"	17/9/2020	Mr. Yuktesh Chintamadaka, IBM India Software Labs Developer Advocate	https://www.dscasc.edu.in/images/mca/coe/BD12doc-min.pdf
13	IBM Series 3 Workshop on "Machine Learning Using Python"	10/9/2020	Mr. Yuktesh Chintamadaka, IBM India Software Labs Developer Advocate	https://www.dscasc.edu.in/images/mca/coe/BD13doc-min.pdf
14	IBM Series 2 Workshop on "Machine Learning Using Python"	3/9/2020	Mr. Yuktesh Chintamadaka, IBM India Software Labs Developer Advocate	https://www.dscasc.edu.in/images/mca/coe/BD14doc-min.pdf
15	Technical Talk on "Microsoft Certification Program On Python with PL/SQL"	26/8/2020	Manish Kumar, Head of Institutional Collaboration Singh, ATS Technologies Pvt Ltd, Bangalore.	https://www.dscasc.edu.in/images/mca/coe/BD15doc-min.pdf
16	Research Work- Paper publication	July 2020 (Best Paper Presentation Award Received)	04 (2 Faculty members and 2 Students) Prof. Suneetha, Dr. Salini Suresh, Mr. SabhyaSachi, Ms. Niharika Published paper titled "Machine learning –An Intuitive approach in health care", Volume 7 issue 7 , July 2020, IJARSH, International Research	https://www.dscasc.edu.in/images/mca/coe/BD16doc-min.pdf

Sl. No.	Activity Conducted	Date/ Period	Resource Person	Website Link
			Journal on advanced science Hub. e-ISSN-2582-4376.	
17	Webinar on "Artificial Intelligence and Machine Learning"	29/7/2020	Mr. Arihant Jain, Data Scientist, Zest Money	https://www.dscasc.edu.in/images/mca/coe/BD17doc-min.pdf
18	National Webinar on "Robotics Process Automation"	18/7/2020	Mr. Kantesh - Certified UI Developer and Data Analyst, Elisrun Technologies. Bangalore.	https://www.dscasc.edu.in/images/mca/coe/BD18doc-min.pdf
19	FDP Conducted on "Data Science in Healthcare"	13/7/2020	Mrs. Suma S N, Research Associate, Anand Diagnostic Laboratory, Bangalore	https://www.dscasc.edu.in/images/mca/coe/BD19doc-min.pdf
20	Online Certifications	July 2020 - June 2021	Many Students have Learned latest technologies and 65 Online Certifications are done in various Data Science Domains	https://www.dscasc.edu.in/images/mca/coe/BD20doc-min.pdf
21	Research Work- Paper publication	June 2021	Four Papers were Presented and Published in UGC Care listed Journal by Students under the Guidance of our Faculty members. Titles are as below: 1. Title- A COMPREHENSIVE REVIEW OF SECURITY ISSUES IN BIG DATA USING CLOUD COMPUTING 1. Pragathi RA, 2. S P Pooja under Guidance of Faculty: Prof. Suneetha V. 2. Title: INTELLIGENT ADD-ONS USING VOICE COMMANDS FOR ASSISTING SOFTWARES	https://www.dscasc.edu.in/images/mca/coe/BD21doc-min.pdf

Sl. No.	Activity Conducted	Date/ Period	Resource Person	Website Link
			1. KRUTHIKA V, 2. SUPRIYA K L under Guidance of Faculty: Prof. Kohila K. **3. Title: A review of applications of machine learning in smart farming.** **1. Harsha B V, 2. Srinivas Keerti PS under Guidance of Faculty: Prof. Sarakutty.** **4. Title - Significance of Mapreduce tools in bioinformatics.** **1. Nagaveni B, 2. Harsha Naik under Guidance of Faculty: Dr. Kumudavalli.**	

Course: MASTER OF COMPUTER APPLICATIONS

COE – Web Technologies

I. Centre of Excellence in Web Technologies

Centre of Excellence in Web Technologies is constituted with the main aim of promoting web-based technologies and training, motivating students in the same.

The core activities of the Centre of Excellence – Web Technologies include

- Creating awareness in latest technologies in web development.
- Conducting seminars and hands workshops for the students to gain knowledge in the technology.
- Certified Training programs to be designed in the web development and related technologies to upgrade students' skill and improve his / her employability skills.
- To create internship and placement opportunities for the students by tying up with various web-based companies i.e., by signing MOU.
  In the last one year since the commencement of Centre of Excellence – Web Technologies, there were many activities conducted to up skill the students in the field of

web technologies. Webinars were conducted in areas like "Cloud Computing". To understand the working of Content Management Systems a webinar was conducted in this area and Drupal and WordPress tools were explained and demonstrated. Also, topics like "Dynamic Web Programming "," Search Engine Optimization ", Full Stack Development were conducted in association with Jaipur University &Oracle Volunteering respectively. Training was conducted for the faculty in Mobile App Development by Mr. Pavan Holkar. Also, recruitment drives for the students were conducted under the COE by associating with Promena and Unicusmind. Both the companies signed MOU with the department and provided internships to the students. Also under COE – WT a session on "Full Stack Development "was organized for the faculty and students of Department of Computer Science ,Oxford College. A series of research papers were presented and published by the students under the guidance of the faculty in the area of Web Technologies.

Activities Conducted for the period July 2020 – June 2021

Sl. No.	Activity	Date/ Period	Resource Person	Website Link
1.	Organized Webinar on "Search Engine Optimization"	18.06.2021	Ms. Flossy Priya Mascarenhas, Product Manager, Oracle Design Engineering.	https://www.dscasc.edu.in/images/mca/coe/WT-01_compressed.pdf
2.	Organized Webinar on "Full Stack Development"	11.06.2021	Ms. Tejashree Kadam, Sr. Application Developer, Oracle Design Engineering Team	https://www.dscasc.edu.in/images/mca/coe/WT-02_compressed.pdf
3.	Organized Webinar on "Full Stack Development" for Department of MCA, Oxford College, Bangalore. – Sharing Knowledge to outside world	28.05.2021	Prof. Srivatsala, Department of Computer Applications	https://www.dscasc.edu.in/images/mca/coe/WT-03_compressed_1.pdf
4.	Organized Training by Mr. Pavan Holkar, Infant Studio, in Android App Development for faculty. Signed MOU.	Started from 27.04.2021 - Ongoing	Mr. Pavan Holker, & Mr. Sadanand, Infant Studio Pvt Ltd, Bangalore	https://www.dscasc.edu.in/images/mca/coe/WT-04_compressed.pdf
5.	Organized Webinar on "Dynamic Web Programming"	16.03.2021	1. Dr. Ruchi Nanda, Associate Professor, IIS University , Jaipur 2. Dr. Geetika Vyas, Sr.Assistant Professor, IIS University, Jaipur	https://www.dscasc.edu.in/images/mca/coe/WT-05_compressed.pdf
6.	Internship recruitment process by Unicusmind Technologies Private Ltd, Bangalore 24 Students were Selected	05.03.2021	Mr. Seshu B, Consultant and Amabassodor, Unicusmind Technologies Private Ltd	https://www.dscasc.edu.in/images/mca/coe/WT-06_compressed.pdf

Sl. No.	Activity	Date/ Period	Resource Person	Website Link
7.	Organized Webinar on Sales force and Emerging Technologies	25.01.2021	Mr.Jayanth, L&D Manager, Marlabs Innovation Pvt Ltd	https://www.dscasc.edu.in/images/mca/coe/WT-07_compressed.pdf
8.	Organized Workshop on "UI-Programming Skill Set (Basics)"	23.01.2021	Mr.Bharath, Godigit Pvt.Ltd, Software Developer, Ui	https://www.dscasc.edu.in/images/mca/coe/WT-08_compressed.pdf
9.	Organized National Level Webinar on "Green IOT"	20.01.2021	Dr.AnubhaJain, Associate Professor and Head, Department of Computer Science & IT, IIS (deemed to be University), Jaipur	https://www.dscasc.edu.in/images/mca/coe/WT-09_compressed.pdf
10.	Internship recruitment process by PROMENA LLP. Signed MOU. 11 Students were Selected	11.01.2021 & 12.01.2021	Mr. Ashwin & Team, PROMENA LLP.	https://www.dscasc.edu.in/images/mca/coe/WT-10_compressed.pdf
11.	"Workshop on Software Testing and Methodologies"	19-12-2020	Mr. Vipin Jain, Sr. Delivery Manager, Metacube Software Pvt Ltd., Jaipur	https://www.dscasc.edu.in/images/mca/coe/WT-11_compressed.pdf
12.	Organized Webinar on "Content Management System Using Drupal and WordPress"	19.10.2020	Dr B H Chandrashekhar, Associate Professor, R V College of Engineering, Bangalore And Prof. Vishal C, Assistant Professor, R V College of Engineering, Bangalore.	https://www.dscasc.edu.in/images/mca/coe/WT-12_compressed.pdf
13.	Organized Webinar on "Cloud Computing"	7.10.2020	Mr. Adeep Malmotra, Corporate Trainer, Excelvisor and Upskills IQ, Bangalore.	https://www.dscasc.edu.in/images/mca/coe/WT-13_compressed.pdf
14.	Many Students have Learned latest technologies and 58 Online Certifications are done in various Web technology Domains	Jan-June 2021	-	https://www.dscasc.edu.in/images/mca/coe/WT-14_compressed.pdf
15.	Cultivating Research Culture in Students and Faculty Three Papers were Presented and Published in UGC Care listed Journal by Students under the Guidance of our Faculty members. Titles are as below: 1. Title: DevSecops on Cloud storage security 1. Deepika G, 2. Gautama N under Guidance of Faculty: Prof. Sunitha M.	Jan-June 2021	-	https://www.dscasc.edu.in/images/mca/coe/WT-15_compressed.pdf

Sl. No.	Activity	Date/ Period	Resource Person	Website Link
	2. Title: An Evaluation of Potential Threats of Ransomware Attacks 1. Shamantha, 2. Sadananda Hegde 3. Nithin R under Guidance of Faculty: Dr. Salini Suresh. 3. Title: Causes and effects of phishing attack 1. Ankitha hedge, 2. Shivaleela.T under Guidance of Faculty: Prof. Srivatsala			

Course: Master of Commerce - COE - Entrepreneurship

Annual Report of the cell **(From June 2020 to June 2021)** within 200 words.

Workshop on entrepreneurship was organized for the students of first semester, M.Com on 19th of March 2021. Students delivered speech on various topics.

Ms. Tejavathi--Consequences faced by the organizations in pandemic period.
Ms. Bhavana--Financial crises faced by entrepreneurs due to pandemic situation.
Ms. Shreya Hegade--Issues related to women entrepreneurs
Mr. Yathish-- Necessary skills to start a business

An orientation on business canvas model was organized for the students of first semester, M.Com on 18th of March 2021.Resource person was Dr. Savita Trivedi, (Prof. & HOD M.Com Dept.)All the aspects of business canvass were explained by giving examples of start- ups. It was an interactive session. Vote of thanks was given by Ms Aishwarya.

Webinar on Entrepreneurship was conducted on 17th of April 2021 at 12.30 PM on zoom platform. Resource person was **Dr.Vasanthkumar SA.** He addressed students on 12 jewels of entrepreneurship an entrepreneur attitude. During his session, he conducted one quiz and made students to interact on various challenges of entrepreneurship. It was a useful and interactive session. Vote of thanks was given by Mr. Jayanth B, student of second year M.Com.

Webinar on entrepreneurship was organised on 03-06-2021 at 11.20 PM at zoom platform. Resource person **Mrs. Shalini S** explained challenges for Entrepreneurs in

pandemic situation. Current situation is deeply unsetting. Entrepreneurs are facing fear, anxiety, hopelessness, rink in investment, unable to forecast in uncertain scenario. It was an interactive session. Vote of thanks was given by Mr. Sanjay Ananda, student of first year M.Com.

Sl.No.	Event Name	Date	Weblink
1	**Workshop on entrepreneurship**	**19th of March 2021**	https://www.instagram.com/p/CR-viMilzsy/?utm_source=ig_web_copy_link
2	**An orientation on business canvas model**	**18th of March 2021**	https://www.facebook.com/DSCASCBU/posts/368791611531840
3	**Webinar on Entrepreneurship**	**17th of April 2021**	https://www.linkedin.com/posts/mba-bu-dscmit-39493381_webinar-on-planning-for-organizational-business-activity-6827112673092730880-JWhK
4	**Webinar on entrepreneurship**	**3rd of June 2021**	https://twitter.com/PDscasc/status/1421347163989180417?s=20

Head & Members of the Cell

1.Dr.Savita Trivedi.