<u>Add-On Course on Information and Communications</u> <u>Technology (ICT)</u>

Dates: 20.02.2022 to 27.03.2022 Time: 04:00 P.M to 06.00 P.M (Every Tuesday, Thursday, Sunday) (Duration: 30 Hours)

Department of Computer Science, Under the aegis of Internal Quality Assurance Cell (IQAC), Swami Shraddhanand College, University of Delhi organized an Online Add-On Course on Information and Communications Technology from 20th February 2022 to 27th March 2022.

Convener: Dr. Meera Sharma, Teacher In-Charge, Department of Computer Science, Swami Shraddhanand College, University of Delhi

IQAC Convener: Prof. Pradeep Kumar

Add-On Course Committee Convener: Mr. R. K. Srivastava

Course Co-Conveners: Dr. Shveta Kundra Bhatia and Ms. Akanksha Gupta, Department of Computer Science, Swami Shraddhanand College

No. of Students Registered: 65

<u>About the course</u>

Information and Communications Technology (ICT) is used to handle communication processes such as telecommunications, broadcast media, intelligent building management systems, audiovisual processing and transmission systems, network-based control and monitoring functions.

In this add-on course for students, the experts in the field of Computer science and Information technology taught the concepts and applications of ICT. The 30 hours course has designed to help students to understand the basics of computing technologies prevalent in today's digital world. It also aims at making the students more confident with learning new technologies and enhancing their computer and information technology skills.

Topics included (but not limited to) Document preparation, Data handling, Preparing Presentations and Posters, Hindi fonts and typing, Data analysis using Python, Mathematica, Bioinformatics, Online Educational Resources and Virtual labs, Plagiarism checking, Social media ethics and Cyber security, Some new and emerging technologies in Computer Science like Artificial Intelligence, Cloud Computing and Machine learning.

BROCHURE: Click Here!

The day wise course content

S.No.	Date	Торіс	Speaker
1.	20/02/2022	Document preparation in Word	Dr. Vinita Jindal
2.	22/02/2022	Equation typing using MathType,	Ms. Swati,
		Latex	Ms. Neha Ahuja
3.	24/02/2022	Latex continued	Ms. Neha Ahuja
4.	27/02/2022	Advanced tools in Word Processing	Dr. Vinita Jindal
5.	02/03/2022	Presentation making using Google	Ms. Bhavya Grover
		slides	
6.	03/03/3033	Poster making using Canva	Dr. Harita Ahuja
7.	06/03/2022	Data Handling using Spreadsheets	Dr. Meera Sharma,
			Dr. Shveta Kundra Bhatia
8.	08/03/2022	Data analysis using Python	Ms. Akanksha Gupta
9.	10/03/2022	Open access resources useful for	Mr. Akash Singh
		education and research	
10.	13/03/2022	Virtual Labs and Urkund	Dr. Meera Sharma
		Graph plotting in Matlab	Mr. Ankit Sharma
11.	15/03/2022	Societal impacts of Data	Dr. Harita Ahuja
12.	20/03/2022	Hindi fonts typing Bioinformatics	Prof. Vineeta Kumari Dr. Parvinder
13.	22/03/2022	Emerging trends in IT, Artificial	Dr. Vinita Jindal
		Intelligence and Robotics	
14.	24/03/2022	Cloud Computing	Mr. Arun Singh
15.	27/03/2022	Exploring the impact of Data	Prof. Hema Banati
		Analysis	

Inaugural Day Poster



Day-wise Schedule Poster Circulated

















RESOURCE PERSONS

The course was conducted by the resource persons in online mode. The detailed information about the resource persons is mentioned below:

1. Prof. Hema Banati

Prof Hema Banati from Dyal Singh College is an avid researcher in the field of Nature Inspired computing and Social networks. She attained her doctorate in the domain of Human Computer Interaction from University of Delhi, Department of Computer Science. Prof Banati is continuing the walk on the path of research with her Ph.D students, many of whom have successfully completed their Ph.D under her mentorship. She has nearly three decades of teaching experience to undergraduate, postgraduate and Ph.D students. An author of many national and international research publications to her credit, she is also the chief editor of two books published by reputed international publishers and a contributor to two NCERT books. Apart from her role as a dedicated teacher, mentor and researcher, Prof Banati has been on the editorial board of international journals. She has organized many special sessions in conferences and is in the program committee of various conferences of repute. She handles a key role in various advisory committees, selection committees for prominent organizations. A staunch believer of interactive learning, Dr Banati has addressed diverse audience as a keynote speaker in various organizations of repute and looks forward to forge new connects.

2. Dr. Vinita Jindal

Dr. Vinita Jindal is an Associate Professor with more than 20 years of experience in the Department of Computer Science, Keshav Mahavidyalaya, University of Delhi. She was Head of Department of Computer Science, Keshav Mahavidyalaya, University of Delhi from June 2017 till May 2019. Before joining the Department of Computer Science, Keshav Mahavidyalaya, University of Delhi, she worked

as a Manager/ Sr. Faculty in the PCTI Ltd. from July 1999 to July 2001. She did her Doctorate in Computer Science from University of Delhi in 2018. She did her M.Phil. in Computer Science from Madurai Kamaraj University in 2007, MCA from IGNOU in 2000 and Bachelor in Mathematics from University of Delhi in 1997. She is mainly working in the area of Artificial Intelligence and Computer Networks. Her areas of interest include Neural Networks, Machine Learning, Cybersecurity, Intrusion Detection Systems, Dark Web, Deep Learning, Recommender Systems and Vehicular Ad-hoc Networks to name a few. She has published more than 40 research articles in good impact journals, book chapters and Reputed conferences.

3. Dr. Akash Singh

Dr. Akash Singh is working as Assistant Librarian with National Law University since October 2009. Prior to his present assignment, Dr. Akash Singh worked with Indian Law Institute, Kendra Vidyalaya, and IITM Delhi. Dr. Akash obtained his Bachelor's Degree (B.Com) from the University of Delhi, M.A.(Public Administration), LL.B from Meerut University, M.Phil (Library & Information Sciences), and PGDLAN from IGNOU. Dr. Singh has obtained his doctorate from Vikram University, Ujjain. He also qualified UGC-Net three times during 2010(June), 2012(June & Dec). He has credited fourteen edited books and thirty-Three articles in peer-reviewed journals and conferences. His current interest areas are library automation, networking, web-based information resources, and open access initiatives. He was a member team's implementation of Digital library initiations and digitization of the Journal of Indian Law Institute and the Annual Survey of Indian Law. He has a specialization in online reference services and digitization. He is a member of many library associations like Delhi Library Association, Indian Library Association, Govt. of Indian Librarians Association, Special Library Association and All India Media Library Association, India Vision Foundation for serving community libraries in Delhi.

Dr. Akash Singh has also been awarded the Best Young Law Librarian Award instituted by Manupatra and the Association of Indian Law Libraries in September 2019 during the International Conference on Digital Transformation (ICDT) at RGNUL, Patiala, India. He was awarded International Bursaries to attend the Annual Course of International Law from the International Association of Law Libraries in Barcelona, Spain in 2013. Dr. Akash has been awarded the "Best Paper Award" by Library Professional Association (LPA), during International Conference on Knowledge Organization in Academic Libraries (I-KOAL-2017) at Goa University during December 15-16, 2017. Dr. Akash also received the best paper titled "Engendering Heaven for Scholarly Community: Weaving Platform for Open Access Books through Virtual Domain" during International Conference on DigiTTAL organized by NIT, Karnataka in December 2019. He maintains three webportals for the ease of the students like www.openaccessresources.webs.com www.openaccessbooks.webs.com

4. Dr. Meera Sharma

Dr. Meera Sharma is working as Associate Professor in the Department of Computer Science at Swami Shraddhanand College, University of Delhi, Delhi, India since 2005. She has done B.Sc. Computer Science form Acharaya Narendra Dev College, University of Delhi in 2001. MCA from Guru Gobind Singh Indraprastha University, Delhi in 2004. M. Phil in Computer Science from Annamalai University in 2006 and Ph.D. from the Department of Computer Science, University of Delhi in 2018. She has published 32 papers in repute journals and conference proceedings and has successfully guided one student for her doctorate. Her research interests include Mining Software Repositories and Empirical Software Engineering.

5. Dr. Shveta Kundra Bhatia

Dr. Shveta Kundra Bhatia pursued B.Sc. in mathematics from Miranda House University of Delhi in 2001, MCA from Guru Gobind Singh Indraprastha University, Delhi in 2004, M. Phil in Computer Science in 2008 and Ph.D. from the Department of Computer Science, University of Delhi in 2015. She is currently working as Assistant Professor in the Department of Computer Science, Swami Shraddhanand College, University of Delhi. She has been teaching in Swami Shraddhanand College since 2006. Her areas of interest include Data mining, Web Usage Mining, machine Learning and Recommender Systems. She has publications in the area of Web Mining and Recommender systems and is actively working in the area of developing early warning systems using machine learning.

6. Ms. Akanksha Gupta

Ms. Akanksha Gupta is working as Assistant Professor in the department of Computer Science of Swami Shraddhanand College since 2014. She completed her bachelors in computer science with honors from University of Delhi followed by MCA from Bharatiya Vidyapeeth college in 2012. She is currently pursuing Ph.D. in the area of IoT. She has published 5 research papers in International journals in the area of IoT and machine learning and has also written multiple book chapters and presented papers in conferences in her research area.

7. Ms. Neha Ahuja

She is Working as an Assistant Professor in the Department of Mathematics, Swami Shraddhanand College, University of Delhi since 2010. She has been selected for the Fellowship by the Department of Mathematics, University of Delhi to peruse M.Phil. in Algebra. She has qualified NET-JRF Examination. She did her Graduation and Postgraduation from University of Delhi.

8. प्रो. विनीता कुमारी

• प्रो.,हिंदी विभाग, स्वामी श्रद्धानंद कॉलेज, दिल्ली विश्वविद्यालय • M. A. हिंदी, संस्कृत • Ph. D कबीर काव्य के सांस्कृतिक स्रोत • D. Litt. हिंदी संत साहित्य के स्रोत • महासचिव नव उन्नयन साहित्यिक सोसाइट • सह संपादक सहृदय शोध पत्रिका • टेलीविजन पर UGC के स्वयम के चैंनल व्यास पर B. A. और M. A. के पाठ्यक्रम पर आधारित 100 से अधिक लाइव लेक्चर्स। • साहित्य भूषण सम्मान, • सूर्या अन्तरभारती भाषा सम्मान से सम्मानित • पुस्तकों का लेखन एवं संपादन • से अधिक शोध पत्र विभिन्न प्रतिष्ठित शोध पत्रिकाओं में प्रकाशित • विभिन्न सरकारी शैक्षिक संस्थाओं में सक्रिय भागीदारी एवं सदस्यता

9. Dr. Harita Ahuja

She joined the college in 2004, and was awarded Ph.D. from University of Delhi in 2014. She believes that teaching is an art in which a teacher creates a mirror image of her concepts in the minds of her students. Dr. Harita uses ICT tools to improve the quality of teaching and learning among heterogeneous students. She uses Free and Open source software, with the aim for professional development of the students and has been associated with Career Counseling and Placement Cell of the college since 2014. To enrich the students to "Beyond the Classroom Teaching" and create a "Research Culture" among the students, she has been Department Coordinator, DBT Star Scheme of the college since 2017. Dr. Harita has many research papers in journals and conferences to her credit.

10. Ms. Swati

Ms. Swati pursued B.Sc. from Dr. B.R. Ambedkar University Agra in 2007, integrated M.Sc. & M.Phil in Mathematics in 2010 from Dayalbagh University, Agra. She is currently working as an Assistant Professor in the Department of Mathematics, Swami Shraddhanand College, University of Delhi since July 2013. Her areas of interest include Differential equations, Numerical methods, Linear Algebra, Calculus. She is actively engaged in research in the area of Mathematical Modeling and Simulation.

11. Dr. Parvinder Kaur

Dr. Parvinder Kaur is a Microbiologist who did her graduation from Gargi college, followed by post graduation and Ph.D. from the University of Delhi South Campus. She qualified CSIR-UGC NET in Life Sciences in the year 2000 and pursued doctorate in the field of Industrial Microbiology specializing in the production of Phytase enzyme from the yeast *Pichia anomala*. During research for doctorate, she was awarded short term German Academic Exchange Service scholarship by UGC-DAAD to pursue research at the Institute of Plant Genetics and Crop Plant Research (IPK) at Gatersleben, Germany for six months, where she successfully worked on the isolation of phytase genes from two different yeast. She is a recipient of Young Scientist award at an 'International conference on Microorganisms in Environmental Management and Biotechnology', held at Barkatullah University, Bhopal and Young Scientist Award in Industrial Microbiology by AMI (Association of

Microbiologists of India) at Panjab University, Chandigarh in 2011. She has nearly 25 peer reviewed publications to her credit, including research papers, review articles, popular science articles and chapters in International books and has attended and presented her work in numerous Conferences & Symposia. She is a life member of Association of Microbiologists of India (AMI) and The Biotech Research Society (BRSI) and has been a member of American Society of Microbiologists (ASM). She also holds a Diploma in Business Management form IMT, Ghaziabad and a Post Graduate Diploma in Bioinformatics from BII, Noida.

Dr. Kaur has nearly 16 years of experience in teaching and has taught Microbiology to under-graduate and post-graduate students at various colleges of Delhi University including Institute of Home Economics, Bhaskaracharya College of Applied Sciences and presently, Swami Shraddhanand college, where she has been working as an Assistant Professor since 2009. She had briefly worked as a Lecturer at Amity University, Noida too. During her tenure in Swami Shraddhanand College, she has successfully completed two DU-Interdisciplinary Innovative projects.

S. No.	Name	College/Institution	Course and semester
1	Aashi	Swami Shraddhanand College	B.Sc. Hons Microbiology 1 st year
2	Abhimanyu Kumar	Swami Shraddhanand College	B.Sc. Physical Science, 4 th Semester
3	Abhishek Bhardwaj	Rajdhani College	B.Com Hons 6 th Semester
4	Abhishek Panthri	Swami Shraddhanand College	Geography Hons. 6th Semester
5	Ajay Kumar	Swami Shraddhanand College	B.A. Prog. 4 th Semester
6	Akansha	Swami Shraddhanand College	B.Sc. ND 6 th
7	Akash choudhary	Swami Shraddhanand College	B.A. Prog. 4 th Semester
8	ANAND KUMAR	Swami Shraddhanand College	B.A. Hindi Hons 1 st Semester
9	Anisha Ashraf	Swami Shraddhanand College	B.Sc. Physical Science 4 th Semester
10	Anjali chawla	Swami Shraddhanand College	B.A. Prog. 1 st Semester
11	Ankit Dhiman	Swami Shraddhanand College	B.Sc. Physical Science with Chemistry 6 th Semester
12	Ankit Kumar	Swami Shraddhanand College	B.A. Programme (Eco + Pol Science)
13	Ankita Mishra	Swami Shraddhanand College	B.A. English Hons 4 th Semester
14	Anurag Sapra	Swami Shraddhanand College	B.A. Prog. 4 th Semester
15	Ayush Pratap Singh	Swami Shraddhanand College	B.Sc. Physical science 6 th Semester
16	Bhavya Bajaj	Swami Shraddhanand College	B.Sc. Physical science 6 th Semester

STUDENT'S DETAILS

17	Deenenshu Gulie	Swami Shraddhanand	B.Sc. Physical science 4 th Semester
	Deepanshu Gulia	College	
18	Dhruv Sharma	Swami Shraddhanand College	B.Sc. Hons Microbiology 1 st Semester
19	HARSH RANA	Swami Shraddhanand College	B.Sc. Physical science 6 th Semester
20	Harsh singh	Swami Shraddhanand College	B.Sc. Physical science 4 th Semester
21	Jashandeep Singh Brar	Swami Shraddhanand College	B. Sc. Hons Microbiology
22	Jiya	Swami Shraddhanand College	BA Programme (Mathematics + Computer Applications) 1 st Semester
23	Kajal Chaliya	Swami Shraddhanand College	BA Programme (Computer Application + Economics) 1 st Semester
24	Karthik Prashant	Swami Shraddhanand College	B.Sc. Hons Microbiology 1 st Semester
25	Kaushalesh Upadhyay	Swami Shraddhanand College	B.Sc. Physical Science 6 th Semester
26	Khushboo	Swami Shraddhanand College	B.Sc. Physical Science 6 th Semester
27	Krishan kant	Swami Shraddhanand College	Botany Hons and 1 st Semester
28	Mahi sahlot	Swami Shraddhanand College	B.A. Programme 4 th Semester
29	Manender singh	Swami Shraddhanand College	B.Sc. Physical Science 4 th Semester
30	Manish Dhoundiyal	Swami Shraddhanand College	B.Sc. Physical Science 4 th Semester
31	Manya Goyal	Swami Shraddhanand College	B.Com Hons 1 st Semester
32	MD NASSIM	Swami Shraddhanand college	BA Hons HINDI
33	Mohit	Swami Shraddhanand College	B.Sc. Physical Science 6 th Semester
34	Naveen kumar	Swami Shraddhanand College	B.A. Hons Geography
35	Nishant Sharma	Swami Shraddhanand College	Physical Science Semester 6 th Semester
36	Nishita singh	Swami Shraddhanand College	B.Sc. Physical Science 4 th Semester
37	Nitesh Chand	Swami Shraddhanand College	B.Sc. Physical Science 6 th Semester
38	Prashant Kumar	Swami Shraddhanand College	B.Sc. Life Sciences 4 th semester
39	Pratibha	Swami Shraddhanand College	B.A. Programme (Pol. Sci + English) 3 rd Semester
40	Praveen Kumar Shukla	Swami Shraddhanand college	B.Sc. Physical Science 6 th Semester
41	Priya Dahima	Swami Shraddhanand College	B.A. Programme (Computer Application + Economics) 1 st Semester
42	Rahul Mudgal	SSNC	B.Sc. Physical science 6 th Semester
43	Rajan Kumar	Swami Shraddhanand College	B.Sc. Physical science 4 th Semester
44	RAJSHAYAMA	Swami Shraddhanand College	B.Sc.(H) Microbiology 1st Semester

45	RIYANSHU JAIN	Swami Shraddhanand College	B.A.(H) GEOGRAPHY, 6 th Semester
46	Rohit Tiwari	Swami Shraddhanand College	B.A. (Hons) History
47	Roshan Kumar	Swami Shraddhanand College	B.Sc. Physical Science 6 th Semester
48	Sandeep Kumar Kashyap	Swami Shraddhanand College	B.A. Programme 4 th Semester
49	Satyam kumar	Swami Shraddhanand College	Geography Hons 6 th Semester
50	Saurav Gopal	Swami Shraddhanand College	B.A. Programme (Hindi + Pol Sc.) 4 th Semester
51	Shagun	Swami Shraddhanand College	BA Programme (Computer Application + Economics) 1 st Semester
52	Sheen Raina	Swami Shraddhanand College	B.A. Programme Semester 4 th Semester
53	Shivam Chauhan	Swami Shraddhanand College	B.A. Programme 6 th Semester.
54	Shivendra Singh	Swami Shraddhanand College	B.Com Programme 6 th Semester
55	Shreeya bakshi	Swami Shraddhanand College	B.Com Hons 1 st Semester
56	Srividya K S	Swami Shraddhanand College	BA Geography Hons
57	Sumit Kumar	Swami Shraddhanand College	History Hons 4 th Semester
58	Suraj pratap singh	Swami Shraddhanand College	Hindi Hons 4 th Semester
59	Tehlil Irtikha Hasan	Swami Shraddhanand College	B.Sc. Physical Science 4 th Semester
60	Vansh Vadera	Swami Shraddhanand College	B.Sc. Hons Microbiology, 1 st Semester
61	VARUN GUPTA	Swami Shraddhanand College	B.Sc. Physical science 6 th Semester
62	Vedant Shorey	Swami Shraddhanand College	B.A. Programme (OMSP + History)
63	VIDYA SAGAR	Swami Shraddhanand college	B.A. Programme (Hindi + Political Science) 4 th Semester
64	Yash Bharti	Swami Shraddhanand College	B.Sc. Microbiology 1 st Semester
65	Yogender kumar	Swami Shraddhanand College	B.Com Programme 1 st Semester

Student's Feedback







<u>Feedback</u>

- It was amazing, especially the AI class and online programming platforms.
- The course was just extravagant! Loved it! Learned so many new software, techniques and much more!
- The course was really good, some topics/programmes were very interesting and useful. It has introduced me to a different world of computer education, which will help me to find a better career for me. thank you for providing such a well-constructed course. Thank You.
- This add on course was a short period course but at the same time very informative and very helpful. The classes were well organized and the presentations are visually attractive and descriptive.
- I am really satisfied with this add-on course. I have learned even more topics than my expectations. I learned my computer basics that I always want to learn. Thanks to every teacher who teach us and conduct this add-on course.

<u>ASSESSMENT DONE</u>

For the assessment of students, a quiz was organized. The quiz aimed at testing the hands-onexpertise of students in the fields taken up in the course.

TOPPER

Sheen Raina ($BA(P) 6^{th}$ Semester)

Runners up

Kaushalesh Upadhyay Mohit Yadav Harsh Rana Roshan Kumar Karthik Prashant

MARKS SCORED

The marks details are attached as separate document with the mail.















Certificate of Participation for the Students



This is to certify that xyz from Swami Shraddhanand College has successfully completed the 30 hours online Add-On course on "Information and Communications Technology" organized by Department of Computer Science, Swami Shraddhanand College, University of Delhi under the aegis of Internal Quality Assurance Cell, from 20th Feb - 27th March, 2022.

Prof. Parveen Garg Principal Prof. Pradeep Kumar Convenor, IQAC Mr. R. K. Srivastava

Convenor, Add-On Courses Committee

Dr. Meera Sharma

Course Convenor