Workshoip report

Two days workshop on

Recent trends in computing

Organised by

Department of Computer Science & applications

Under the ugc scheme of deen dayal upadahyaya kaushal Kendra



Sanatan dharma college(Lahore)

Ambala cantt

22-23 Feb,2019

**Target Audience: Students of B.Voc SD, BCA, BSc IT, B.Sc C.Sc**

**Faculty of Department of Computer Science & IT**

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**Introduction**

Computer Science and Information technology is an ever-emerging field with new developments every other day. Technology is growing at exponential rate and People especially students from computer science and IT streams are curious about these latest discoveries and they want to know more about that. Although the syllabus of B.Voc Software Development has been designed as per latest trends but IT is growing at exponential growth thus it is academic duty of the institution to provide platform to students interact with academicians from institutes of high eminence and IT Professionals from IT industry to explore new trends and learn latest technologies. They should leave behind all the obsolete topics and explore the new ones.

Understanding the student’s quest for knowledge, Department of Computer Science and Applications has decided to organize the two day workshop on burning topic **“Recent trends in Computing”** and invite high profile academicians and IT experts to share their wisdom and experiences on the above topic with students and faculty of Department of Computer Science & Applications & Information Technology.

**Objectives of Workshop:**

1. **To acquaint students of department of computer science & applications and Information technology with latest trends in computing.**
2. **To provide platform to students and faculty to interact with academicians from institute of high eminence and IT experts from IT industry.**
3. **To review the market trends so as to send suggestions to university for the updation of curriculum if required.**
4. **Stimulating the development of a network for information sharing throughout the IT sector.**
5. **Introducing and demonstrating the practical usage of IOT, Smart Homes, Wireless Communication Technology, ZIGBEE, UWB imaging application , RFID Applications, Cloud Computing Big Data, Artificial intelligence etc.**

**Expected Outcome of Workshop**

The expected outcome of the workshop is to train the faculty and students with latest trends in the IT Industry. The professional trainers from the industry will give practical exposure to **17** faculty members of Computer Science & IT and **69** students of department of Computer science and Information technology. They will enhance the technical skills of the participants in the field of Cloud Computing, Dockers,How to strengthen the programming foundations, Wireless Communication Technology, IOT, Entrepreneurship skills.

The training of latest technology will equip students with the hard skill required currently in the IT Industry. The training of IT Professionals is expected to result in the following:

• Increased awareness regarding the latest trends in IT Sector.

• Working exposure of Dockers in Linyx.

* Creation of containers in dockers in Linyx operating System on Cloud
* Working and Technology behind Captcha.
* Working of RFID Applications.
* Working of Zigbee, UWB Imaging Applications.
* Technology behind Smart Homes and Smart Cities.

**Program Schedule**

**SANATAN DHARMA COLLEGE (LAHORE)**

**AMBALA CANTT., (HARYANA)**

**NAAC Accredited Grade ‘A+’ with CGPA 3.51 in the third cycle |**

**College with Potential for Excellence - UGC, New Delhi**

**Two Day Workshop on Recent Trends in Computing**

**Program: Day-1 (22-02-19)**

|  |  |  |
| --- | --- | --- |
| **Session** | **Venue :Seminar Room (FF)** | |
| Registration  (09:00 am- 9:30am) | **Registration**  (Mandeep Kaur & Rakhi) | |
| Inaugural cum First Technical Session  (09:30am-1:00pm) | 1. | **Welcome by Nidhi Sharma, Organizing Secretary** |
| 2. | **Lighting of Deep Shikha** |
| 3. | **Floral Welcome of Resource Persons-I & II**  Stage Conduct : Nidhi Sharma,Organizing Secretary |
| 4. | **Department Profile & Workshop Theme Presentation**  Dr. Girdhar Gopal ,Coordinator |
| 5. | **Welcome Note**  Dr.Rajinder Singh, Principal |
| 6. | **Introduction of Both Speakers**  Prof. Rakesh Kumar, Prof. Rajender Nath  Stage Conduct : Nidhi Sharma,Organizing Secretary |
| 7. | **Address by Resource Person**  Prof. Rakesh Kumar, Department of Computer Science & Applications, KUK |
| 8. | **Thanks & Tea Break (10 mins)**  Stage Conduct : Nidhi Sharma,Organizing Secretary |
| 9. | **Invite all Back & Call Prof. Rajender Nath**  Stage Conduct : Nidhi Sharma,Organizing Secretary |
| 10. | **Address by Resource Person**  Prof. Rajender Nath, Department of Computer Science & ApplicationsKUK |
| 11. | **Token of Respect to both Resource Persons**  Stage Conduct : Nidhi Sharma,Organizing Secretary |
| 1:00 pm -2:00 pm | **Lunch Break** | |
| Second Technical Session  (2:00pm-3:30 pm) | 12. | **Invite all Back**  Stage Conduct : Nidhi Sharma,Organizing Secretary |
| 13. | **Floral Welcome of Resource Person-III**  Stage Conduct : Nidhi Sharma,Organizing Secretary |
| 14. | **Introduction of Mr. Arun Goyat**  Stage Conduct : Dr. Girdhar Gopal ,Coordinator |
| 15. | **Address by Resource Person**  Mr. Arun Goyat  Founder CodeQuotient, Mohali |
| 16. | **Token of Respect to Resource Person**  Stage Conduct : Nidhi Sharma,Organizing Secretary |

**Program: Day-2 (23-02-19)**

|  |  |  |
| --- | --- | --- |
| **Session** | **Venue :Seminar Room (FF)** | |
| Third Technical Session  (09:30am-1:00pm) | 1. | **Summary of Previous Day**  Stage Conduct : Mandeep Kaur,Organizing Secretary |
| 2. | **Floral Welcome of Resource Persons-IV**  Stage Conduct : Mandeep Kaur,Organizing Secretary |
| 3. | **Introduction of Speaker**  Mr. Vipin Gupta, U-Net Solutions Moga, Punjab  Stage Conduct : Mandeep Kaur, Organizing Secretary |
| 6. | **Address by Resource Person**  Mr. Vipin Gupta, U-Net Solutions Moga, Punjab |
| 7. | **Thanks & Tea Break (10 mins)**  Stage Conduct : Mandeep Kaur,Organizing Secretary |
| 8. | **Invite all Back & Call**  Mr. Vipin Gupta  Stage Conduct : Mandeep Kaur,Organizing Secretary |
| 9. | **Address by Resource Person**  Mr. Vipin Gupta, U-Net Solutions Moga, Punjab |
| 10. | **Token of Respect to both Resource Person**  Stage Conduct : Mandeep Kaur,Organizing Secretary |
| 1:00 pm -2:00 pm | **Lunch Break** | |
| Second Technical Session  (2:00pm-3:30 pm) | 12. | **Invite all Back**  Stage Conduct : Mandeep Kaur, Organizing Secretary |
| 13. | **Floral Welcome of Resource Person-V**  Stage Conduct : Mandeep Kaur,Organizing Secretary |
| 14. | **Introduction of Mr. Arun Goyat**  Stage Conduct : Mandeep Kaur,Organizing Secretary |
| 15. | **Address by Resource Person**  Prof. Shuchita Upadhayay, Department of Computer Science & Applications, KUK |
| 16. | **Token of Respect to Resource Person**  Stage Conduct : Mandeep Kaur,Organizing Secretary |
| 17. | **Report & Vote of Thanks by Ms. Amandeep Mehta**  Stage Conduct : Mandeep Kaur,Organizing Secretary |

**List of Resource Persons(Academicians)**

1. Prof. Rakesh Kumar,

Chairman & Professor,

Department of Computer Science & Applications,

Kurukshetra University, Kurukshetra

1. Prof. Rajender Nath,

Professor Department of Computer Science & Applications

Kurukshetra University, Kurukshetra

1. Prof. Shuchita Upadhayay,

Professor, Department of Computer Science & Applications,

Kurukshetra University, Kurukshetra

**List of Resource Persons (Experts from Industry)**

1. Mr. Arun Goyat

Founder CodeQuotient, Mohali

1. Mr. Vipin Gupta,

U-Net Solutions Moga, Punjab

**List of Participants (Faculty)**

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Name** | **Department** |
| 1 | Ms. Amandeep Mehta | Computer Sc. & App. |
| 2 | Ms. Poonam Rani | Computer Sc. & App. |
| 3 | Ms. Nidhi Sharma | Computer Sc. & App. |
| 4 | Ms. Mandeep Kaur | Computer Sc. & App. |
| 5 | Ms. Ruchi Sharma | Computer Sc. & App. |
| 6 | Ms. Meenakshi Sharma | Computer Sc. & App. |
| 7 | Ms. Kamna Billus | Computer Sc. & App. |
| 8 | Ms. Minakshi Gupta | Computer Sc. & App. |
| 9 | Ms. Himanshu | Computer Sc. & App. |
| 10 | Ms. Shaina Gambhir | Computer Sc. & App. |
| 11 | Ms. Rakhi | Computer Sc. & App. |
| 12 | Ms. Monika | Computer Sc. & App. |
| 13 | Ms. Shikha Verma | Computer Sc. & App. |
| 14 | Ms. Rashi | Computer Sc. & App. |
| 15 | Mr. Palvinder Singh | Elec. & I.T. |
| 16 | Ms. Preeti Verma | Elec. & I.T. |
| 17 | Dr. Arti Arora | Elec. & I.T. |

**List of Participants(Students)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **ROLL NO.** | **NAME** | **CLASS** |
|
| 1 | 2365910009 | Abhishek | B.Sc.(CSE)-I year |
| 2 | 1631810001 | Anupam | B.Com(CAV)-II year |
| 3 | 2365910006 | Dhruv | B.Sc.(CSE)-I year |
| 4 | 1615612 | Saif Ali | BCA-III year |
| 5 | 1615608 | Ranjith | BCA-III year |
| 6 | 1615605 | Masoom Ali | BCA-III year |
| 7 | 1615641 | Ajay | BCA-III year |
| 8 | 2365520016 | Ayushi | BCA-I year |
| 9 | 1615213 | Heena | BCA-III year |
| 10 | 1615203 | Sahiba | BCA-III year |
| 11 | 2365710018 | Mohit Kumar | B.Sc.(Hons)-IT-I year |
| 12 | 1615214 | Ritika | BCA-III year |
| 13 | 1631820007 | Sejal | B.Com(CAV)-II year |
| 14 | 1631820008 | Himani | B.Com(CAV)-II year |
| 15 | 1631810002 | Satwinder | B.Com(CAV)-II year |
| 16 | 1631810008 | Bikram | B.Com(CAV)-II year |
| 17 | 1631820006 | Cheshta | B.Com(CAV)-II year |
| 18 | 1631810007 | Govind | B.Com(CAV)-II year |
| 19 | 1631820012 | Ayubi | B.Com(CAV)-II year |
| 20 | 1631820015 | Himanshi | B.Com(CAV)-II year |
| 21 | 1631810003 | Nikhil | B.Com(CAV)-II year |
| 22 | 2365710007 | Suraj Dhiman | B.Sc.(Hons)-IT-I year |
| 23 | 1631810009 | Vijay | B.Com(CAV)-II year |
| 24 | 1631810011 | Ritesh | B.Com(CAV)-II year |
| 25 | 1631810004 | Aman | B.Com(CAV)-II year |
| 26 | 1631810017 | Nitin | B.Com(CAV)-II year |
| 27 | 1615401 | Rythem | B.Sc.(CSE)-III year |
| 28 | 1615903 | Mehul | B.Voc(SD)-III year |
| 29 | 1615928 | Aslam | B.Voc(SD)-III year |
| 30 | 1615902 | Gourav Kumar | B.Voc(SD)-III year |
| 31 | 2365710002 | Ajay | B.Sc.(CSE)-I year |
| 32 | 2365710010 | Gaurav | B.Sc.(CSE)-I year |
| 33 | 2365710004 | Vishal Saini | B.Sc.(CSE)-I year |
| 34 | 1645010017 | ketan | B.Voc(SD)-II year |
| 35 | 2379410002 | Prateek | B.Voc(SD)-I year |
| **Sr. No.** | **ROLL NO.** | **NAME** | **CLASS** |
| 36 | 164501000 | Gaurav | B.Voc(SD)-II year |
| 37 | 2379410015 | Kunal | B.Voc(SD)-I year |
| 38 | 2379410024 | Adit | B.Voc(SD)-I year |
| 39 | 2379410003 | Anshuman | B.Voc(SD)-I year |
| 40 | 2379410020 | Deepak | B.Voc(SD)-I year |
| 41 | 2379410022 | Chetan | B.Voc(SD)-I year |
| 42 | 2365520003 | Garima | BCA-I year |
| 43 | 2376410021 | Shivam | B.Voc(SD)-I year |
| 44 | 1631310017 | Piyush | B.Sc.(Hons)-IT-II year |
| 45 | 2379410008 | Gourav | B.Voc(SD)-I year |
| 46 | 2379420008 | Shivani | B.Voc(SD)-I year |
| 47 | 2379420005 | Nishu | B.Voc(SD)-I year |
| 48 | 2379420002 | Mehak | B.Voc(SD)-I year |
| 49 | 2379420009 | Khushi | B.Voc(SD)-I year |
| 50 | 2379420010 | Muskaan | B.Voc(SD)-I year |
| 51 | 2379420011 | Muskaan | B.Voc(SD)-I year |
| 52 | 2379420004 | Sakshi | B.Voc(SD)-I year |
| 53 | 2379420006 | Tiksha | B.Voc(SD)-I year |
| 54 | 1615301 | Priyanka | B.Sc.(Hons)-IT-III |
| 55 | 1615306 | Anjali | B.Sc.(Hons)-IT-III |
| 56 | 1615308 | Kanupriya | B.Sc.(Hons)-IT-III |
| 57 | 1615709 | Ankush | B.Sc.(Hons)-IT-III |
| 58 | 1615713 | Tanmay | B.Sc.(Hons)-IT-III |
| 59 | 1615720 | Satish | B.Sc.(Hons)-IT-III |
| 60 | 1615725 | Shivam | B.Sc.(Hons)-IT-III |
| 61 | 1631320001 | Jaspreet | B.Sc.(Hons)-IT-II |
| 62 | 1631320004 | Navneet | B.Sc.(Hons)-IT-II |
| 63 | 1631310001 | Subham | B.Sc.(Hons)-IT-II |
| 64 | 2365720002 | Mahima | B.Sc.(Hons)-IT-I |
| 65 | 1631110050 | Bhupesh Hans | BCA-II |
| 66 | 1631110046 | Vipin Singh | BCA-II |
| 67 | 1631110034 | Yogesh Chauhan | BCA-II |
| 68 | 1631110031 | Ujjwal Kumar | BCA-II |
| 69 | 1631110037 | Amrish Kumar | BCA-II |

**Report of Event**

With the vision to provide the knowledge of Recent Trends in Computing, Department of Computer Science & Applications has organized this two day workshop. Through this workshop the participants get to know the latest and global trends about computing which are happening throughout the world.

**On 22nd we had three sessions**:

* Inaugural session was followed by Prof. Rajender Nath, Department of Computer Science & applications, Kurukshetra University, Kurukshetra, Sir eagerly addressed the cutting edge area growth of IOT: Internet of Things and its applications in his speech. His speech is remarkable and the audience was impressed with his immense knowledge on IOT.
* Our second resource person was Prof. Rakesh Kumar, Chairperson Department of Computer Science & applications, Kurukshetra University, Kurukshetra guided our audience with the information of  CAPTCHA which is an  [acronym](https://en.wikipedia.org/wiki/Acronym) for "completely automated public [Turing test](https://en.wikipedia.org/wiki/Turing_test) to tell computers and humans apart” is a type of [challenge–response](https://en.wikipedia.org/wiki/Challenge%E2%80%93response_authentication) test used in [computing](https://en.wikipedia.org/wiki/Computing) to determine whether or not the user is human.
* Our last session was conducted by Mr. Arun Goyat, Founder of CodeQuotient Mohalli, he interacted with the audiences and explained the difference between product based and service based companies.

**Vote of Thanks**

**Vote of Thanks**

Women with brains and exuberance ,Dr. Shuchita Upadhayay, Prof in Computer Sc & App, Kurukshetra University Kurukshetra, A man of distinction Dr. Girdhar Gopal,Head Department of Computer Science and Applications and Coordinator of today’s event, A man with vision & high intellect , Dr Rajinder Singh , Head of our institute, my co-fellows and dear students,

A very warm afternoon to one and all,

At the outset, I am honoured and thankful to the organizing committee for giving me the opportunity to extend a vote of thanks to all those who have contributed in one way or the other to make this workshop a success.

I, on behalf of Sanatan Dharma College, and the entire organising team of this two day workshop on Recent trends in Computing , fraternity of computer science & applications and on my own behalf extend a very hearty vote of thanks to all resource persons for gracing us with their presence and sharing with us their words of wisdom and opinions in these two days!

A big thank you to Dr. Rajinder Nath, Prof in Computer Science & Applications, Kurukshetra University Kurukshetra for insightful opening remarks about technology that have set the tone for our two days workshop and making our students under stand the concept of Internet of things and smart devices in very simple way.

I must mention our deep sense of appreciation to Prof. Rakesh Kumar, Chairman , Department of Computer Science and Applications for inspiring us with his ideas on Human based computations.His stress on the fact that today industry do not look for degrees but look for candidates with knowledge and skill has motivated our students to work hard to learn latest technologies.

I like to express our sincere thanks to MrVipin Gupta , U-Net Solutions Moga, Punjab for excellent coverage of Cloud computing and demonstrating the working of clouds.

We would also like to acknowledge our gratitude to Mr Arun Goyat for exposing his theory of

I put on record my deep & sincere appreciation to Dr. Shuchita Upadhayaya for blessing us with her gracious presence and sharing with us her vast knowledge of wireless communication Technologies. We all are inspired by your great words madam and definitely our students were on treat today that they got chance to hear from you about Zigbee, Ultra Wide Band and specially UNB imaging applications and RFID applications. Thank you madam for sparing your precious time inspite of your tight schedule.Use your passion, values and inspiration to lead you- Your advice will help our students to build their future.

We all are inspired by your great words madam.

I take this opportunity to thank the driving force behind this event who is none other than our worthy Principal Dr Rajinder Singh, A visionary leader who always strive to train his students and faculty with latest technology. Sir we are thankful to you for your constant support and guidance and for all words of wisdom that radiated a source of energy within us.We will ever remain greatful to you and we thank you for being with us today.

I would like to take this opportunity to place on record our hearty thanks to Dr. Girdhar Gopal for the perfect logistic support and guidance he has extended to the team in all the activities and ensuring that the entire team do the right thing in the right way.

Well, ladies and gentlemen, an event like this cannot happen overnight. The wheels start rolling weeks ago. It requires planning and a birds eye for details. We have been fortunate enough to be backed by a team of very motivated and dedicated colleagues of Department of Computer Science and Applications who know their job and are result oriented.My Special thanks to the young organizing secretaries Madam Mandeep Kaur and Nidhi Sharma who were working day and night starting from designing the invitation to handing over the certificates. I congratulate both of them for the grand success of the event.

Finally I would fail in my duty if I don’t put on record my sincere appreciation and gratitude to Madam Meenakshi for excellent live coverage of this event through youtube channel. Madam your effort will help students to view the portions of demonstrations whiuch they missed out or could not understand at the time of delivery of lecture.

My sincere thanks to Prateek , student of B.Voc SD-I for recording the glorious moments of the event through his camera.

I also wish to thank the students who have attended this workshop The interest and enthusiasm you have shown is indeed a good sign for the future.

Again my sincere thanks to all speakers, faculty members and students.

Have a nice day.