ONE WEEK WORKSHOP

ON

ESSENTIALS OF COMPUTER – Series I

(EOC-SI)

(24th -30th August, 2022)

Organized By

Department of BCA

Nagrota Educational Society for Professional Advancement- (NESPA)

Govt. Degree College Nagrota Bagwan Kangra (H.P.)- 176047

ABOUT THE WORKSHOP

Computers are an essential part of the modern era and lives. In today's, World of Science and Technology, computers are used in almost all the fields and sectors, and across the people of all age groups for serving various needs and purposes. Computers play a crucial role in people's day-to-day activities, studying, gathering information, doing research or completing any work or task. This workshop has been designed for diving deeper into trends in Computers along with hands-on sessions on the concepts and tools used in latest technologies.

Taking the above in to account and Golden Jubilee celebrations of Independence under "Azadi Ka Amrit Mahotsav". The Department of BCA is organizing one week workshop on "Essentials of Computer" (Series-I) from 24th -30th August,2022 which also includes hands on Sessions. This training program is aimed to discuss the opportunities and challenges of new emerging technologies.

The indicative pool of topics to be covered is as follows:

- ❖ Introduction of computers and its systems
- ❖ Recent trends in Computer Science
- ❖ Programmable Logic Devices
- ❖ Web designing and Application software
- ❖ MS-Office 2021
- ❖ Assembling of computers
- ❖ Data Communications
- ❖ MS-DOS, GNU Plot
- ❖ Artificial intelligence

CHAIRMAN

Dr. ASHOK KUMAR CHAUDHARY (PRINCIPAL)

Govt. College Nagrota Bagwan

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CO-ORDINATOR BCA

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➤ **Prof. SANJEEV KUMAR**

Department of Computer Science, Govt. College S.C.V.B. Palampur

REGISTRATION FEE

➤ Student's Registration Fee ₹550/- which includes workshop kit

➤ QR Coded Certificates will be given to the participants.

VENUE

Conference Hall

REPORT

ON

ESSENTIALS OF COMPUTER- SERIES I

(EOC-SI)

(24th – 30th August, 2022)

Organized by Department of BCA

Govt. Degree College Nagrota Bagwan Kangra (H.P.)- 176047

A detailed Report of the workshop on **"Essentials of Computer"** conducted by Department of BCA, Govt. Degree College Nagrota Bagwan, Distt. Kangra.

Day1:   **24th August,2022**

Session: 1 (9:30-11:30)

9:30-9:50 Registration
9:50-10:00 Lightning of lamp
10:00-10:10 Presentation of bouquet to guests
10:10-10:15 Welcome speech by Principal Dr. Ashok Kumar Chaudhary
10:15-10:20 Welcome speech by Co-ordinator Dr. Manish Sharma
10:20-10:25 Introduction of chief guest and guest honour by Dr. Manish Sharma
10:25-10:30 Speech by Resource person Prof. Sanjay Pandit

Recent trends in Computers by Prof. Sanjay Pandit

The lecture was focused on the key concepts related to IOT and the participants received a brief overview of the following topics: IOT, why IOT is so important, what technologies have made IOT possible, their

applications, what industries can benefit from IOT, how does IOT work, and how is IOT changing the world, what are the benefits of IOT to organizations and some real life examples of an IOT system.

Session: 2 (11:50-1:00)

Introduction to Python by Dr. Dinesh Garg

This session was focused on what is Python used for, what can you do with Python, why is Python so popular, Python's origin and benefits, Python applications like in web development, game development, Machine learning and Artificial intelligence and so on, key features of Python, Python comments, operators, data types, Basics of Input/Output such as taking input from user, printing output to console and Python web framework. The session was very informative. Participants got familiar with the use of Python for creation of different software.

कार्यशाला का आयोजन

नगरोटा बगवां : राजकीय महाविद्यालय नगरोटा बगवां में आयोजित कार्यक्रम में भाग लेते छात्र एवं अन्य।

नगरोटा बगवां, 24 अगस्त (स्वामी): राजकीय उत्कृष्ट महाविद्यालय नगरोटा बगवां में बी.सी.ए, विभाग द्वारा इसैंशमिल्स ऑफ कम्प्यूटर सीरीज–1 नाम की साप्ताहिक कार्यशाला का आयोजन किया गया। इस कार्यशाला का उद्घाटन महाविद्यालय प्राचार्य अशोक चौधरी, डा. संजय पंडित, डा. दिनेश गर्ग साई कालेज ऑफ इंजीनियरिंग द्वारा किया गया। कार्यक्रम के समन्वयक डा. मनीष शर्मा ने बताया कि कार्यशाला में विभिन्न विभागों के रिसोर्स पर्सन कम्प्यूटर व इससे जुड़े विभिन्न आयामों की जानकारी देंगे।

कार्यशाला में कंप्यूटर का दिया जाएगा प्रशिक्षण

संवाद सहयोगी, नगरोटा बगवां ।
राजकीय महाविद्यालय नगरोटा बगवां में बीसीए, विभाग ने इसेंशियल्स ऑफ कंप्यूटर सीरीज-एक साप्ताहिक कार्यशाला बुधवार को शुरू की। इसका उद्घाटन प्राचार्य डा. अशोक चौधरी ने किया। इसमें सई कालेज ऑफ इंजीनियरिंग के डा. संजय पंडित, डा. दिनेश गर्ग ने रिसोर्स पर्सन के रूप में शिरकत की।

कार्यशाला के कार्यक्रम समन्वयक डा. मनीष शर्मा ने बताया कि कार्यशाला में कंप्यूटर व इससे जुड़े विभिन्न आयामों की ...

जानकारी देंगे। इस अवसर पर प्रो. शर्मा, प्रो. सुषम शर्मा, प्रो. मोनिका सपन बख्शी, प्रो. नीरज गांधी, प्रो. भारद्वाज, प्रो. राहुल, आपशा व अन्य संतोष सागर, प्रो. विनोद, प्रो. निधि मौजूद रहे।

Session: 3 (1:30-3:30)

Hands on C++ by Prof. Sanjay Pandit

The hands on session gave exposure to the participants regarding to print numbers entered by the user. Usage of functions and retrieving data from them was the highlight of the session. Participants got familiar with the use of Turbo for creation of different programs. The session was unique as it taught the participants the future of C++ and also introduced them the advantages of C++ over other languages.

Day2:   **25th August,2022**

Day2:   **25th August,2022**

Day2:   **25th August,2022**

Session: 1 (9:30-11:30)

Python and its applications by Dr. Dinesh Garg

The lecture was focused on the key concepts related to Python and the participants received a brief overview of the following topics: Introduction to Python, How to install, How to add environment variable, Python applications such as Embedded applications, CAD applications, Web development, Data Science and data Visualization etc. Few programs has also been taught to students.

Session: 2 (11:50-1:00)

Introduction on MS-Office by Prof. Sanjay Pandit

The lecture was focused on the key concepts related to MS-Excel and the participants received a brief overview of the following topics: what is MS-Excel, worksheet, create a new workbook, open an existing workbook, Microsoft Excel features such as charts, autofill, wizard, pivot table, auto shapes etc. Quick access toolbar, formula bar, name box, wrap text, merge

and centre, formatting options, functions, charts and mail-merge. Few problems in Excel were also discussed.

Session: 3 (1:30-3:30)

Hands on Python by Dr. Dinesh Garg

In this session, programming in Python has been discussed in detail. Students learn how to run the program on the computer. Errors in the student's program has also been removed. Participants got familiar with the use of Django framework for creation of backend applications. The session was unique as it taught the participants the future of Python and also introduced them the real life applications where we use Python such as Youtube, Google, Dropbox etc.

Day3:   **26th August,2022**

Session: 1 (9:30-11:30)

Introduction on Web technology by Er. Rakesh Gupta

The lecture was focused on the key concepts related to Web Technology and the participants received a brief overview of the following topics: what is Internet, difference between Intranet and Extranet, introduction on Website, Web Page, Web applications, browser such as Google chrome, Microsoft Edge etc server, HTML tags.

Session: 2 (11:50-1:00)

Introduction on Web applications by Er. Rakesh Gupta

The lecture was focused on the key concepts related to Web Applications, and the participants received a brief overview of the following topics: what is Static web application, Dynamic web application, what is E-commerce, examples of E-commerce, Single-page, Portal, how to create animated web applications etc.

प्रो. राकेश गुप्ता ने विद्यार्थियों को बेव तकनीकी, एप्लीकेशन व डिजाइनिंग पर दी जानकारी

पूजन भण्डारी नगरोटा बगवां

राजकीय उत्कृष्ट महाविद्यालय नगरोटा बगवां में बीसीए विभाग द्वारा आयोजित साप्ताहिक कार्यशाला के तीसरे दिन मुख्यातिथि महाविद्यालय प्राचार्य डॉ० अशोक चौधरी ने दीप प्रज्वलित कर कार्यशाला का शुभारंभ किया। इस अवसर पर श्री साई कॉलेज ऑफ इंजीनियरिंग से आए रिसोर्स पर्सन प्रो०राकेश गुप्ता ने विद्यार्थियों को बेवतकनीकी, बेव एप्लिकेशन और बेव डिजाइनिंग की जानकारी प्रदान कर उनका ज्ञानवर्धन किया। इस अवसर पर प्रो०सपना,प्रो०नीरजगांधी,प्रो०आशीष,प्रो०शैली ,प्रो०कुंदन,प्रो०मोनिका प्रो०निधि प्रो०राहुल,प्रो०आयशा उपस्थित रहे।

गुप्ताल हुआ ह।

विद्यार्थियों को वैब तकनीक बताई

नगरोटा बगवां, 26 अगस्त (स.ह.): राजकीय उत्कृष्ट महाविद्यालय नगरोटा बगवां में बी.सी.ए. विभाग द्वारा आयोजित साप्ताहिक कार्यशाला के तीसरे दिन मुख्यातिथि महाविद्यालय प्राचार्य ड्ग. अशोक चौधरी ने कार्यशाला का शुभारंभ किया। इस अवसर पर श्री साई कालेज ऑफ इंजीनियरिंग से आए रिसोर्स पर्सन प्रो. राकेश गुप्ता ने विद्यार्थियों को वैब तकनीक, वैब एप्लीकेशन और वैब डिजाइनिंग की जानकारी प्रदान कर उनका ज्ञानवर्धन किया। इस अवसर पर प्रो. सपना, प्रो. नीरज गांधी, प्रो.आशीष, प्रो. शैली, प्रो. कुंदन, प्रो. मोनिका, प्रो. निधि, प्रो. राहुल, प्रो. आयशा उपस्थित रहे।

Session: 3 (1:30-3:30)

Hands on Web designing by Er. Rakesh Gupta

In this session, how to create a website has been discussed in detail. Students learn how to create a web page and design them. Also, students learn like how to create a table, how to create a frame, how to create a link, how to add image in your webpage etc. The session was unique as it taught the participants how to design your webpage with the use of tags.

Day4:   **27ᵗʰ August,2022**

Session: 1 (9:30-11:30)

Introduction on Programmable Logic devices by Dr. R.P.P. Singh

The lecture was focused on the key concepts related to Programmable Logic Devices and the participants received a brief overview of the following topics: Introduction on PLDs and its categories, and its applications, their types such as PROM(Programmable Read-Only Memory), PAL(Programmable Array Logic), PLA(Programmable Logic Array), CPLD(Complex Programmable Logic Device), FPGA(Field Programmable Gate Array), and some examples of programmable devices,

Session: 2 (11:50-1:00)

Introduction on Digital Electronics by Dr. R.P.P. Singh

The lecture was focused on the key concepts related to Digital Electronics and the participants received a brief overview of the following topics: Logic gates, Truth table, properties of boolean algebra, representation of Boolean functions, combinational logic circuits such as adder, subtractor, encoder, decoder etc, flip-flops and sequential circuits.

डॉ. रमिंद्र प्रीत पाल सिंह ने विद्यार्थियों को एप्लीकेशन ऑफ डिजिटल इलेक्ट्रॉनिक्स की दी जानकारी

पूजन भण्डारी नगरोटा बगवां

राजकीय उत्कृष्ट महाविद्यालय नगरोटा बगवां में बी.सी.ए. विभाग द्वारा चलाई जा रही कार्यशाला के चौथे दिन का शुभारंभ प्राचार्य अशोक चौधरी ने दीप प्रज्ज्वलित कर व मां सरस्वती को नमन कर किया। बी सी ए विभाग के समन्वयक डॉ० मनीष शर्मा ने बताया की कंप्यूटर की दुनिया में प्रोग्रामिंग व लॉजिक का बहुत महत्त्व है। किसी भी लॉजिकल डिवाइस को बनाने के लिए किन–किन चीजों का होना जरूरी है इसकी जानकारी छात्रों को प्रदान की जाएगी। कार्यशाला के चौथे दिन श्री साई यूनिवर्सिटी,पालमपुर के साई स्कूल ऑफ इंजीनियरिंग के डीन डॉ० रमिंद्र प्रीत पाल सिंह ने विद्यार्थियों को प्रोग्राम लॉजिक, डिजिटल इलैक्ट्रोनिक, एप्लिकेशन ऑफ डिजिटल इलैक्ट्रोनिक्स की विस्तृत जानकारी प्रदान की। इस अवसर पर स्टाफ सदस्य भी उपस्थित रहे।

कम्प्यूटर की चुनौतियों पर सेमिनार

नगरोटा बगवां। राजकीय स्नातकोत्तर महाविद्यालय नगरोटा बगवां में दैनिक विभाग के सौजन्य से कम्प्यूटर की अनिवार्यता पर सामूहिक सेमिनार का शुभारंभ प्रधानाचार्य अशोक चौधरी की अध्यक्षता और डा. मुनीष शर्मा के संयोजन में बुधवार को हुआ। इस दौरान सांई यूनिवर्सिटी दवाली और इंजीनियरिंग कालेज के प्रोफेसर संजय पंडित, प्रोफेसर आरपीपी सिंह, डा. दिनेश गर्ग, इंजीनियर मुनीष भारद्वाज, इंजीनियर राकेश गुप्ता व पालमपुर प्रोफेसर संजीव कुमार छात्रों को संबंधित विषयों पर अपना उद्बोधन देंगे। मुनीष ने बताया कि कम्प्यूटर आधुनिक युग में जिंदगी का जरूरी हिस्सा बन गया है और सभी क्षेत्रों तथा सभी उम्र के लोगों की दिनचर्या, गतिविधि अध्ययन, सभी जानकारी व शोध आदि में महत्वपूर्ण भूमिका निभाता है। उन्होंने बताया कि सेमिनार का मूल उद्देश्य नई उभरती प्रौद्योगिकी की अनिवार्यता व चुनौतियों के प्रति जागरूक करना है।

Session: 3 (1:30-3:30)

Hands on Digital Electronics by Dr. R.P.P. Singh

The hands on session gave exposure to the participants regarding Xilinx solutions. The software for hardware designing was Xilinx. The session was very informative. Participants got familiar with the use of Xilinx for creation of smart-video security surveillance solutions and next-generation robots.

Day6:   **29th August,2022**

Session: 1 (9:30-11:30)

Introduction on Computer Fundamentals   by Prof. Sanjeev Kumar

The lecture was focused on the key concepts related to Computer fundamentals and the participants received a brief overview of the following topics: what is computer, evolution of computers, why computer developed, features of computer, what is data and instruction, introduction to memory such as primary memory and secondary memory, input devices, output devices, brief overview on hardware and software.

Session: 2 (11:50-1:00)

Introduction on Cyber Security by Prof. Sanjeev Kumar

This session was focused on the key concepts related to Cyber security and the participants received a brief overview of the following topics: Introduction on cyber security, cyber frauds, real life fishing cases, their types, why cyber security , methods of cyber attacks, prevention, how to keep money safe during digital transactions, channels of cyber financial crime, their solutions and precautions. The informative session was something which everybody could relate with.

Session: 3 (1:30-3:30)

Hands on Basics of programming by Prof. Sanjeev Kumar

The hands on session gave exposure to the participants regarding how to compile your C program. To run the program was the highlight of the session. Participants got familiar with the use of Turbo for creation of different programs. The session was unique as it taught the participants the basics of C and the syntax and structure of C-programming.

Day7: 30th **August,2022**

Session: 1 (9:30-11:30)

Test conducted

The test which is conducted is based on the concepts related to all the topics which we have covered in One week workshop.

Session: 2 (11:50-1:00)

Introduction on Routing protocols in Vanet by Dr. Manish Sharma

The lecture was focused on the key concepts related to Routing protocols and the participants received a brief overview of the following topics: Introduction, history, objectives, their methods, simulation evaluation results, applications and future scope.

Session: 3 (1:30-2:45)

Introduction on Artificial Intelligence by Prof. Ayasha Kapoor

The lecture was focused on the key concepts related to Artificial Intelligence and the participants received a brief overview of the following topics: Introduction on A.I., history of A.I., their applications such as Google

search engine, smart cars, social media, entertainment, education etc and the languages which is used in A.I., Ways of implementing A.I., Introduction on Machine learning and deep learning as well.

Valedictory function:

At the end the honourable guest applauded the whole team of BCA department for its all round success and wished a better future for the students. Prizes for the meritorious students were given by the chief guest.

On the basis of test, the winners of BCA 1ST Semester are:

1. Anand Kumar

2. Shivanshu

3. Abhishek

Winners of BCA 3rd Semester are:

1. Aniket

2. Ritesh

3. Aditya

The above winners has been rewarded with the prize as per their position.

Every candidate who entered in this test will receive a certificate of participation. The exhilarating workshop was an unforgettable experience and left a lasting impression on the minds of everyone present.

Vote of Thanks

In the end, we want to thanks our Principal Dr. Ashok Kumar Chaudhary, our Co-ordinator Dr. Manish Sharma and all other faculty members who have actually done a great job in making this event possible and completing it in such a great manner.

Feedback

We have took a feedback from the students as well in the form of comments and reviews and they have actually like the event so much that they want to repeat it next time as well as soon as possible.
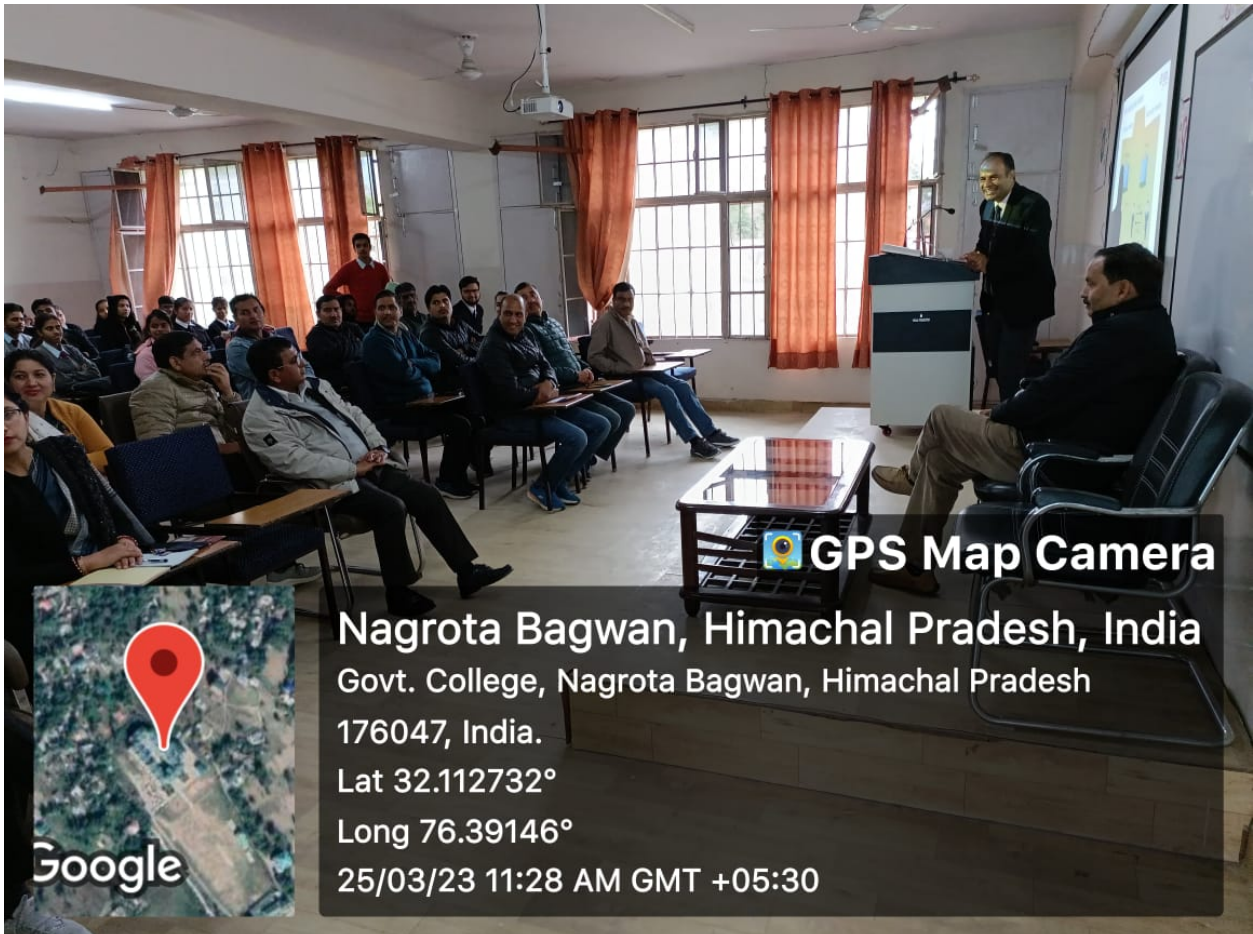
Work Shop on Financial Wellness Programme (25-03-2023)

A one day work shop on Financial Wellness Programme has been organisied by commerce society for the teaching and non teaching staff of the college on 25-03-2023. SEBI Trainer Sh. S K Mehra was the resource person in the programme. He explained each aspect of Mutual Fund and stock markets. He also explained the important terminology about mutual funds and the stock markets. Near 40 to 50 members from teaching and non teaching staff were present in the work shop.

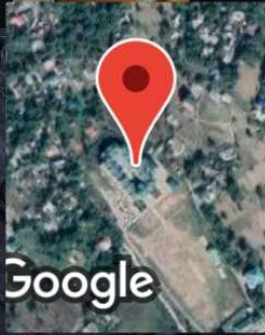**GPS Map Camera**

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