Experiential Learning

Academic Year 2023-24
Report on Activity 1
Jala Sudhi Mission

As a part of the Jala Sudhi Mission (a community outreach programme), water quality testing and a questionnaire survey was carried out in association with ASCE Student Chapter. Students along with Ms. Anusree Lal and Mr. Sooraj S, Assistant Professor's, Department of Civil Engineering visited residents of Pattoor Panchayath (ward 4) for collecting water samples and conducting questionnaire survey on 24-11-23. Water samples from public water supply was also collected. Testing of the water samples were done at the Environmental Engineering Lab by the students under the guidance of the Lab staff Ms. Sindhu O. The results were given to the people on the same day.

Water Sample collection   Water sample collection from Public Tap

Criterion 2

2.3 Teaching – Learning Process

Water Quality Testing

Report on Activity 2

Basis of java and object oriented programming

The department of Computer Science and Engineering conducted a two-day workshop on Basics of Java And Object Oriented Programming in association with Continuing education cell on 03/10/2023 and 04/10/2023 in SDPK Lab, CSE Block. The beneficiaries were S3 CSE students. The session was conducted by Mr. Vishnu V Nair Senior Java Trainer, Kompetenzen Technologies. It was from 9.00 am to 4.00 pm. It aimed to provide participants with a comprehensive introduction to Java programming. The event was designed for beginners and intermediate-level programmers who wanted to learn or enhance their Java programming skills. The session conducted hands-on exercises to ensure participants grasped the concepts effectively. The session was presided by DR. S. V. Annlin Jeba, HOD, CSE and S3 faculty advisor Dr Anju J Prakash, Ms Athira Sankar, Ms Aswathy T, Ms Nineesha P. At the end of each day, feedback sessions were conducted to gather participants' opinions and address any questions or concerns. The participants expressed their satisfaction with the content and the way it was delivered by the instructor. The students gave very good feedback on this session.

Criterion 2

2.3 Teaching – Learning Process

Criterion 2

2.3 Teaching – Learning Process
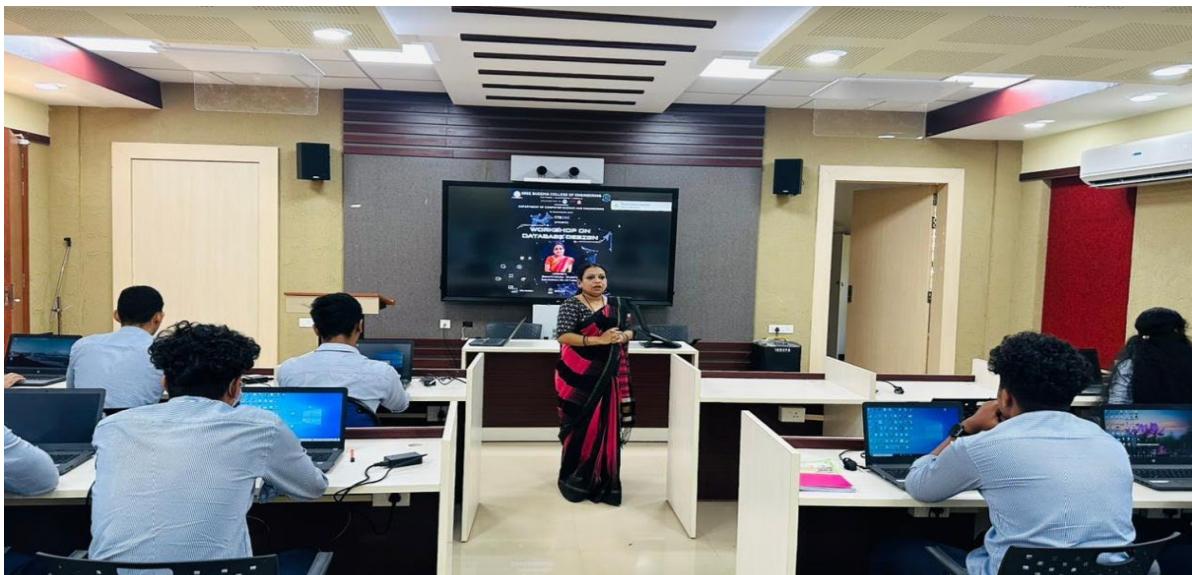
SREE BUDDHA COLLEGE OF ENGINEERING, PATTOOR
(Autonomous from AY 2024-2025)

Report on Activity 3

WORKSHOP ON "DATABASE DESIGN"

A one day workshop was conducted on **"Database Design"** in association with Department of CSE Association, Cyborg on 27-3-24. 69 students from CSE 4 A batch attended the session. The session was handled by Ms. Lekshmi Trainer, AI/ML Trainer. The students were highly enriched with basics on database design, its installation etc.

Criterion 2

2.3 Teaching – Learning Process

Brochure for Workshop on Database Design

Criterion 2

2.3 Teaching – Learning Process
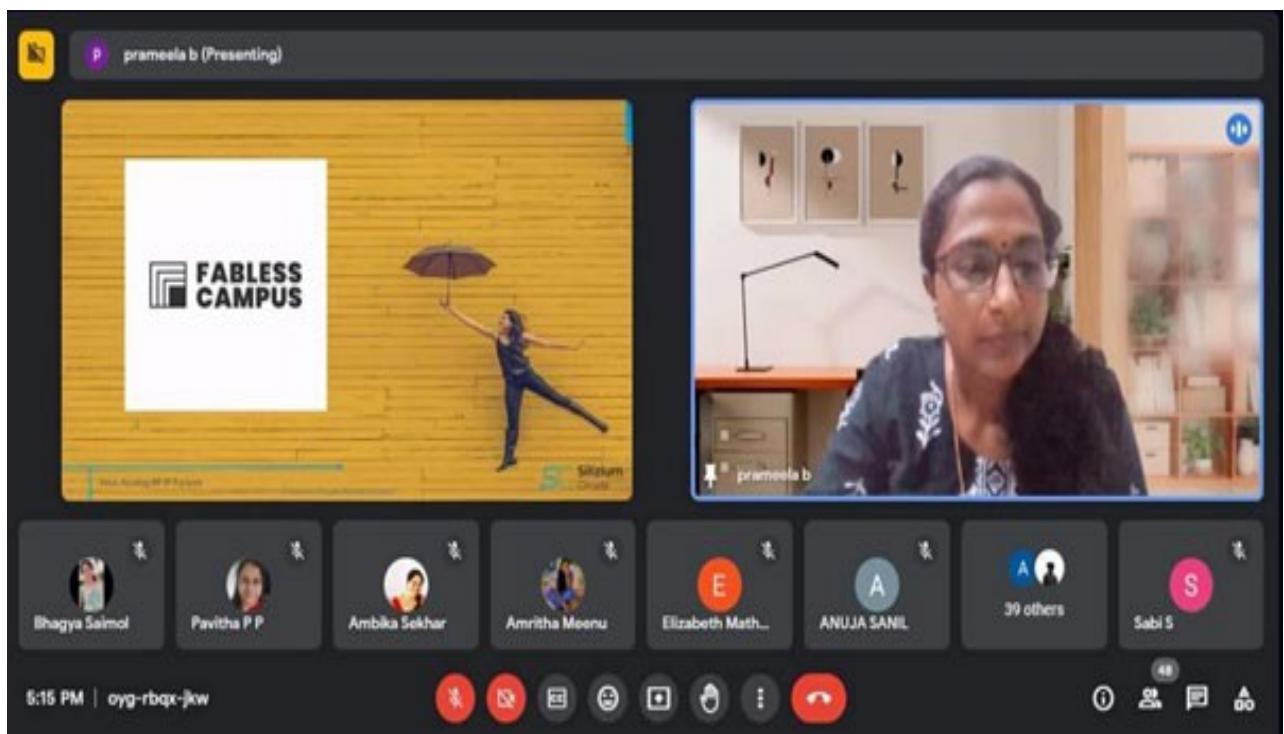
SREE BUDDHA COLLEGE OF ENGINEERING, PATTOOR
(Autonomous from AY 2024-2025)

Report on Activity 4

RECENT TRENDS IN VLSI DESIGN - INDUSTRY PERSPECTIVE

Department of Electronics and Communication, Sree Buddha College of Engineering, Pattoor, Alappuzha, Kerala organized an Online Webinar **"RECENT TRENDS IN VLSI DESIGN - INDUSTRY PERSPECTIVE"** on 9th September 2023. The session was handled by Dr. Prameela B., Sr. Staff Engineer,Silizium Circuits Pvt. Ltd.,FabCI, IIT Hyderabad. The welcome speech was done by Professor Pavitha P.P.,HOD, ECE and vote of thanks by student coordinator Bhagya Saimol. The program was coordinated by Ambika Sekhar,Assistant Professor, Dept. of ECE..Around 50 participants attended the session. The webinar provided UG and PG scholars an idea about industry perspective in field of VLSI. The webinar came to end by 7:00 pm.

Criterion 2
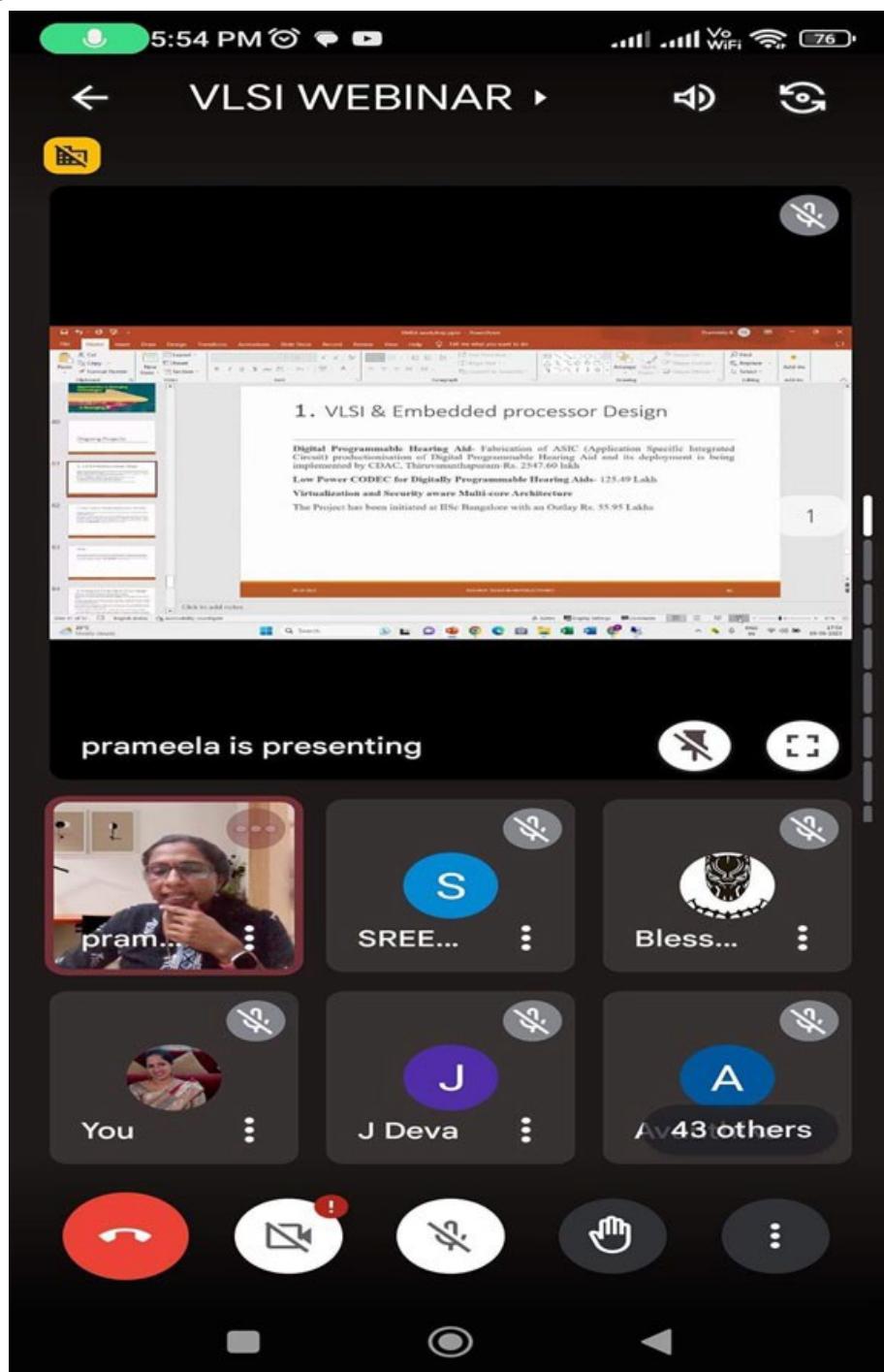
2.3 Teaching – Learning Process

Exploring Recent trends in VLSI Design: Google meet webinar

Criterion 2

2.3 Teaching – Learning Process
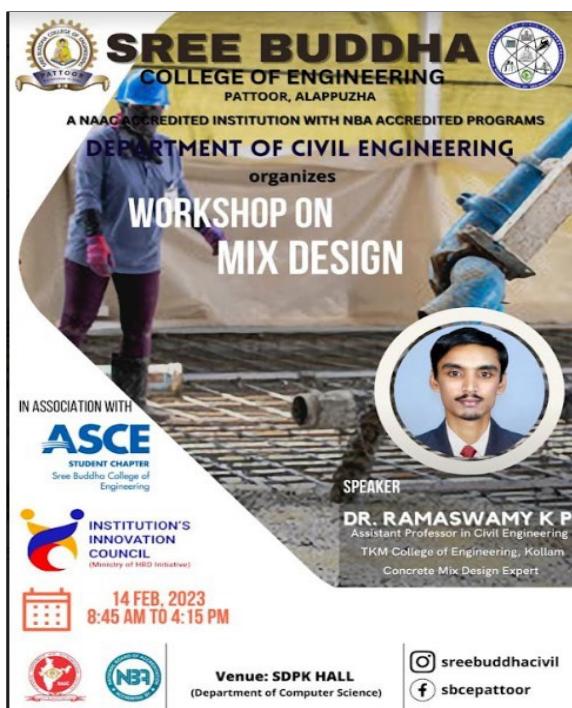
Report on Activity 5

WORKSHOP ON "MIX DESIGN"

Department Civil Engineering in association with ASCE organized a one-day workshop on Mix Design on February 14, 2023. Dr. Ramaswamy K P, Assistant Professor in Civil department, TKM College of Engineering, Kollam was the guest speaker. The workshop was attended by nearly 60 students including PG and eighth semester students in the presence of Dr. Gouri Antherjanam (HOD).

Ms. Shobha Elizabeth Thomas, PG coordinator, welcomed the gathering. The workshop focused on designing the mix of normal and self-compacting concrete using the latest IS codes. The speaker also talked about the mix design of fiber reinforced concrete. The workshop also provided the students to design the mix and an experience of practically making the mix in concrete lab. The speaker also extended his willingness to help the students to clear the queries. The students were so fortunate to hear from the resource person. The session ended by 4.15 pm.

Criterion 2

2.3 Teaching – Learning Process

Talk session

Mix design

Talk session

Vote of thanks

Criterion 2

2.3 Teaching – Learning Process

Report on Activity 6

Workshop- Operating System

The workshop session was taken by Prof. Ebin PM, assistant professor of computer science and engineering of Alliance College Bangalore. The session was on Friday, 23 rd February,2024. A good countable participation was there. This session was mainly focussing on Operating System as subject oriented. The session was for two hours from 2p.m to 4 p.m conducted at SDPK lab. The session was really effective to participants and has reflected on insights.

Criterion 2

2.3 Teaching – Learning Process

Inauguration

Criterion 2

2.3 Teaching – Learning Process

SREE BUDDHA COLLEGE OF ENGINEERING, PATTOOR
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Academic Year 2022-23

Report on Activity 1

FPGA Digital System Design

The Department of Electronics & Communication Engineering at Sree Buddha College of Engineering, Pattoor organized a one day hands-on Workshop on FPGA Digital System Design (Simulation & Implementation on Spartan 3)" on 14/10/2022 for students of 7th semester ECE and Faculty of ECE. The main objective of this Workshop was to introduce the participants to Basic Verilog programming & implementation on Spartan 3 Xilinx board.

In the beginning students were introduced to Basic verilog coding types and simulation using ISE web pack 14.1. Later they were introduced to a hands-on session for FPGA implementation using a Spartan 3 board from Xilinx. During the tenure of this workshop. students were able to simulate and implement basic logic gates to various combinational logics. They were also able to write verilog codes in all the three types of coding styles.which includes Structural modeling, Dataflow Modeling and Behavioral Modeling.The session ended up with feedback from Students.

Criterion 2

2.3 Teaching – Learning Process

Report on Activity 2

Make your own robot

The one day hands on workshop on "make your own robot" machine learning based robotics was managed by open leaves, a start up who are the alumnis of Sree Buddha College of Engineering, conducted by Department of Electronics & Communication in association with Institution's Innovation Council (IIC) & Innovation Entrepreneurship Development Centre (IEDC). The program was held at SDPK Seminar hall on 5th April 2023 at 9 A.M.

The program started with a prayer song followed by a speech by Prof. Pavitha P P (HOD of ECE). Later, Mr. Arun Raj & Mr. Arun Thampi, Founders of the Start up Open Leaves with Mr. Milan george started an interactive session with students where they learned about the basic machine learning based programming and a hands on session on making there own robot with hand gesture controlling.

The program was sponsored by Innovation Entrepreneurship Development Centre (IEDC). The workshop was really interactive and students were enthusiastic to learn about robotics and artificial intelligence. The students interacted with the guests and cleared their doubts There was a total of 43 students from different departments and semesters. Students from other colleges were also present. The program ended with vote of thanks by Mr Hari S. (Assistant professor, ECE)

Criterion 2

2.3 Teaching – Learning Process

Report on Activity 3

REVIT AND PRIMAVERA WORKSHOP

Department of Civil Engineering organized a three day workshop on Civil Engineering softwares such as Revit and Primavera from 4th -6th July 2022. It was coordinated in association with Habilete Learning solutions, Kollam. The Workshop was inaugurated by the Head of the Department Dr. Gouri Antherjanam. CEO of Habilete learning solution Dr. Kishor P. was the resource person. Hands on training were provided on Revit architecture and primavera sofwares. Studnets were also made to design their own by giving live assignments. It was conducted for 65 nos of sixth semester B.Tech students of the department. This workshop helped students to understand the concepts of softwares and gave a good experience to all participants.

Criterion 2

2.3 Teaching – Learning Process

SREE BUDDHA COLLEGE OF ENGINEERING, PATTOOR
(Autonomous from AY 2024-2025)

Report   on   Activity   4

Bioinformatics tools and softwares

Department of biotechnology and biochemical engineering in association with Make in tern Ecell, IIT Kharagpur organized 3 days workshop on Bioinformatics tools and softwares on 21 -23 November 2022. Hands on session was handled by Dr Prince Xavier (Director and chief scientist, Allesh Biosciences, Bangalore).He explained different aspects of bioinformatics including the industrial applications of bioinformatics. He motivated our students and was able to create an interest in bioinformatics. He also explained about the tools and softwares used in bioinformatics especially drug designing tools like Autoduck. Around 40 students from S3 and S5 participated in the program which was conducted at skill development centre, SBCE.

Criterion 2

2.3 Teaching – Learning Process
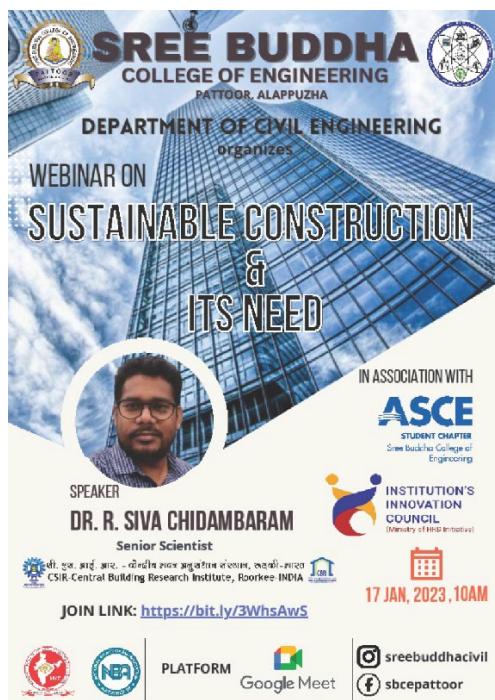
Report on Activity 5

<u>WEBINAR ON SUSTAINABLE CONSTRUCTION AND ITS NEED</u>

ASCE in association with IIC has conducted a webinar on the topic "Sustainable construction and its needs" on 17th jan 2023 through Google meet online platform. The session was inaugurated by Dr. Gouri Antherjanam , HoD, Department of Civil Engineering. The resource person was Dr. R.Siva Chidambaram, senior scientist CSIR Roorkee. The webinar talked about sustainability in construction with reference to precast members and its applications. The Session started by 10am. PG students and faculties attended the programme. The session ended by 11am.

Criterion 2

2.3 Teaching – Learning Process

Introduction

Members attending the Webinar

Criterion 2

2.3 Teaching – Learning Process

Academic Year 2021-22

Report on Activity 1

REVIT ARCHITECTURE AND 3DS MAX – An Introduction to Modelling softwares

Department of Civil Engineering organized a two day hands-on workshop on Revit Architecture and 3DS Max - An introduction to modelling softwares on 25th and 26th November 2021 in association with Innovation and Entrepreneurship Development Centre, SBCE and ED cell. The workshop was arranged in association with Habilete Learning Solutions and CADPOINT, Kollam. Habilete Learning Solutions are specialized in skill development trainings that are a prerequisite for the current innovative job market. 30 students of fifth semester attended the workshop.

The workshop started with an introduction by Dr. Gouri Antherjanam about modelling softwares and Habilete Learning Solutions. Later Dr. Kishore, M.D. of Habilete Learning solutions also briefed about the activities of the company. Resource person Mr. Varun, took over the class and introduced Revit Architecture software to students.

In day 1 session on Revit Architecture, the topics covered were familiarization of basic modelling tools in Revit, Familiarization of material creation, Creation of a residential building etc. Students were also made to do a sample model in Revit. Day two sessions was on 3DS Max software. It also covered familiarization of basic modelling tools in 3DS Max, Familiarization of material creation, Creation of a residential building etc. Students were also made to do a sample model in 3DS Max. Workshop coordinator was Ms. Regi P. Mohan, Assistant professor and Nodal officer of IEDC. Attendance and Feedback were collected from the participants on each session. The workshop timing was from 9.30am - 4.00 pm and was conducted in CACE Lab of Civil department. E-Certificates were distributed to participants.

Criterion 2

2.3 Teaching – Learning Process

Inauguration

Resource person Mr. Varun taking class

Students doing a sample model in Revit

Criterion 2

2.3 Teaching – Learning Process

Academic Year 2020-21

Report on Activity 1

The two-day workshop on "Arduino Programming" was conducted with the sole intention of promoting the microcontroller programming skills among the students of all semesters to help them out with their mini projects and final year projects. The objective was to introduce the basic Arduino programming from scratch, to understand without any prior knowledge in the programming domain. The course scheduled over 5 hours was distributed equally over two days, 28/11/2020 and 5/12/2020. Day one mainly intended the introduction of the Arduino Uno development board and Basic programming skills. Day 2 dealt with basic programming using Arduino Uno, like led blinking, PWM, Sensor interfacing, Oled display interfacing, DC motor interfacing, Bluetooth connectivity, etc. The afternoon session concentrated on basic project building concepts along with actual projects. These two days witnessed active participation from students and faculty within and outside.

Criterion 2

2.3 Teaching – Learning Process
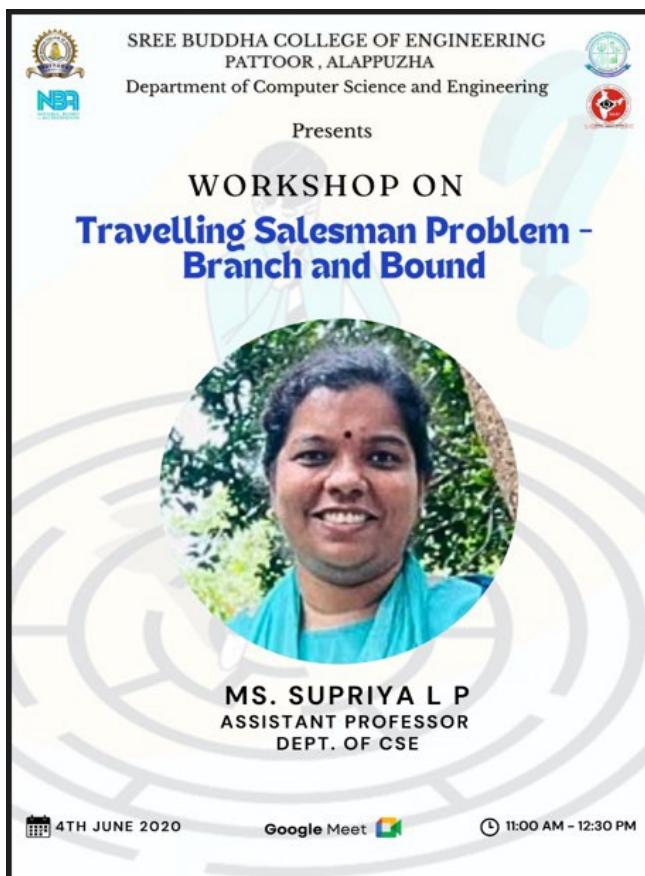
Report on Activity 2

Workshop on Traveling Salesman Problem –Branch and Bound

Resource Person:- Prof. Supriya L P, Assistant Professor

The workshop was organized by the Department of Computer Science and Engineering on 4/6/2020 from 11.00 AM to 12.30 PM to cater to the students of Computer Science. The webinar essentially covered the theoretical and problematic aspects of Traveling Salesman Problem using Branch and Bound in Design and Analysis of Algorithms. Around 55 students and faculties within and other colleges in the state attended the 1 hour 30 minute session. After the webinar, feedback from the students and faculties indicated that the session was useful and effective. The session was conducted on Google meet platform.

Criterion 2

2.3 Teaching – Learning Process
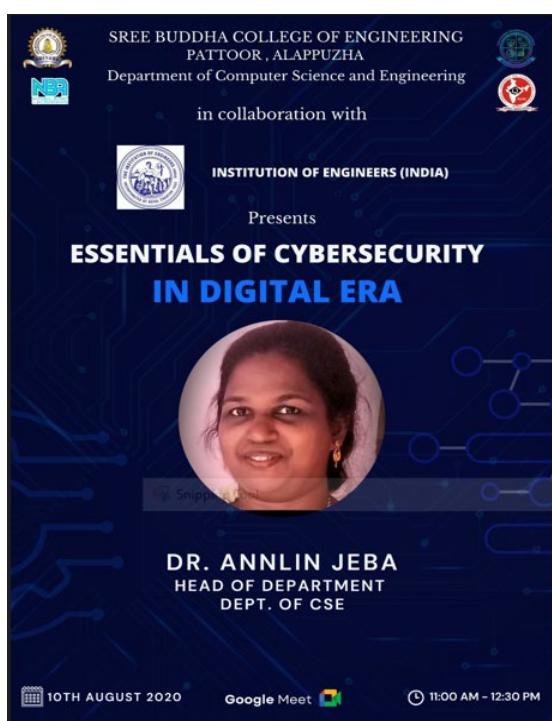
Report on Activity 3

Workshop on Essentials of Cyber Security in Digital Era

The Institution of Engineers (India) students Chapter of Department of Computer Science and Engineering, Sree Buddha College of Engineering and The Institution of Engineers (India) Kollam Local Centre jointly celebrated Security day by conducting a Webinar on Essentials of Cyber Security in Digital Era from 11.00 am to 12:30pm on 10.08.2020 Nearly 50 participants attended the Webinar.The Faculty Advisor Ms.Dhanya Sreedharan welcomed the Resource Person and participants.

The resource person was Dr.Annlin Jeba,HoD ,Department of Computer Science and Engineering.In her webinar she had presented the scope of Cyber Security in the present digital Era.Her webinar motivated our students for better research while applying innovative ideas. Ms.Dhanya Sreedharan ,IE(I) Faculty Advisor, Dept. of CSE, SBCE proposed vote of thanks. The participants who have actively participated the Webinar were distributed e-certificates.

Criterion 2

2.3 Teaching – Learning Process

Report on Activity 4

Data Analytics in Auditing Firms

Resource Person:- Er. Deepa Mery Thomas, Senior Associate, IT Specialist Audit Deloitte

Touche (Middle East), Kuwait

Date: 11-07-2020

Time: 11.00 am to 12.00 pm

The webinar was conducted by the department of Computer Science and Engineering for students and faculty in all engineering branches. The session handled by Er. Deepa Mery Thomas, Senior Associate, IT Specialist Audit Deloitte & Touche (Middle East), Kuwait. She is an alumnus of Sree Buddha college of Engineering.The duration of webinar was 1 hour and it made some awareness about the importance of data analytics in auditing firms. The webinar was very effective and a total of 53 participants attended session.

Criterion 2

2.3 Teaching – Learning Process

Report on Activity 5

A practical Approach on Digital Image Processing

The Institution of Engineers (India) students Chapter of Department of Computer Science and Engineering, Sree Buddha College of Engineering and The Institution of Engineers (India) Kollam Local Centre jointly conducted a Workshop on "A practical Approach on Digital Image Processing" from 6:.00 pm to 7:30pm on 7.12.2020. Nearly 80 participants attended the Workshop.The Faculty Advisor Ms.Dhanya Sreedharan welcomed the Resource Person and participants.The Head of Department Dr.Annlin Jeba proposed Felicitation.The resource person was Mr. Gopu Darsan ,Assistant Professor ,Department of Computer Science and Engineering.In the workshop he had presented the basic concepts of Digital Image Processing and its relevance in doing projects. His worship motivated our students for better research while applying innovative ideas. Ms.Dhanya Sreedharan ,IE(I) Faculty Advisor, Dept. of CSE, SBCE proposed vote of thanks. The participants who have actively participated the Workshop were distributed e-certificates.

Criterion 2

2.3 Teaching – Learning Process

SREE BUDDHA COLLEGE OF ENGINEERING, PATTOOR
(Autonomous from AY 2024-2025)

Report on Activity 6

"DIGITAL SYSTEM DESIGN USING FPGA- Simulation using Verilog and VHDL"

Department of electronics and communication Engineering Organized a one day Workshop for the topic **"DIGITAL SYSTEM DESIGN USING FPGA- Simulation using Verilog and VHDL"** on November 7,2021 The speaker of the Workshop was Dr.BhanuRekha, Professor, Presidency university Bangalore. The workshop is inaugurated by Dr.S. Suresh Babu, Principal, SBCE and welcome speech is done by Professor Pavitha P.P.,HOD, ECE and vote of Thanks by Prof. Saritha N.R. Assistant Professor Department of ECE. Around 93 participants including students and faculties. of various colleges attended the session. The workshop is based on the the third semester B.Tech. degree Electronics and communication curriculum of 2019 regulation of APJ Abdul Kalam Technological University.

Criterion 2

2.3 Teaching – Learning Process
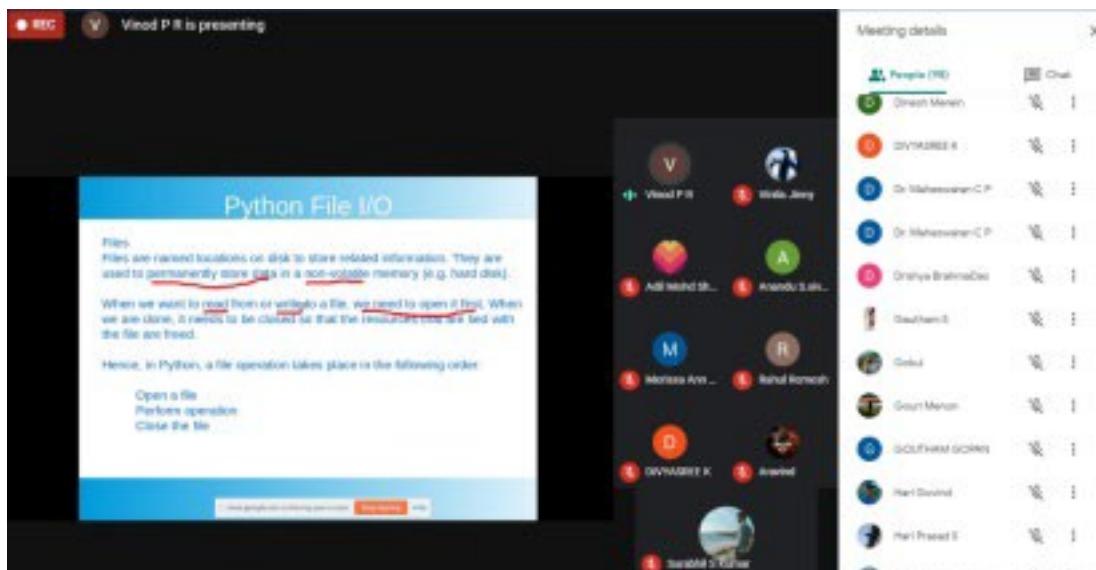
# SREE BUDDHA COLLEGE OF ENGINEERING, PATTOOR
(Autonomous from AY 2024-2025)

Report on Activity 7

Workshop on "PYTHON PROGRAMMING"

Department of Computer Science and Engineering of Sree Buddha College of Engineering on jointly organized Two days workshop on "PYTHON PROGRAMMING" from 07/01/2021 to 08/01/2021, in collaboration with the Department of Computer Science and Engineering, The resource person was Prof. Vinod P R, Asst. Prof., Dept. Of CSE, College of Engineering, Chengannur. Noorul Islam Centre for Higher Education. The session started at 10.00 am. Dr. C. Maheshwaran, HOD, CSE welcomed the gathering.

Criterion 2

2.3 Teaching – Learning Process

Report on Activity 7

"Transportation systems modelling: A broad overview"

A talk on "Transportation systems modelling: A broad overview" was organized in association with Industry Institute Interaction Cell (IIIC) of Sree Buddha College of Engineering, Pattoor on 2nd February, 2021 at 2:00pm through Google Meet online platform. It was conducted as part of monthly webinar series on Interaction with Industry Professionals under the name #CIVIL VIBES. The webinar was taken by Dr. Rakhi Manohar, Research Scientist, Institute of High Performance Computing (IHPC), Agency for Science, Technology and Research, Singapore. More than 65 participants attended the webinar which included faculty members, P.G scholars and B. Tech final year students of Civil Department. Dr Rakhi discussed the travel demand forecasting and the procedure of transportation systems modeling that are adopted in a homogeneous traffic condition.

Criterion 2

2.3 Teaching – Learning Process

Academic Year 2019-20

Report on Activity1

WORKSHOP ON FUNDAMENTALS OF COMPUTERS AND NETWORKING

The Department of Computer Science & Engineering of SBCE organized a Workshop on Fundamentals of Computers and Networking on 6th, 7th and 9th of January 2020 for 1st year. B. Tech students of Department of CSE. The inaugural ceremony was held at Common Computing Lab at the Main Block. The workshop was inaugurated by Dr. S. V. Annlin Jeba, HOD-CSE.

In this 3 day workshop, the students were given hands-on training on Assembling, Disassembling, Installation of different system and application software, Networking and Troubleshooting and basics of MS Office. The sessions were handled by Mr. Vishnu R., System Administrator, Mr. Jayaprakash V. P., Network Administrator, Mr. Unnikrishnan, Mr. Gopakumar and Mr. Sajeev Kumar R, members of the Technical Team.

Criterion 2

2.3 Teaching – Learning Process

SREE BUDDHA COLLEGE OF ENGINEERING, PATTOOR
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Report on Activity 2

"Programming in PYTHON"

As part of the extension activity, Department of CSE organized a two day workshop on "Programming in Python" for Plus two CBSE school teachers on 19th and 20th July 2019. Major objective of this workshop was to start collaboration with the plus two teachers in order to bridge the gap between the school education system and professional education.

Programme started with the welcome speech by Ms. Lakshmi S. followed by the keynote address of Dr. S. V. Annlin Jeba, HOD, Dept. of CSE. She gave an introduction about the institution and introduced the resource person Mr. Arun P.S. Later Mr. Arun P.S. continued the sessions at FOSS lab of CS block. Total 15 teachers from various CBSE schools attended the workshop.

INAUGURAL SESSION & SESSION BY Mr. ARUN .P .S

Report on Activity 3

Criterion 2

2.3 Teaching – Learning Process

WORKSHOP ON REVIT SOFTWARE

Dates of the event : 13th & 14th February, 2020

Organised by: CASTELLOS, Dept. of Civil Engineering

Civil Engineering Department in association with the Castellos and CADD CENTRE, Mavelikara conducted a two day workshop on Revit Software on 13th & 14th February, 2020. The workshop started with an introduction class on the benefits of the software. The major topics covered are: Building Information Model, Material takeoff, Design visualization, walk through, solar study, massing, developing 3D Models of residential building etc. All S8 students participated in the workshop and they were divided into different groups. Among them seven groups were selected for their best modeling and were also given prizes. The workshop was very beneficial for the students.

Criterion 2

2.3 Teaching – Learning Process

Report on Activity 4

Name of the event: FUNDAMENTALS OF STRUCTURAL ANALYSIS

Date of the event　: 20th February 2020

Organised by: CASTELLOS, Dept. of Civil Engineering

The Civil department of Sree Buddha College of Engineering, Pattoor organized a technical talk on 'Fundamentals of Structural Analysis' on 20th February 2020 at 2.00pm. The talk was delivered by eminent professor Dr. Sajeeb R., Professor of Department of Civil Engineering, T.K.M College of Engineering, Kollam. S6 students attended the session.

It was a great opportunity for the students to understand the importance of the subject and learn the basics of structural analysis. Talk covered basic topics like fundamentals of mechanics and structural analysis. The talk was very effective as it highlighted the difference between real and ideal situations using visual aids.

The students were really encouraged by the class conducted by such a renowned professor. The professor's enthusiasm and real world examples made the talk more interesting.

Criterion 2

2.3 Teaching – Learning Process

Report on Activity 5

Name of the event: SPILLWAYS AND ENERGY DISSIPATORS

Date of the event : 23th May 2020, 11:00 am to 12:00 pm

Conducted by: Dr. R. Gopakumar

The webinar was conducted by Dr. R. Gopakumar of the Department of Civil Engineering for the students of 3rd Year UG Course in Civil Engineering. The webinar covered the types of spillways and energy dissipation mechanisms below spillways together with the essential design aspects of these important components of dams. Forty three students attended the 1-hour session. Feedback from the students about the webinar indicated that the session was effective and useful. The webinar was conducted on Google Meet platform.

Meeting platform:
Google Meet

Open for all

To join meeting use link:
https://meet.google.com/enk-noro-ckq

OR scan

SREE BUDDHA
COLLEGE OF ENGINEERING
Pattoor, Alappuzha, Kerala

Webinar on
SPILLWAYS &
ENERGY DISSIPATORS
as per KTU Course CE302: Design of Hydraulic Structures (S6)

May 23, 2020
11 am – 12 pm

Speaker: Dr. R. Gopakumar
Professor, Dept. of Civil Engineering

Criterion 2

2.3 Teaching – Learning Process

Report on Activity 6

Name of the event: SLUDGE TREATMENT AND DISPOSAL

Date of the event   : 27ᵗʰ May 2020, 11:00 am to 12:30 pm

Conducted by   : Ms. Meera G. Mohan

Ms.Meera.G.Mohan, Assistant Professor, Department of Civil Engineering organized a webinar on the topic "Sludge Treatment and Disposal" on 27ᵗʰ May 2020 from 11:00 am to 12:30 pm on Cisco webex platform. The webinar was based on the 6th Module of the Course: CE402 - Environmental Engineering II as per APJ Abdul Kalam Technological University (KTU). Around 60 participants attended the webinar, majority being students from various engineering colleges all over Kerala. There were also representatives from other institutions and industries. They raised questions on practical applications which improved the overall webinar experience. In addition to covering theory topics over webinar, design problems were shared with the participants in the form of my recorded video via Google drive due to the limited time. The feedbacks from the participants were motivating and they found the session to be very interesting.

Criterion 2

2.3 Teaching – Learning Process

Criterion 2

2.3 Teaching – Learning Process

Criterion 2

2.3 Teaching – Learning Process

SREE BUDDHA COLLEGE OF ENGINEERING, PATTOOR
(Autonomous from AY 2024-2025)

Report on Activity 7

Name of the event : LEADING AND CONTROLLING

Date of the event : 27ᵗʰ May 2020, 11:00 am to 12:30 pm

Webinar was conducted by the Department of Civil Engineering to cater the students of Civil Engineering, Electrical Engineering, Computer science Engineering and Biotechnology. The webinar was taken by Assistant Professor Ms. Regi P. Mohan who essentially and effectively covered the theoretical portions from the sixth semester common course named 'Principles of Management'. It dealt with the managerial aspects of manager as a leader and a controller in an organisation. Almost 60 students from different Engineering colleges within the state attended the 1.30 hour session. After the webinar, a feedback from the students indicated that the session was very effective. The session was conducted on Cisco Webex platform. Resource material was also shared to the participants.

Criterion 2

2.3 Teaching – Learning Process