SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

Vidya Nagar, Palissery, Karukutty, Kerala 683576

CRITERIA 1

CURRICULAR ASPECTS

1.2: Academic Flexibility

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

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1.2.1/1.2.2 Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc.

ASSESSMENT PROCEDURE

AND

SUMMARY REPORT/FEEDBACKS

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

Vidya Nagar, Palissery, Karukutty, Kerala 683576

Add on /Certificate/Value added programs and Online MOOC programs like NPTEL, Swayam

2022-23

Sl. No	Name of the Add on /Certificate/Value added programs and Online MOOC programs like NPTEL, Swayam	Course code
1	Geospatial Data Processing & Analysis	CGA2223S01
2	Microsoft Data Fundamentals	CMF2223S02
3	Engineer Empower: Unleashing Your Professional Persona	CEP2223S03
4	Autodesk AutoCAD	CAA2223S04
5	Human rights and duties education	CHE2223S05
6	New trends in artificial intelligence	CNI2223S06
7	Air pollution and Control	NPT2223S01
8	Retrofitting and Rehabilitation of Civil Infrastructure	NPT2223S02

SCMS SCHOOL OF ENGINEERING & TECHNOLOGY KARUKUTTY ERNAKULAM 683 576

PRINCIPAL
SCMS SCHOOL OF ENGINEERING & TECHNOLOGY
VIDYANAGAR, PALLISSERY, KARUKUTTY
ERNAKULAM, KERALA-683 576

GEOSPATIAL DATA PROCESSING & ANALYSIS

30 hour course

Course Summary

In this course on Geospatial Data Processing and Analysis, a total of 133 students participated and all have successfully completed for the course.

Day 1: 20/02/2023

Session 1: Introduction to GIS, Coordinate system, Geometric Transformation, Data models

(Dr. Ratish Menon, Professor, Department of Civil Engineering, SSET)

Screenshot of google meet screen of the course

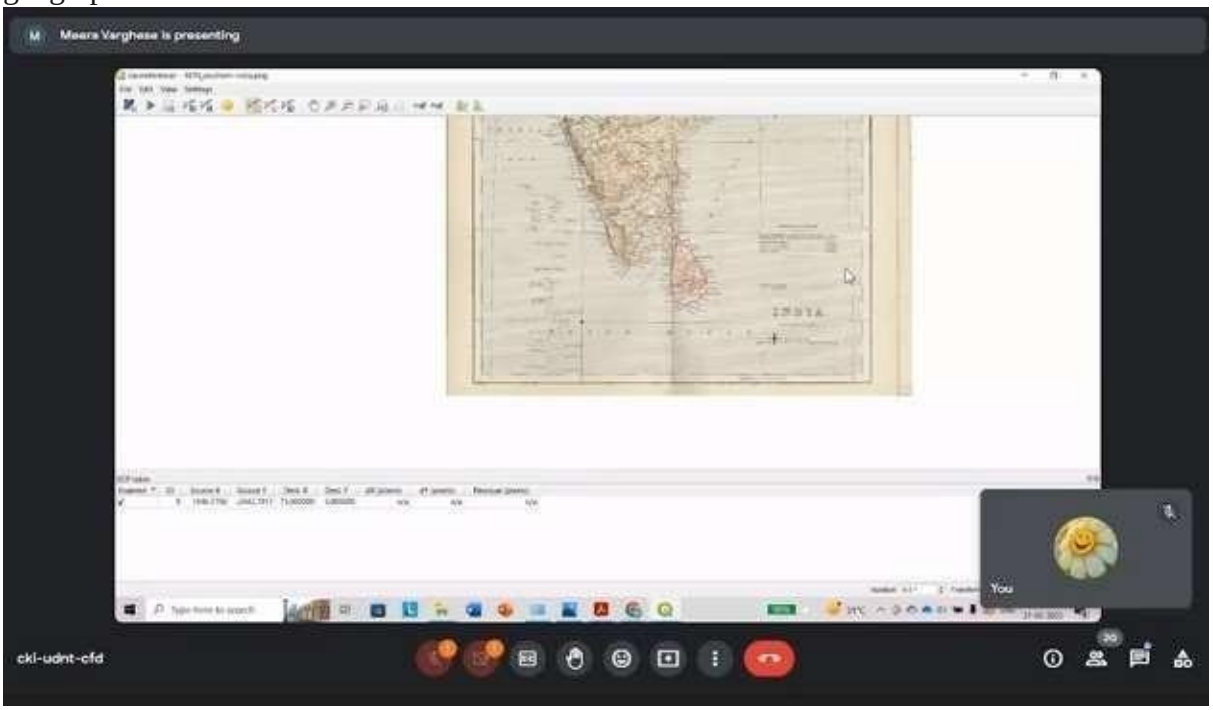
In this session fundamental concepts of GIS were introduced, History and evolution of GIS was explained in detail. Geographic coordinate systems, map projections and datum were introduced. GIS data models such as vector and raster data models were explained and their differences were discussed. A brief introduction on digitizing, Georeferencing and importance of shapefiles were also highlighted. Participants were introduced to various kinds of geospatial analyses possible with both vector and raster datasets. Database management systems (DBMS) as well as GPS were also explained in this session.

Day 2: 21/02/2023

Session 2: Hands on : Introducing QGIS and Georeferencing

(Ms. Meera Varghese, Assistant Professor, Department of Civil Engineering, SSET)

In this session a walk through was done on various features of QGIS software. Then a Georeferencing hands on session was conducted. Georeferencing means that the internal coordinate system of a digital map or aerial photo can be related to a ground system of geographic coordinates.



Screenshot of google meet screen of the course

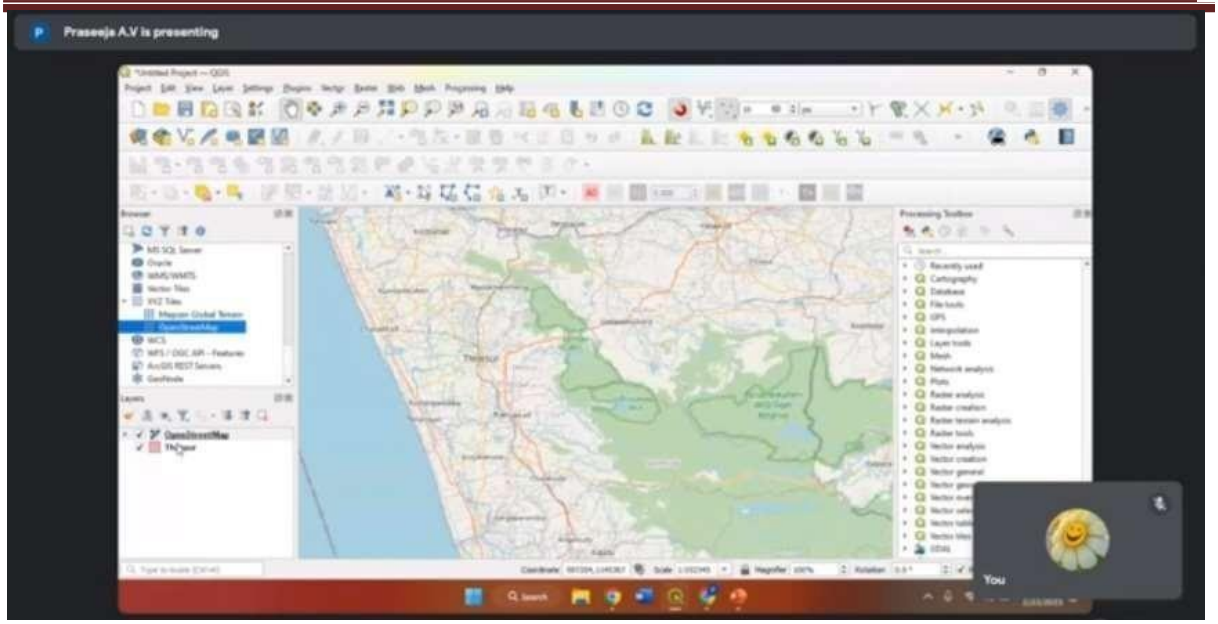
A georeferenced digital map or image has been tied to a known Earth coordinate system, so users can determine where every point on the map or aerial photo is located on the Earth's surface. The relevant coordinate transforms are typically stored within the image file (GeoPDF and GeoTIFF are examples of georeferenced file formats), though there are many possible mechanisms for implementing Georeferencing. Georeferencing in the digital file allows basic map analysis to be done, such as pointing and clicking on the map to determine the coordinates of a point, to calculate distances and areas, and to determine other information. This helps to make any image geospatially correct.

Day 3: 22/02/2023

Session 3: Hands on : Digitizing and creation of shapefiles

(Dr. Praseeja A V, Assistant Professor, Department of Civil Engineering, SSET)

In this session the use of Digitization and how it can be performed in QGIS is explained. Digitization involves the process of converting geographic data into digital form. During this process, spatial data on maps or images are traced as points, polylines or polygons. It has many uses in GIS, including recording and displaying geographic information, generating map layers, and storing data.



Screenshot of google meet screen of the course

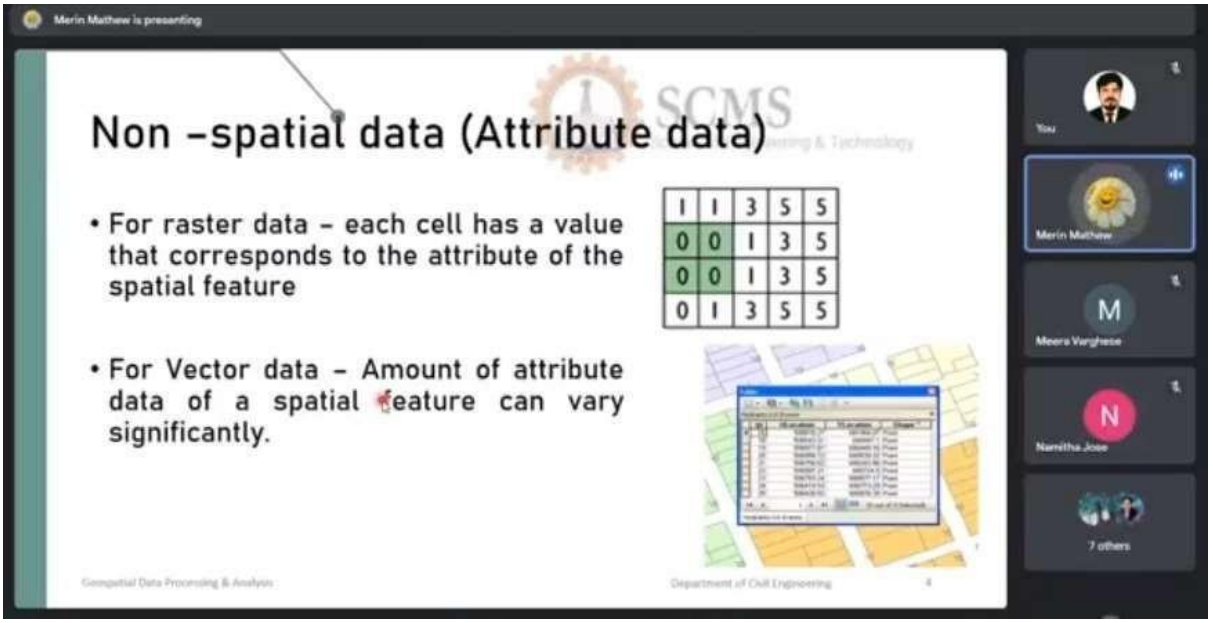
Those results can be stored as shapefiles for later use. Since most common methods of digitizing involve the interpretation of geographic features via the human hand, there are several types of errors that can occur during the digitizing process, which is called digitizing error. Various methods to rectify those errors were also explained. The hands-on session also includes the creation of shapefiles, how to store shapefiles, various data formats of shapefiles and how to extract a shapefile into QGIS were also performed

Day 4: 23/02/2023

Session 4: Hands on : Importing various data into QGIS

(Ms. Merin Mathew, Assistant Professor, Department of Civil Engineering, SSET)

In this session various types of non-spatial data or attribute data, and how this data is stored in the GIS platform were discussed. During the hands-on time, importing various data forms into QGIS was exhibited. The general form of data available for QGIS is raster data forms (GeoTIFF, TIFF, PNG, JPEG, ASC and XYZ tiles) and vector data forms (CSV, TXT, SHP, DXF and KML/KMZ). The difference while loading various raster forms like georeferenced TIFF files, PNG images, and TIFF images was shown to the participants.



Screenshot of google meet screen of the course

The most common form of data availability is in excel form, so the conversion of excel files into CSV (comma-separated values) and how it can be loaded into the QGIS platform were delivered. The precautions to be taken and arrangements of data in CSV form were also discussed. Then how a text file can be imported into the software and also how it can be saved in CSV form were illustrated. Importing of shapefiles (SHP) will be frequently required in QGIS, the supporting data forms of shapefiles and its need were also clarified for participants. AutoCAD drawings are generally saved as DWG files, they should be converted to DXF format and the importance of georeferencing was also communicated. The data created from Google Earth software are in KML (Keyhole Markup Language) or in KMZ format, which was also imported into the QGIS platform and conversion of it to shapefile wasalso exhibited. An assessment question like importing excel data into the QGIS platform was given to the participants.

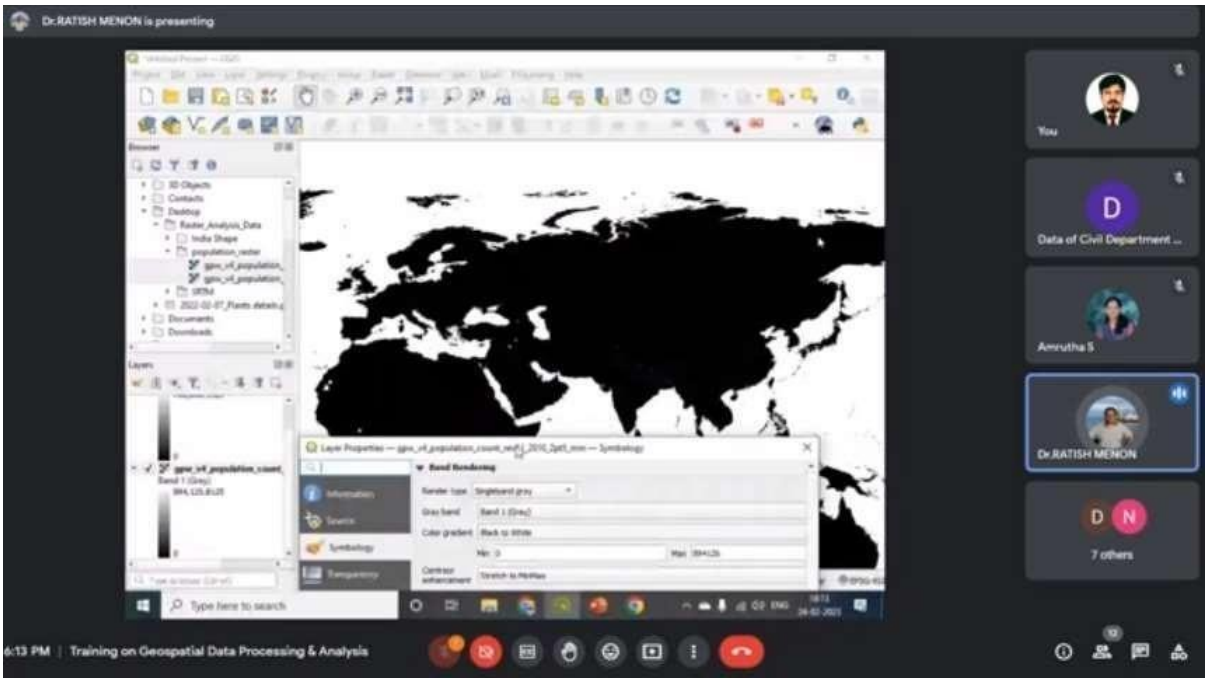
Day 5: 24/02/2023

Session 5: Hands on: Raster data analysis

(Dr. Ratish Menon, Professor, Department of Civil Engineering, SSET)

In this hands-on session raster data analysis was introduced in detail. Participants were trained in raster styling and raster calculator was introduced. Pixel based operations on two

layers of raster data was demonstrated. Commonly used tools for mosaicing, clipping, and buffering were discussed. Participants were also explained about various web resources to download raster datasets such as DEM s and satellite data. QGIS plugins were also introduced in this session.



Screenshot of google meet screen of the course

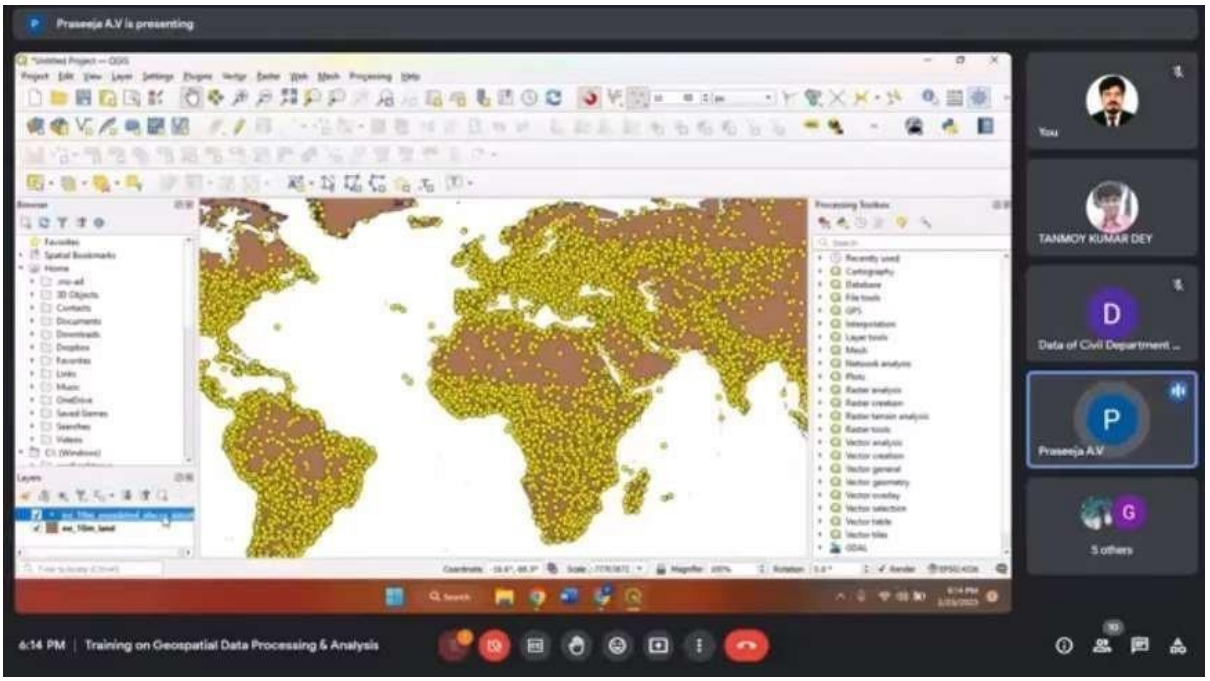
Day 6: 25/02/2023

Session 6: Hands on: Vector data analysis

(Dr. Praseeja A V, Assistant Professor, Department of Civil Engineering, SSET)

In this hands-on session Vector data analysis uses the geometric objects of point, line, and polygon were discussed. The commonly used tools in vector data analysis such as Overlay, Buffering and other feature manipulation tools were discussed. Buffering with various buffering distances, variations in buffering, point in polygon overlay, polygon over polygon overlay, lines over polygon overlay were performed with real field data on hands on session. Pattern analysis were performed which refers to the use of quantitative methods for describing and analyzing the distribution pattern of spatial features. At the general level, a pattern analysis can reveal if a distribution pattern is random, dispersed, or clustered.

The accuracy of analysis results depends on the accuracy of these objects in terms of location and shape, so how to rectify the errors were also explained. Features and attributes are the two parts of GIS data, where the Attributes are structured data about each feature. This session covers how to view the attributes and do basic queries on them in QGIS



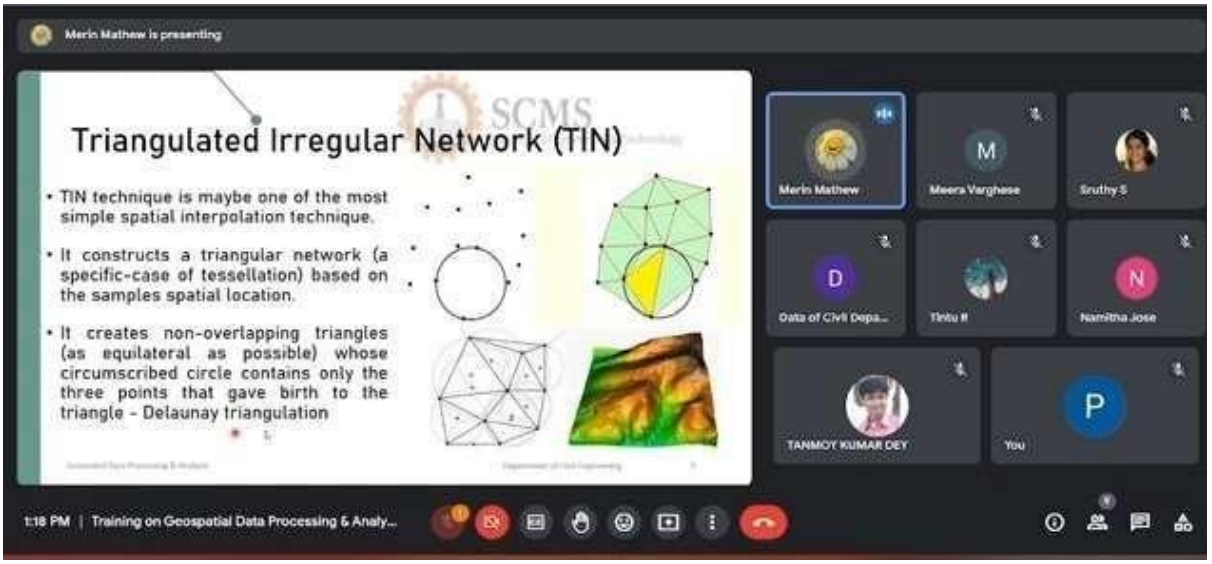
Screenshot of google meet screen of the course

Day 6: 25/02/2023

Session 7: Hands on: Development of DEM

(Ms. Merin Mathew, Assistant Professor, Department of Civil Engineering, SSET)

DEM is the simplest form of digital representation of topography to quantify the characteristics of the land surface using contour data. A DEM is a raster representation of a continuous surface, used to determine terrain attributes such as elevation at any point, slope and aspect. The difference between the terms Digital Elevation Model (DEM), Digital Terrain Model (DTM) and Digital Surface Model (DSM) were explained along with the application of these models in various fields. Various sources from which the participants canfreely download DEM were shown. During the hands-on session, first, elevation data in an excel sheet were provided, it was converted to CSV format and then imported into the QGIS platform, then using Triangulated Irregular Network (TIN) and Inverse Distance Weighting method (IDW) interpolation methods the elevation data was converted into a raster data form called DEM. The differences that occurred while using the TIN and IDW methods were also explained.



Screenshot of google meet screen of the course

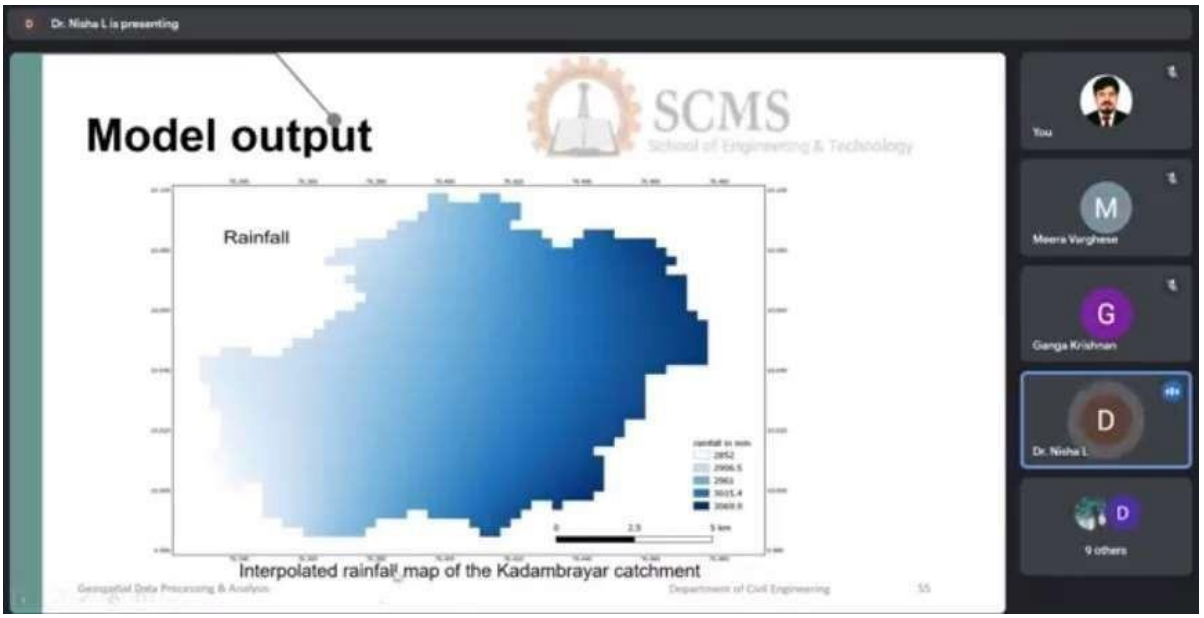
In the second exercise, a shapefile of a contour map was provided and after importing it into the QGIS platform it was converted into a DEM by using the GRASS tool in QGIS. The plugin for the GRASS tool, its installation and loading were also taught. The development ofa 3D DEM was also shown with the help of the plugin called Qgis2threejs. Then the use of the Google Earth Pro software, the creation of KML/KMZ file in it and downloading DEM from USGS Earth Explorer was exhibited in detail. With help of vector analysis tools like clipping how an area can be delineated from a larger DEM and how it can be visualized in 3Dwas also illustrated.

Day 7: 27/02/2023

Session 8: Application of GIS in Environmental Engineering

(Dr. Nisha L, Associate Professor, Department of Civil Engineering, SSET)

Planning and analyzing data in an environment requires the effective use of GIS technology. The environment needs to be monitored for an effective and improved understanding of how everything runs. To achieve a piece of accurate information, valuable information, and data that can be extracted through applications of technologies such as Geographic Information Systems. The protection of the natural environment requires the successful and responsible management of the environment. Furthermore, GIS is used in the delivery of crucial information about the environment to the environmental managers and the public. Some of the applications of Geographic Information Systems in environmental management convered in the session are Disaster Management, Environmental Impact Assessment, Monitoring of Land use, Natural resources management, Flood mapping and soil erosion mapping using USLE equation.

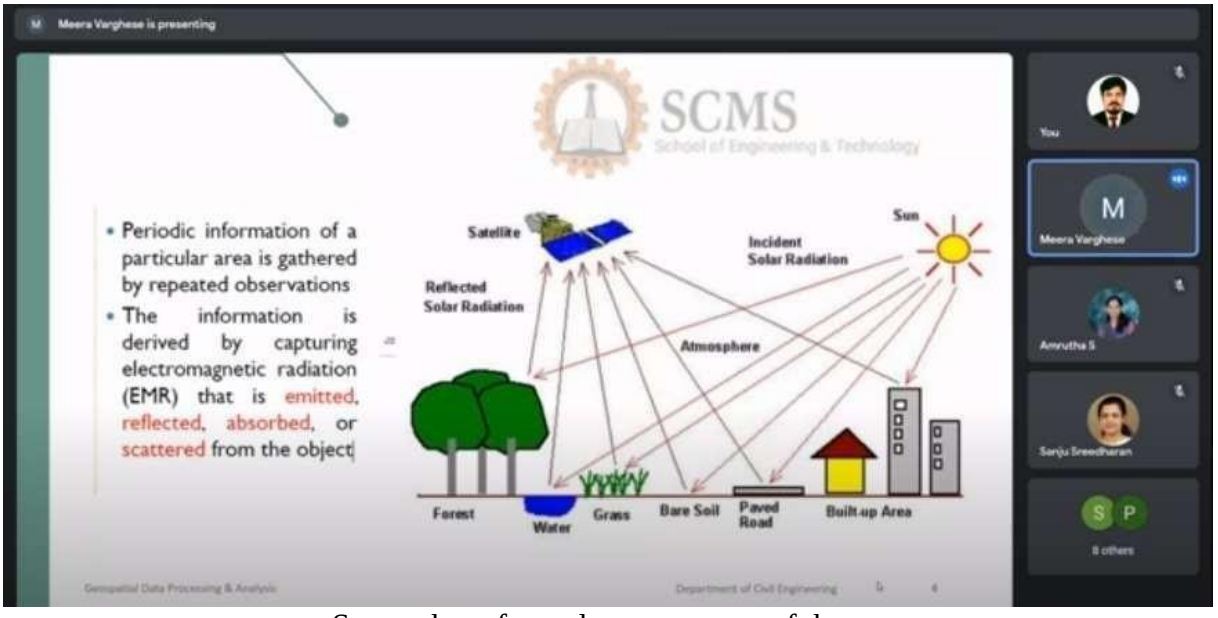


Screenshot of google meet screen of the course

Day 8: 28/02/2023

Session 9: Introduction to Remote sensing

(Ms. Meera Varghese, Assistant Professor, Department of Civil Engineering, SSET)



Screenshot of google meet screen of the course

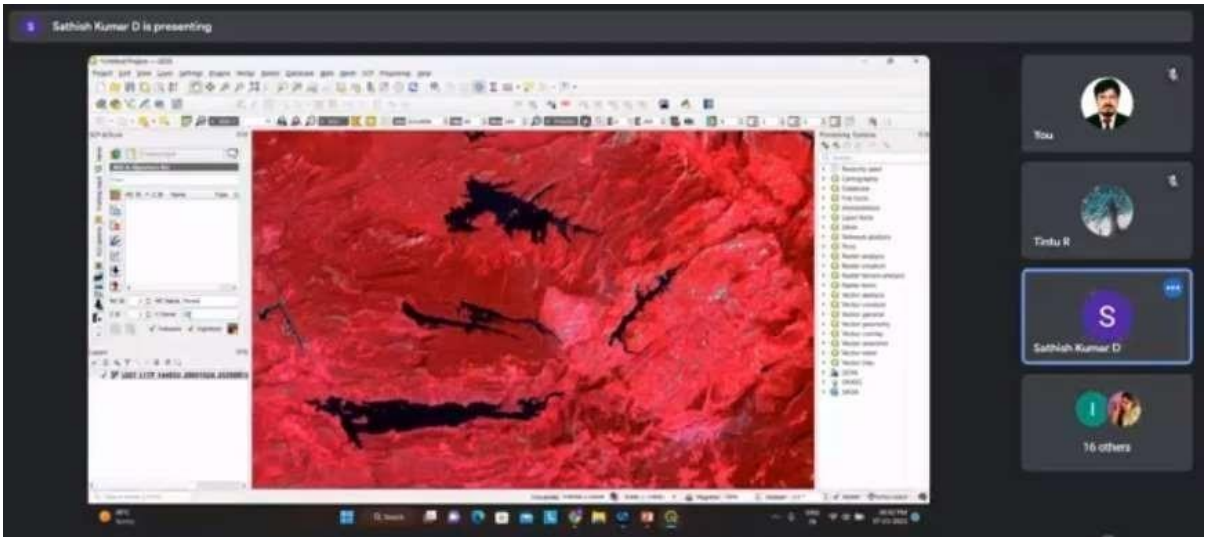
In this session an introduction to remote sensing is done. Illustrated the processes used in remote sensing data acquisition. Various satellites used for remote sensing and difference between sun synchronous and geostationary satellites were discussed. Also discussed multispectral scanners and different types of sensors. Also explained the processes involved

in energy interaction with atmosphere such as absorption and scattering. Different types of reflection and spectral reflectance curves of water soil & vegetation were also discussed. The common methods of storing image data such as BIL,BIP & BSQ was explained with a real data example. In the concluding part the various satellite programs of US, India & France were discussed.

Day 9: 01/03/2023

Session 10: Digital image processing

(Dr. Satish Kumar D, Associate Professor, Department of Civil Engineering, NIT Calicut)



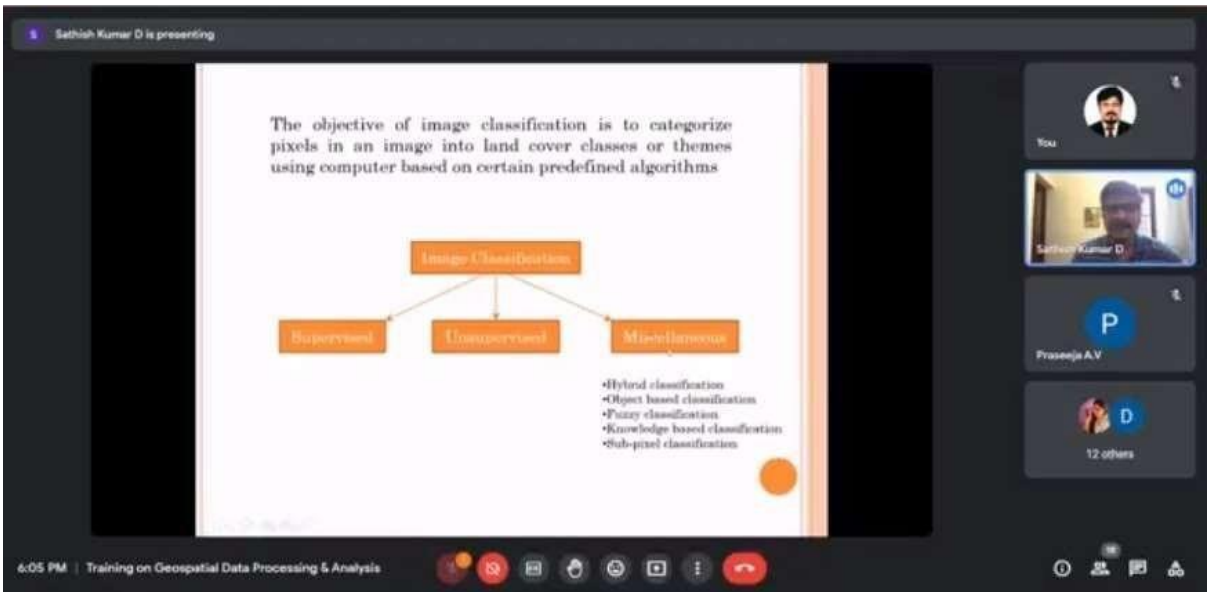
Screenshot of google meet screen of the course

In this session, the importance of digital image processing is highlighted. If the data are in digital mode, the remote sensing data can be analyzed using digital image processing techniques and such a database can be used in Raster GIS. Digital Image processing is the class of methods that deal with manipulating digital images through the use of computer algorithms. It is an essential preprocessing step in many applications, such as face recognition, object detection, and image compression. Numerous procedures involved in Digital image processing including formatting and correcting of the data, digital enhancementto facilitate better visual interpretation and automated classification of targets were briefly explained. It is understood that in applications where spectral patterns are more informative,it is preferable to analyze digital data rather than pictorial data.

Day 10: 02/03/2023

Session 11: Hands on : Digital image processing

(Dr. Satish Kumar D, Associate Professor, Department of Civil Engineering, NIT Calicut)



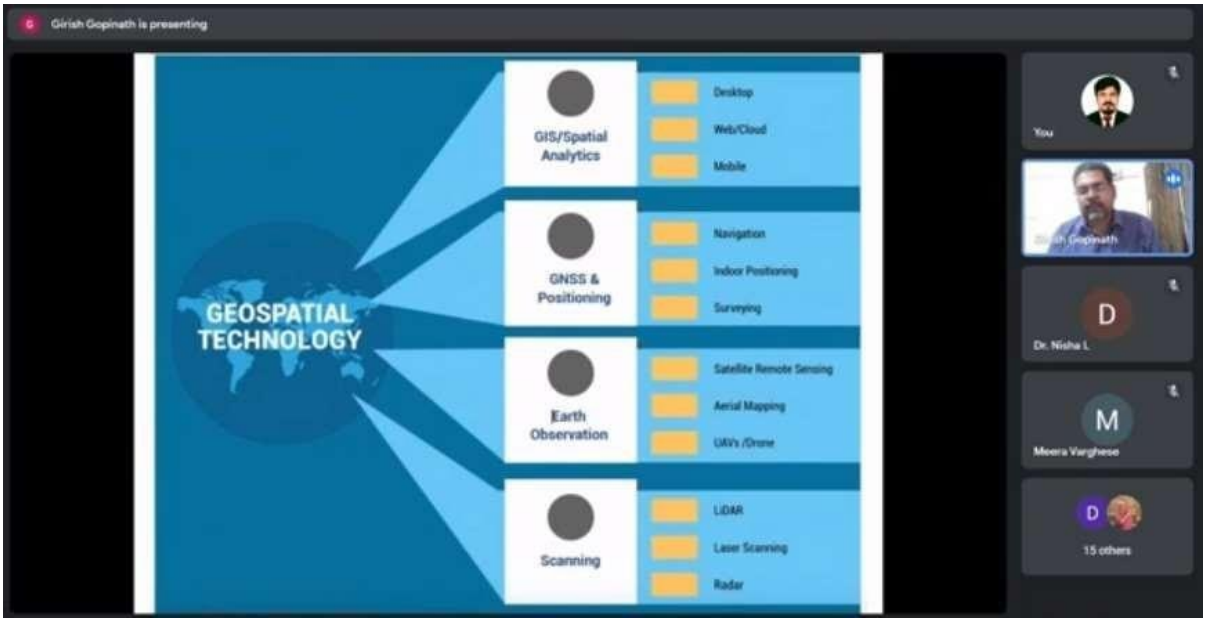
Screenshot of google meet screen of the course

The basic operations performed in a digital image processing systems were explained in this session such as data (1) acquisition, (2) storage, (3) processing, (4) communication and (5) display.The hands on session mainly intended to perform the image processing in QGIS which involves to transform an image into digital form and perform certain operations on it inorder to obtain specific models or to extract useful information from the image. The session allows us to practice on Importing the image via image acquisition tools, Analyzing and manipulating the image in QGIS. Three levels of processing that are applied to an image suchas low-level, intermediate-level and high-level processing were discussed. The basic structurefor performing image classification and the process involved for supervised and unsupervisedclassification in QGIS were covered in handson session.

Day 11: 03/03/2023

Session 12: Geospatial technology in water resources management
(Dr. Girish Gopinath, Associate Professor, KUFOS)

River ecosystem monitoring and management proclaim greater relevance due to utilization, management and exchange of water resources. River basin delineation and assessment of theriver water budget is the most significant step for sustainable water resources management, which is an appropriate application of remote sensing. This session explicates the various present and future geospatial applications for monitoring and management of the river ecosystem. Geospatial technology (Remote sensing, GIS, and GPS) is a well-built tool with wide area of application. Remotely sensed data use has increased rapidly in the hydrology, mainly for surface water monitoring because of its synoptic coverage with availability of long time series and continuity of data. Remote sensing and GIS make significant contributionand provide valuable data by which our knowledge of land hydrology has enhanced.



Screenshot of google meet screen of the course

Integrated water management, or coordinated development and management of water, land and related resources, is vital for poverty alleviation, environmental sustenance and sustainable economic development. Geospatial technology has been demonstrating its effectiveness in water management as it creates the possibility for spatial identification of water sources, major problems and a more objective definition of priority actions.

Day 12: 04/03/2023

Session 13: Hands on: Multicriteria Overlay analysis
(Mr. Jean Joy, GIS Consultant, UK)

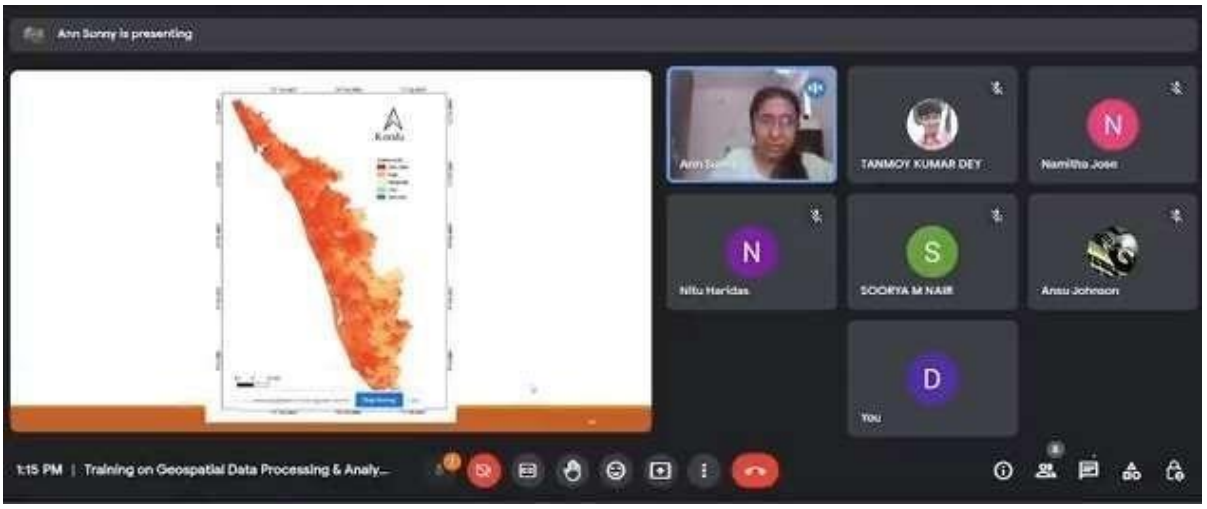
Multi-criteria Overlay Analysis is the process of the allocation of land to suit a specificobjective on the basis of a variety of attributes that the selected areas should possess. Although this is a common GIS operation, it is best performed in the raster space. Multi- criteria analysis (MCA) is a technique used to consider many different criteria when makinga decision. MCA gives a logical, well-structured process to follow so different factors can be clearly identified and prioritised. It allows the alternative solutions being considered to be ranked in order of suitability. It can be used to identify and compare different policy options by assessing their effects, performance, impacts, and trade-offs. MCA provides a systematic approach for supporting complex decisions according to pre-determined criteria and objectives. This session provides a hands on practice on performing MCA

Screenshot of google meet screen of the course

Day 12: 04/03/2023

Session 14: Drought Mapping in GIS

(Ms. Ann Maria Sunny, M.Tech EE Alumna)



Screenshot of google meet screen of the course

In this session, an overview of how to generate drought zonal map in QGIS is highlighted, which include generation of location map. Some of the basic operations like clipping, rasterization, IDW interpolation in the raster data analysis are discussed with a hands on session. The CSV vector file is converted and it is interpolated using IDW interpolation mainly it is used for generation of rainfall map and temperature map. The vector file of the soil map is added as a layer in QGIS after that it is clipped into required shape, then this vector file is converted into a raster layer.

Day 13: 05/03/2023

Session 15: Importing GIS data for water treatment
(Ms. Devika, M.Tech EE Alumna)

Screenshot of google meet screen of the course

The session provided insight into creating Water Supply systems including junctions, pipes and other components and importing the data required to do so in QGIS Software. The training included providing various methods to get the water supply system data in a GIS- compatible format, like a shapefile, geodatabase, or MapInfo. Also, the training covered a variety of techniques for including any extra data layers required for the design and analysis of water supply systems, including water sources, water treatment facilities, and distribution networks. It also discussed how to automatically generate various parameters, such as elevation, utilising DEM and different plugins, such as Q-Water and Q-Epanet. Finally, the session concluded with methods to generate input files for other software like EPANET and WaterGEMS.

Day 14: 06/03/2023

Session 16: Role of granular spatial information in water management
(Dr. Suresh Francis, Senior scientist, KSREC)

An overview of GIS emersion and its application in water science is highlighted in this session, which covers the common technical phrases and definitions in granular geospatial technology. The speaker also discusses the importance and necessity of employing GIS in water resource management.

Screenshot of google meet screen of the course

The methodology of applying GIS in water management research and discuss it through three case studies in detail were also explained. We could gain an understanding of the problem solving in water resource management by the proper tools available on the QGIS and in GIS outsources. The application of Remote sensing and GIS-based groundwater studies are recommended to be carried out in conjunction with field investigations to effectively exploit the expanding potential of RS and GIS technologies. .Both the RS and GIS technologies have great potential to revolutionize the monitoring and management of vital groundwater resources in the future.

Assessment Pattern

Two assignments of 15 marks each

Final Assessment exam -50 marks, passed with a minimum of 20 marks

Viva-20 marks

Certificates will be awarded to students who completed the course with a minimum of 40

marks(total score) and a minimum of 20 marks in final exam.

Minimum 75% attendance is mandatory to get the certificate.

Geospatial Data Processing and Analysis

Organised by

Department of Civil Engineering

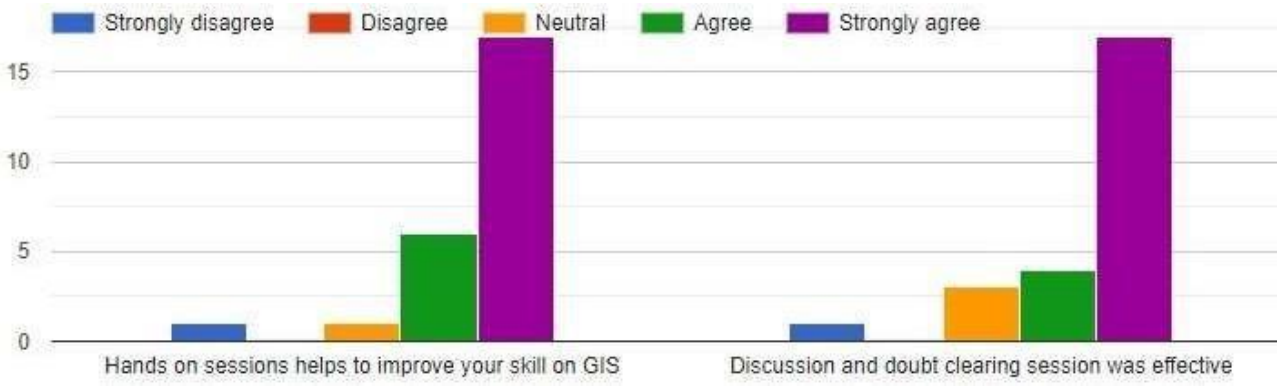
SCMS School of Engineering and Technology, Karukutty

Date: 20th Feb – 06th March 2023

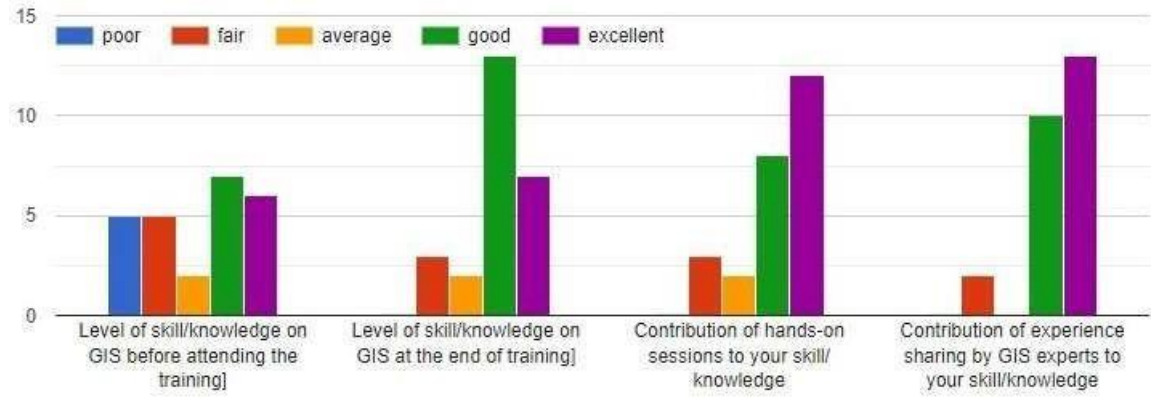
Time 6.00 pm to 8.00 pm (Online)

FEEDBACK FORM ANALYSIS

1. Training content and outcome



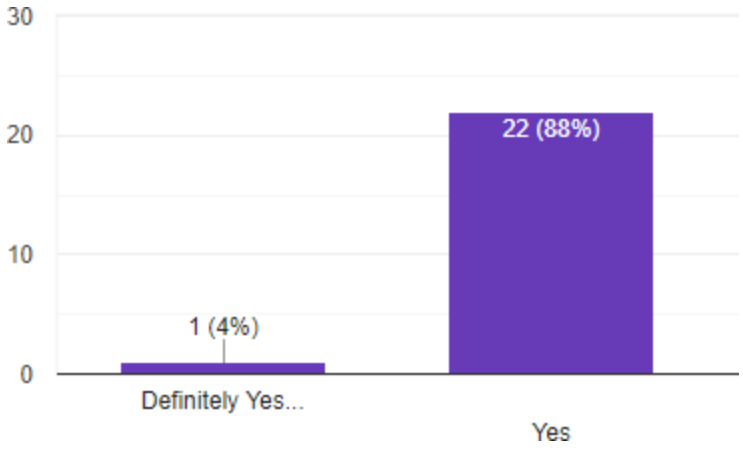
2. GIS experience before and after attending the course



3. What aspects of this training program were found most useful?

1. Each session had application level examples and hands on sessions. Also, was helpful and patient enough to clear doubts during the sessions.
2. Use of gis data for various purposes
3. Using tools
4. Hands on sessions were executed in a well planned manner and the trainers were patient enough to pause and clear our doubts
5. Everything
6. I am new to this field of study and to the application. learning about the topic and its application in various studies have been informative.
7. Hands-on with prior dataset availability and clear instructions during workshop
8. Everything was useful
9. We could learn a lot from each sessions.
10. Hands on classes were most useful
11. Hands on programme was most useful
12. Hands- on session
13. All information about QGIS software
14. The whole course curriculum was well arranged with the right person of expertise in the field .it opened up to all areas of GIS in brief so that we could identify our area of interest
15. Application-based approach of the whole workshop is very very useful and appreaciated from my end.
16. Addressing each and every doubt from the participants and hands-on training and video recording
17. Plotting excel file data in QGIS
18. Well experienced tutors, simple explanation, approachable nature
19. Informative
20. Everything in this training were found to be useful in this training program
21. Hands-on trainings
22. Hands on sessions
23. Hands on training
24. Practical sessions
25. I would like to be gain more understanding of its applications and become more familiar with the tools used in the studies

4. Are you willing to participate in future training programson GIS?



Course Coordinator **HOD** **Principal**

Course Summary

MICROSOFT AZURE DATA FUNDAMENTALS

ADD ON COURSE (30 hours)

Summary

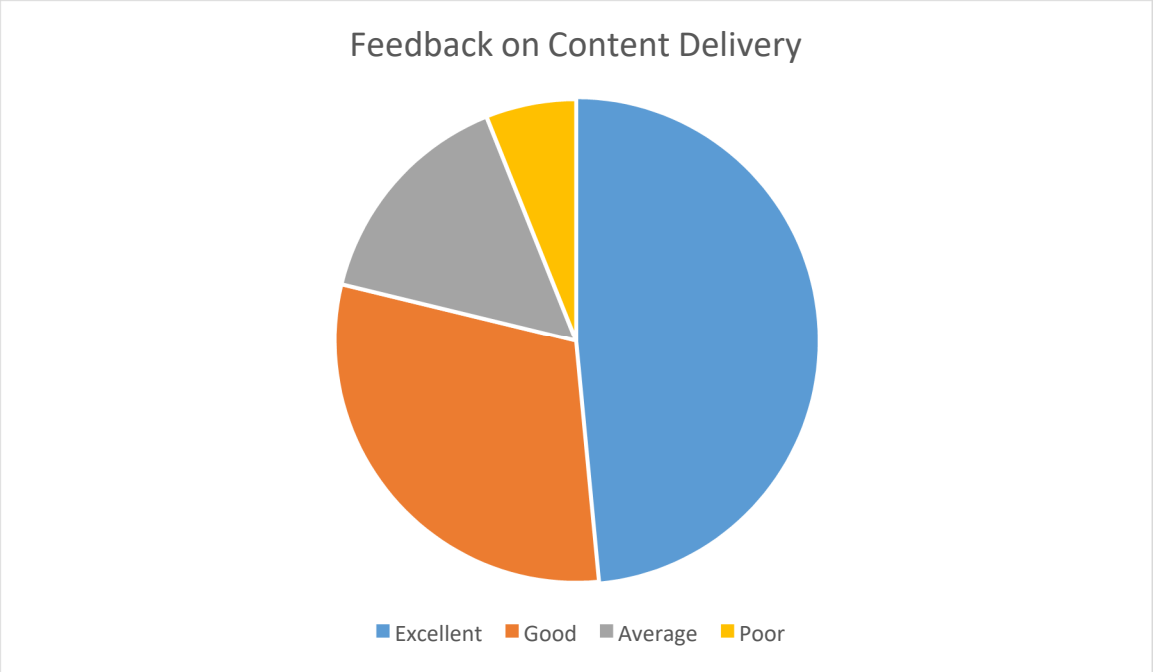
This add on course mainly focused on the data fundamentals and its applications in industry. For that more practice questions in SQL queries programming based on placementare discussed in the course. This interactive session ignited the inquisitiveness of participants and the informative course culminated with a vote of thanks from the resource persons and feedback from the participants. The course was conducted from 17-04-2023 to 21-04-2023.In this course a total of 244 students participated and got certified.

Assessment Criteria
Two assignments of 15 marks each
Final Assessment exam -50 marks, passed with a minimum of 20 marks
Viva-20 marks
Certificates will be awarded to students who completed the course with a minimum of 40 marks(total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate.

Coordinator HOD PRINCIPAL

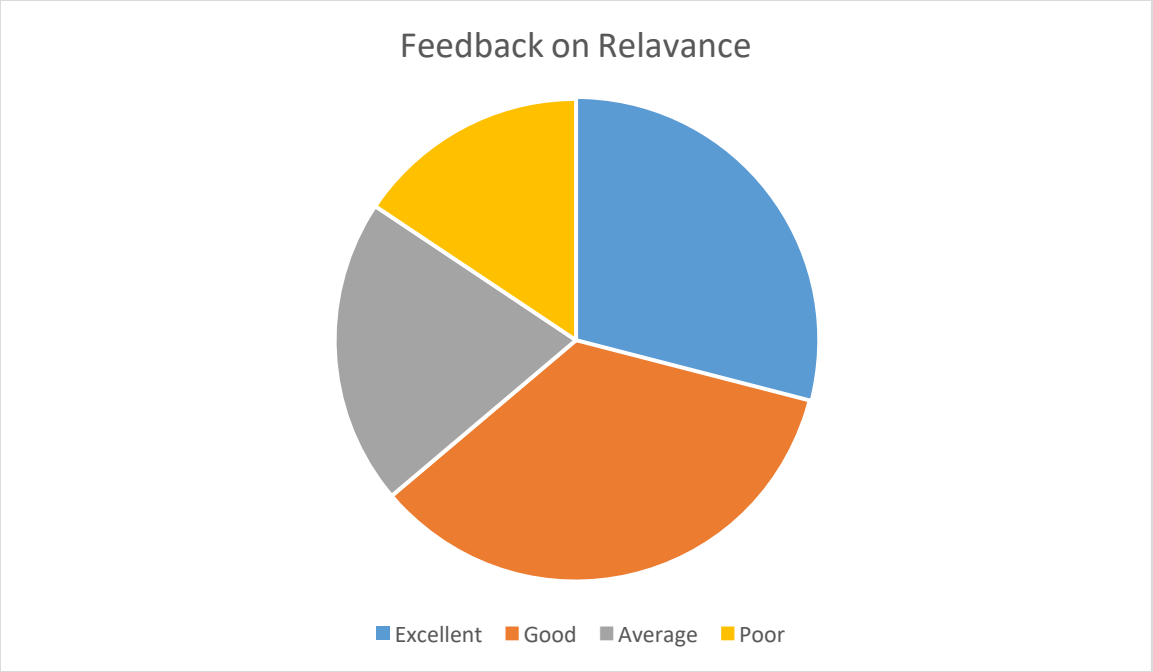
Feedback

1. Feedback on Content delivery

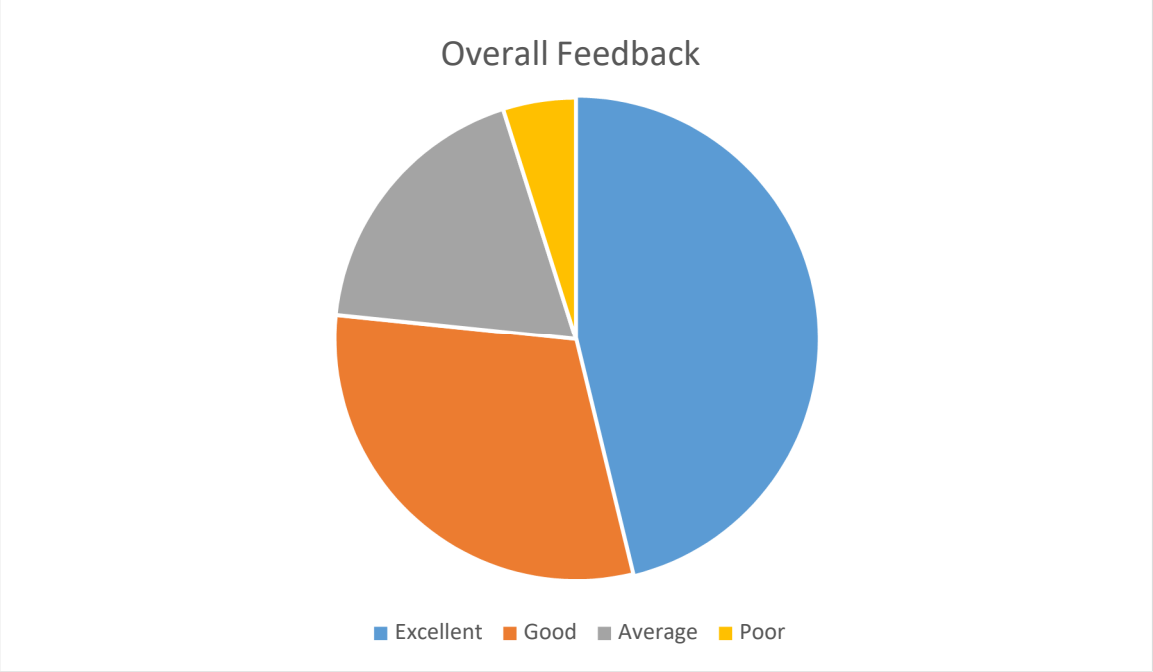


2. Feedback on Effectiveness

3. Feedback on Relevance



4. Overall Feedback



Course Summary

Value Added Course on

Engineer Empower: Unleashing Your Professional Persona

Summary (30 hrs)

Value added course was organized by Basic Sciences and Humanities department and Placement cell on 20-6-2022, 21-6-2022, 27-6-2022, 28-6-2022 and 4-7-2022 286 students successfully completed the course.

Assessment Pattern
Two assignments of 15 marks each

Final Assessment exam -50 marks, passed with a minimum of 20 marks

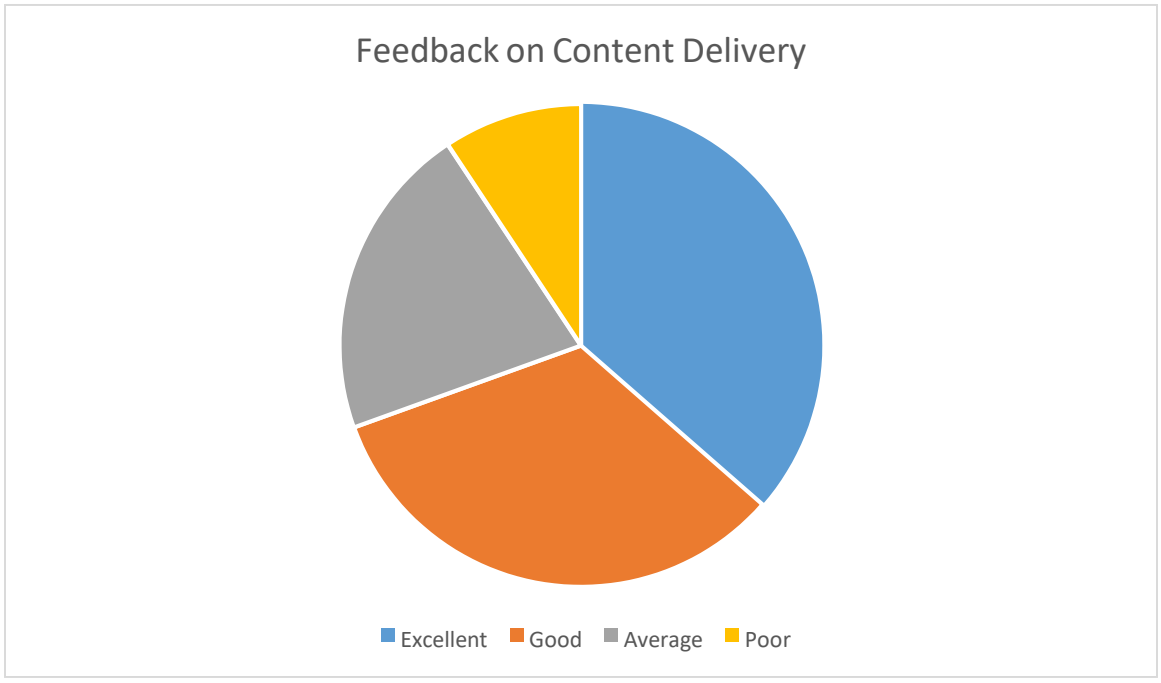
Viva-20 marks

Certificates will be awarded to students who completed the course with a minimum of 40 marks(total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate.

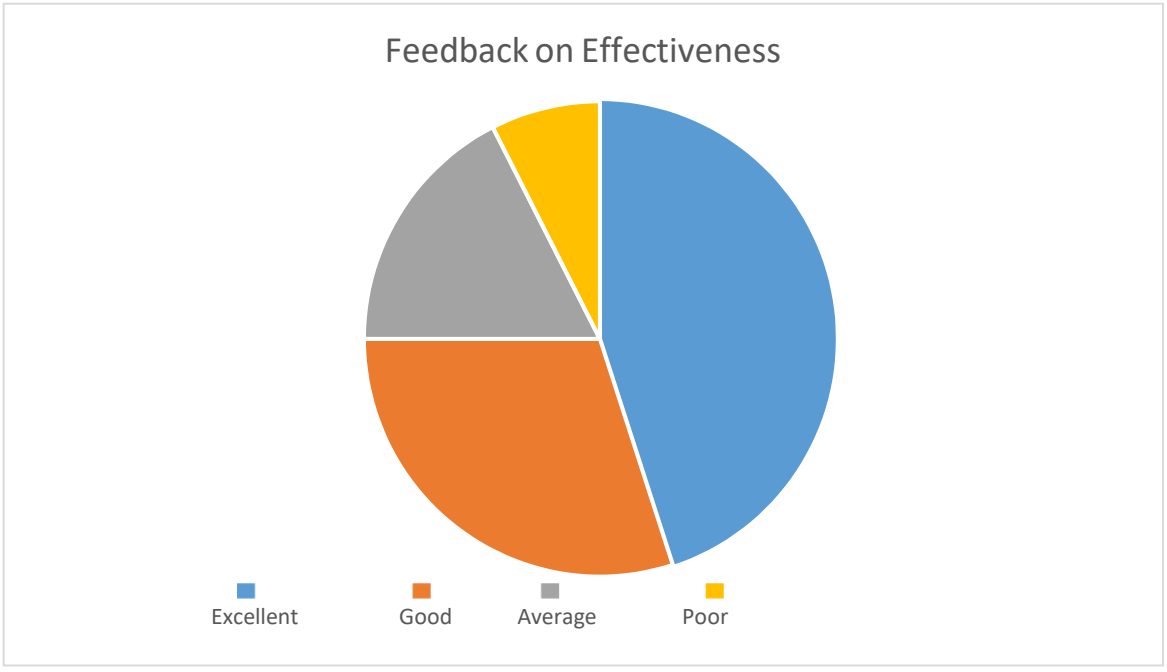
Course coordinator HOD Principal

Feedback

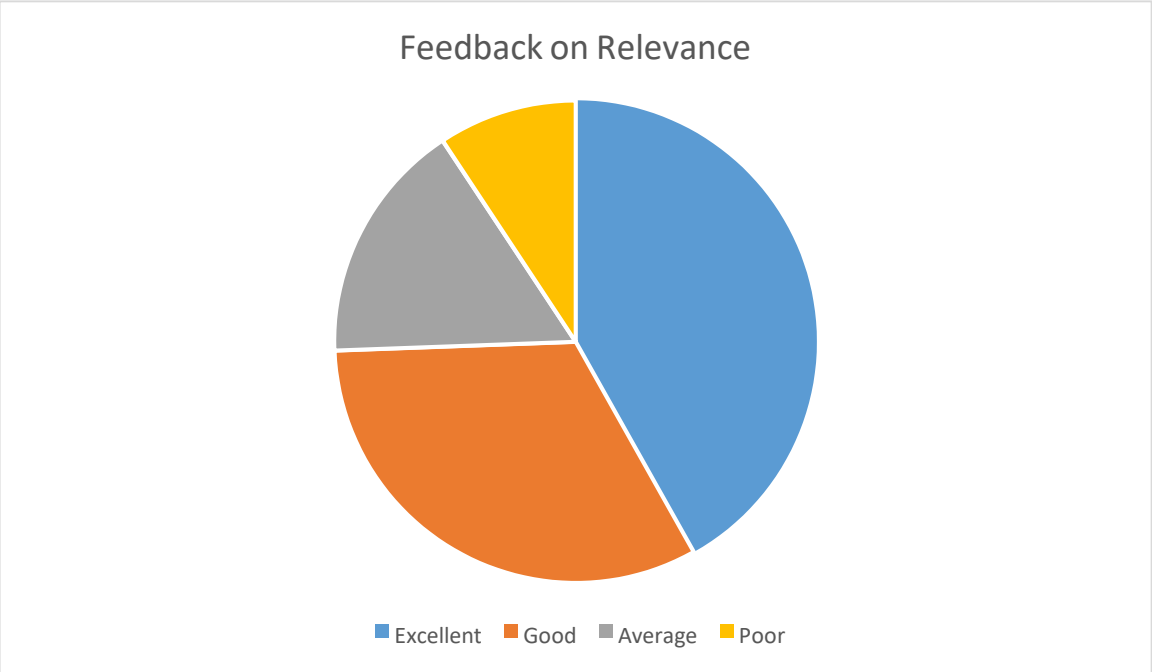
1. Feedback on Content delivery



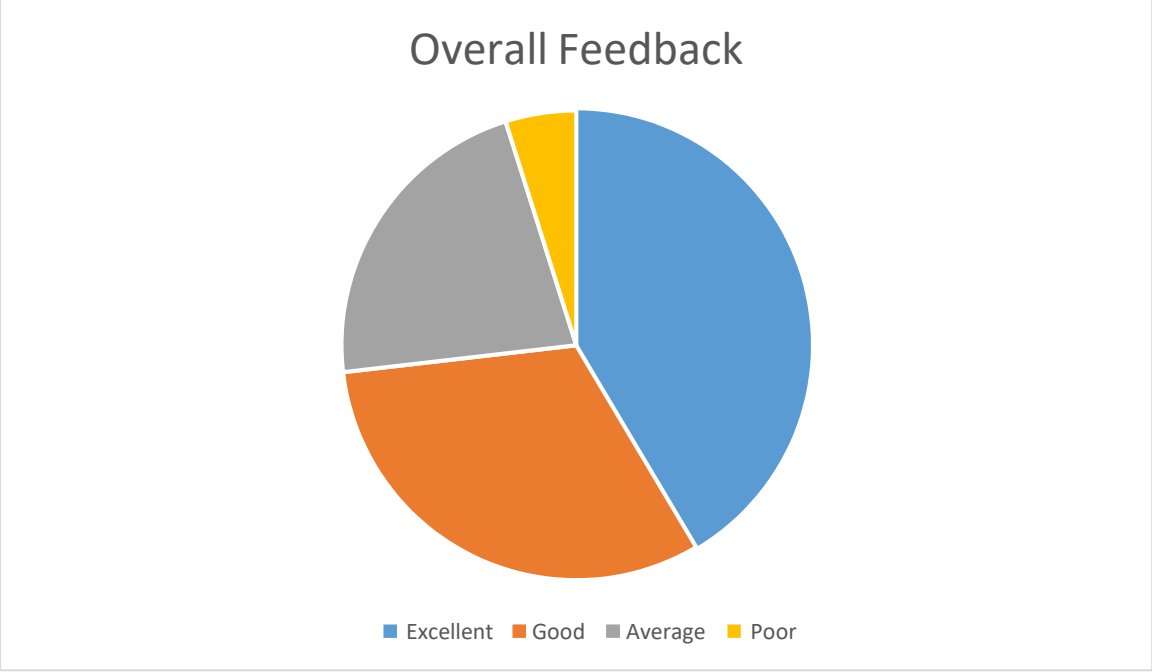
2. Feedback on Effectiveness



3. Feedback on Relevance



4. Overall Feedback



Course coordinator HOD Principal

Course Summary

Add on course on Auto Desk Auto CAD

30 Hours

Add On Course on “Autodesk AutoCAD” was organized by the EEE Dept of SCMS School Of Engineering & Technology in association with ACE during February/March 2023.This course provided opportunities to students to enrich their technical knowledge in the field of CAD and its applications. The resource person was Mr.Arun Joy, Design Engineer, Tritech Design Academy Ernakulum. The Programme also intends to develop the knowledge of participants for electrical system modelling in the relevant field for inculcating learning values in students. The course was opened to S6 and S8 EEE students. Twenty students participated in the course and twenty students completed the course after meeting the required criteria. The feedback of the sessions received by the participants was excellent

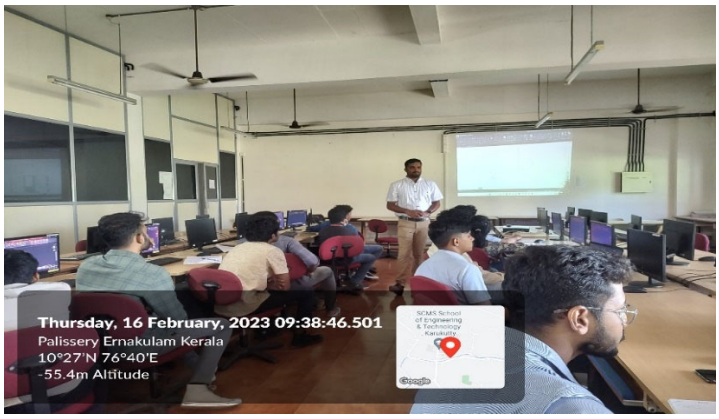
Assessment Pattern

Two assignments of 15 marks each

Final Assessment exam -50 marks, passed with a minimum of 20 marks

Viva-20 marks Minimum 75% attendance is mandatory to get the certificate.

Certificates will be awarded to students who completed the course with a minimum of 40 marks (total score) and a minimum of 20 marks in final exam

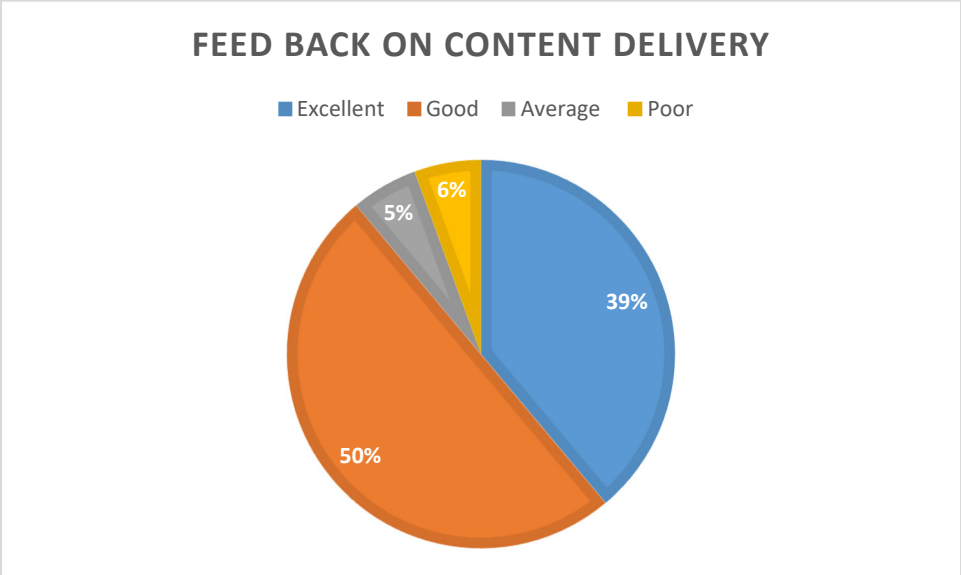


Add on course on Autodesk AutoCAD (30 hours) conducted by Department of Electrical and Electronics Engineering

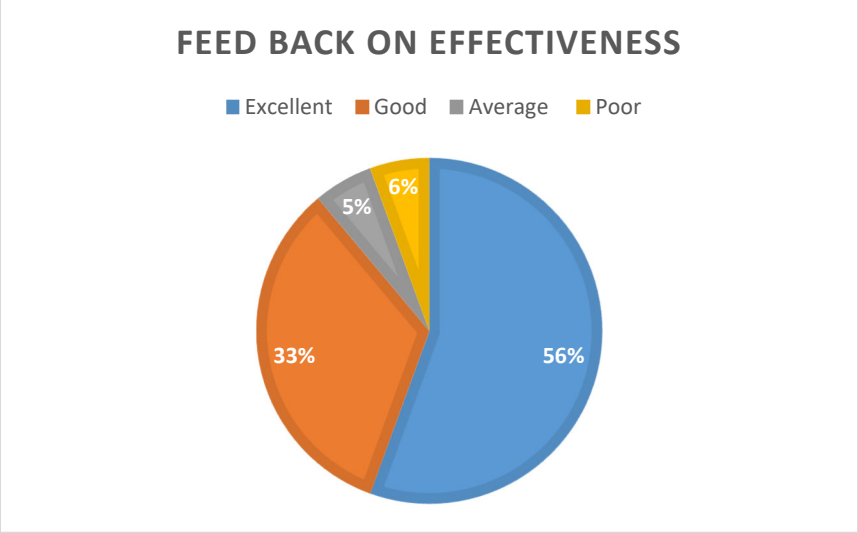
Course Coordinator **HOD** **Principal**

Feedback

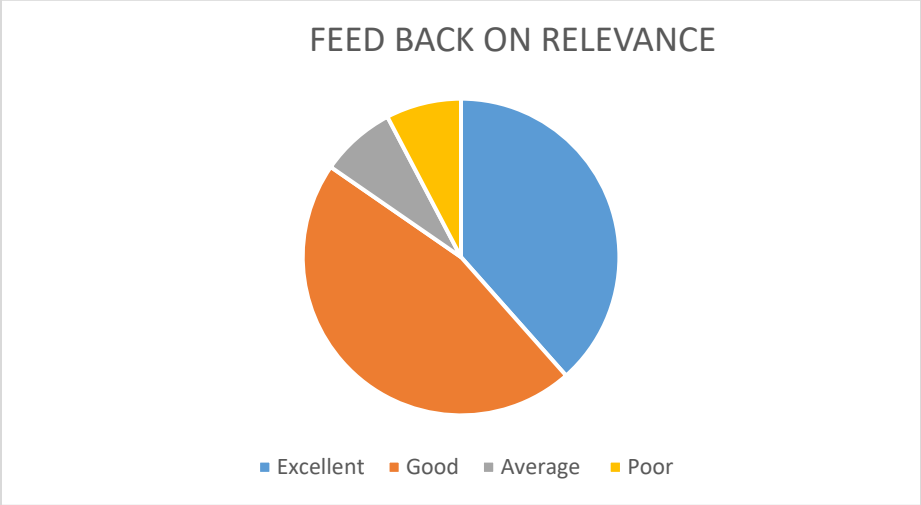
1. Feedback on Content delivery



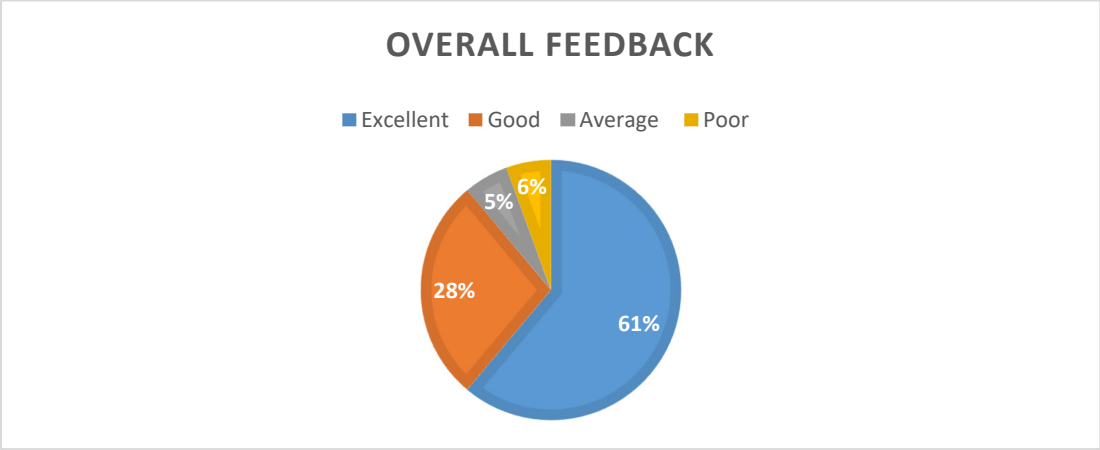
2. Feedback on Effectiveness



3. Feedback on Relevance



4. Overall Feedback



Course Coordinator **HOD** **Principal**

Course Summary

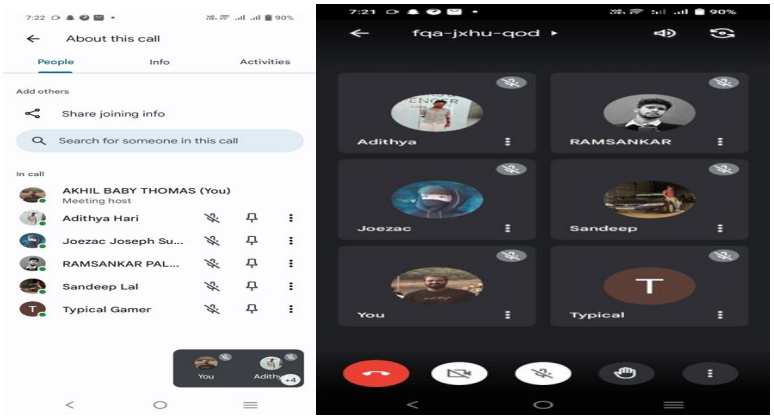
Online Value- Added course on “Human Rights and Duties Education”

30 Hours

Online Value Added Course On Course on “Human Rights and Duties Education” was organized by the BSH Dept of SCMS School of Engineering & Technology during March/ April/May 2023. The primary objective of this value-added course on “Human Rights and Duties Education” is to create an awareness among students on the fundamentals of human rights. The course is designed to provide fundamental knowledge about human rights, their framework, problems with implementation, solutions to those problems, the rights from a national and international perspective, and various categories of human rights. The course was opened to all students. Twenty-Eight students participated in the course and completed the course. The feedback of the sessions received by the participants was excellent **.**

Assessment Pattern

Two assignments of 15 marks each Final Assessment exam -50 marks, passed with a minimum of 20 marks Viva-20 marks . Certificates will be awarded to students who completed the course with a minimum of 40 marks (total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate.



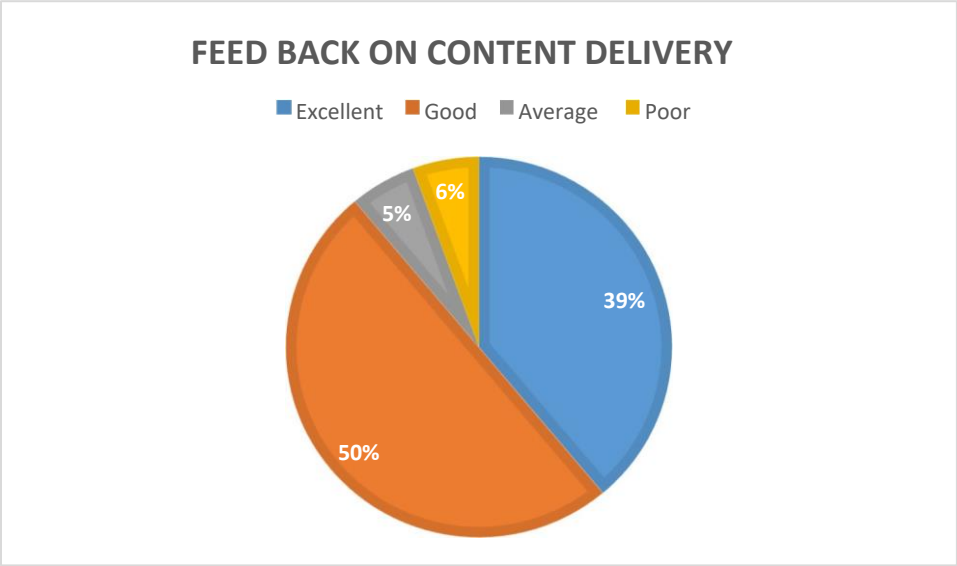
Value added course on Human rights and Duties education (30 hours)

Coordinator

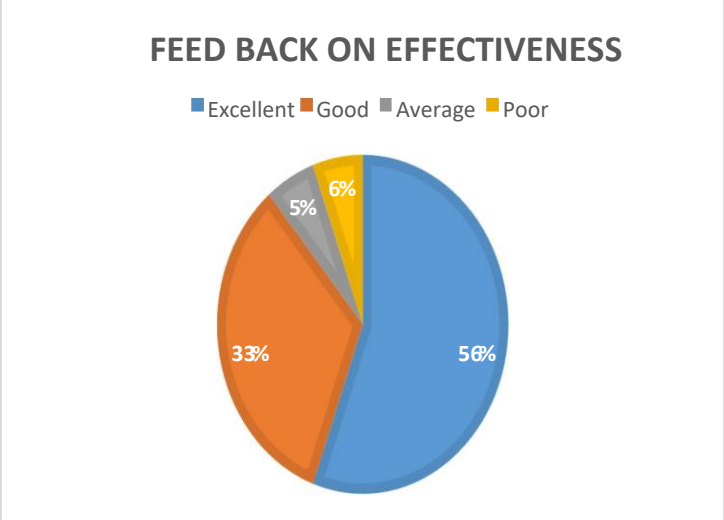
HOD

Principal

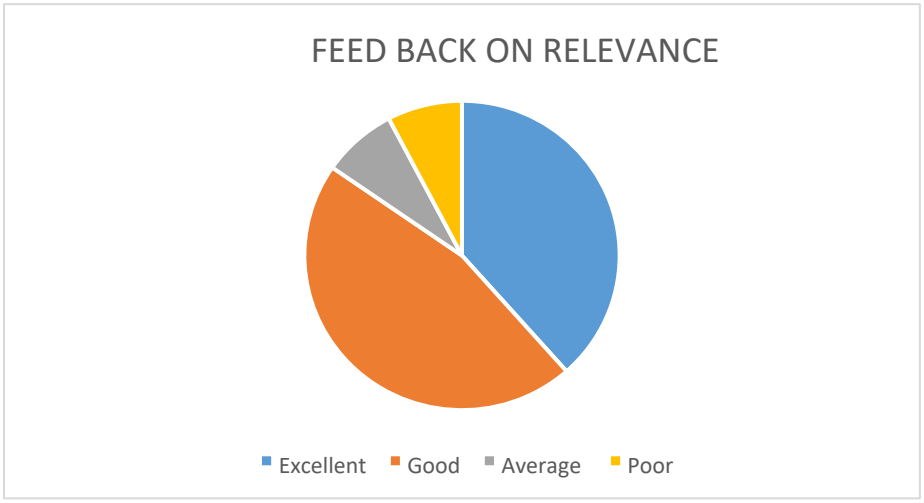
1. Feedback on Content delivery



2. Feedback on Effectiveness



3. Feedback on Relevance



4. Overall Feedback

Course Summary

NEW TRENDS IN ARTIFICIAL INTELLIGENCE

ADD ON COURSE (30 hours)

Summary

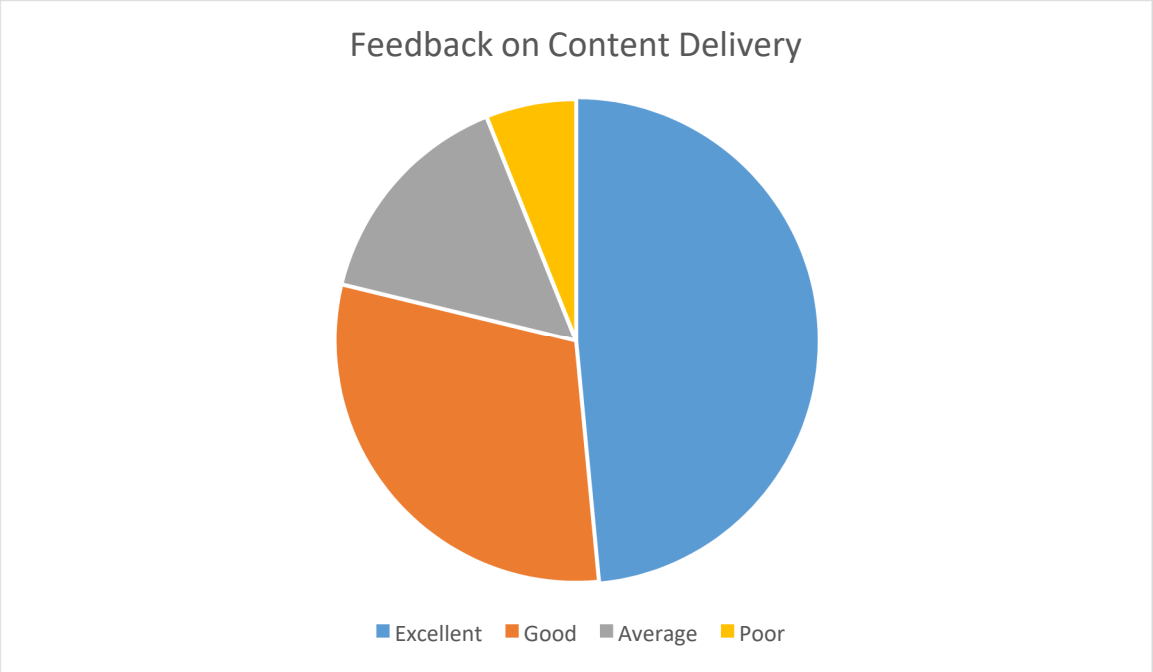
This add on course mainly focused on the new trends in artificial intelligence and its applications in industry. For that more practice questions in AI were discussed in the course. This interactive session ignited the inquisitiveness of participants and the informative course culminated with a vote of thanks from the resource persons and feedback from the participants. The course was conducted from 21-11-2022 to 25-11-2022.In this course a total of 393 students participated and got certified.

Assessment Criteria
Two assignments of 15 marks each
Final Assessment exam -50 marks, passed with a minimum of 20 marks
Viva-20 marks
Certificates will be awarded to students who completed the course with a minimum of 40 marks(total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate.

Coordinator HOD PRINCIPAL

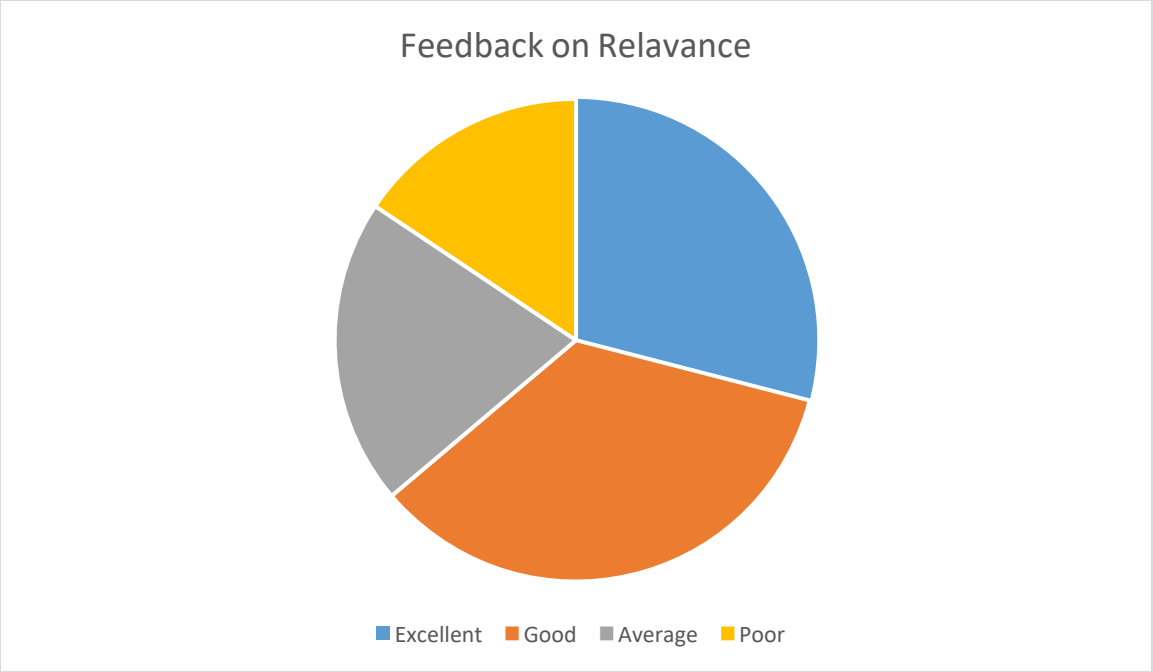
Feedback

1. Feedback on Content delivery

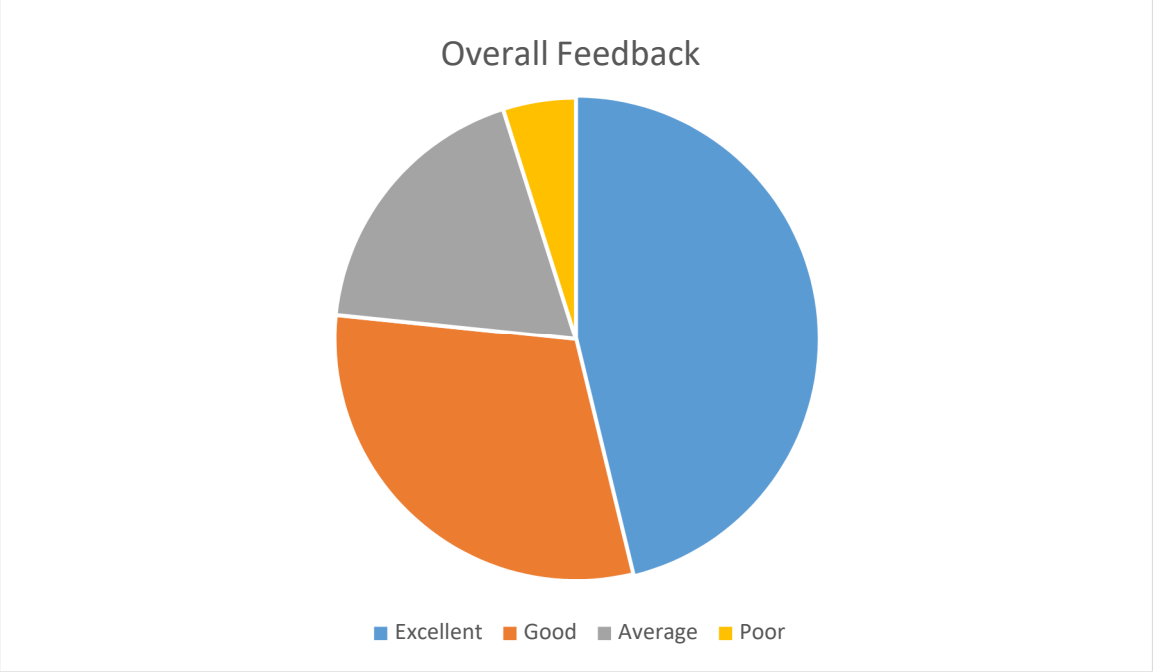


2. Feedback on Effectiveness

3. Feedback on Relevance



4. Overall Feedback



SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

Vidya Nagar, Palissery, Karukutty, Kerala 683576

Add on /Certificate/Value added programs and Online MOOC programs like NPTEL, Swayam

2021-22

Sl. No	Name of the Add on /Certificate/Value added programs and Online MOOC programs like NPTEL, Swayam	Course code
1	Soft skills for Engineers	CES2122S01
2	Liquid Waste Management Under SBM 2.0	CLW2122S02
3	3D Printing and Design	CPD2122SO3
4	Arduino Programming Using MATLAB/Simulink	CAM2122SO4
5	Cybersecurity Essentials	CCE2122S05
6	Microsoft AI	CMA2122S06
7	Ansys and Creo	CAC2122S07
8	Personality Development for Engineers	CPE2122S08
9	Internet of things	CIT2122S09
10	CNC Lathe	CCL2122S10
11	Essential Concepts in C Programming	CEP2122S11
12	Foundation Engineering	NPT2122S01
13	Glass in buildings: Design and Applications	NPT2122S02
14	Modern Construction Materials	NPT2122S03
15	Remote Sensing: Principles and Applications	NPT2122S04

SCMS SCHOOL OF ENGINEERING & TECHNOLOGY KARUKUTTY ERNAKULAM 683 576

PRINCIPAL
SCMS SCHOOL OF ENGINEERING & TECHNOLOGY
VIDYANAGAR, PALLISSERY, KARUKUTTY
ERNAKULAM, KERALA-683 576

Course Summary

Value added course on

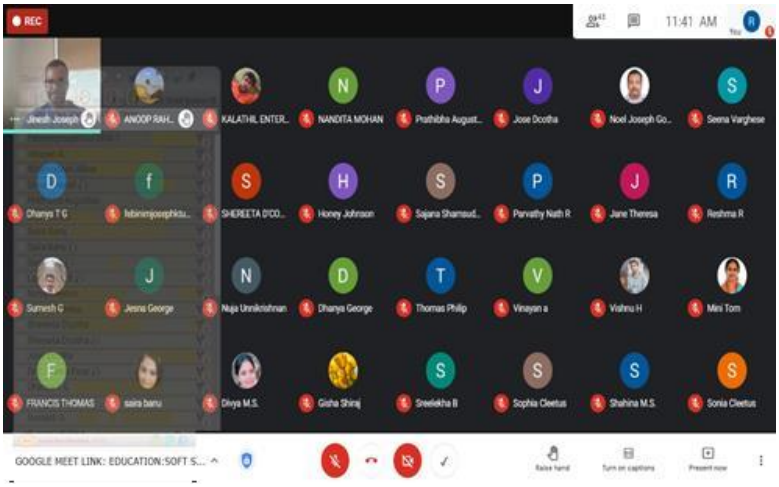
Soft Skills for Engineers

Value Added course on Soft Skills for Engineers was conducted for 30 hours from 17/4/22 - 22/5/22. Thirty students had enrolled for the course and Thirty students completed the course after meeting the requirements for course completion. 30 students enrolled and 30 students completed the course.

Assessment Criteria
Two assignments of 15 marks each
Final Assessment exam - 50 marks passed with a minimum of 20 marks
Viva - 20 marks

Certificates will be awarded to students who complete the course with a minimum of 40 marks (total score) and a minimum of 20 marks in final exam

A minimum of 75% attendance is mandatory for the course completion.



Screen shot of Google meet screen of the course

Reshma. R

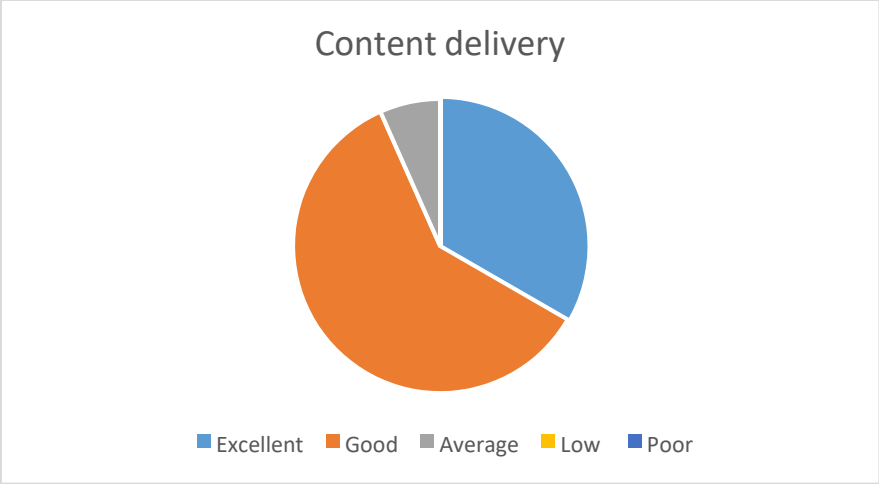
Course Coordinator

HOD

Principal

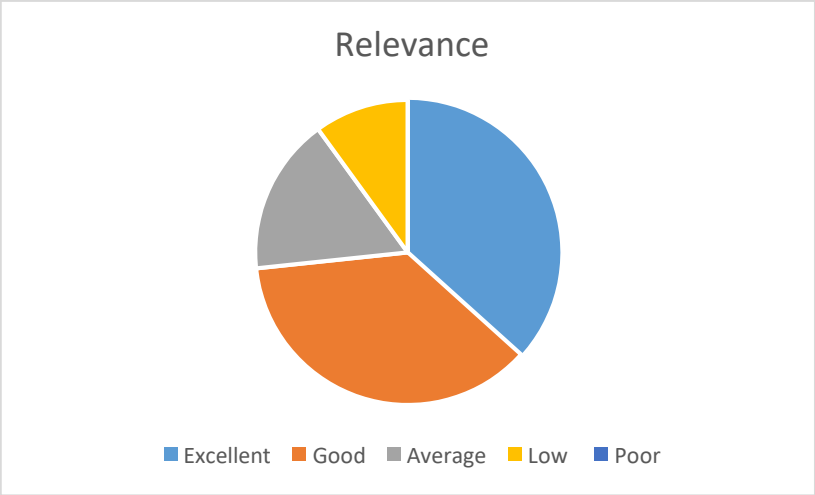
FEEDBACKS

1. Feedback on Content delivery



2. Feedback on Effectiveness

3. Feedback on Relevance



4. Overall Feedback

Course Coordinator

HOD

Principal

Add on course on
Liquid Waste Management Under SBM 2.0

30 HOUR DURATION COURSE
Course Summary

Add-on course on Liquid Waste Management Under SBM 2.0 was conducted for 30 hours conducted from 23/5/2021-27/5/2021 in online mode. Eighty-two students had enrolled for the course and 82 students completed the course after meeting the requirements for course completion.

Assessment Pattern

Two assignments of 15 marks each
Final Assessment exam -50 marks, passed with a minimum of 20 marks
Viva-20 marks
Certificates will be awarded to students who completed the course with a minimum of 40 marks (total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate.

After the inauguration, we had the first technical session on Public Health and Sanitation Nexus. We had discussions on different impacts of liquid and sanitation wastes on the health of people and their standard of living. In the second session, the trainers gave us an overview on Non-Sewered Sanitation. The third session was to make us aware of the scope of non-sewered sanitation in the Swachh Bharat Mission 2.0. Then we had an exposure to the information and practicality regarding different small-scale sanitation systems in India in the fourth session. The final session of the day was specifically about the fecal sludge and septage management. Sanitation is a service level bench mark that includes systems to carry off the dirty water and sewage from its place of origin so as to protect the health of the public. Several advanced, but feasible methods of sewage disposal are prominent in studies. One such innovation is Sewage Farming, which refers to the use of untreated sewage in farming, indulging drip irrigation into it to reduce wastage of water. As responsible engineers we should ensure proper collection and treatment of sewage, basic hygiene practices, protected and uncontaminated food and water. The main goals should be: ✓ Health (especially children) ✓ Convenience (especially ladies) ✓ Environment protection ✓ Safety and dignity (especially ladies) SDG 6 (Sustainable Development Goals) has several sub-divisions ranging from 6.1 to 6.6. The most efficient way to measure the impact of improper sanitation handling is the life expectancy. The average life expectancy of any sanitation worker (the one who enters into the sanitation waste storage provisions like the septic tank or sewage pipe) is expected to be reduced significantly due to his exposure to contamination and infections.

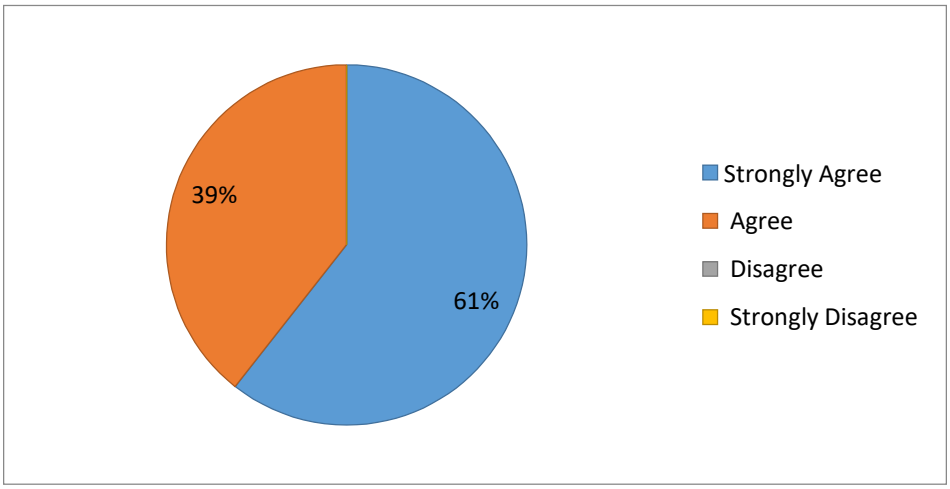
World Health Organization (WHO) has set a standard called Disability Adjusted Life Years (DALY). DALY = Years of lives lost due to primitive mortality + Years lived with disability Then we had a detailed study about SFD (Shit Flow Diagram). *Emergency Response Sanitation Unit (ERSU): Toll free number 14420 For Urban areas, we have 1. SBM 2.0 (solid handling and disposal --> liquid/percolate treatment --> disinfection of liquid steam and solid matter Disposal technologies 1. Deep row trenching 2. Geobags 3. Planted drying beds (beds using sand and gravel mainly Plants with deep root 4. Aerobic digester with unplanted drying bed 5. Thickening tank+ sludge drying bed+ storage 6. Anaerobic baffle reactor - DLP Design liability period - SOR Schedule of rates - DBOT design build operate transfer 2 ways of tendering: 1. L1: choosing the offer from the lowest expenditure 2. QCBS: Quality cost-based selection. It can be technical or financial. In technical, it can be based on design and organization Gender Inclusive Sanitation was discussed in depth. Equity is important than equality. Public toilets and other facilities should be made accessible to common people, and should be safe for women and children to use it. Any kinds of harassments or disturbances would deprive them from using the facilities provided. Toilets should be designed specifically for male, female, as wellas transgenders. Special facilities for infants, elderly people, and speciallyabled onesshould be considered.
Mobile treatment unit and its working was demonstrated live.

Add on course on Liquid waste management (23/5/21-27/5/21)(30 hours)

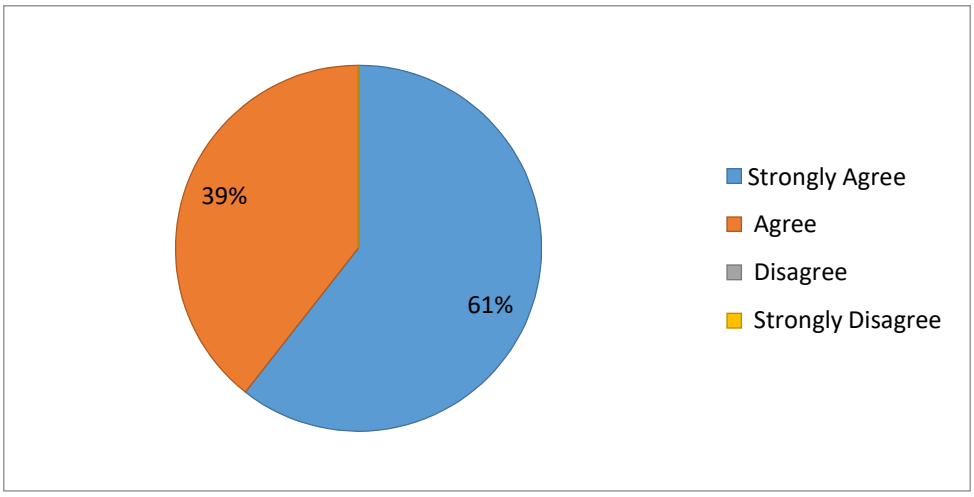
Course Coordinator HOD Principal

Feedback

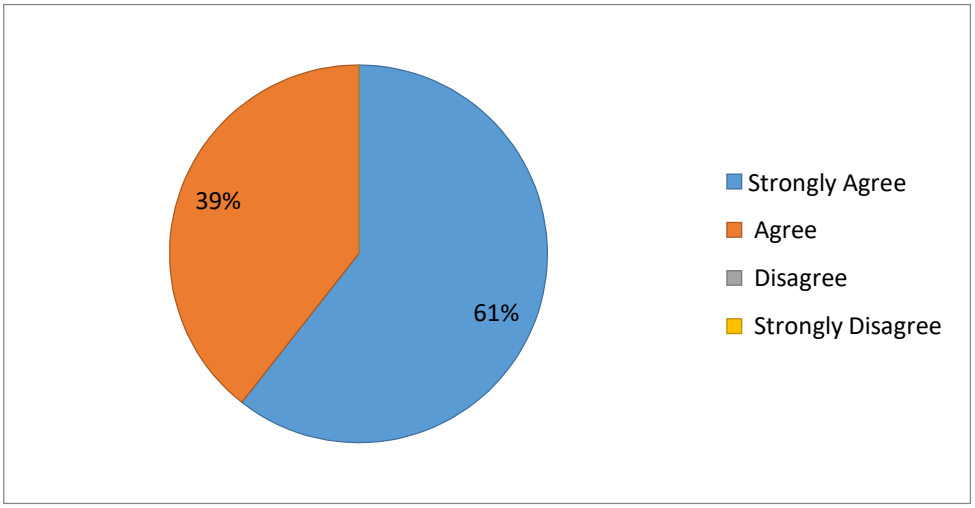
The add on course was well organized



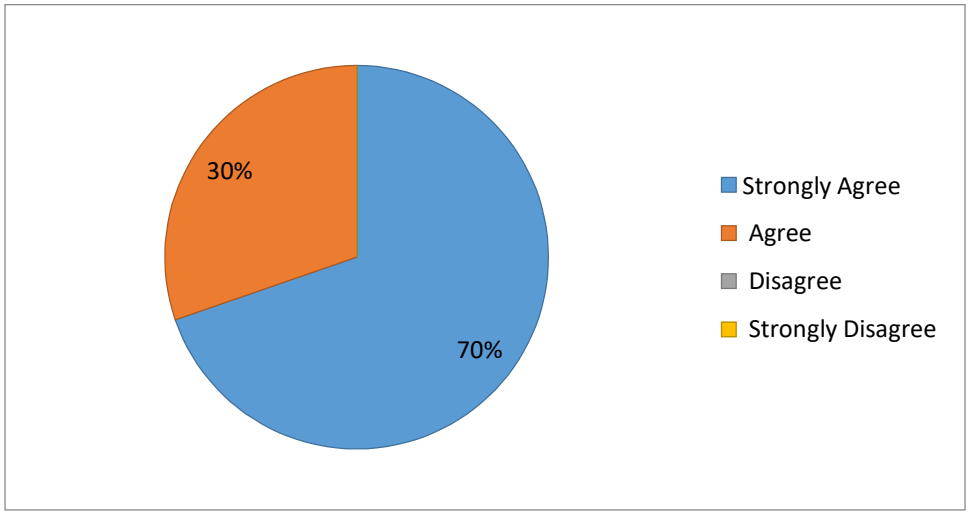
The add on course explained various types of wastes and their constituents



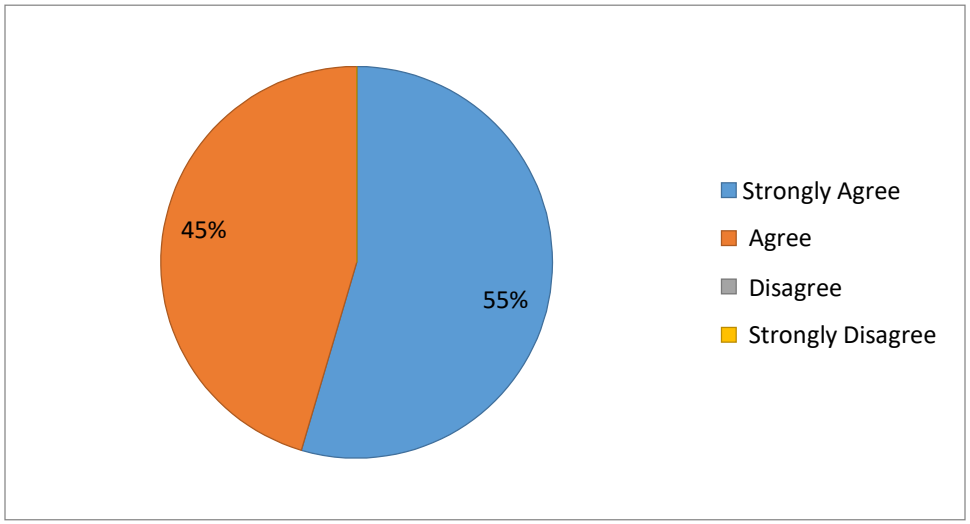
The add on course enabled you to understand how to treat and dispose liquid and solid waste



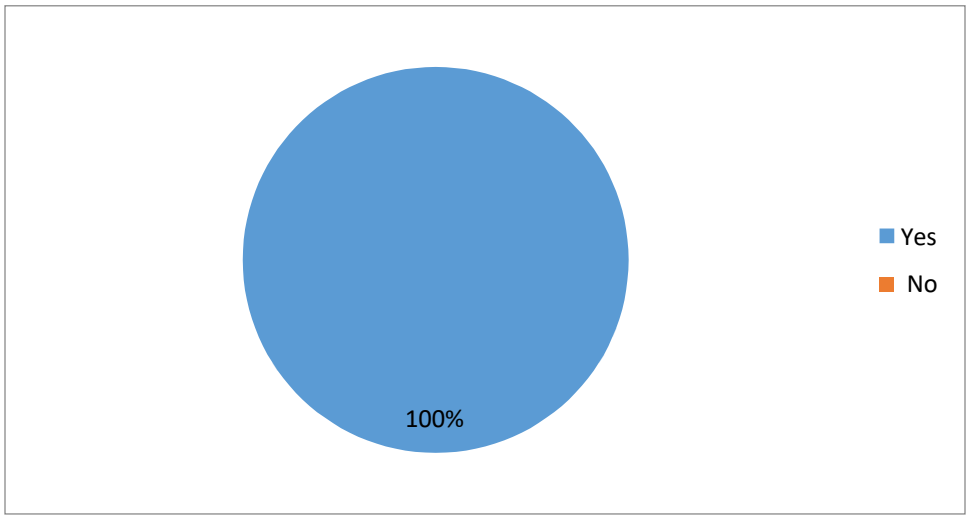
The add on course demonstrated the steps involved in treating liquid waste



The add on course gave insights into comparison of solid and liquid waste



You are interested in further sessions relating to this topic



Course Coordinator

HOD

Principal

3D Printing and Design

Course Summary

Add-on course on 3D Printing and Design was conducted for 30 hours from conducted from 23rd November to 27th November 2021 in offline mode. Sixty-Nine students had enrolled for the course and Sixty-Nine students completed the course after meeting the requirements for course completion.

Assessment Criteria:

Two assignments of 15 marks each

Final Assessment exam -50 marks, passed with a minimum of 20 marks

Viva-20 marks

Certificates will be awarded to students who completed the course with a minimum of 40 marks (total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate.

3D printing and design course (23/11/21-27/11/21)

3D printing and design course (23/11/21-27/11/21)

Dr. Parvathy M	Ms. Anandhi V	Dr.Praveensal C J
Course Coordinator	HOD	Principal

Feedback

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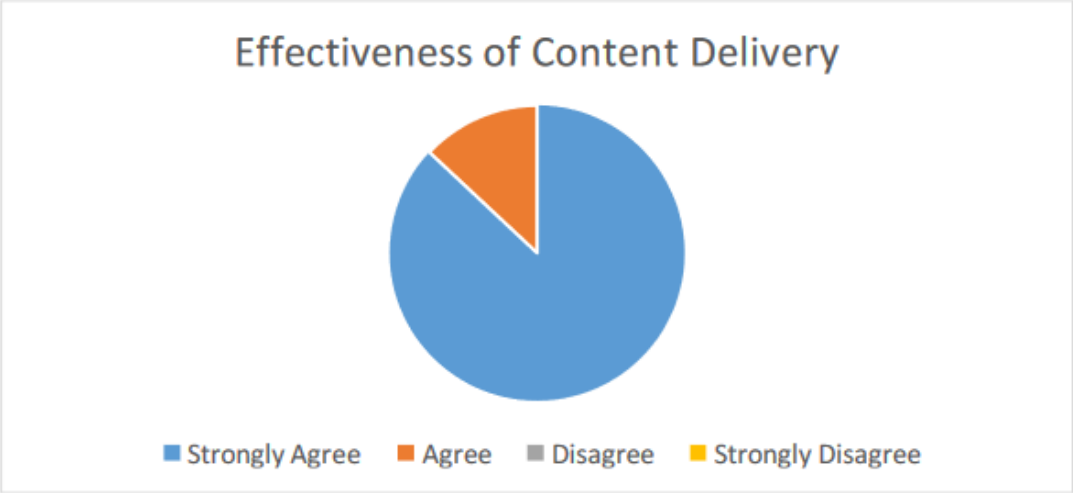
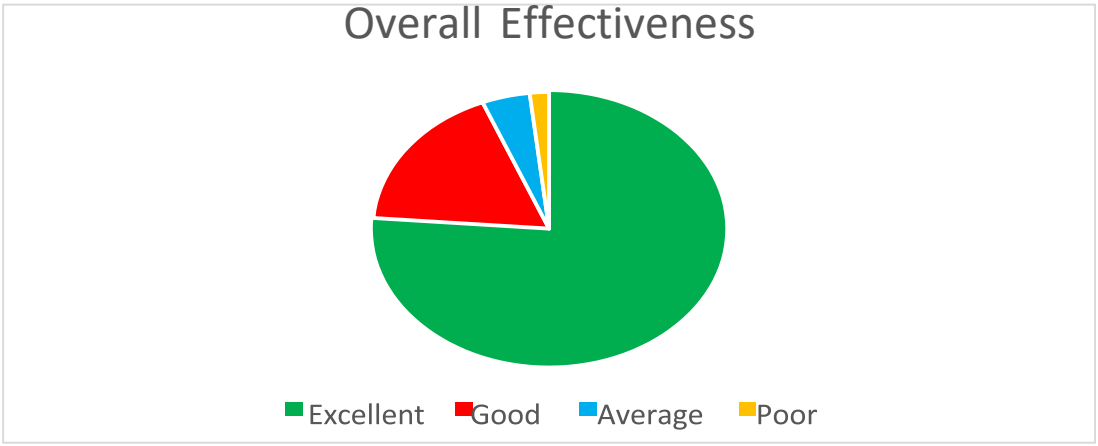
1. Feedback on Content delivery



2. Feedback on Knowledge of Resource Person

3. Feedback on Effectiveness of Hands on Session

4. Overall Feedback



Dr. Parvathy M	Ms. Anandhi V	Dr.Praveensal C J
Course Coordinator	HOD	Principal

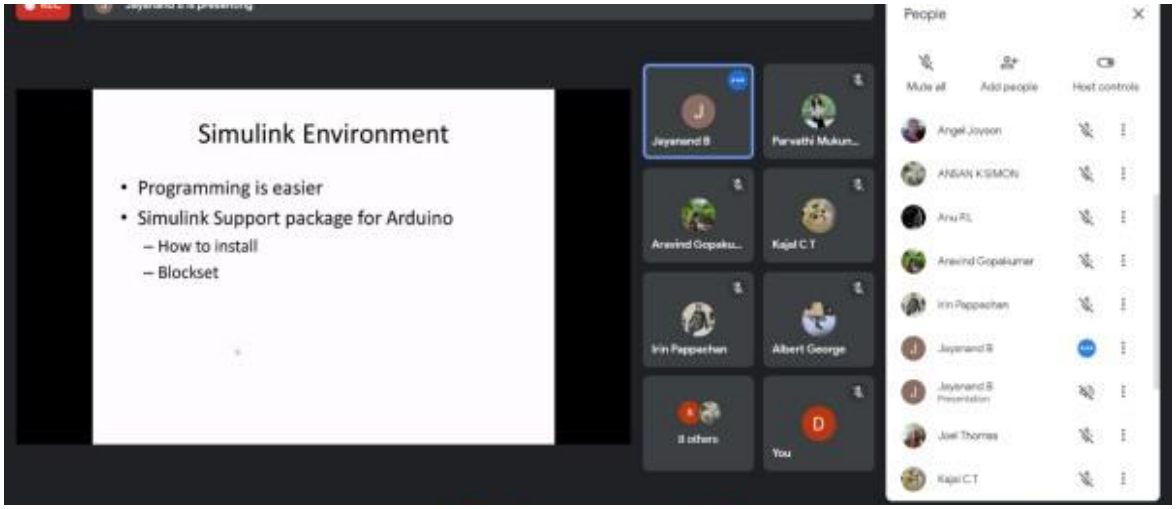
Arduino Programming Using MATLAB/Simulink

Course Summary

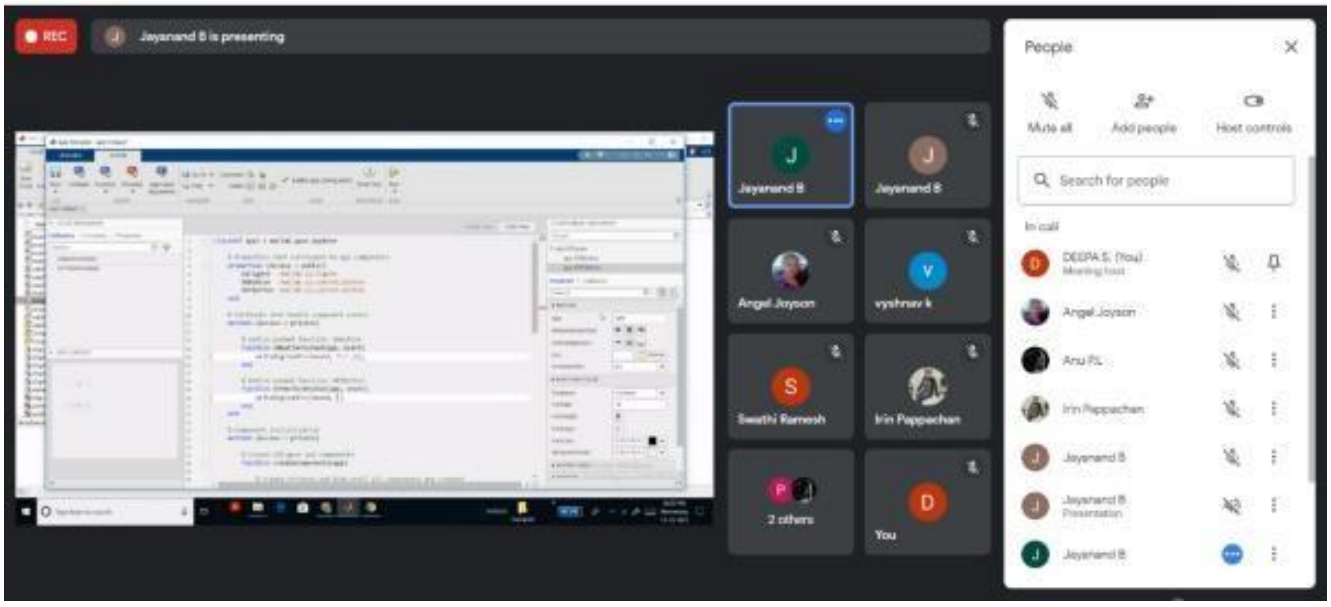
Add-on course on Arduino Programming Using MATLAB/Simulink was conducted for 30 hours from conducted from 4/10/2021-8/10/2021 in online mode. Thirty Six students had enrolled for the course and Thirty Six students completed the course after meeting the requirements for course completion. This session is arranged and co-ordinated by Ms. Deepa.S, Associate Professor, EEE Department. He discussed about the current trends and challenges in the field Arduino programming. He also talked about the different tools that can be used for Arduino programming, after which the students were given the opportunity to share their views and clear their doubts about Arduino while doing projects. The feedback of the sessions received by the participants was excellent.

Assessment Criteria:

Two assignments of 15 marks each
Final Assessment exam -50 marks, passed with a minimum of 20 marks
Viva-20 marks
Certificates will be awarded to students who completed the course with a minimum of 40 marks (total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate.



Screenshot of the add on course on Arduino programming using Matlab/Simulink (4/10/21-8/10/21)



Screenshot of the add on course on Arduino programming using Matlab/Simulink (4/10/21-8/10/21)

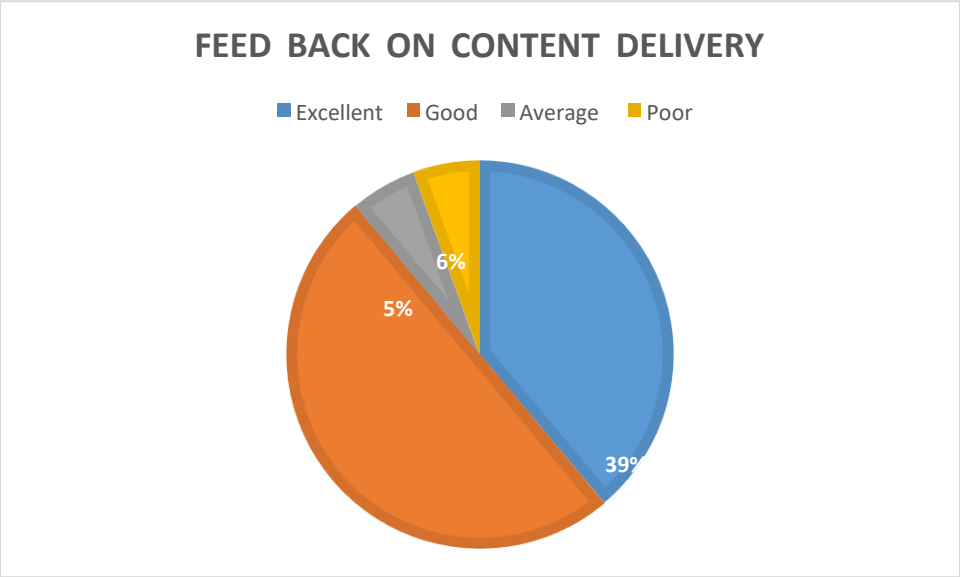
Course Coordinator

HOD

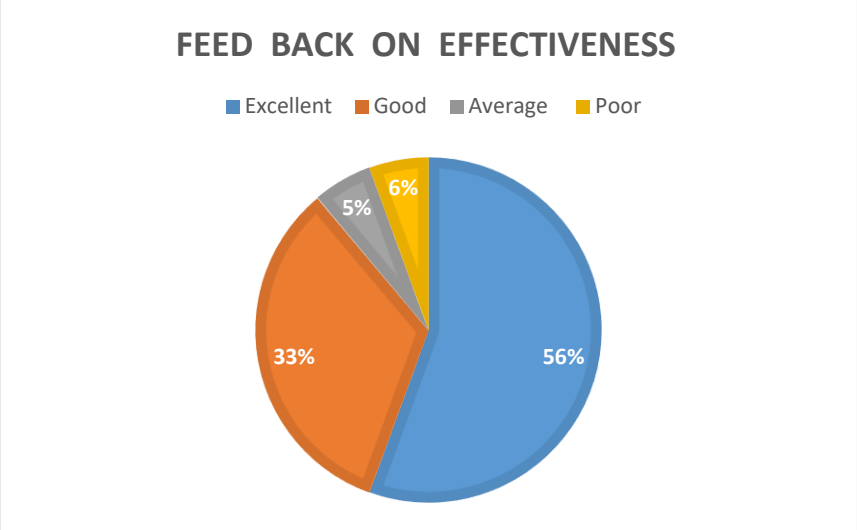
Principal

Feedback

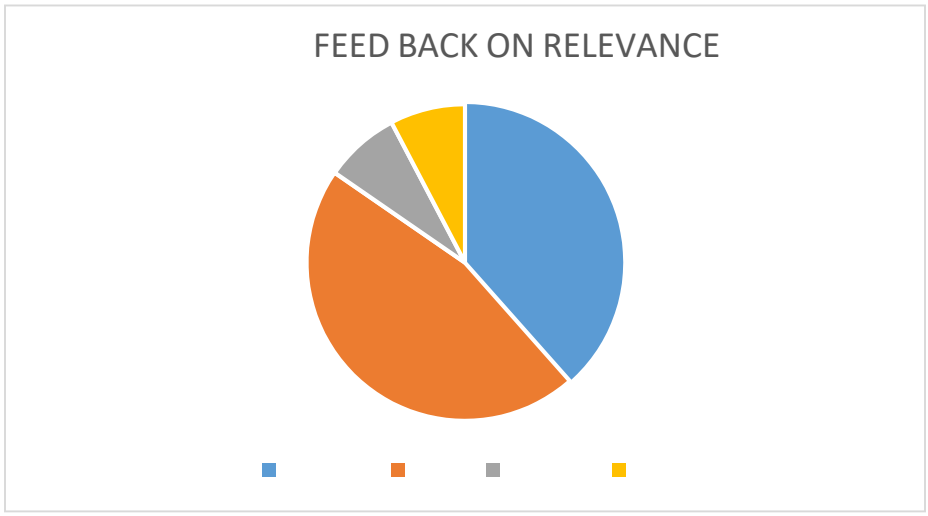
1. Feedback on Content delivery



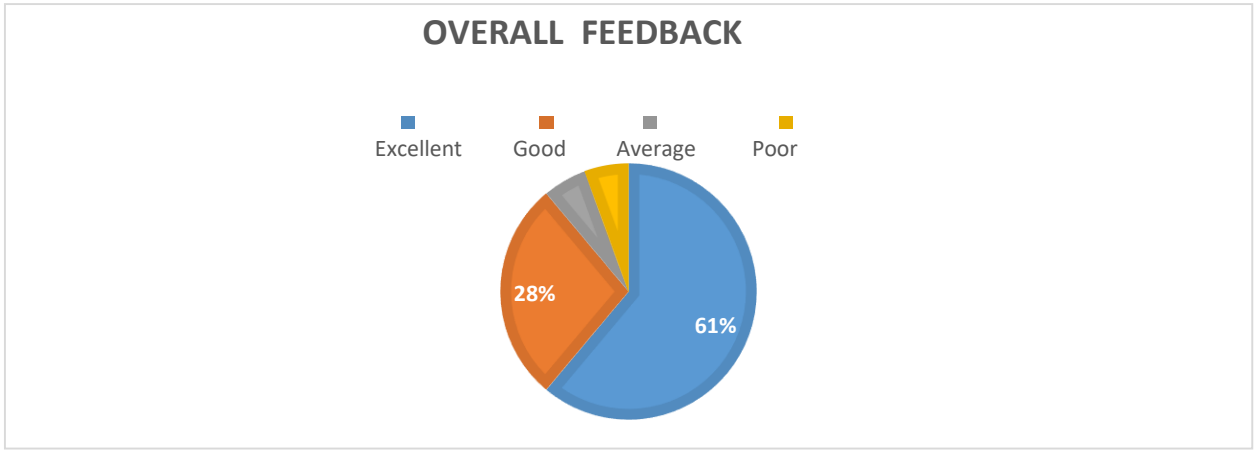
2. Feedback on Effectiveness



3. Feedback on Relevance



4. Overall Feedback



Course Coordinator

HOD

Principal

ADD ON COURSE ON CYBERSECURITY ESSENTIALS (30 hours)

Course Summary

Add-on course on Cybersecurity essentials was conducted for 30 hours from conducted from 9th September 2021 to 12th September and 18th 2021 in online mode. 244 students had enrolled for the course and 244 students completed the course after meeting the requirements for course completion. This add on course mainly focused on placement training. For that more practice questions in Cybersecurity based on placement are discussed in the course. This interactive session ignited the inquisitiveness of participants and the informative course culminated with a vote of thanks from the resource persons and feedback from the participants.

Assessment Criteria:

Two assignments of 15 marks each

Final Assessment exam -50 marks, passed with a minimum of 20 marks

Viva-20 marks

Certificates will be awarded to students who completed the course with a minimum of 40 marks

(total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate.

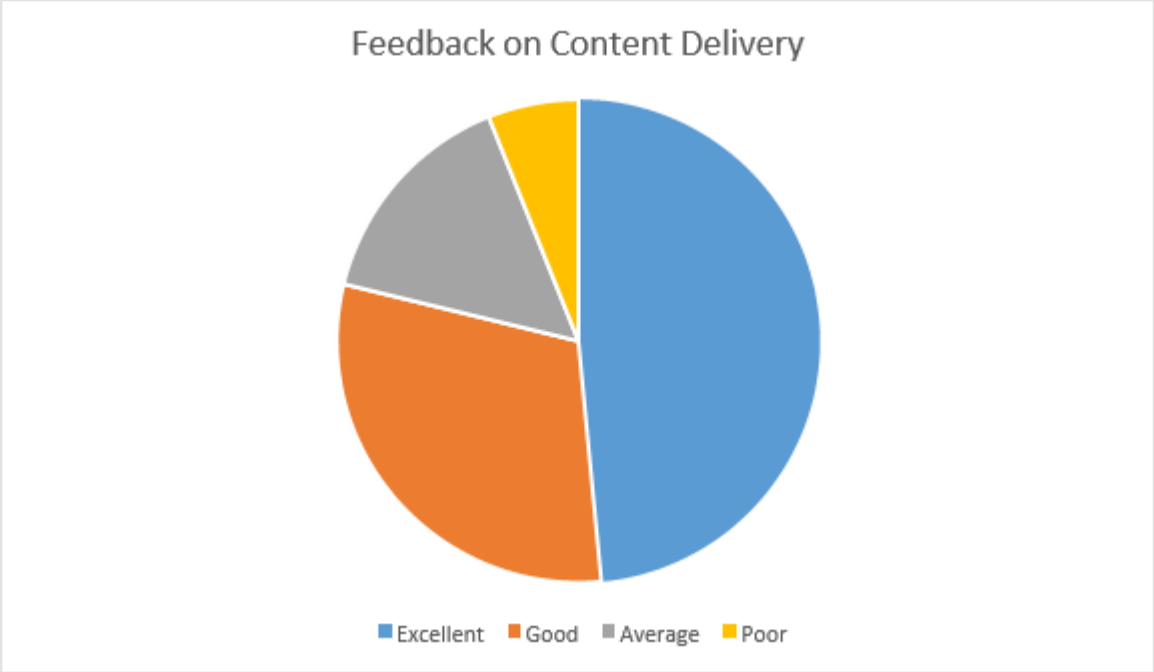
Screen shot of Add on course on

Cybersecurity Essentials (9/9/21-18/9/21)

Course Coordinator HOD Principal

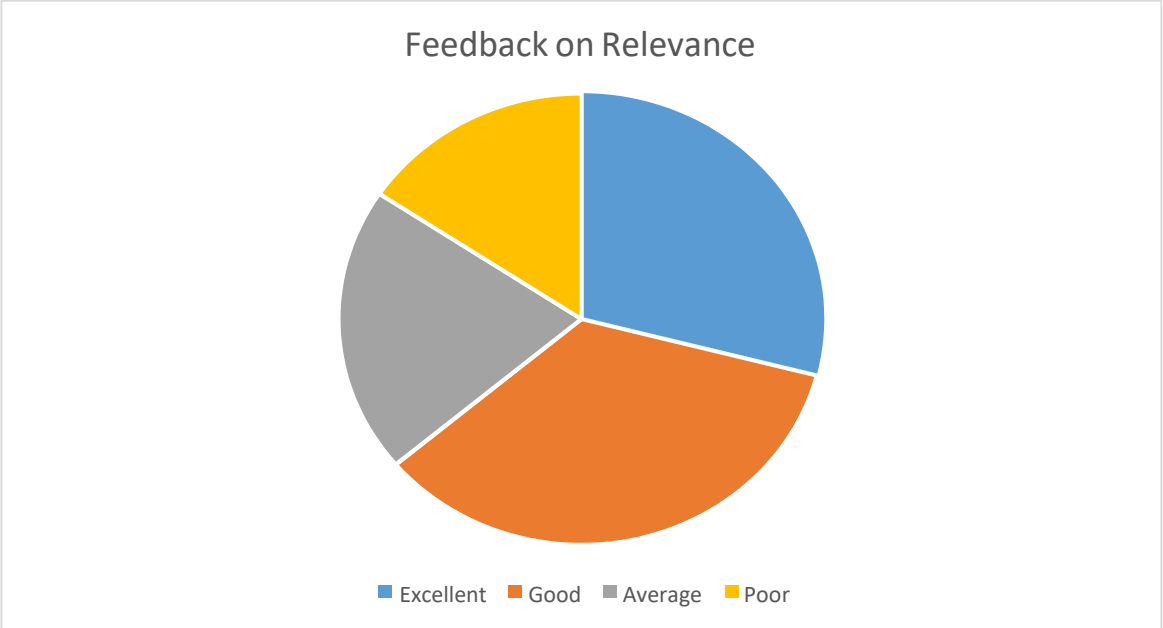
Feedback

1. Feedback on Content delivery

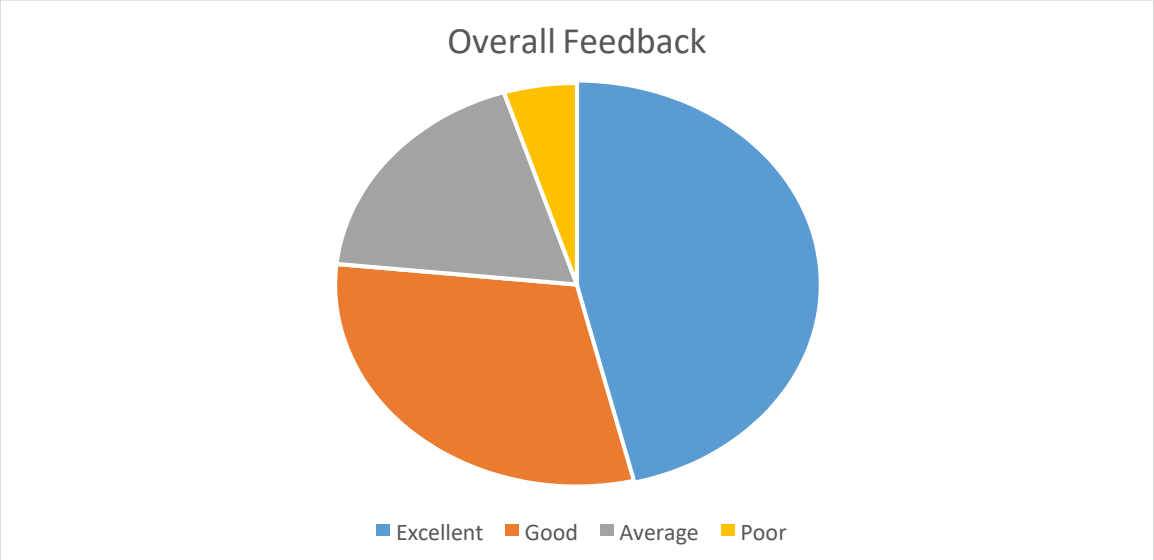


2. Feedback on Effectiveness

3. Feedback on Relevance



4. Overall Feedback



Course Coordinator HOD Principal

Course Summary

Microsoft AI : 5 days' ADD ON COURSE (30 hours)

Summary

This add on course mainly focused on Microsoft AI. Various topics in AI were discussed with examples. 314 students registered for the course and 314 students completed the course after meeting the requirements for course completion. This interactive session ignited the inquisitiveness of participants and the informative course culminated with a vote of thanks from the resource persons and feedback from the participants.

Assessment Criteria:

Two assignments of 15 marks each
Final Assessment exam -50 marks, passed with a minimum of 20 marks
Viva-20 marks
Certificates will be awarded to students who completed the course with a minimum of 40 marks (total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate.

Google meet screen on online session: Microsoft AI

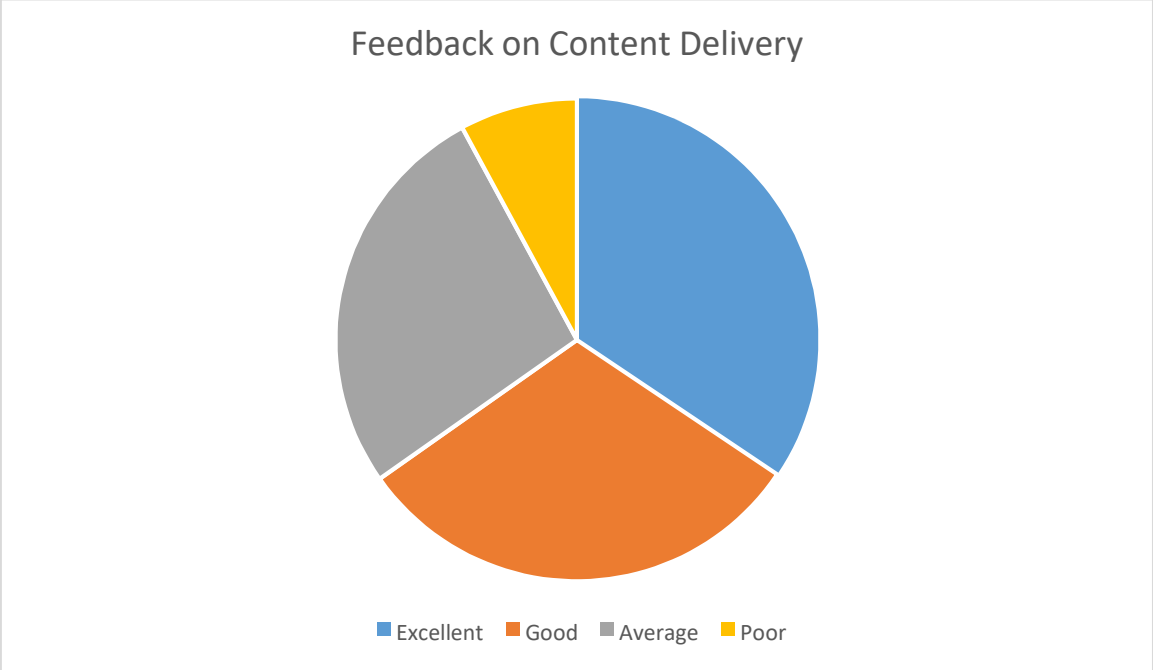
susmi

Course Coordinator | HOD | Principal

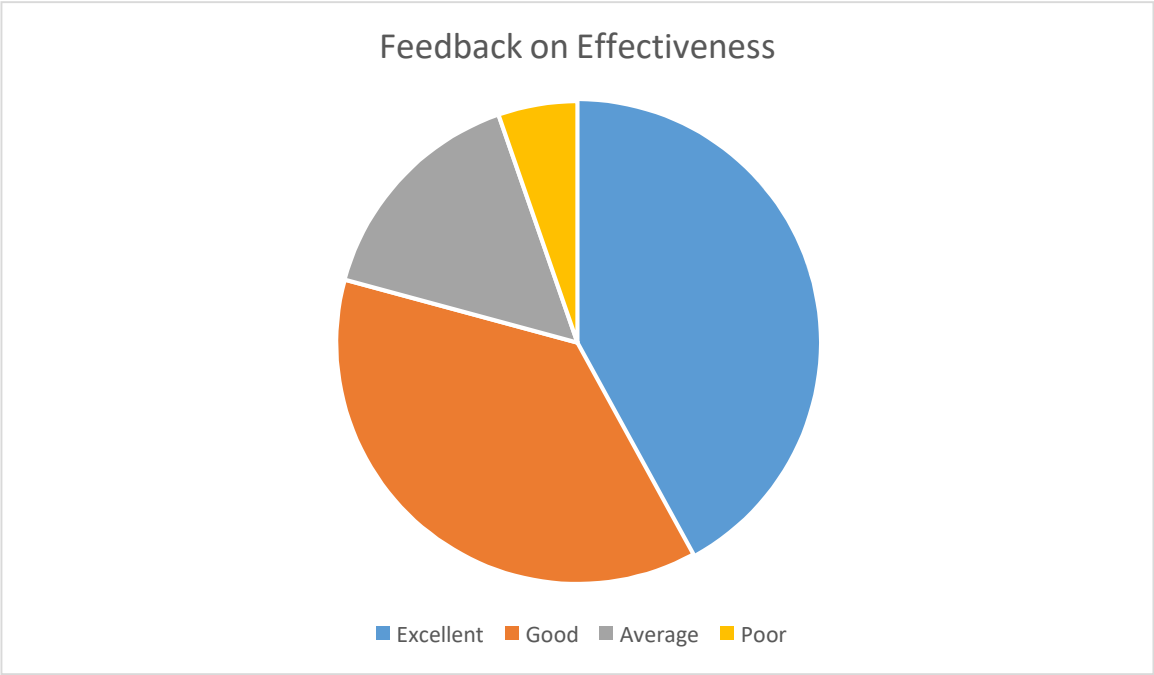
Microsoft AI: 5 days' ADD ON COURSE (30 hours)

Feedback

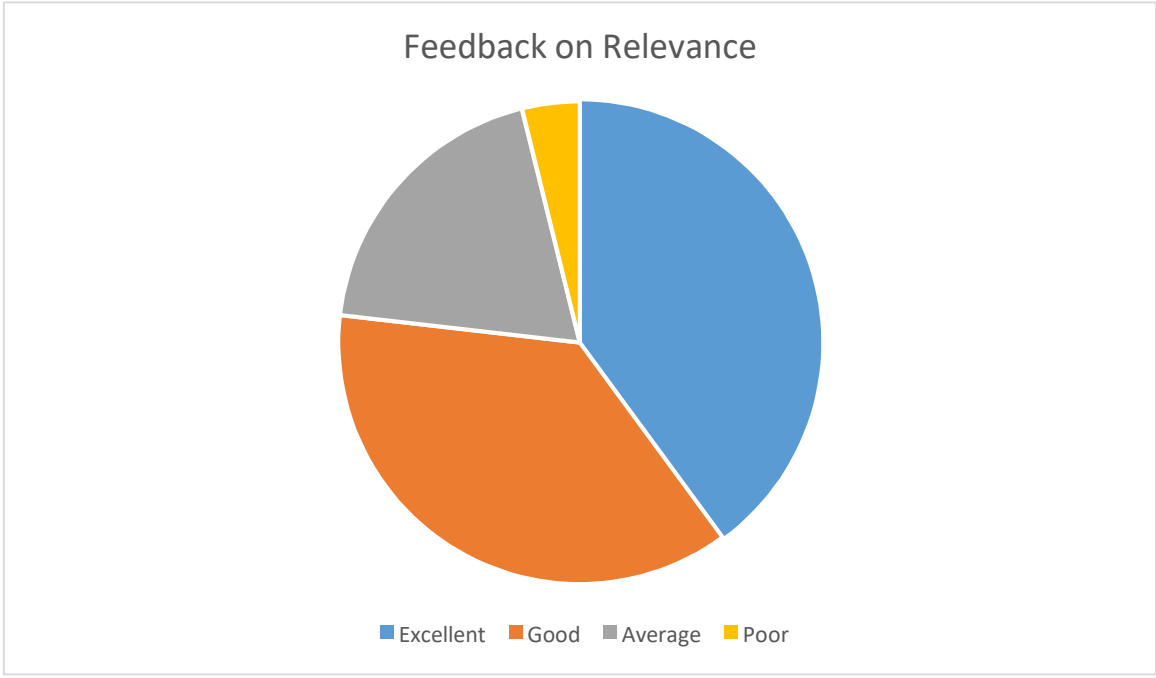
1. Feedback on Content delivery



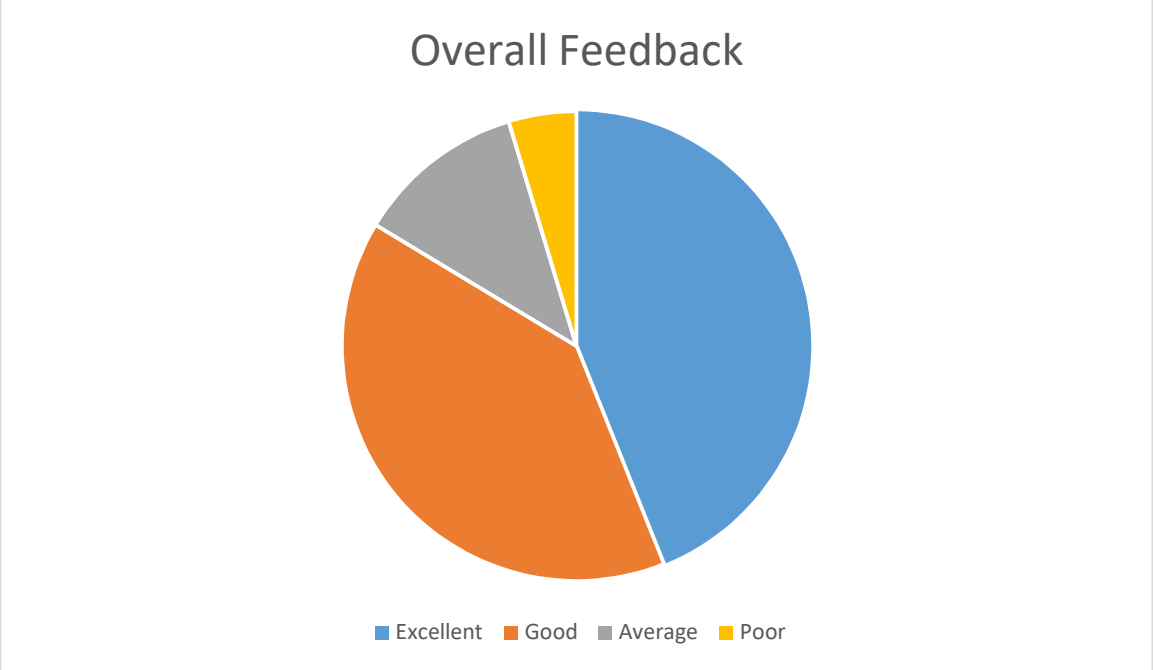
2. Feedback on Effectiveness



3. Feedback on Relevance



4. Overall Feedback



Course Coordinator

HOD

Principal

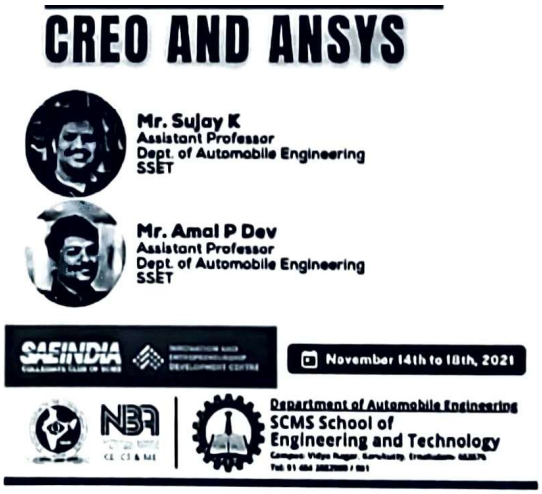
Course Summary

ADD ON COURSE ON CREO & ANSYS

30 HOURS

The Department of Automobile Engineering conducted add on course on CREO & ANSYS from 14th Nov 2021 to 18th Nov 2021. The objective of the course was to create basic awareness anout ANSYS and CREO. 74 students enrolled and 74 students completed the course.

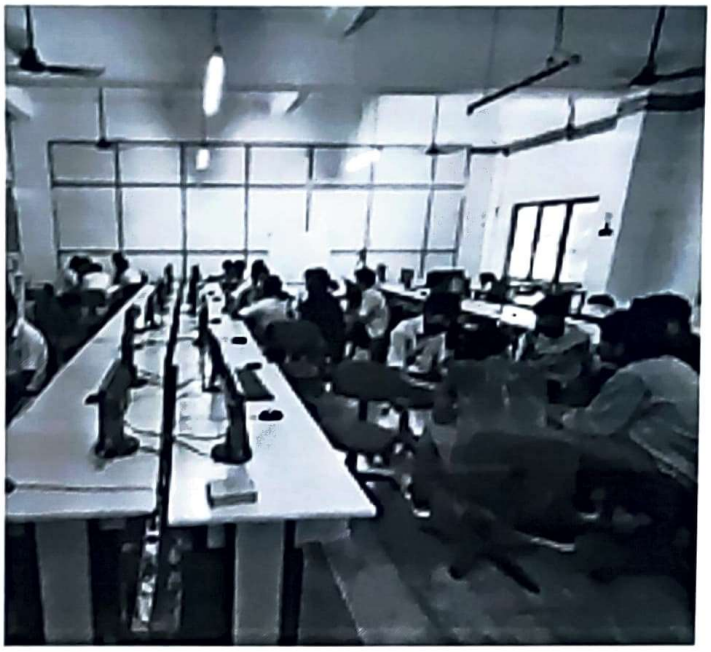
Sujay K, Assistant Professor, Department of Automobile Engineering, SCMS School of Engineering and Technology, Ernakulam and Mr. Amal P Dev, Assistant Professor, Department of Automobile Engineering, SCMS School of Engineering and Technology, Ernakulam.



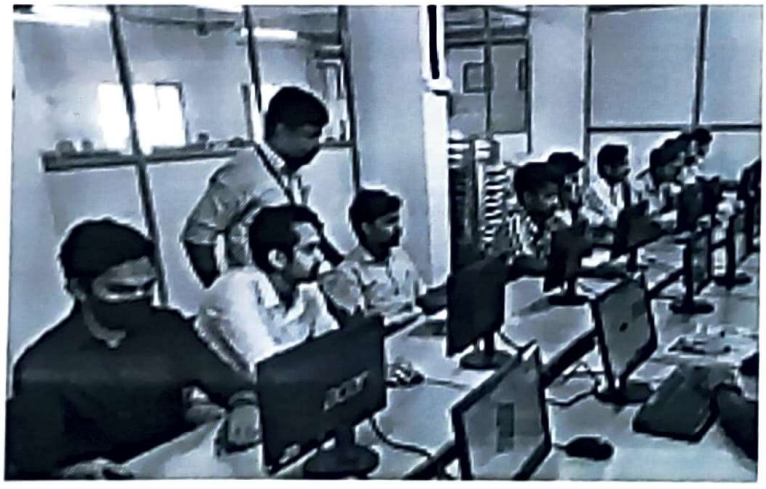
In this session, the drawings were peer reviewed and some drawings have been selected for display.

74 students had enrolled for the course and 74 students completed the course after meeting the requirements for course completion.

Assessment criteria
Two assignments of 15 marks each
Final Assessment exam -50 marks, passed with a minimum of 20 marks
Viva-20 marks
Certificates will be awarded to students who completed the course with a minimum of 40 marks
(total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate.



Add on course on Ansys and Creo(14/11/21-18/11/21)



Add on course on Ansys and Creo (14/11/21-18/11/21)

Course Coordinator

HOD

Principal

ANSYS AND CREO

Mr. Sujay K
Assistant Professor
Dept. of Automobile Engineering
SSET

Mr. Amal P Dev
Assistant Professor
Dept. of Automobile Engineering
SSET

SAEINDIA COLLEGIATE CLUB OF SCMS

INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT CENTRE

November 14th to 18th, 2021

NAAC

NBA NATIONAL BOARD OF ACCREDITATION CE, CS & ME

Department of Automobile Engineering
SCMS School of Engineering and Technology
Campus: Vidya Nagar, Karukutty, Ernakulam- 683576
Tel: 91 484 2882900 / 901

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM

DEPARTMENT OF AUTOMOBILE ENGINEERING

FEEDBACK FORM

EVENT – ADD-ON COURSE

DATE – 14/11/21 – 18/11/21

NAME OF STUDENT Akshai K Suresh

DEPARTMENT Automobile

SEMESTER S8 BATCH 2020-2024

TOPIC- Creo and ANSYS

1. The instructors were knowledgeable, organized and effective in his/her presentation.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
2. The information provided was new to me.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
3. The speaker provided information useful for my career development.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
4. The course included use of modern design software.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
5. Participation and interaction of the students were encouraged during the session.
   ☐ Agree ☐ Disagree ☑ Neither agree or disagree
6. The course promoted the students to engage in life-long learning in the context of technological changes in current industries.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
7. The course helped the students to function effectively as an individual in a team environment.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
8. The course covered contents encouraging innovations and technologies for the benefit of the society and environment.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree

9. The instructor provided a platform to enhance the creativity level of students to innovate and manage new projects.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

10. The course included application of basic engineering knowledge to analyse problems and design components to meet the specific needs of society.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

11. Comment on the overall exposure gained from the course.

It was a very informative session

I was able to understand the instructions and concepts very clearly.

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM

DEPARTMENT OF AUTOMOBILE ENGINEERING

FEEDBACK FORM

EVENT – ADD-ON COURSE

DATE – 14/11/21 – 18/11/21

NAME OF STUDENT Gautam gopal

DEPARTMENT Automobile

SEMESTER S3 BATCH 2020–2024

TOPIC- Hands-on training on Creo and ANSYS

1. The instructors were knowledgeable, organized and effective in his/her presentation.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
2. The information provided was new to me.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
3. The speaker provided information useful for my career development.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
4. The course included use of modern design software.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
5. Participation and interaction of the students were encouraged during the session.
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7. The course helped the students to function effectively as an individual in a team environment.
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8. The course covered contents encouraging innovations and technologies for the benefit of the society and environment.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree

9. The instructor provided a platform to enhance the creativity level of students to innovate and manage new projects.

☐ Agree ☐ Disagree ☑ Neither agree or disagree

10. The course included application of basic engineering knowledge to analyse problems and design components to meet the specific needs of society.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

11. Comment on the overall exposure gained from the course.

It was a wonderful session with a very good instructor who helped me with my doubts and queuries.

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM

DEPARTMENT OF AUTOMOBILE ENGINEERING

FEEDBACK FORM

EVENT – ADD-ON COURSE

DATE – 14/11/21 – 18/11/21

NAME OF STUDENT Melvin C Joshy

DEPARTMENT Automobile

SEMESTER S3 BATCH 2020-2024

TOPIC- Hands-on training on Creo and ANSYS

1. The instructors were knowledgeable, organized and effective in his/her presentation.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
2. The information provided was new to me.
   ☐ Agree ☐ Disagree ☑ Neither agree or disagree
3. The speaker provided information useful for my career development.
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8. The course covered contents encouraging innovations and technologies for the benefit of the society and environment.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree

9. The instructor provided a platform to enhance the creativity level of students to innovate and manage new projects.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

10. The course included application of basic engineering knowledge to analyse problems and design components to meet the specific needs of society.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

11. Comment on the overall exposure gained from the course.

This session has definetly helped me improve my skills in these softwares.

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM

DEPARTMENT OF AUTOMOBILE ENGINEERING

FEEDBACK FORM

EVENT – ADD-ON COURSE

DATE – 14/11/21 – 18/11/21

NAME OF STUDENT Binil AK

DEPARTMENT Automobile

SEMESTER V BATCH 2019-2023

TOPIC- Hands-on training on Creo and ANSYS

1. The instructors were knowledgeable, organized and effective in his/her presentation.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
2. The information provided was new to me.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
3. The speaker provided information useful for my career development.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
4. The course included use of modern design software.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
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   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
7. The course helped the students to function effectively as an individual in a team environment.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
8. The course covered contents encouraging innovations and technologies for the benefit of the society and environment.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree

9. The instructor provided a platform to enhance the creativity level of students to innovate and manage new projects.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

10. The course included application of basic engineering knowledge to analyse problems and design components to meet the specific needs of society.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

11. Comment on the overall exposure gained from the course.

This session has cleared my doubt about the various tools and its operations. The instructor was a very informative and knowledgeable person.

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM

DEPARTMENT OF AUTOMOBILE ENGINEERING

FEEDBACK FORM

EVENT – ADD-ON COURSE

DATE – 14/11/21 – 18/11/21

NAME OF STUDENT Anandu Sajeev

DEPARTMENT Automobile

SEMESTER 5 BATCH 2019-2023

TOPIC- Hands-on training on Creo and ANSYS

1. The instructors were knowledgeable, organized and effective in his/her presentation.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
2. The information provided was new to me.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
3. The speaker provided information useful for my career development.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
4. The course included use of modern design software.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
5. Participation and interaction of the students were encouraged during the session.
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6. The course promoted the students to engage in life-long learning in the context of technological changes in current industries.
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9. The instructor provided a platform to enhance the creativity level of students to innovate and manage new projects.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

10. The course included application of basic engineering knowledge to analyse problems and design components to meet the specific needs of society.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

11. Comment on the overall exposure gained from the course.

It was a very wonderful session with a lot of great information being shared. This training session has definetly boosted my confidence.

Course Summary

Value Added Course on

Personality Development for Engineers

Summary (30 hrs)

Value added course was organized by Basic Sciences and Humanities department and Placement cell on 1/6/21, 10/9/21, 15/9/21, 17/9/21 and 22/9/21 and 183 of students successfully completed the course

Assessment pattern

Two assignments of 15 marks each
Final Assessment exam -50 marks, passed with a minimum of 20 marks
Viva-20 marks
Certificates will be awarded to students who completed the course with a minimum of 40 marks(total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate

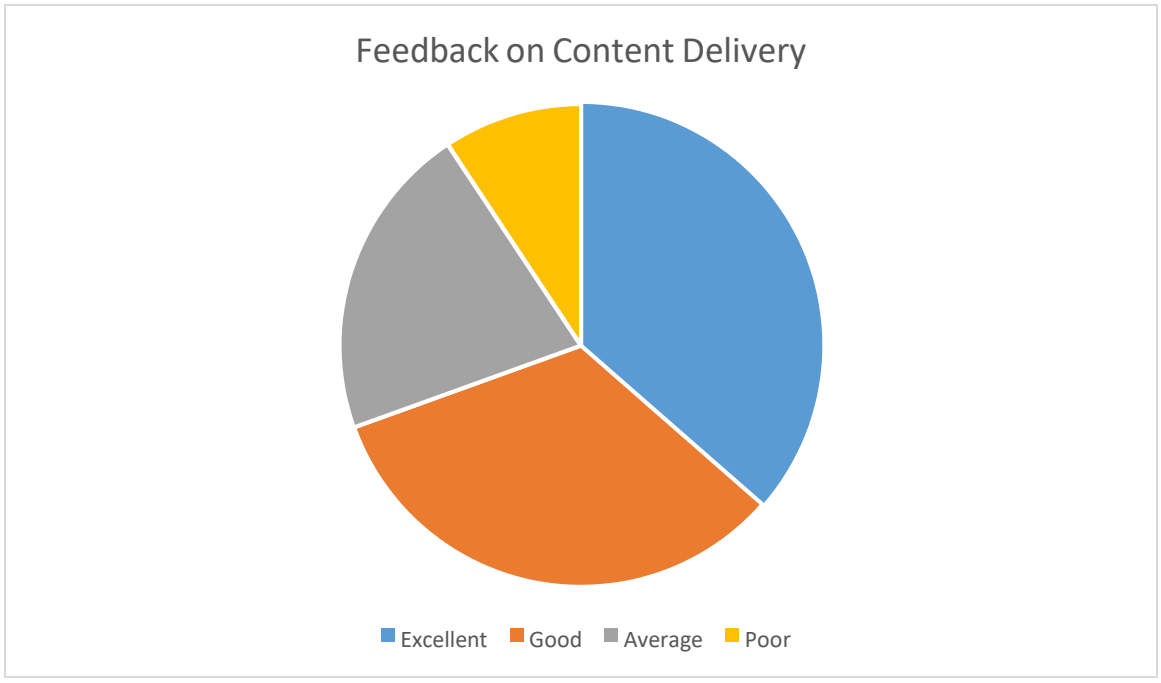
Course Coordinator

HOD

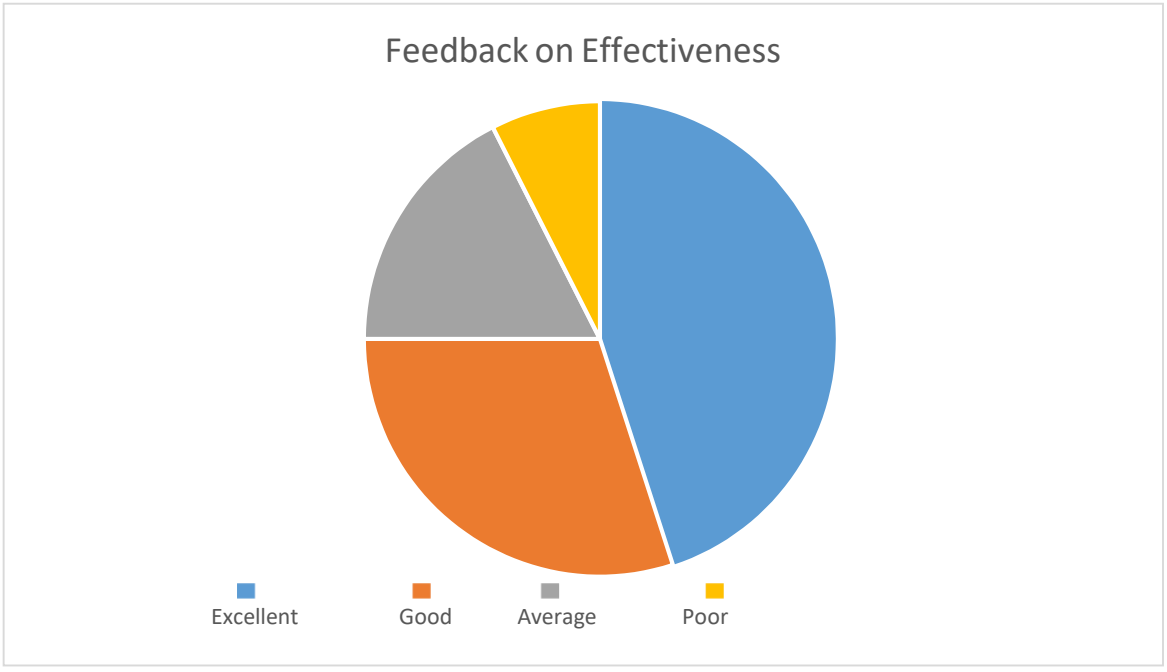
Principal

Feedback

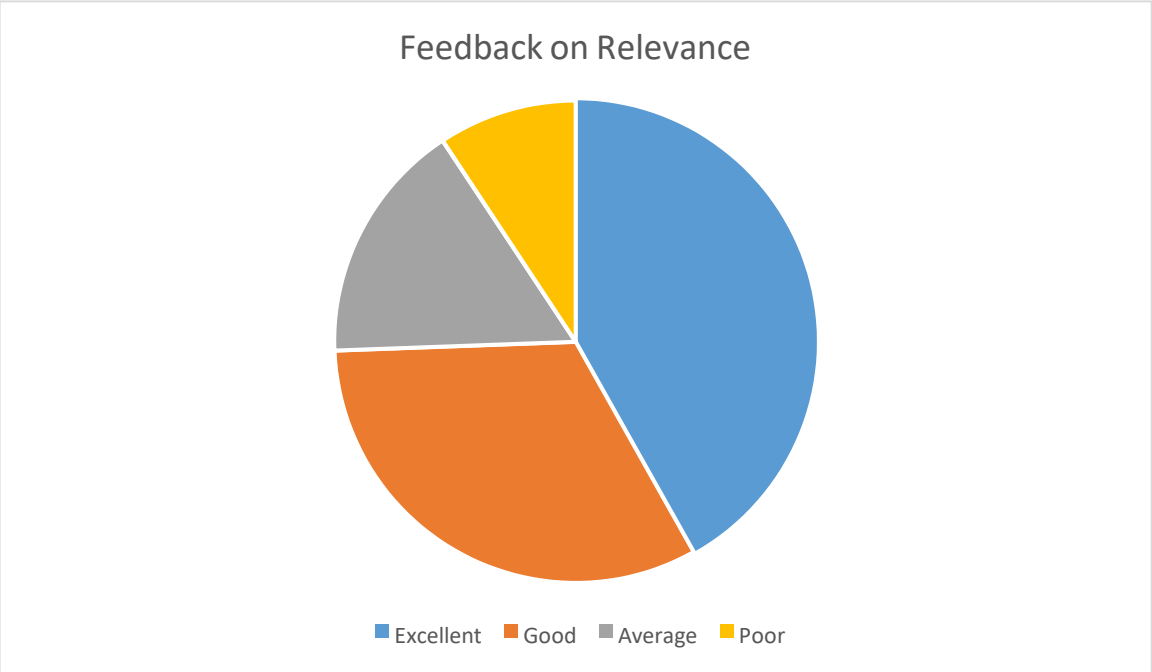
1. Feedback on Content delivery



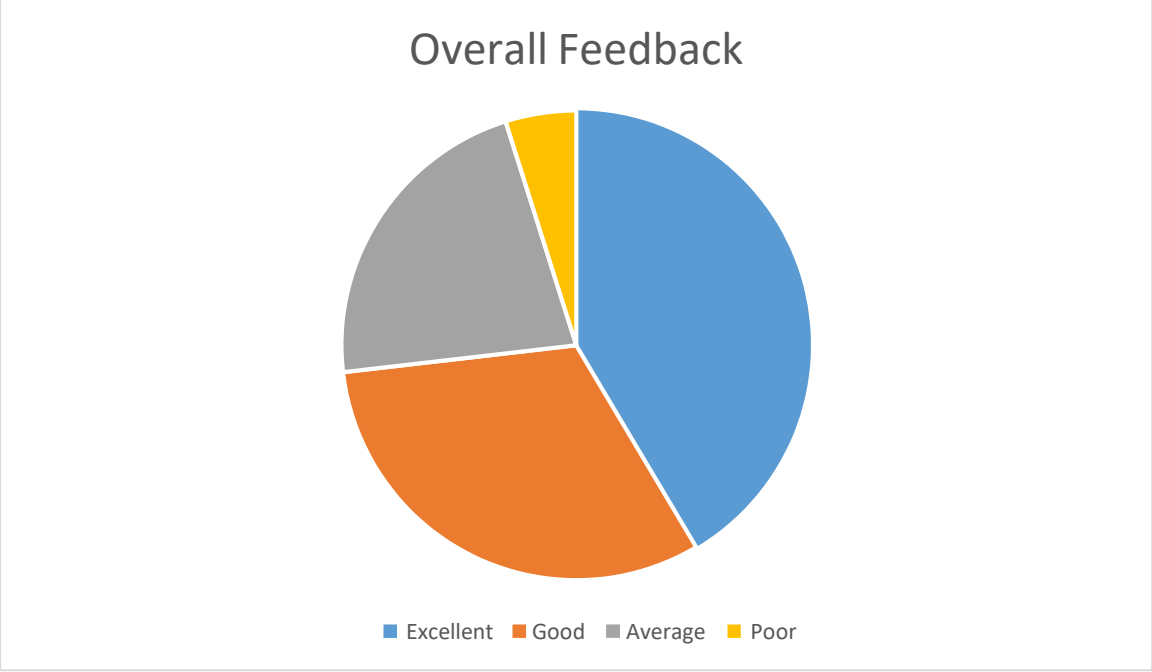
2. Feedback on Effectiveness



3. Feedback on Relevance



4. Overall Feedback



Course Coordinator

HOD

Principal

Course Summary

Internet of things - 5 days' Add on course

Add-on course on Internet of things was conducted for 30 hours from 18/10/2021-22/10/2021 in online mode. 334 students had enrolled for the course and 334 students completed the course after meeting the requirements for course completion. For that advanced topics based on real time examples were discussed in the course. This interactive session ignited the inquisitiveness of participants and the informative course culminated with a vote of thanks from the resource persons and feedback from the participants.

Assessment Pattern

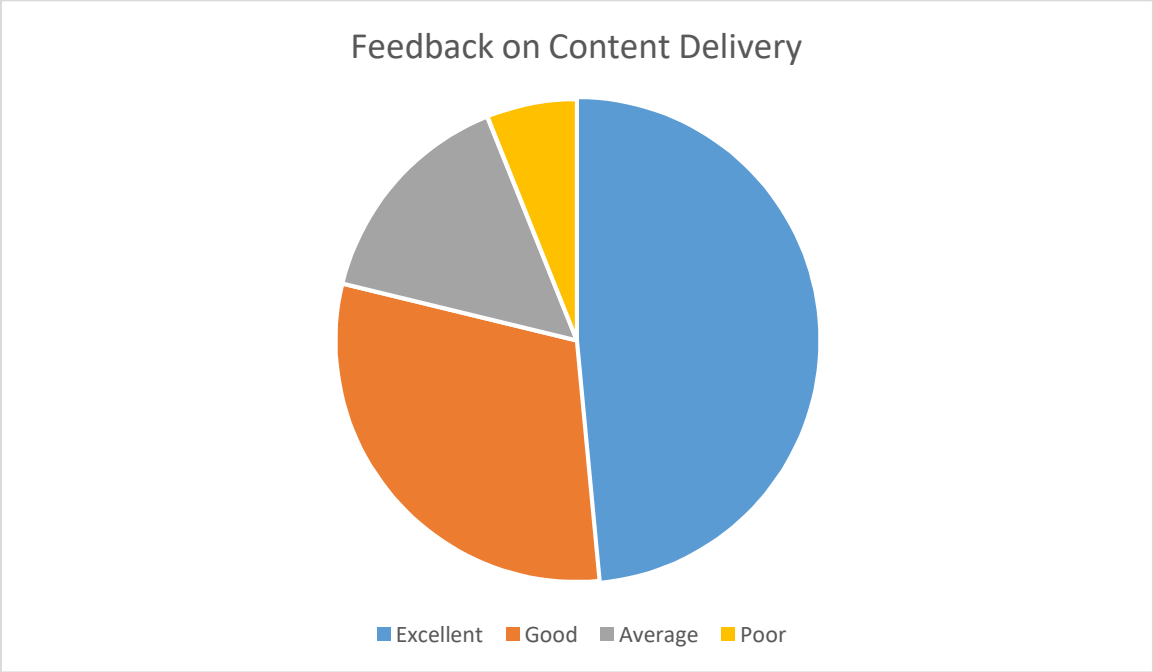
Two assignments of 15 marks each
Final Assessment exam -50 marks, passed with a minimum of 20 marks
Viva-20 marks
Certificates will be awarded to students who completed the course with a minimum of 40 marks
(total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate.

Screenshot of add on course on Internet of Things (30 hours) (18/10/21-22/10/21)

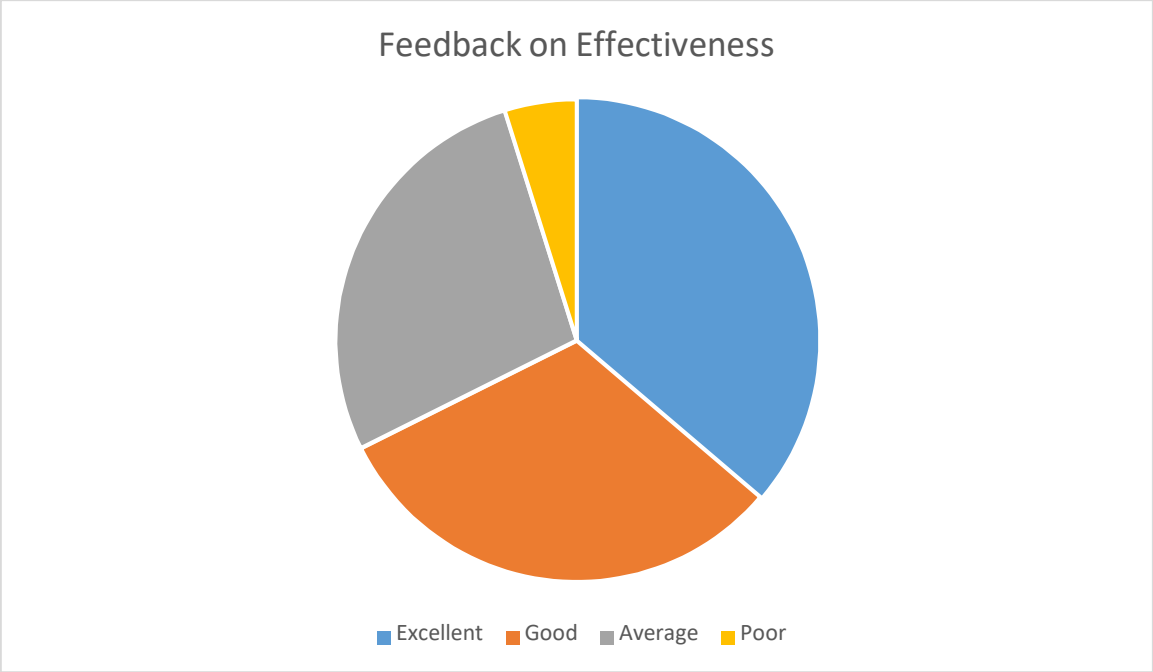
Course Coordinator | HOD | Principal

Feedback

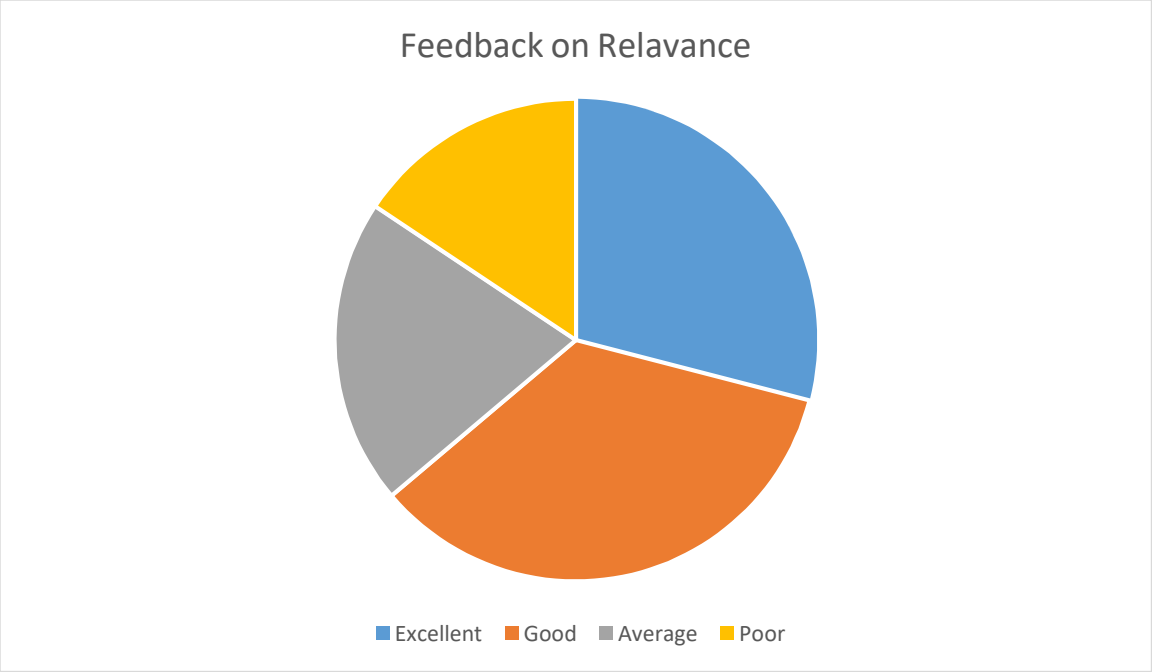
1. Feedback on Content delivery



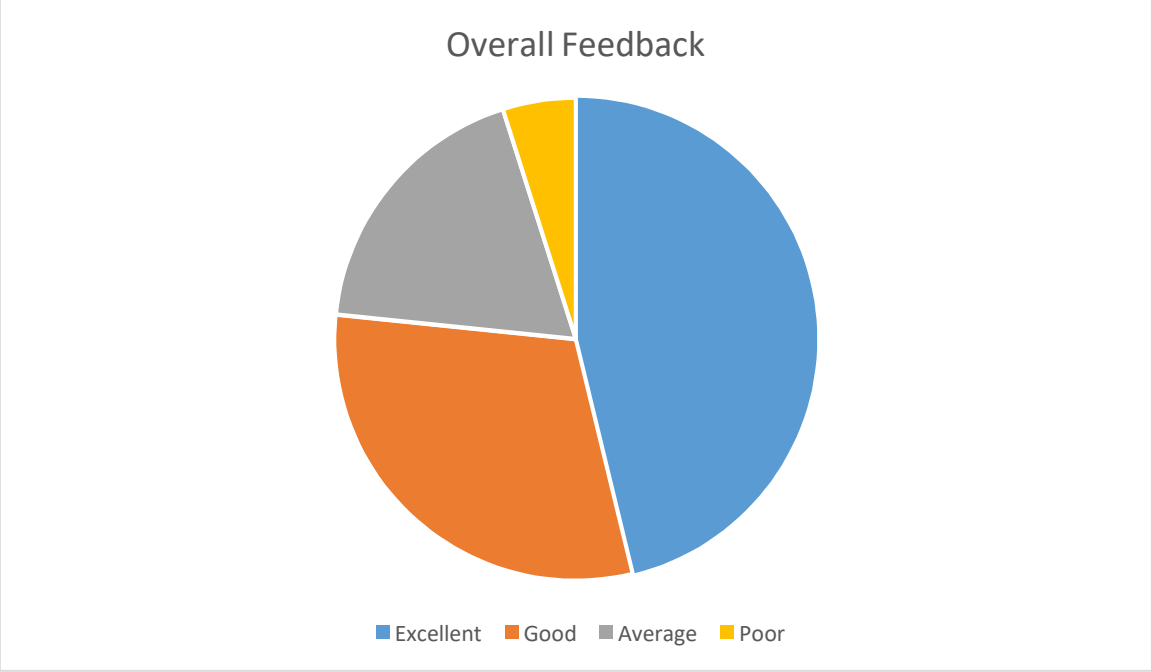
2. Feedback on Effectiveness



3. Feedback on Relevance



4. Overall Feedback



SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY
VIDYA NAGAR, KARUKUTTY, ERNAKULAM

DEPARTMENT OF MECHANICAL ENGINEERING
ADD ON COURSE ON CNC LATHE

FEEDBACK FORM

EVENT – ADD-ON COURSE
DATE – 21/03/22 – 01/03/23 11-04-2022 to 23-04-2022

NAME OF STUDENT Ashwin.T.S
DEPARTMENT Mechanical Engineering BATCH 2019-2023
SEMESTER Six
TOPIC- Hands-on training in CNC Lathe Smartturn

1. The instructors were knowledgeable, organized and effective in his/her presentation.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
2. The information provided was new to me.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
3. The speaker provided information useful for my career development.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
4. The course included use of modern engineering/technology to produce quality products.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
5. Participation and interaction of the students were encouraged during the session.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
6. The course promoted the students to engage in life-long learning in the context of technological changes in current industries.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
7. The course helped the students to function effectively as an individual in a team environment.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
8. The course covered contents encouraging innovations and technologies for the benefit of the society and environment.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree

9. The instructor provided a platform to enhance the creativity level of students to innovate and manage new projects.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

10. The course included application of basic engineering knowledge to analyse problems and design components to meet the specific needs of society.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

11. Comment on the overall exposure gained from the course.

The session was very helpful in identifying the importance of CNC in industrial applications. Looking forward for more sessions like this, if possible provide company certification courses.

Asn.

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM

DEPARTMENT OF MECHANICAL ENGINEERING

FEEDBACK FORM

EVENT – ADD-ON COURSE

DATE – 11-4-22 to 23-4-22

NAME OF STUDENT Shyam Sankar K.R

DEPARTMENT Mechanical Engineering

SEMESTER 6 BATCH 2019-2023

TOPIC- Hands-on training in CNC Lathe Smartturn

1. The instructors were knowledgeable, organized and effective in his/her presentation.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
2. The information provided was new to me.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
3. The speaker provided information useful for my career development.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
4. The course included use of modern engineering/technology to produce quality products.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
5. Participation and interaction of the students were encouraged during the session.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
6. The course promoted the students to engage in life-long learning in the context of technological changes in current industries.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
7. The course helped the students to function effectively as an individual in a team environment.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
8. The course covered contents encouraging innovations and technologies for the benefit of the society and environment.
   ☐ Agree ☐ Disagree ☑ Neither agree or disagree

9. The instructor provided a platform to enhance the creativity level of students to innovate and manage new projects.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

10. The course included application of basic engineering knowledge to analyse problems and design components to meet the specific needs of society.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

11. Comment on the overall exposure gained from the course.

Good session. Need more exercises on programming

5.

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY
VIDYA NAGAR, KARUKUTTY, ERNAKULAM

DEPARTMENT OF MECHANICAL ENGINEERING

FEEDBACK FORM

EVENT – ADD-ON COURSE

DATE – [illegible] 11/4/2022 & 23/4/2022

NAME OF STUDENT VARSHNAN TP

DEPARTMENT MECHANICAL ENGINEERING

SEMESTER 06 BATCH 2019 - 2023

TOPIC- Hands-on training in CNC Lathe Smartturn

1. The instructors were knowledgeable, organized and effective in his/her presentation.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
2. The information provided was new to me.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
3. The speaker provided information useful for my career development.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
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   ☑ Agree ☐ Disagree ☐ Neither agree or disagree

9. The instructor provided a platform to enhance the creativity level of students to innovate and manage new projects.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

10. The course included application of basic engineering knowledge to analyse problems and design components to meet the specific needs of society.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

11. Comment on the overall exposure gained from the course.

good understanding about the technical process and easy session understanding

Course Summary

Essential Concepts in C Programming

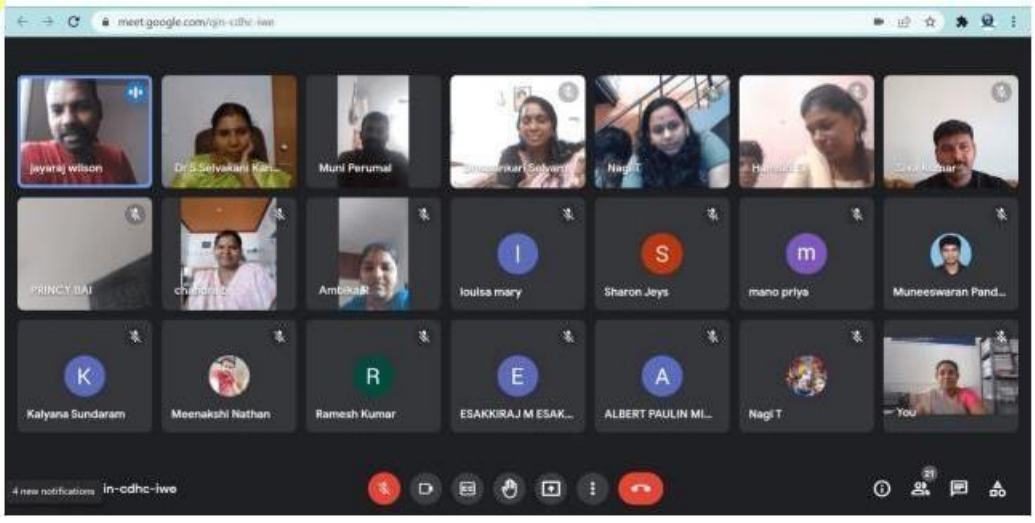
(30 hrs duration)

Summary

This course mainly focused on Essential Concepts in C programming language. Various topics in C Language were discussed with example programs. This interactive session ignited the inquisitiveness of participants andthe informative course culminated with a vote of thanks from the resource persons and feedback from the participants. 314 students enrolled and 314 students completed the course.

Assessment Pattern

Two assignments of 15 marks each
Final Assessment exam -50 marks, passed with a minimum of 20 marks
Viva-20 marks
Certificates will be awarded to students who completed the course with a minimum of 40 marks (total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate.

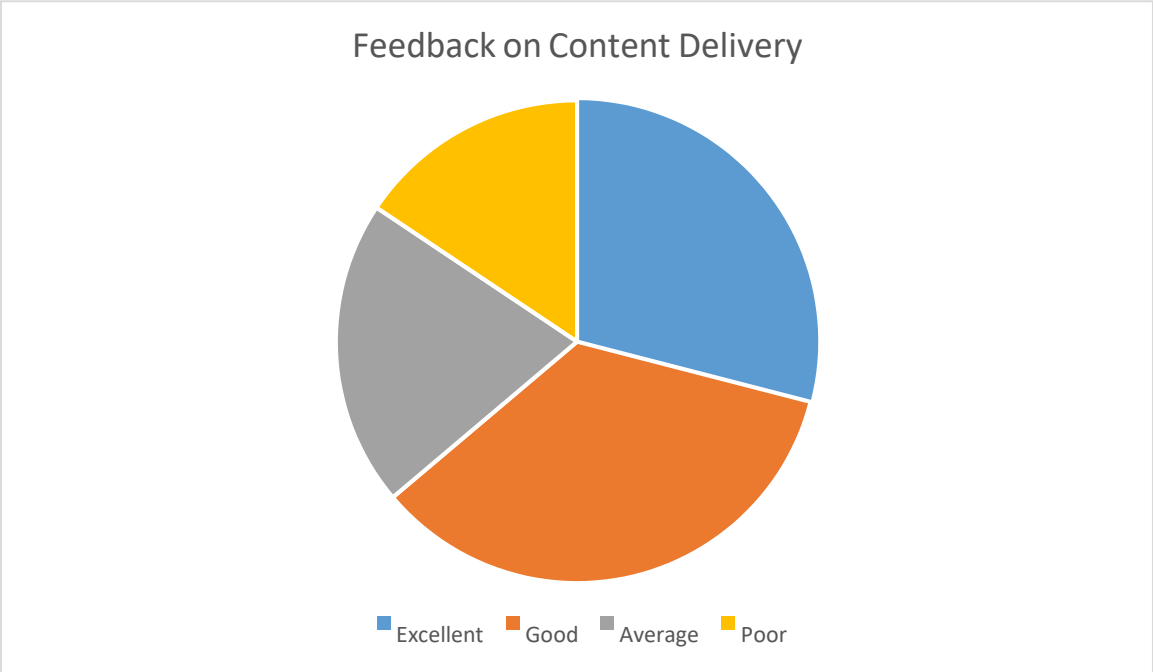


Screenshot of the add on course on Essential Concepts in C Programming (22/6/21-26/6/21)

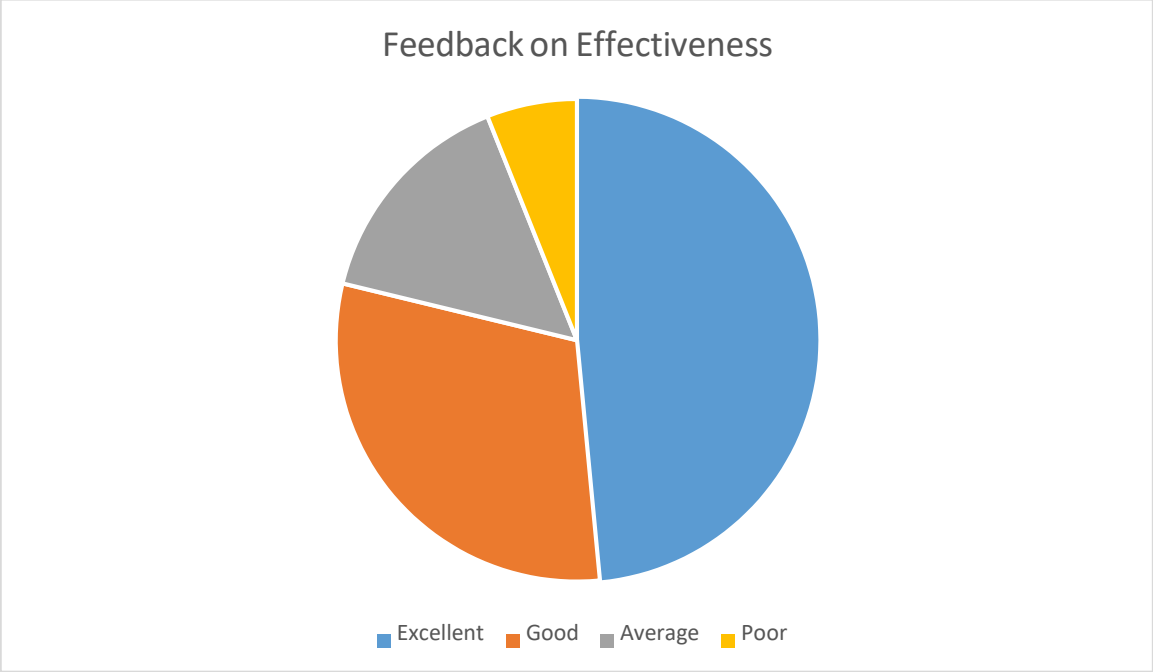
Course Coordinator HOD Principal

Feedback

1. Feedback on Content delivery

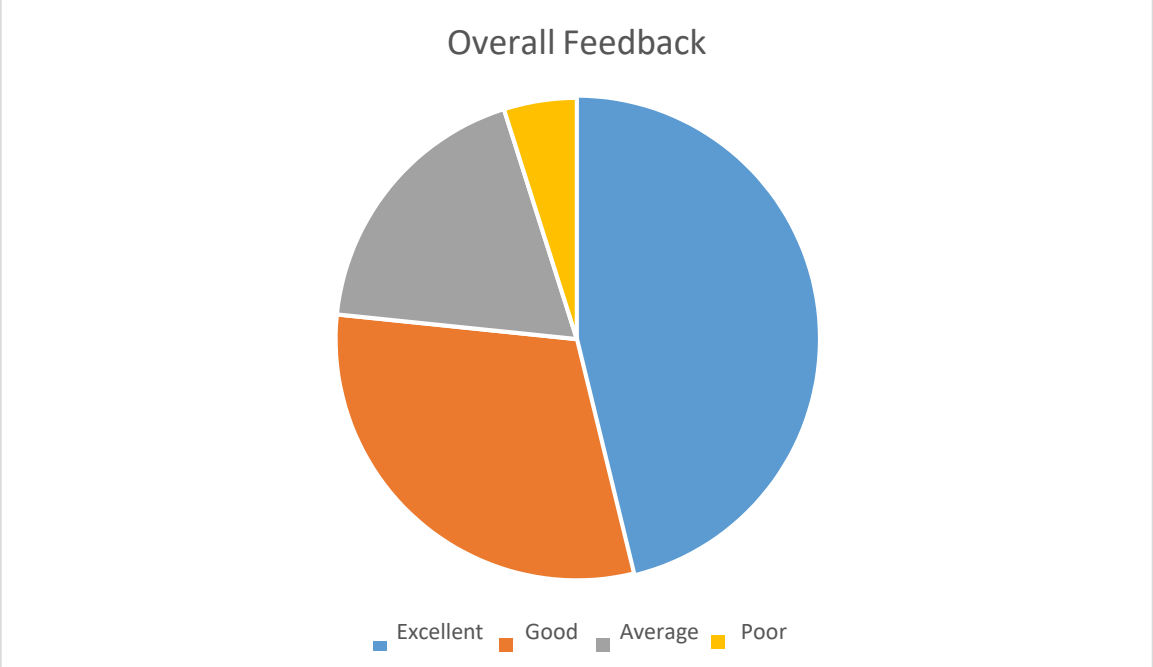


2. Feedback on Effectiveness



3. Feedback on Relevance

4. Overall Feedback



Course Coordinator HOD Principal

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

Vidya Nagar, Palissery, Karukutty, Kerala 683576

Add on /Certificate/Value added programs and Online MOOC programs like NPTEL, Swayam

2020-21

Sl. No	Name of the Add on /Certificate/Value added programs and Online MOOC programs like NPTEL, Swayam	Course code
1	JAVA programming language	CJL2021S01
2	CATIA for Engineers	CCE2021S02
3	Health and Wellness	CHW2021S03
4	Analysis, Design and Detailing of RCC Structures	CAS2021S04
5	Analysis and Design of pavements	CAP2021S05
6	ARDUINO and TINKERCAD	CAT2021S06
7	System Modelling and Control Methods	CSM2021S07
8	C programming language 1.0	CCL2021S08
9	Sustainable Product Design and Development	CSD2021S09
10	Engineer's Evolution: Personal and Professional Growth	CEG2021S10
11	Geotechnical Engineering I	NPT2021S01

SCMS SCHOOL OF ENGINEERING & TECHNOLOGY KARUKUTTY ERNAKULAM 683 576

PRINCIPAL
SCMS SCHOOL OF ENGINEERING & TECHNOLOGY
VIDYANAGAR, PALLISSERY, KARUKUTTY
ERNAKULAM, KERALA-683 576

Course Summary

Java –Programming 5 days' Add on course

Add-on course on Java –Programming was conducted for 30 hours conducted from 29/3/2021-2/4/2021 in online mode. Twenty four students had enrolled for the course and 24 students completed the course after meeting the requirements for course completion. This add on course mainly focused on Java application level training. For that advanced topics based on real time examples were discussed in the course. This interactive session ignited the inquisitiveness of participants and the informative course culminated with a vote of thanks from the resource persons and feedback from the participants.

Assessment Pattern

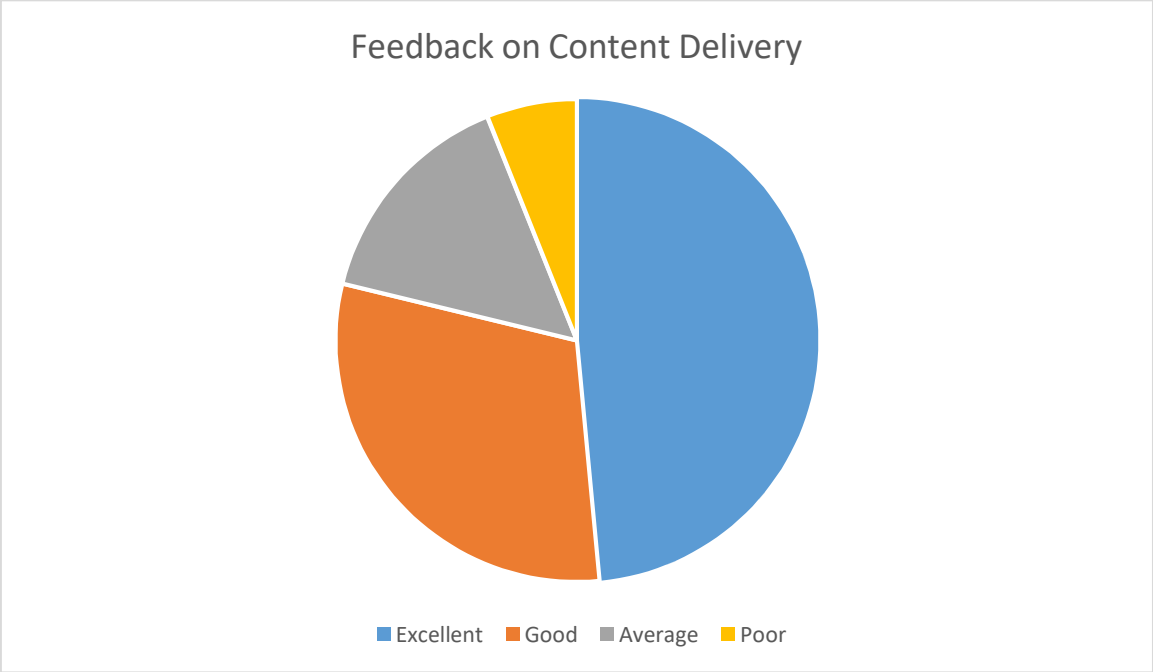
Two assignments of 15 marks each
Final Assessment exam -50 marks, passed with a minimum of 20 marks
Viva-20 marks
Certificates will be awarded to students who completed the course with a minimum of 40 marks
(total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate.

Screenshot of the add on course on " JAVA–Programming"(29/3/21-2/4/21)

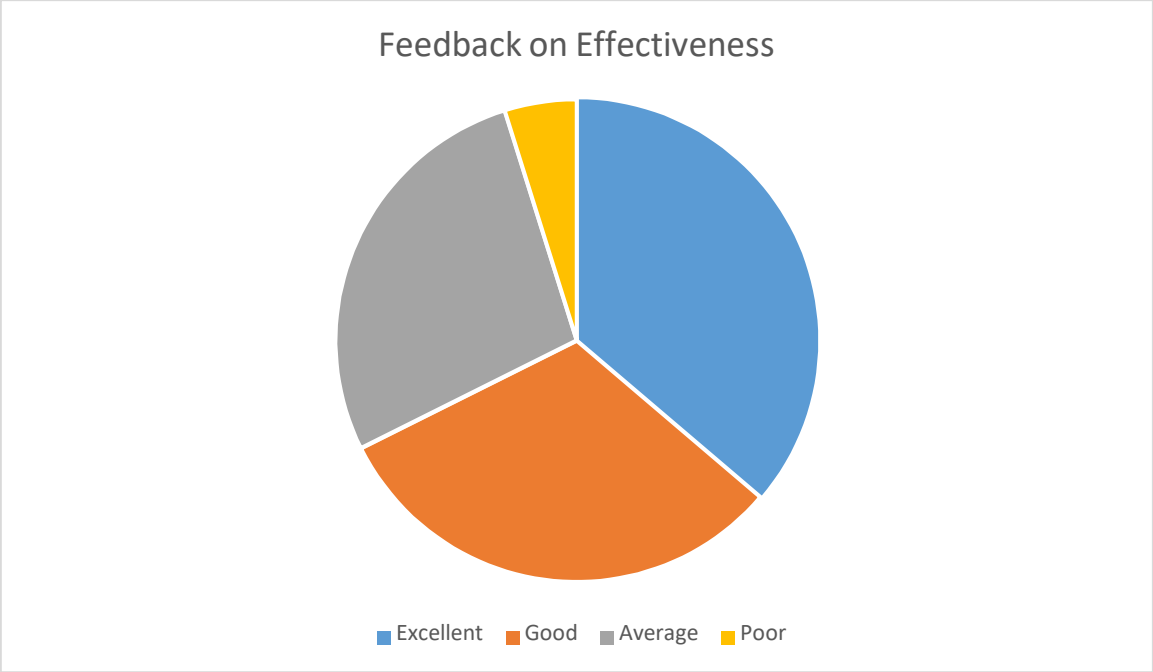
Course Coordinator HOD Principal

Feedback

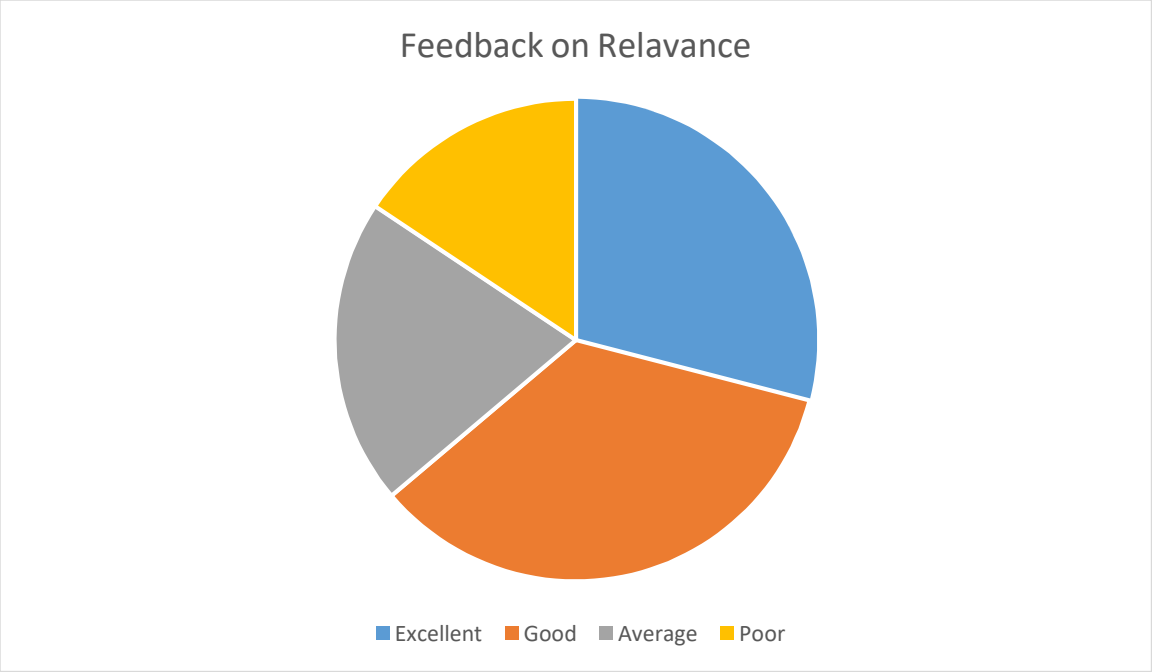
1. Feedback on Content delivery



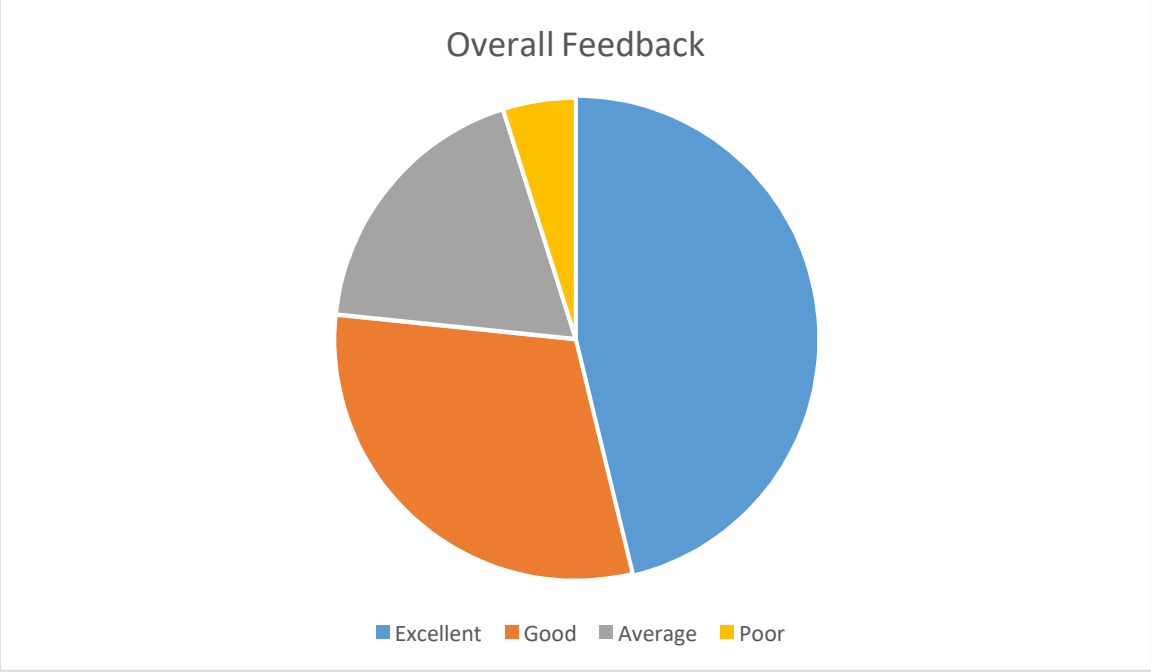
2. Feedback on Effectiveness



3. Feedback on Relevance



4. Overall Feedback



Course Summary

ADD ON COURSE (30 hrs)

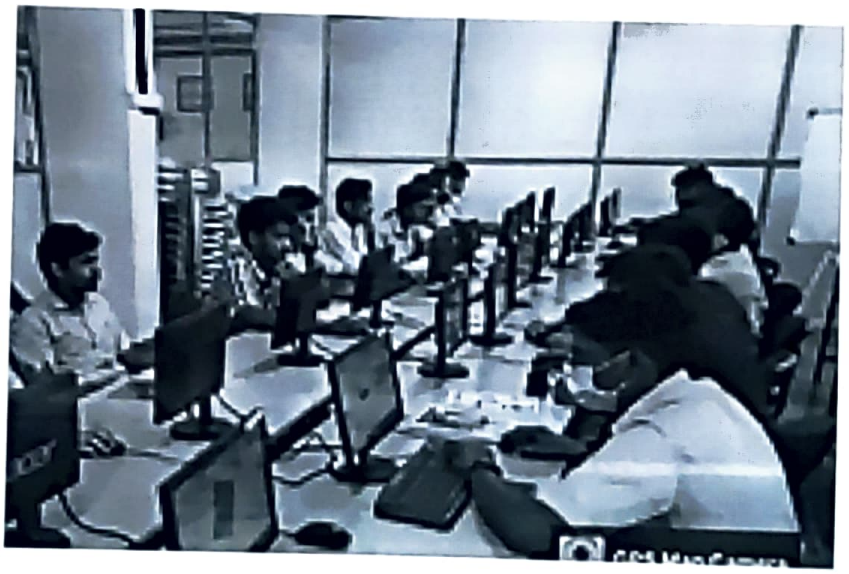
CATIA FOR ENGINEERS

The Department of Automobile Engineering, SSET has conducted a Hands-on Workshop on CATIA for Engineers ' from 11th April 2021 to 15th April 2021. The objective of the workshop was to create basic awareness about Catia.

The resource persons were Mr. Sujay K, Assistant Professor, Department of Automobile Engineering, SCMS School of Engineering and Technology, Ernakulam and Mr. Amal P Dev, Assistant Professor, Department of Automobile Engineering, SCMS School of Engineering and Technology, Ernakulam.

In this session, the drawings were peer reviewed and some drawings have been selected for display.

Assessment criteria
Two assignments of 15 marks each
Final Assessment exam -50 marks, passed with a minimum of 20 marks
Viva-20 marks
Certificates will be awarded to students who completed the course with a minimum of 40 marks (total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate.



Add on course on Catia (11/4/21-15/4/21)

Course Coordinator

HOD

Principal

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM

DEPARTMENT OF AUTOMOBILE ENGINEERING

FEEDBACK FORM

EVENT – ADD-ON COURSE

DATE – 11/04/21 – 15/04/21

NAME OF STUDENT ROHIL RAJ

DEPARTMENT AUTOMOBILE

SEMESTER 3 BATCH 2020-2024

TOPIC- Catia

1. The instructors were knowledgeable, organized and effective in his/her presentation.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
2. The information provided was new to me.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
3. The speaker provided information useful for my career development.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
4. The course included use of modern design software.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
5. Participation and interaction of the students were encouraged during the session.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
6. The course promoted the students to engage in life-long learning in the context of technological changes in current industries.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
7. The course helped the students to function effectively as an individual in a team environment.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
8. The course covered contents encouraging innovations and technologies for the benefit of the society and environment.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree

9. The instructor provided a platform to enhance the creativity level of students to innovate and manage new projects.

☐ Agree ☐ Disagree ☑ Neither agree or disagree

10. The course included application of basic engineering knowledge to analyse problems and design components to meet the specific needs of society.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

11. Comment on the overall exposure gained from the course.

The course was very good. It helped me gain more knowledge about different concepts and help me gain more experience in the engineering field.

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM

DEPARTMENT OF AUTOMOBILE ENGINEERING

FEEDBACK FORM

EVENT – ADD-ON COURSE

DATE – 11/04/21 – 15/04/21

NAME OF STUDENT Afthab Salim.

DEPARTMENT Automobile

SEMESTER 3 BATCH 2020-2024

TOPIC- Hands-on training on Catia

1. The instructors were knowledgeable, organized and effective in his/her presentation.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
2. The information provided was new to me.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
3. The speaker provided information useful for my career development.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
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8. The course covered contents encouraging innovations and technologies for the benefit of the society and environment.
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9. The instructor provided a platform to enhance the creativity level of students to innovate and manage new projects.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

10. The course included application of basic engineering knowledge to analyse problems and design components to meet the specific needs of society.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

11. Comment on the overall exposure gained from the course.

The faculty teachers helped me understand the subjects better and helped me clear my doubts in certain aspects of engineering.

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM

DEPARTMENT OF AUTOMOBILE ENGINEERING

FEEDBACK FORM

EVENT – ADD-ON COURSE

DATE – 11/04/21 – 15/04/21

NAME OF STUDENT Amal. A

DEPARTMENT Automobile

SEMESTER 3 BATCH 2020-2024

TOPIC- Hands-on training on Catia

1. The instructors were knowledgeable, organized and effective in his/her presentation.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
2. The information provided was new to me.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
3. The speaker provided information useful for my career development.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
4. The course included use of modern design software.
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5. Participation and interaction of the students were encouraged during the session.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
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7. The course helped the students to function effectively as an individual in a team environment.
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8. The course covered contents encouraging innovations and technologies for the benefit of the society and environment.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree

9. The instructor provided a platform to enhance the creativity level of students to innovate and manage new projects.

☐ Agree ☐ Disagree ☐ Neither agree or disagree

10. The course included application of basic engineering knowledge to analyse problems and design components to meet the specific needs of society.

☐ Agree ☐ Disagree ☐ Neither agree or disagree

11. Comment on the overall exposure gained from the course.

The teachers helped me understand the concepts better and were very helping when it came to making projects, seminars etc.

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM

DEPARTMENT OF AUTOMOBILE ENGINEERING

FEEDBACK FORM

EVENT – ADD-ON COURSE

DATE – 11/04/21 – 15/04/21

NAME OF STUDENT Faizal Taj

DEPARTMENT Automobile

SEMESTER 5 BATCH 2019-2023

TOPIC- Hands-on training on Catia

1. The instructors were knowledgeable, organized and effective in his/her presentation.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
2. The information provided was new to me.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
3. The speaker provided information useful for my career development.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
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6. The course promoted the students to engage in life-long learning in the context of technological changes in current industries.
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7. The course helped the students to function effectively as an individual in a team environment.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
8. The course covered contents encouraging innovations and technologies for the benefit of the society and environment.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree

9. The instructor provided a platform to enhance the creativity level of students to innovate and manage new projects.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

10. The course included application of basic engineering knowledge to analyse problems and design components to meet the specific needs of society.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

11. Comment on the overall exposure gained from the course.

The course helped me clear my doubts and the teaching method is very good.

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM

DEPARTMENT OF AUTOMOBILE ENGINEERING

FEEDBACK FORM

EVENT – ADD-ON COURSE

DATE – 11/04/21 – 15/04/21

NAME OF STUDENT Aneesha Sajeev

DEPARTMENT Automobile

SEMESTER 5 BATCH 2019-2023

TOPIC- Hands-on training on Catia

1. The instructors were knowledgeable, organized and effective in his/her presentation.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
2. The information provided was new to me.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
3. The speaker provided information useful for my career development.
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9. The instructor provided a platform to enhance the creativity level of students to innovate and manage new projects.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

10. The course included application of basic engineering knowledge to analyse problems and design components to meet the specific needs of society.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

11. Comment on the overall exposure gained from the course.

The course really helped me to gain experience in the automobile department and we also got to know and work in a company related to the automobile. The course helped me clear up my doubts also.

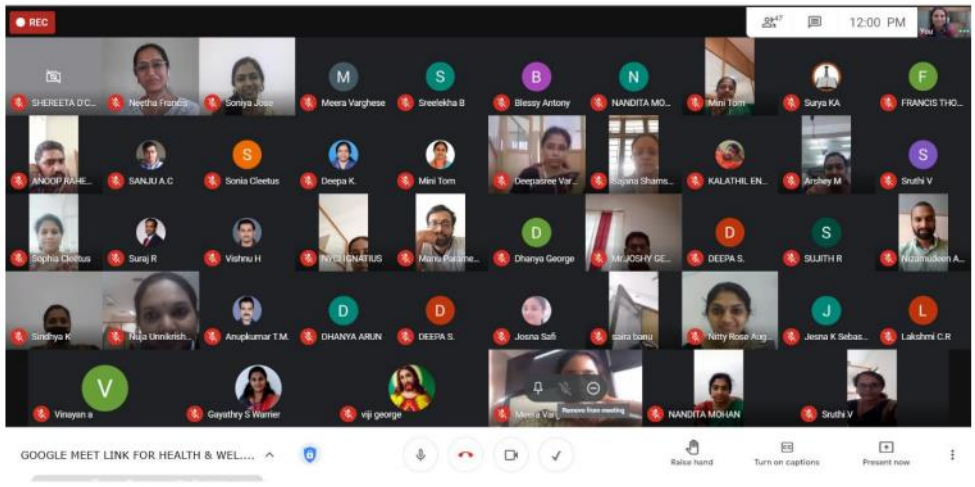
Course Summary

Value added course on Health and Wellness

The value-added course on health and wellness conducted on 2021 February from08/02/2021 to 23/03/2021. Duration of course was 30 hrs. Thirty students from various department attended the course. Exam was conducted at the end of the course.

Assessment Pattern

Two assignments of 15 marks each
Final Assessment exam -50 marks, passed with a minimum of 20 marks
Viva-20 marks
Certificates will be awarded to students who completed the course with a minimum of 40 marks
(total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate.

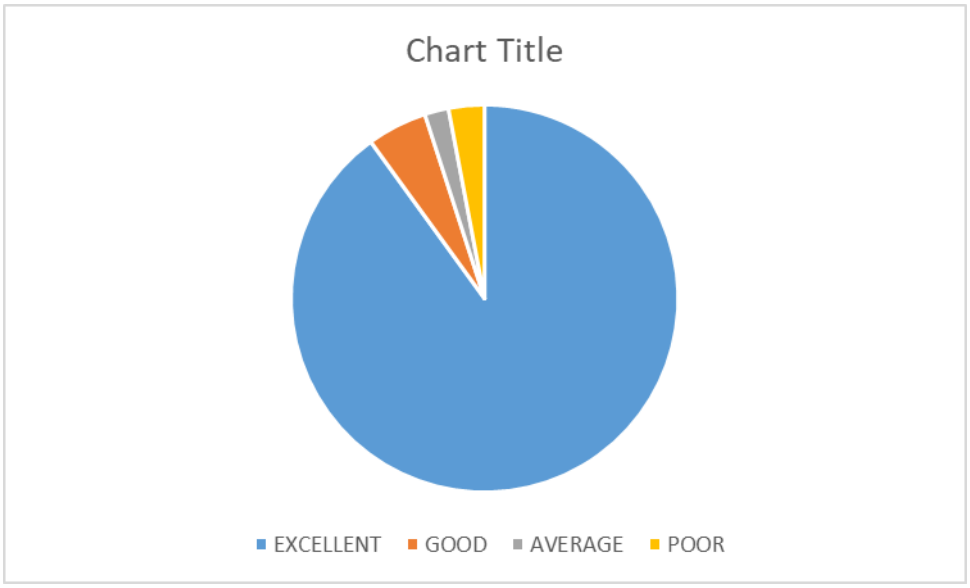


Value added course on Health and Wellness (30 hours) (8/2/21-20/2/21)

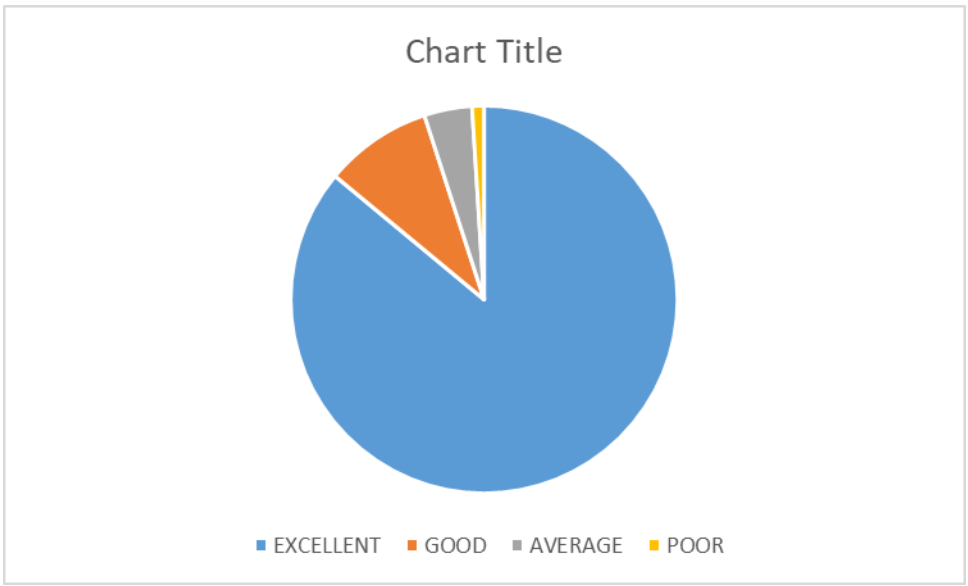
SURYA K A	Dr Sreelekha Menon	Dr Praveen Sal C J
Course Coordinator	HOD	Principal

Feedback

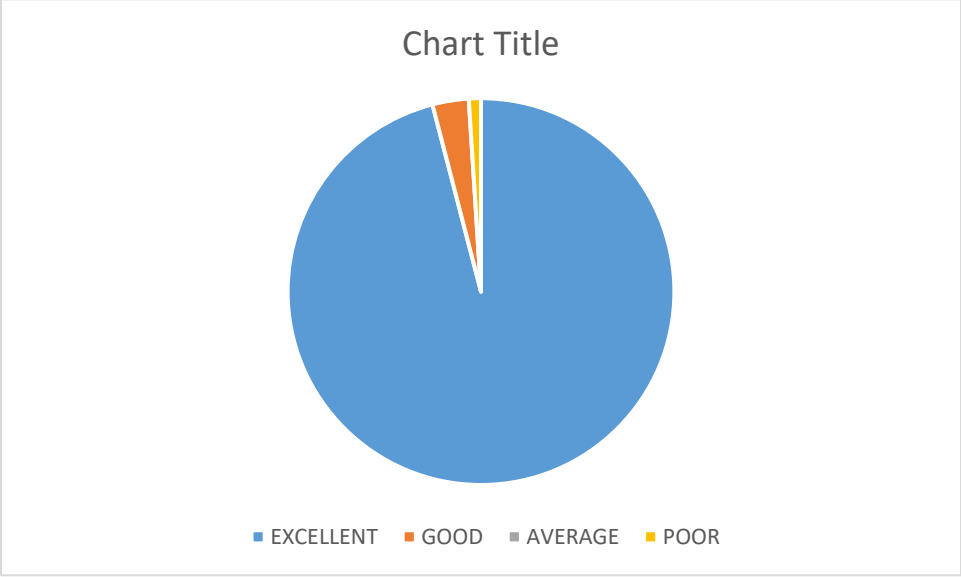
1. Feedback on Content delivery



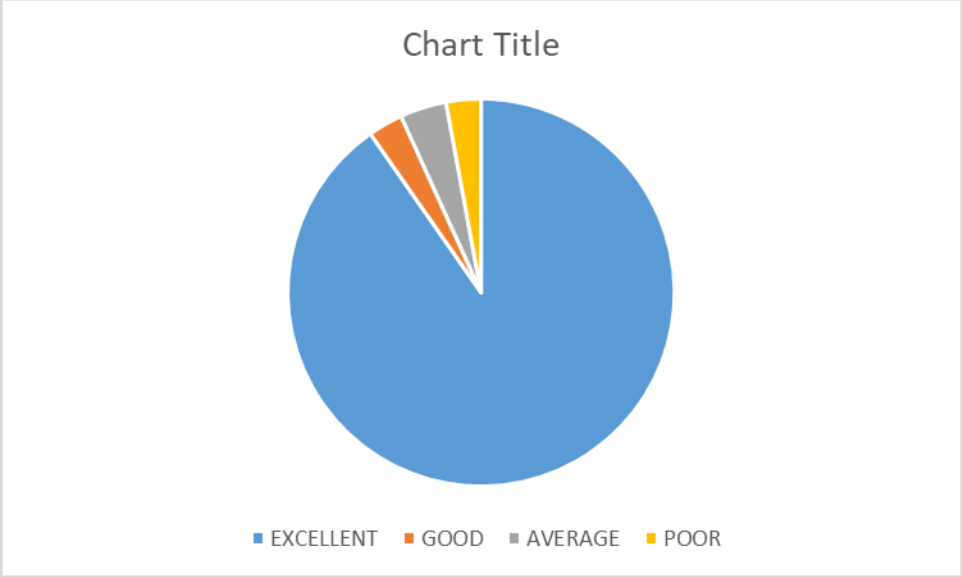
2. Feedback on Effectiveness



3. Feedback on Relevance



4. Overall Feedback



ANALYSIS AND DESIGN OF PAVEMENTS

COURSE SUMMARY

The 30-hour duration course on Analysis and Design of pavements was organized with an objective to fill the gap in the course CE 308 Transportation Engineering. The session was organized for a period of 5 days in which Batch17, Batch 18 and Batch 19 civil engineering BTech students participated. The session gave a hands on experience to students with regard to how to analyse, design, model and construct pavements inIndia. Speakers from different parts of Kerala in the field of transportationEngineering shared their knowledge and experience with students and also trained them on using software like ABAQUS for the same. 217 students enrolled and 217 students completed the course.

Assessment Pattern

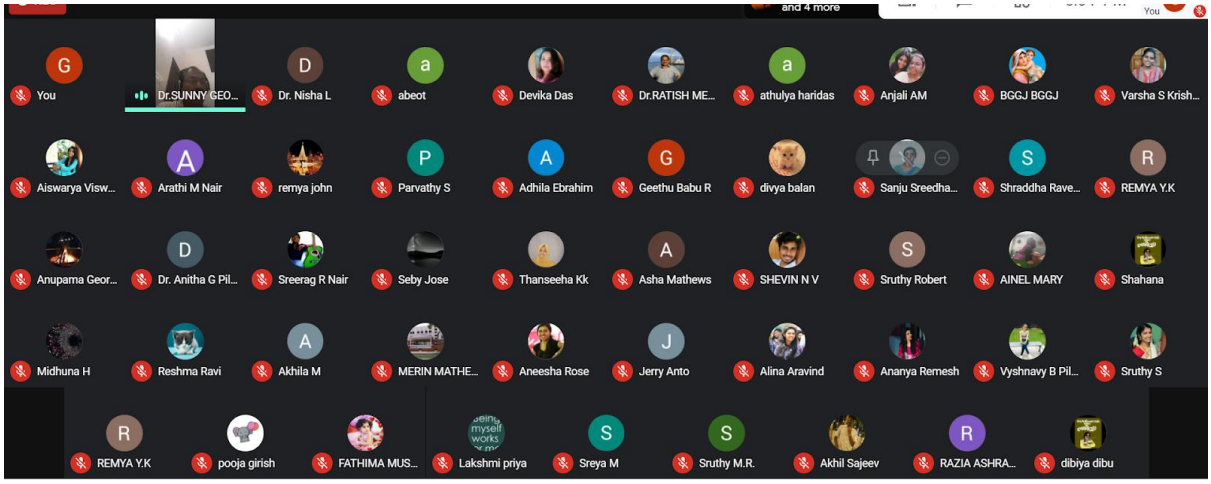
Two assignments of 15 marks each

Final Assessment exam -50 marks, passed with a minimum of 20 marks

Viva-20 marks

Certificates will be awarded to students who completed the course with a minimum of 40 marks

(total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate.

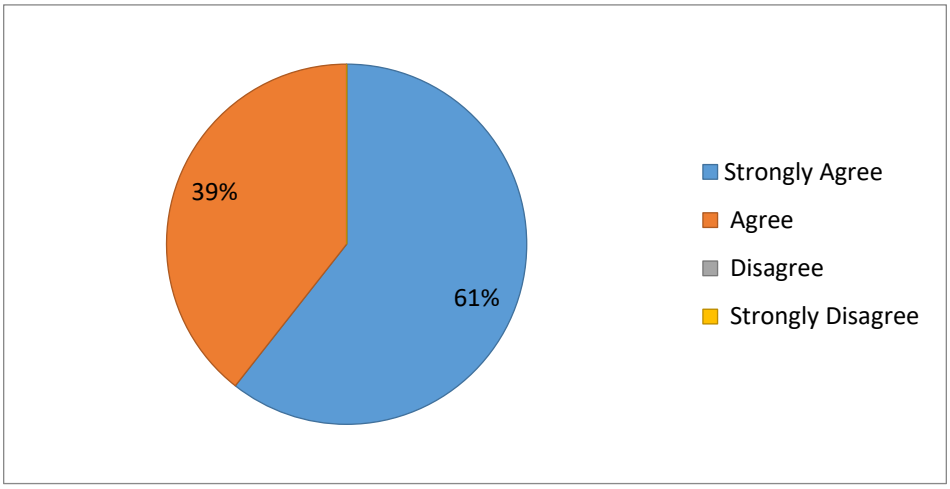


Add on course on Analysis and design of pavements (12/10/20-16/10/20) (30 hours)

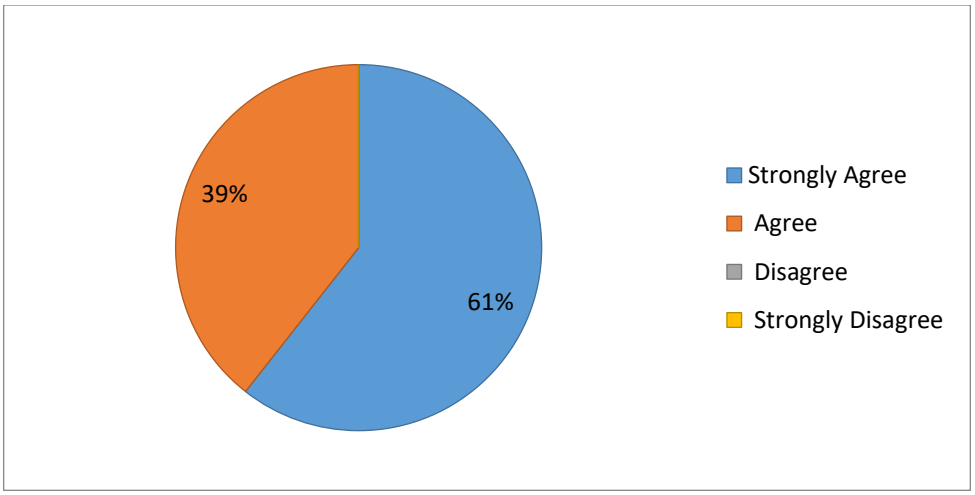
Course Coordinator HOD Principal

Feedback

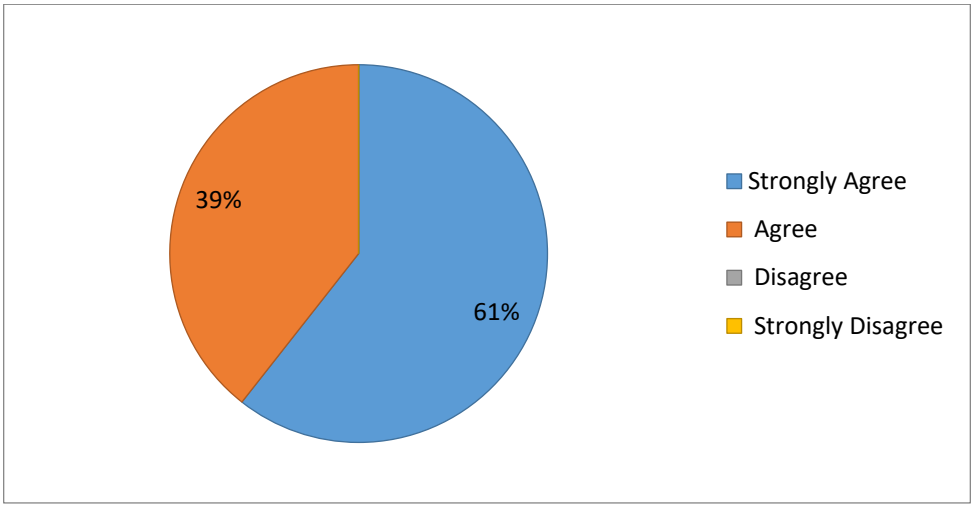
The training program was well organized



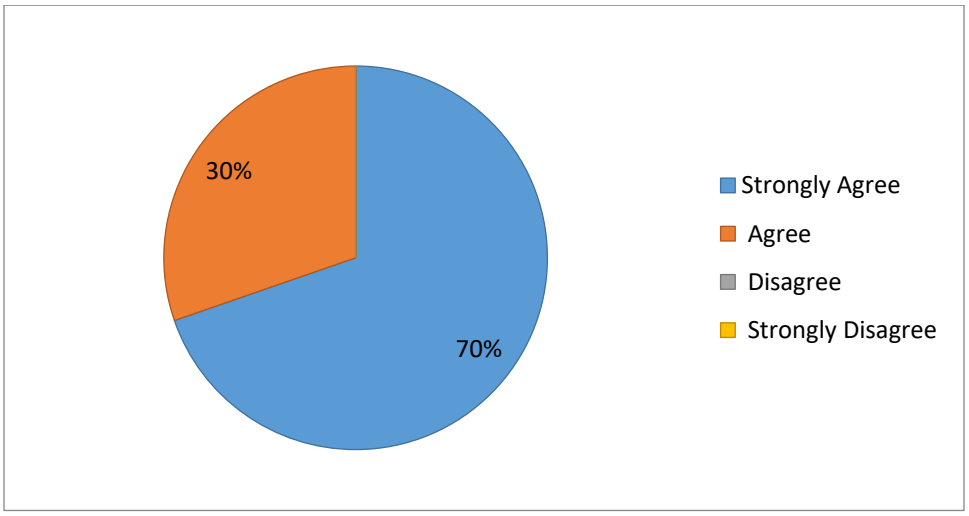
The training program explained various software useful for analyzing pavements



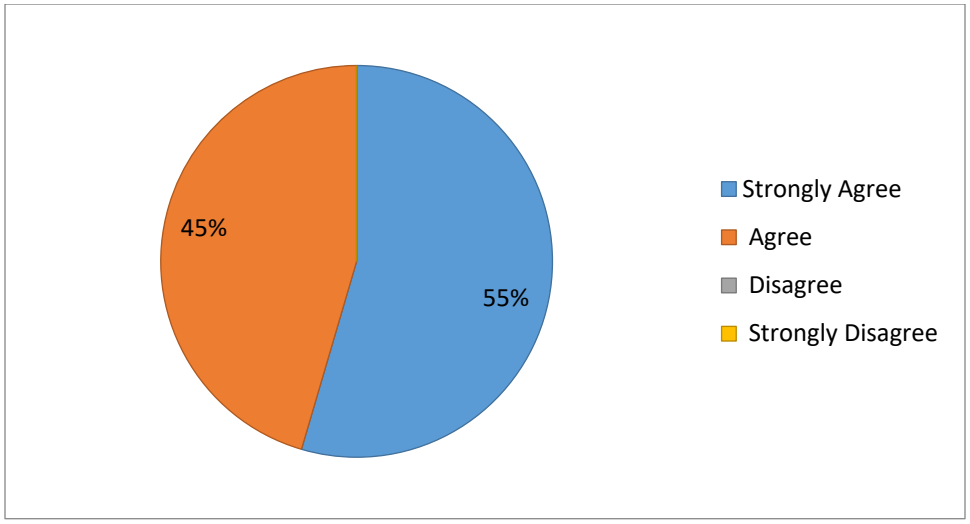
The training program enabled you to understand how to use ABAQUS for analysis of flexible pavements



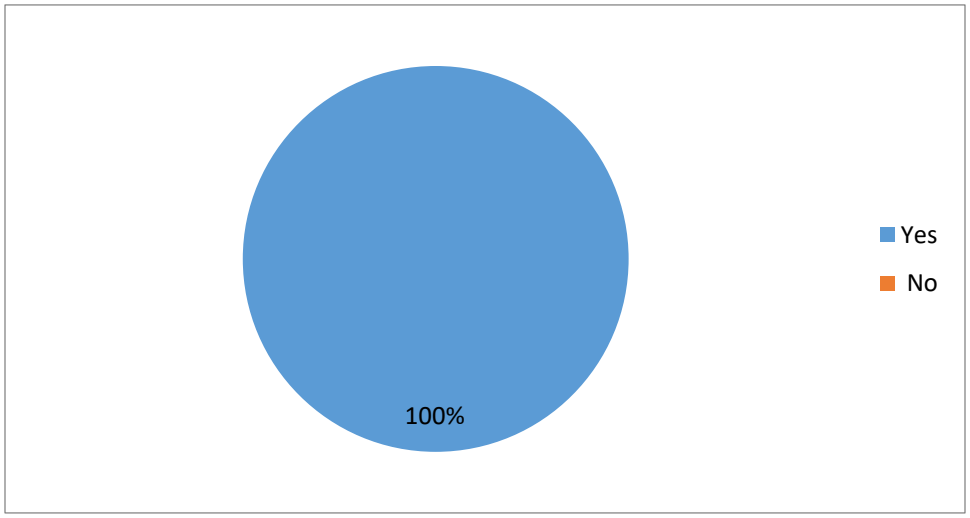
The training program demonstrated the steps involved in load analysis and design of pavements



The training program gave insights into comparison of flexible and rigid pavemnets



You are interested in further sessions relating to this topic



Course Coordinator

HOD

Principal

Course Summary

ADD ON COURSE ON ANALYSIS, DESIGN AND DETAILING OF RCC STRUCTURES

30 HOUR COURSE (3/8/2020,4/8/2020,5/8/2020,6/8/2020,7/8/2020)

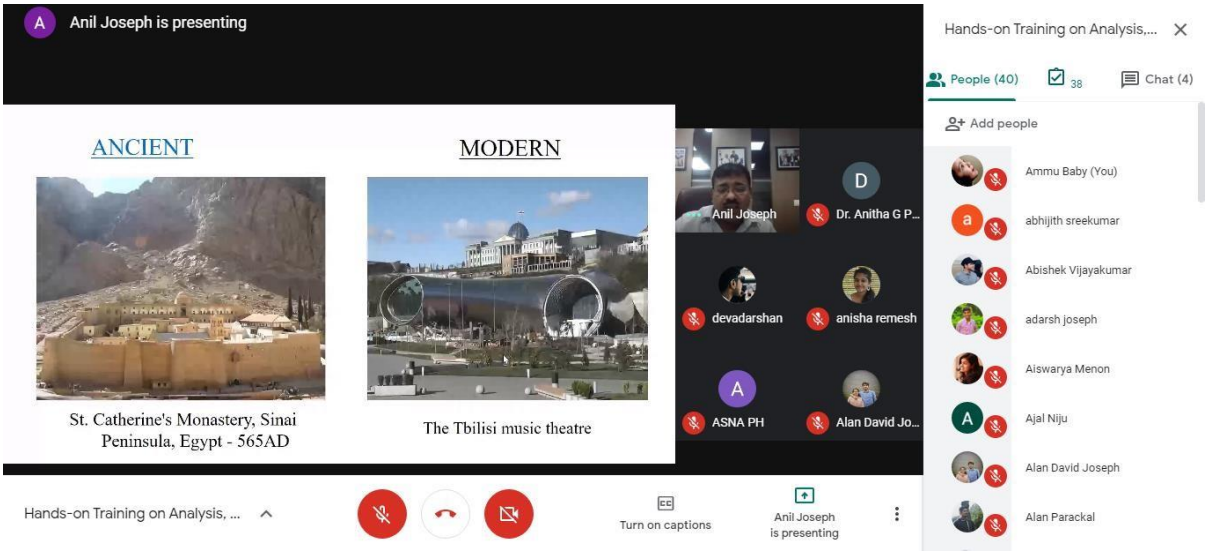
Session 1: Importance of Planning, Analysis, Design and Detailing

The session began with a welcome accorded to the participants by Dr.Anitha G Pillai, Head of Department, Civil Engineering and Dean of Academics. 217 students enrolled and 217 students completed the programme.

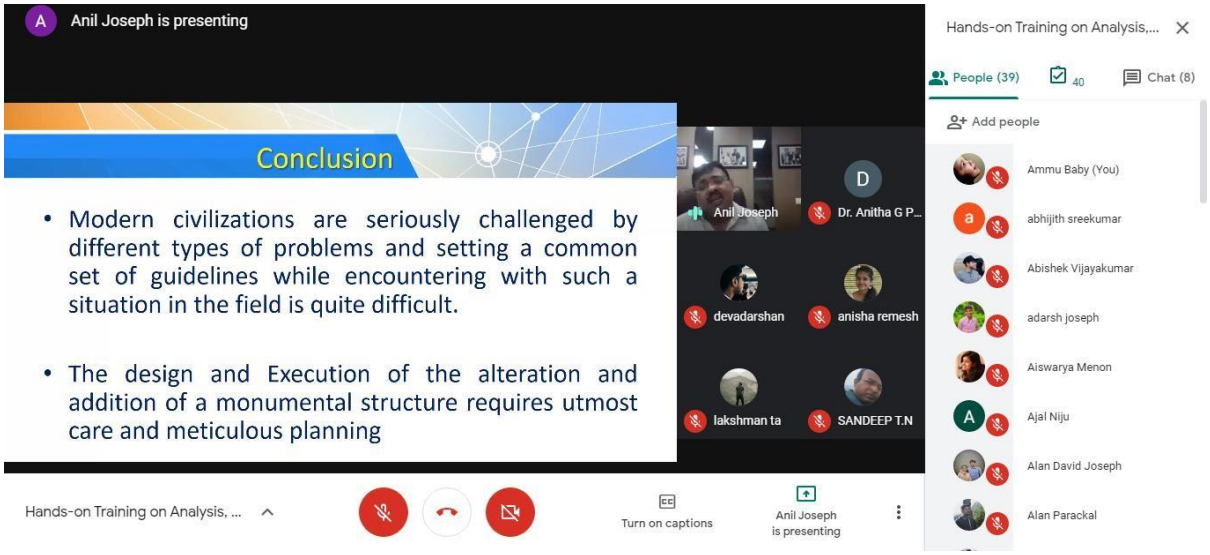
The speaker of the session was Dr. Anil Joseph, Managing Director, Geostructurals Pvt. Ltd. The speaker took everyone through the fundamental differences between ancient and modern construction. He later introduced some of the challenges faced in big projects using case studies and his own work. Through this he emphasized on the importance of planning, analysis and design. He also hinted about the importance of the drawing showing detailing and how deviating from it may lead to huge failures.

Assessment criteria

Two assignments of 15 marks each
Final Assessment exam -50 marks, passed with a minimum of 20 marks
Viva-20 marks
Certificates will be awarded to students who completed the course with a minimum of 40 marks
(total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate.



Google meet Screen of the course: Talk by Dr. Anil Joseph (



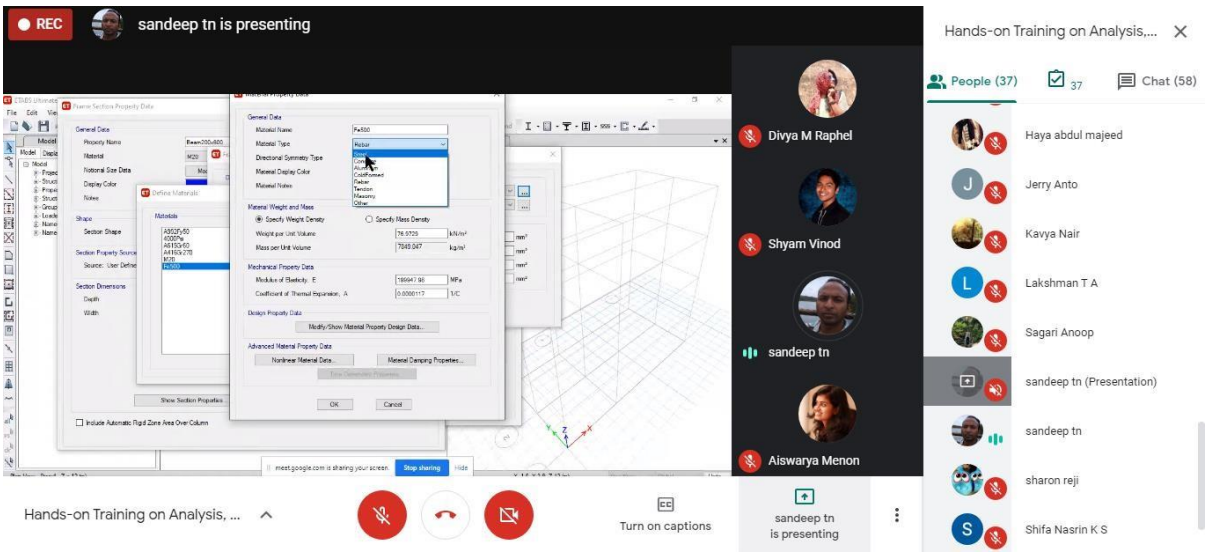
Google meet Screen of the course: Talk by Dr. Anil Joseph

Session 2: Modelling a building geometry in ETABS software, applying loads and analysis

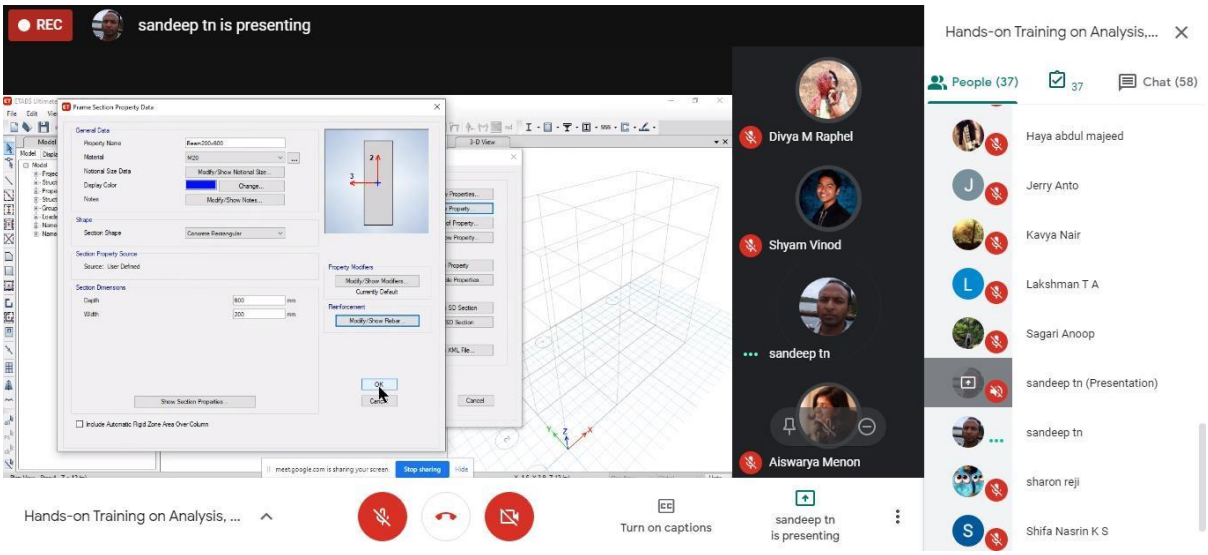
The speaker of the session was Mr. Sandeep T N, Assistant Professor, Dept. of Civil Engineering, SSET.

A framed building 3 floors were considered for the hands on training. The positioning of the columns was discussed and thumb rules for their preliminary size were talked about. The columns beams and slabs were then modeled in ETABS. Various parameters and grids were demonstrated.

The load calculation such as wall, floor finish, live loads etc. were applied, along which load cases and combinations were shown. The model was checked and run. Deflection diagram, bending moment and shear force were finally calculated.



Google meet Screen of the course: Talk by Mr. Sandeep T N



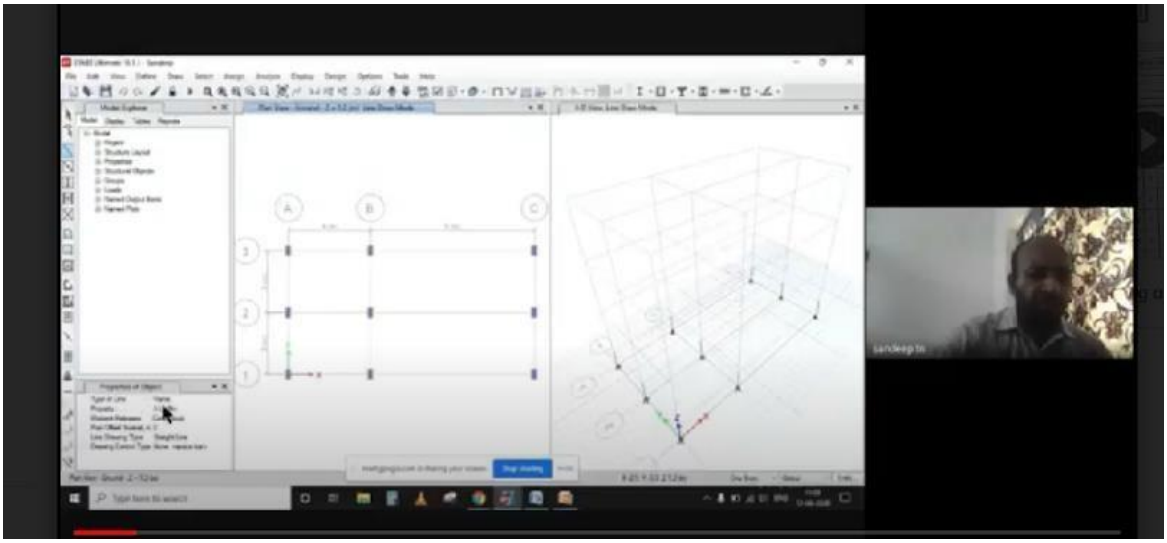
Google meet Screen of the course: Talk by Mr. Sandeep T N

Session 3: Design of Beam and column using ETABS

The speaker of the session was Mr. Sandeep T N, Assistant Professor, Dept. of Civil Engineering, SSET.

This session was a continuation of the previous day where bending moment, shear force and deflection diagram along with all loads and load cases were discussed. Design of columns was then demonstrated in ETABS. Using the result of design, detailing drawings were prepared in

AutoCAD. The same steps were followed for Beams as well. By the end of these sessions the students had a wholesome idea of how to calculate various loads acting on an RCC structure and how to design elements for the same using ETABS.

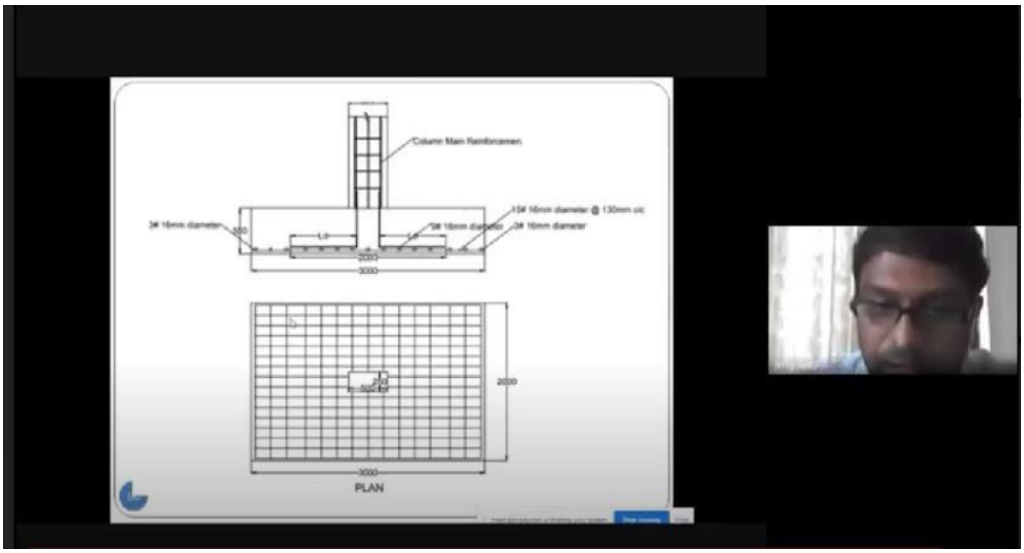


Google meet Screen of the course: Talk by Mr. Sandeep T N

Session 4: Design of isolated footing manually and preparing the detailing in AutoCAD

The speaker of the session was Mr. Jerry Anto, Assistant Professor, Dept. of Civil Engineering, SSET.

This session focused on demonstrating to the participants, how a foundation can be designed. The loads for this design were based on the output of previous session. All designs were done based on relevant IS codes. Towards the end of this session, reinforcement detailing was shown and explained. This would enable the students to decipher the detailing drawings often seen in the field.

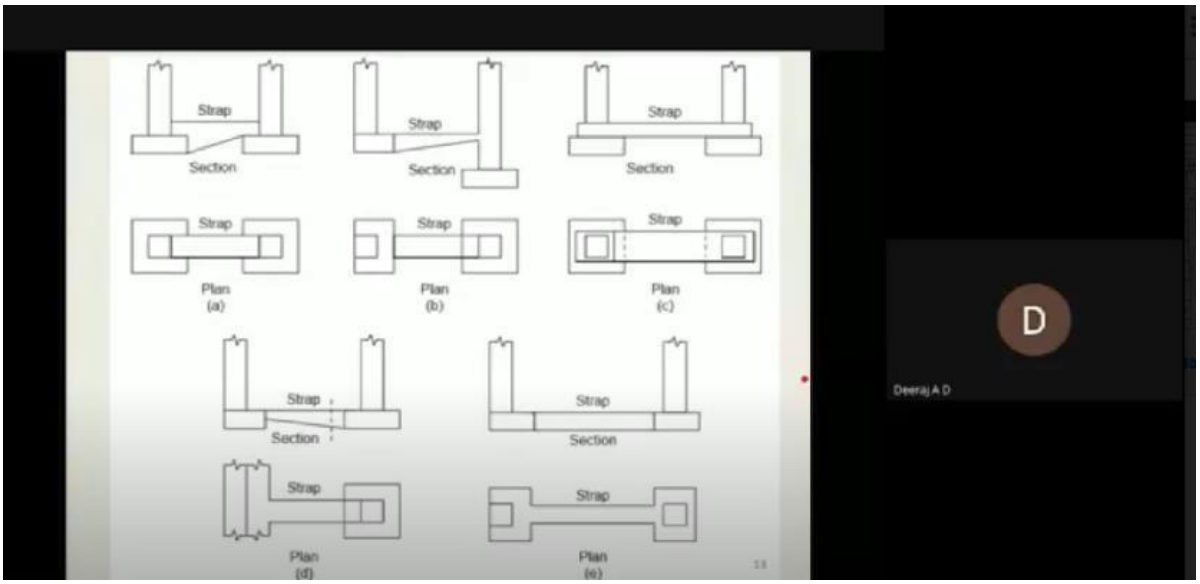


Google meet Screen of the course: Talk by Mr. Jerry Anto

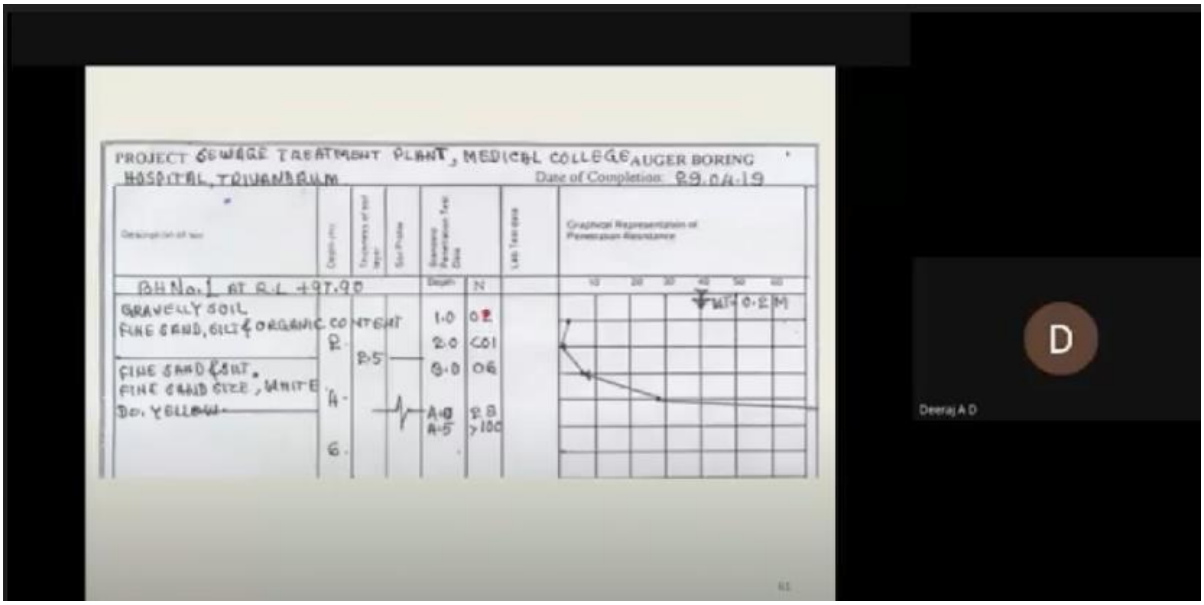
Session 5: Preliminary selection of foundation and bearing capacity determination

The speaker of the session was Mr. Deeraj A D, Assistant Professor, Dept. of Civil Engineering, SSET.

The session started by providing the students a refresher of the various types of foundations after which the preliminary guidelines set out by the IS codes were discussed. Various methods to determine the bearing capacity of soils had already been taught to the students as per their curriculum. To further expand on this bearing capacity calculation methods from field tests were discussed. Using these bearing capacity values could be calculated from commonly used field tests. The importance of settlement and its limits were also discussed. Towards the end of the session, field data was provided for which foundation recommendation was to be made. Based on this the participants involved in a discussion.



Google meet Screen of the course: Talk by Mr. Deeraj A D



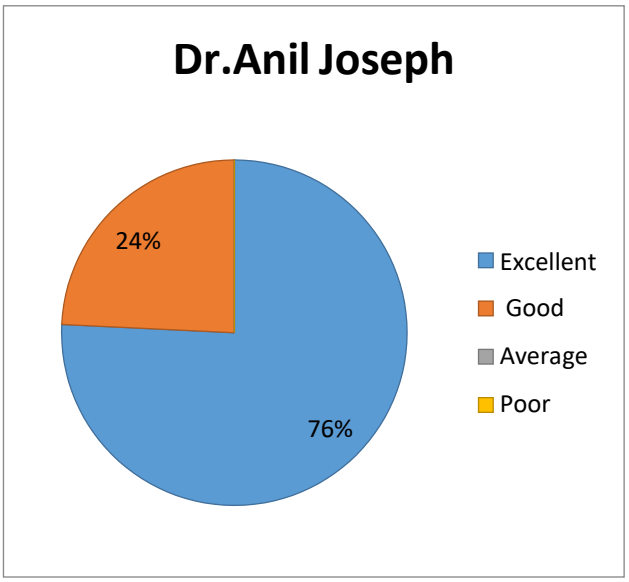
Google meet Screen of the course: Talk by Mr. Deeraj A D

FEEDBACK

FEEDBACK OF INDIVIDUAL SESSIONS

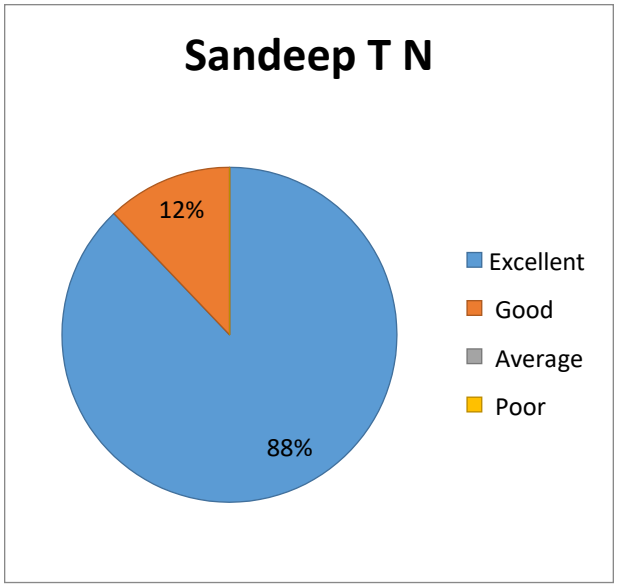
Session 1: Importance of planning, Analysis and design and detailing by Dr.Anil Joseph

The session was rated as follows by 217 respondents



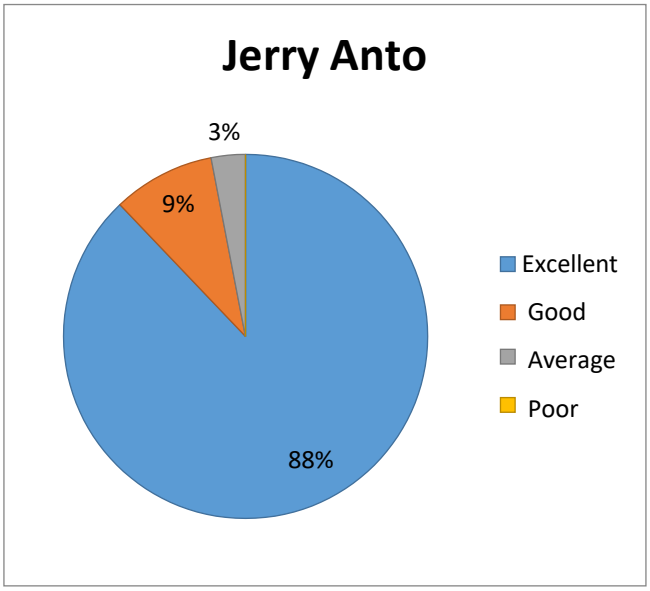
Session 2, 3: Modelling building geometry in ETABS software, applying loads and analysis and Design of Beam and column using ETABS by Mr. Sandeep T N

The session was rated as follows by 217 respondents



Session 4: Design of isolated footing manually and preparing the detailing in AutoCAD by Mr. Jerry Anto

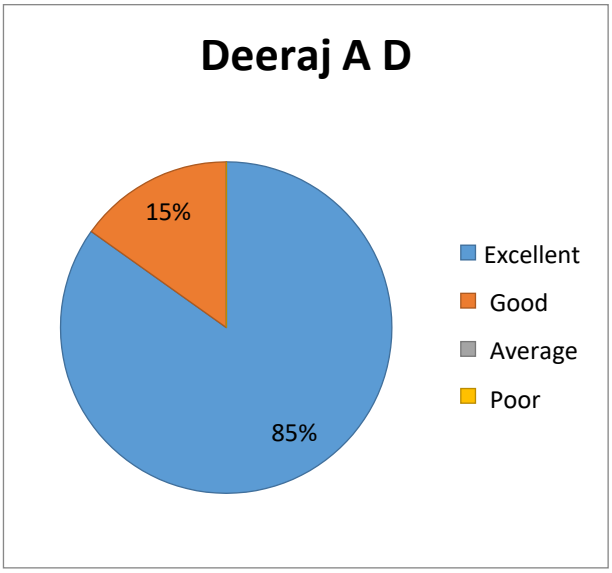
The session was rated as follows by 217 respondents



Session 5: Preliminary Selection of foundation and Bearing capacity calculation

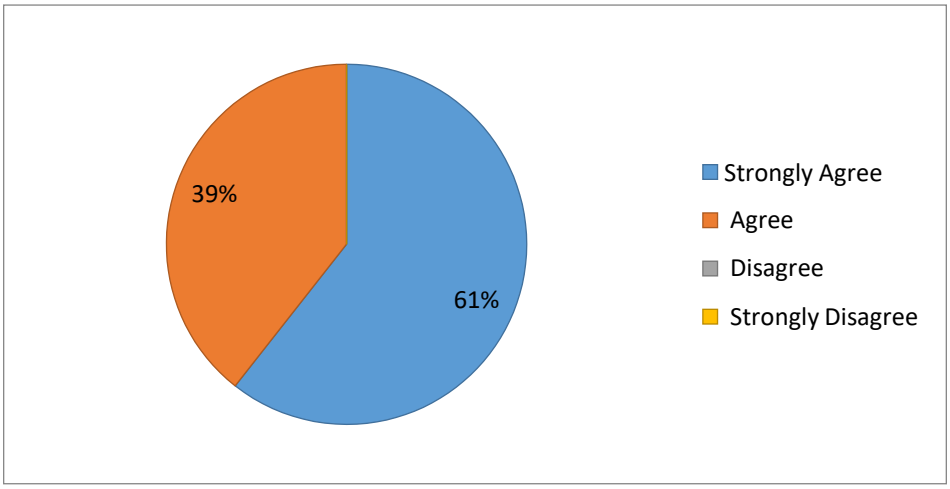
by Mr. Deeraj A D

The session was rated as follows by 217 respondents

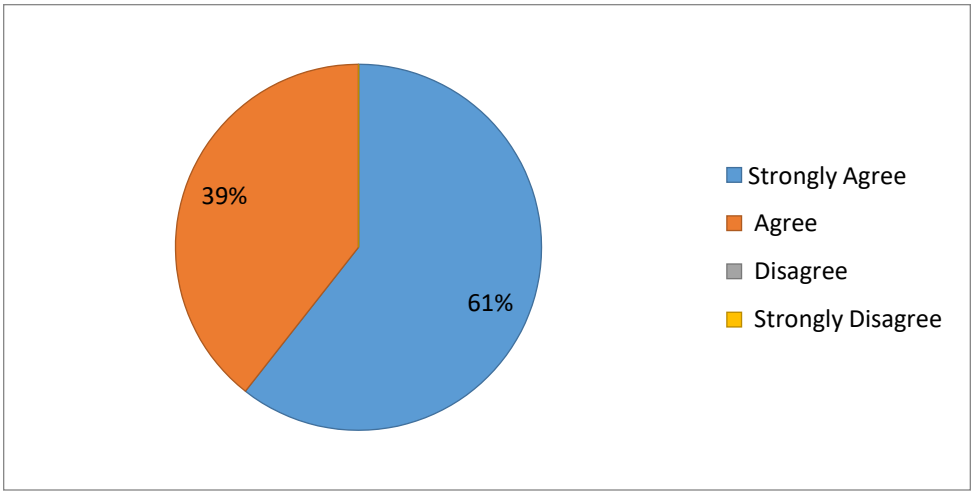


CONSOLIDATED FEEDBACKS

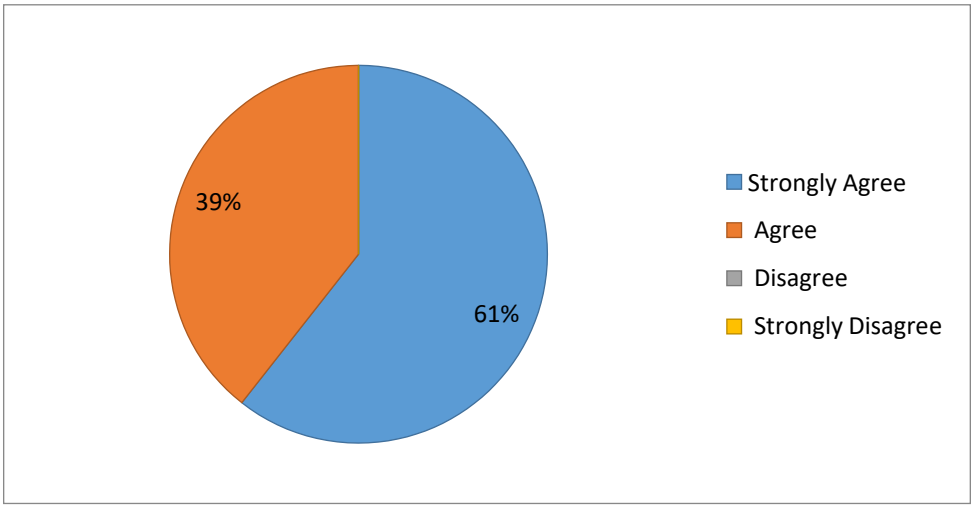
The training program was well organized



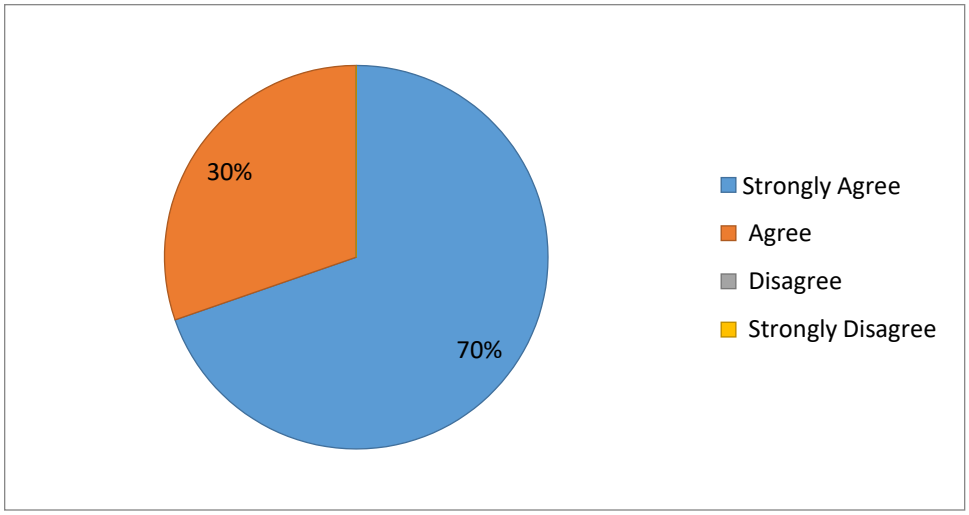
The training program established the requirement of Software enabled Analysis and Design practices in the field



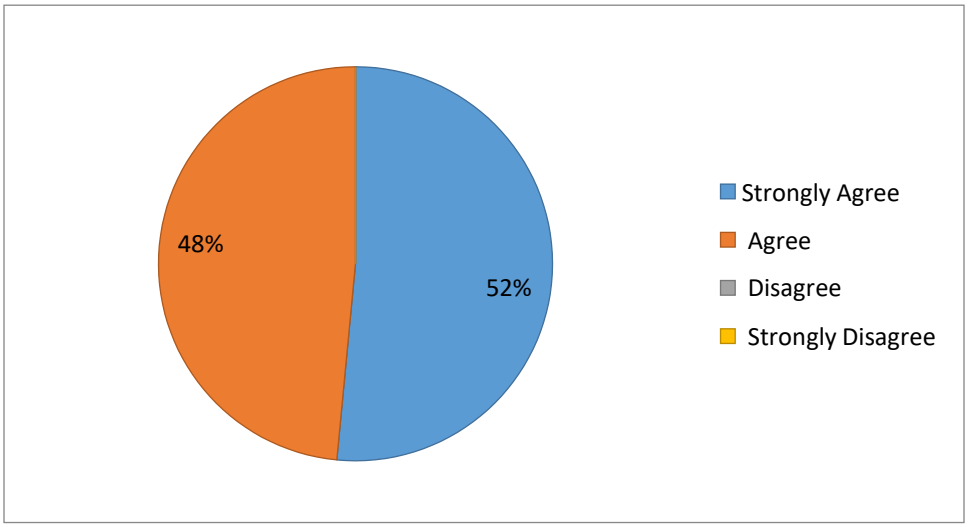
The training program enabled you to understand how to use ETABS for Building Analysis and Design



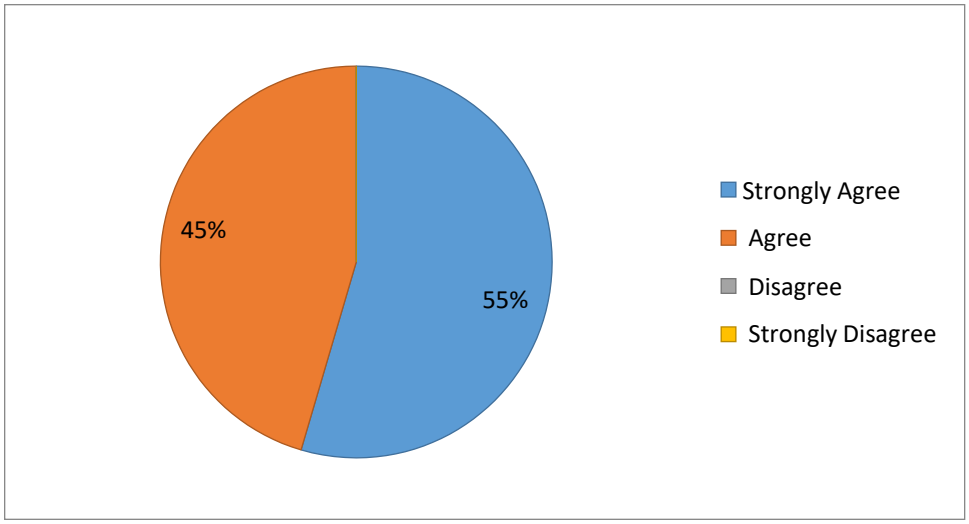
The training program demonstrated the steps involved in load analysis and design of Isolated Footing



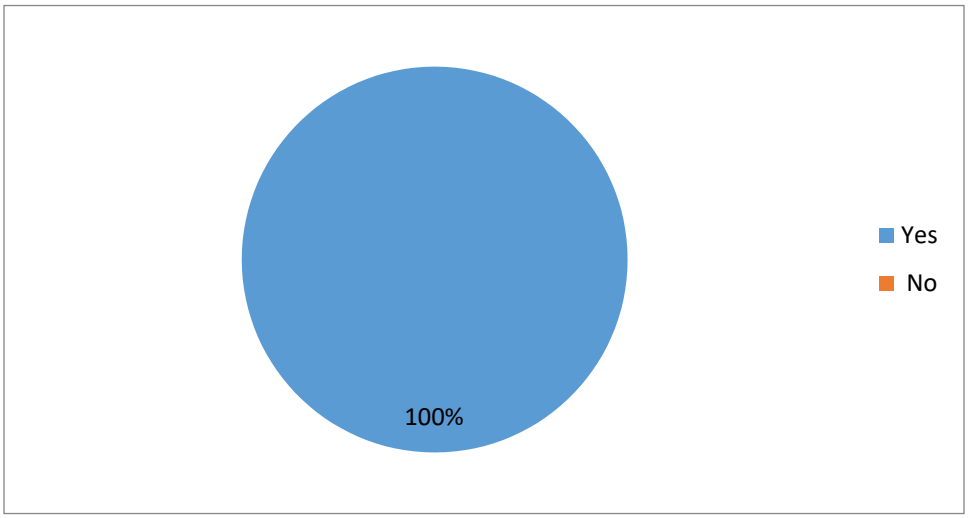
The training program explained detailing drawings of RCC components



The training program gave insights into foundation selection criterion and bearing capacity calculation for shallow and deep foundations



You are interested in further sessions relating to this topic



What topics do you suggest for further sessions?

- More training with ETABS
- Advanced concrete technology
- more practical situations
- Etabs software higher level classes(mainly on software)
- Other similar softwares
- ETABS further details
- Branches of streams after civil engineering.

- What changes might come on constructing a structure like a dam or bridge than a regular building using etabs .?
- It should include advanced construction techniques and also include some of the practical cases calculations.
- Advanced study on ETABS software
- Detailing of R.C.C buildings in ETABS
  Design and analysis of steel building in ETABS
- Foundation selection criterion
- more sessions about new technological advancements in civil engineering
- Softwares like revit etc will be good for us
- Same ... about the structure of buildings
- Theoretical study on High frequency fatigue behavior of concrete.

Course Coordinator

HOD

Principal

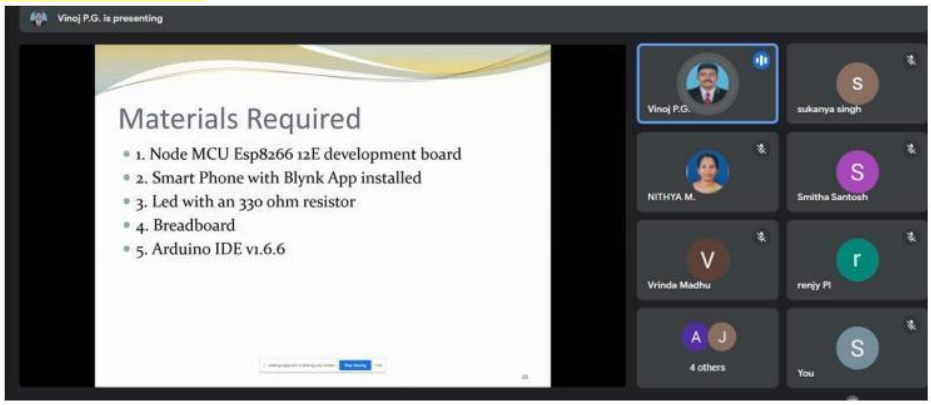
Course Summary

ARDUINO and TINKERCAD

An add on course (30 hours) on Arduino & Tinkercad was organized for ECE students by Department of Electronics and Communication Engineering in association with IEDC SSET under the coordination of Ms. Parvathi R (Asst. Professor, ECE Dept.). This course was conducted from May 10th -14th 2021 in online mode. Sixty-Nine students registered and participated for the add on course. The contents of this course was designed to meet the gap in syllabus for the subject ECT 342 Embedded Systems.

Assessment Pattern

A project based on Arduino board was given to each participant for evaluation.
Two assignments of 15 marks each
Final Assessment exam -50 marks, passed with a minimum of 20 marks
Viva-20 marks
Certificates will be awarded to students who completed the course with a minimum of 40 marks (total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate.

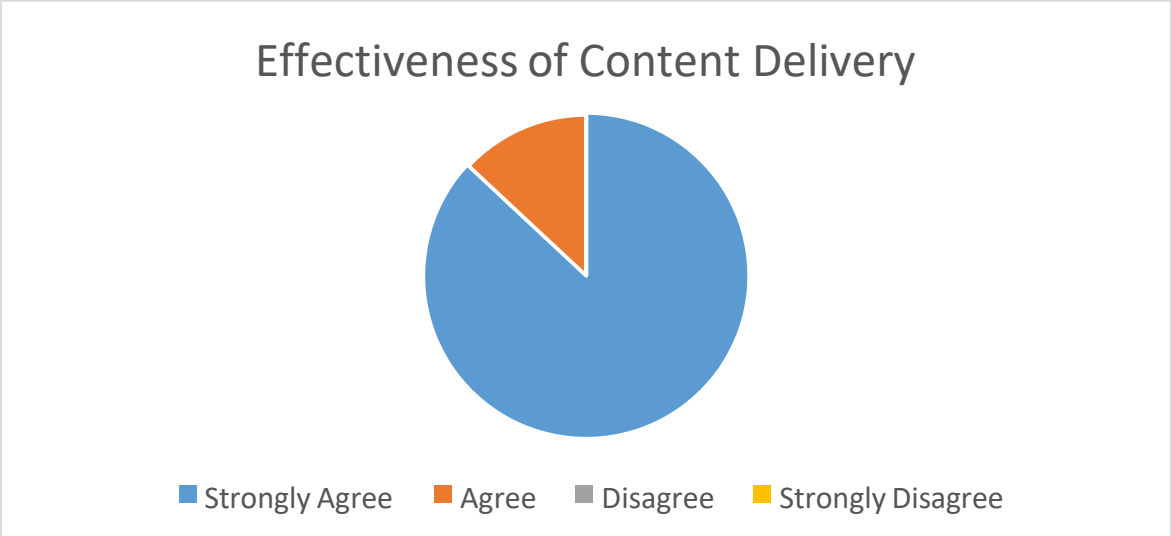


Screenshot of add on course on Arduino and Tinkercad (30 hours) (10/5/21-14/5/21)

Coordinator HOD PRINCIPAL

Feedback

1. Feedback on Content delivery



2. Feedback on Knowledge of Resource Person

3. Feedback on Effectiveness of Hands on Session

4. Overall Feedback

Ms. Parvathi R	Ms. Anandhi V	Dr. Praveensal C J
Course Coordinator	**HOD**	**Principal**

Course Summary

System Modelling and Control Methods

30 Hours

Department of Electrical and Electronics Engineering organized 30 hours Add On Course on "System Modelling and Control Methods" by Dr Nandakumar.M, HOD,EEE Department from 13/07/20 to 17/07/20. This session is arranged and co-ordinated by Mrs. Jayalakshmi.S, Assistant Professor, EEE Department. He discussed about different control methods applied buck, boost and buck-boost type of DC-DC converters**.**

He also talked smart power flow control and guidance navigational control. This 30 hour add on courseenlightened the mind of the students to new paths. Totally sixty-four students attended the program.

The feedback of the sessions received by the participants was excellent.

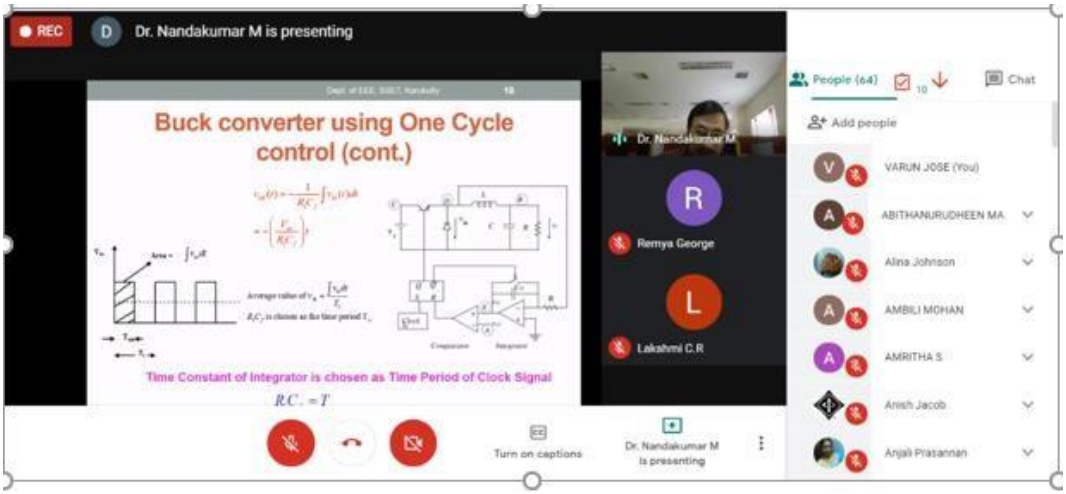
Assessment Pattern

Two assignments of 15 marks each

Final Assessment exam -50 marks, passed with a minimum of 20 marks

Viva-20 marks

Certificates will be awarded to students who completed the course with a minimum of 40 marks (total score) and a minimum of 20 marks in final exam. A minimum of 75% attendance is required.

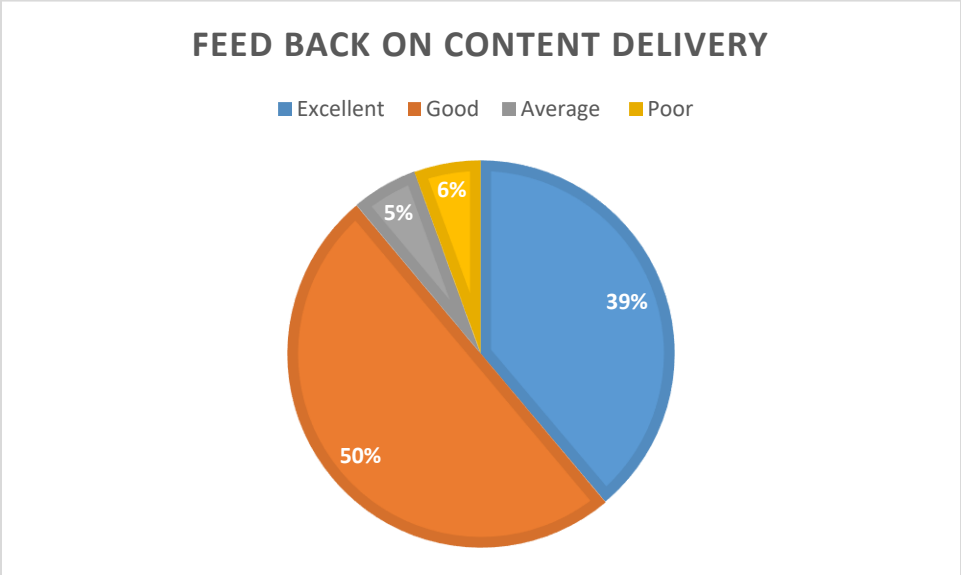


Screenshot of the add on course on System Modelling and Control methods (13/7/2020-17/7/2020)

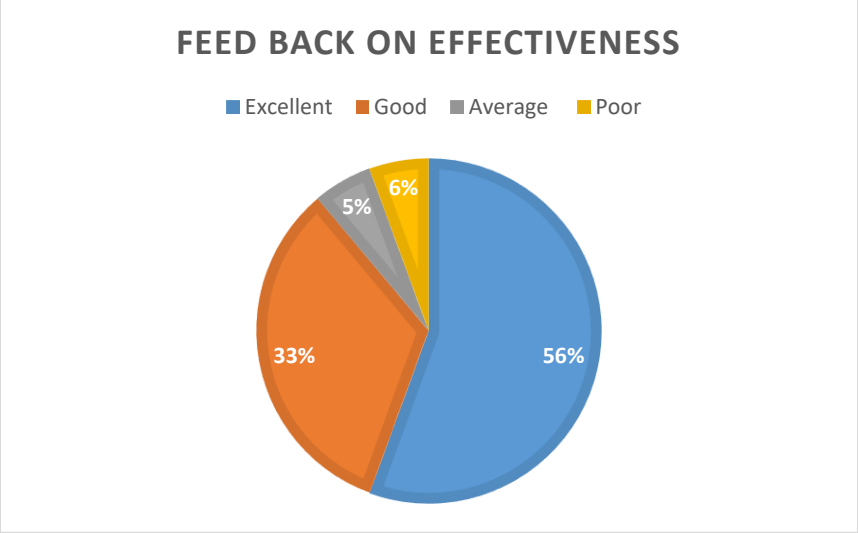
Course Coordinator HOD Principal

Feedback

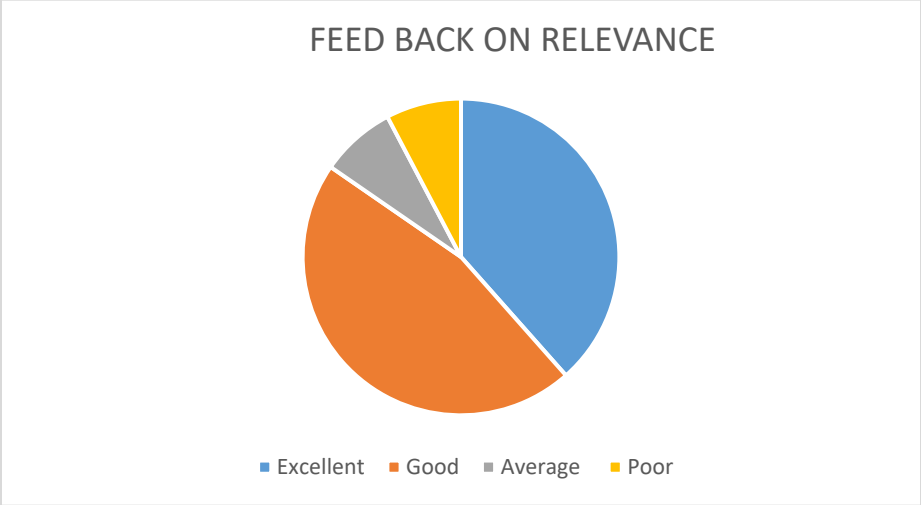
1. Feedback on Content delivery



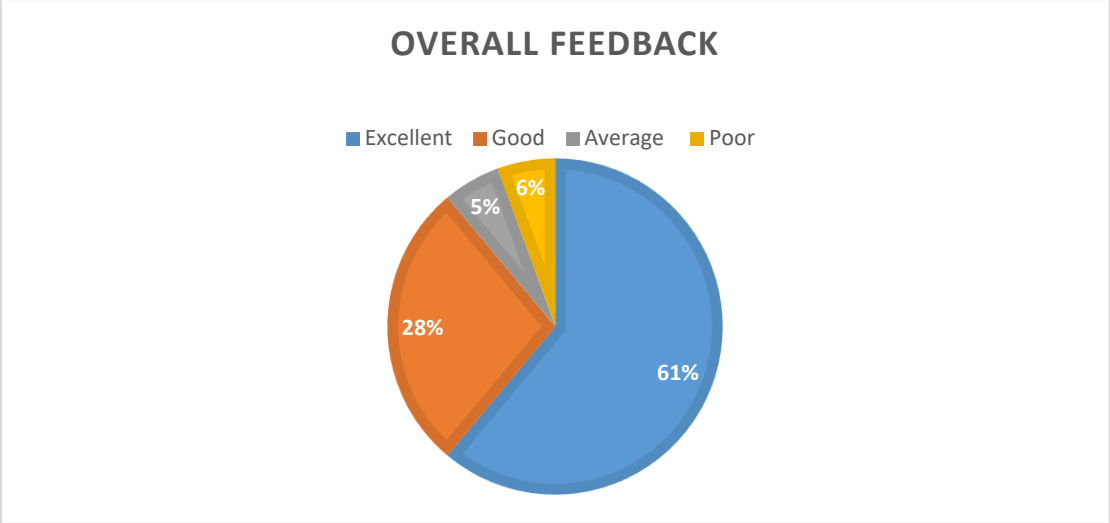
2. Feedback on Effectiveness



3. Feedback on Relevance



4. Overall Feedback



Course Summary

ADD ON COURSE C-Programming Language 1.0 (30 hours)

Summary

This add on course mainly focused on C programming language. Various topics in C Language were discussed with example programs. This interactive session ignited the inquisitiveness of participants and the informative add on course culminated with a vote of thanks from the resource persons and feedback from the participants. 314 students registered for the course and 314 students completed the course

Assessment Pattern

Two assignments of 15 marks each

Final Assessment exam -50 marks, passed with a minimum of 20 marks

Viva-20 marks

Certificates will be awarded to students who completed the course with a minimum of 40 marks

(total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate.

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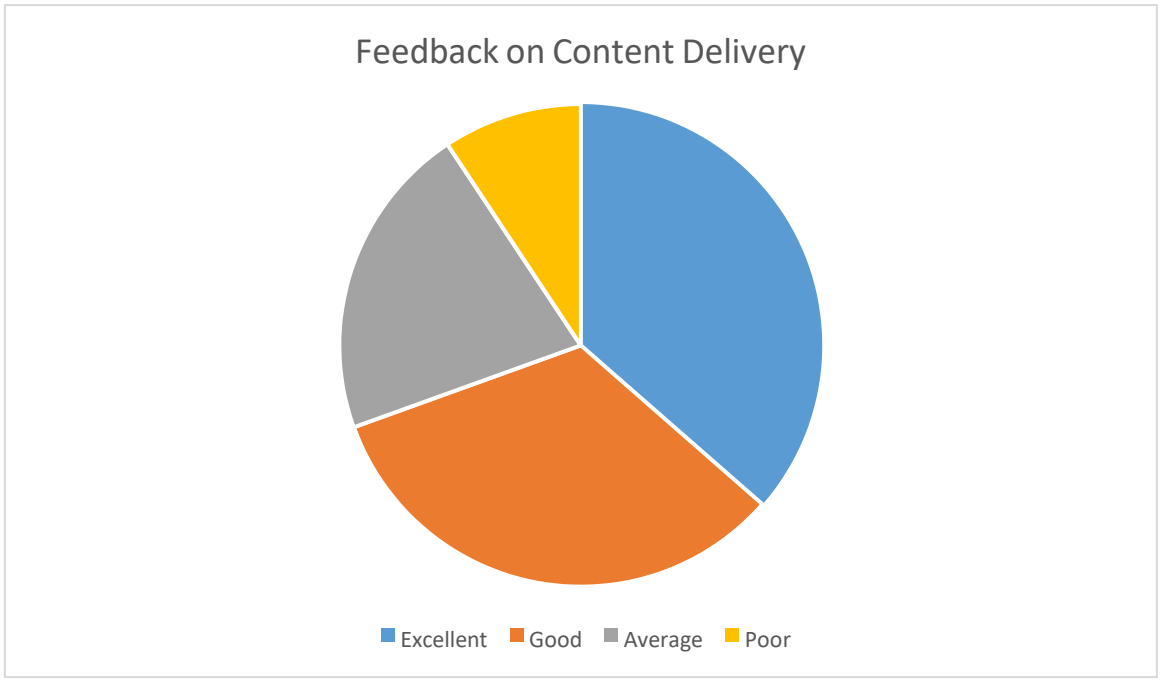
Screenshot of add on course on C programming 1.0 (5/4/21-9/4/21)

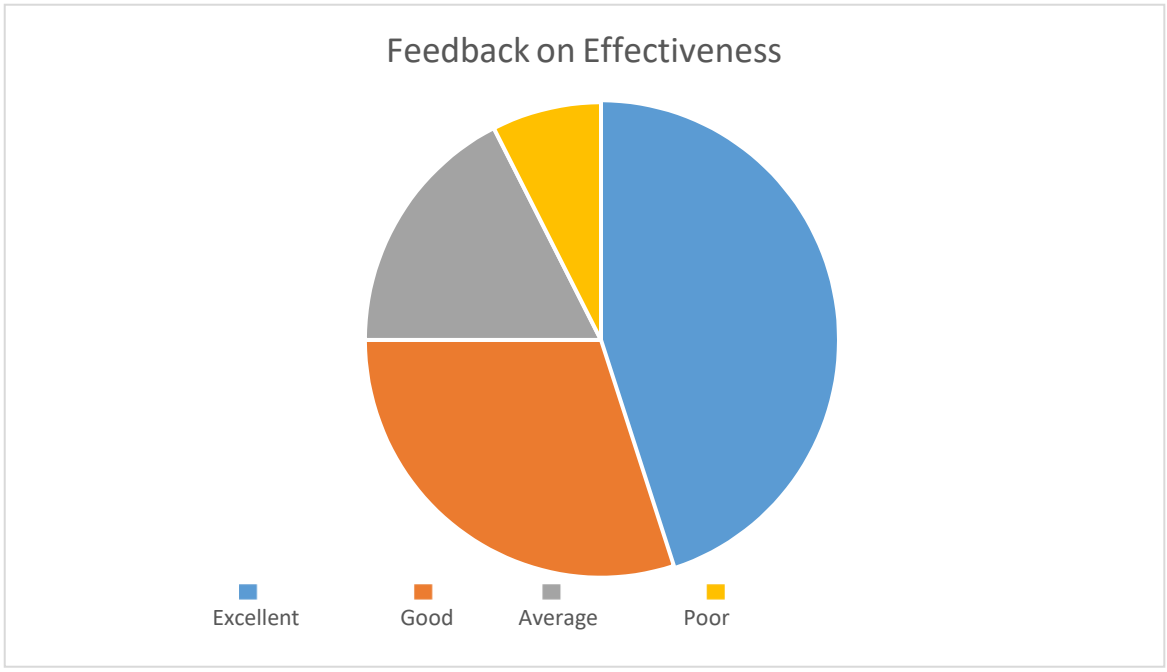
Course Coordinator HOD Principal

Feedback

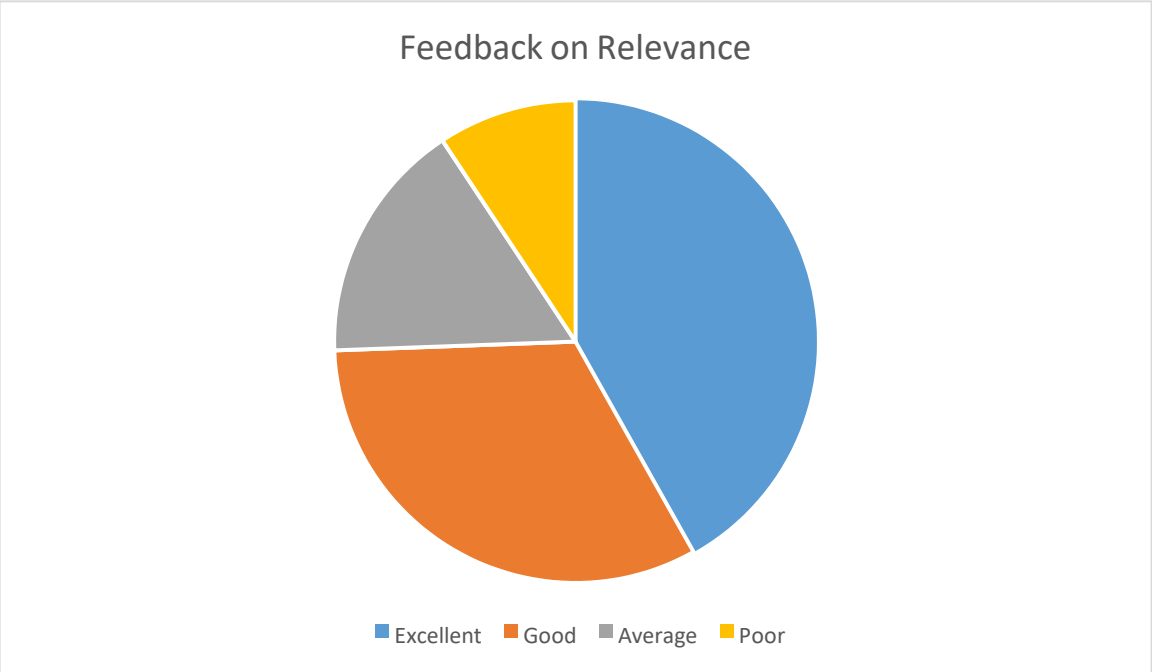
1. Feedback on Content delivery



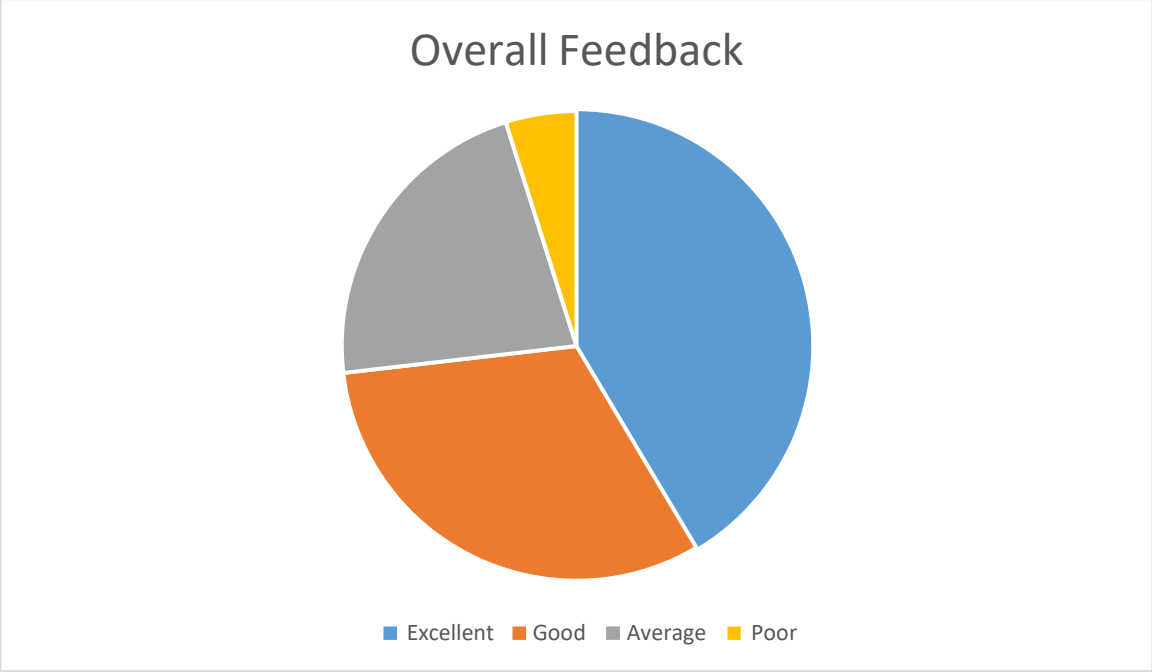
2. Feedback on Effectiveness



3. Feedback on Relevance



4. Overall Feedback



Course Coordinator

HOD

Principal

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM

DEPARTMENT OF MECHANICAL ENGINEERING

FEEDBACK FORM

EVENT – ADD-ON COURSE

DATE – 21/04/22 – 02/05/22 11-04-2022 to 23-04-2022

NAME OF STUDENT Ashwin T S

DEPARTMENT Mechanical Engineering

SEMESTER Six BATCH 2019-2023

TOPIC- Hands-on training in CNC Lathe Smartturn

1. The instructors were knowledgeable, organized and effective in his/her presentation.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
2. The information provided was new to me.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
3. The speaker provided information useful for my career development.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
4. The course included use of modern engineering/technology to produce quality products.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
5. Participation and interaction of the students were encouraged during the session.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
6. The course promoted the students to engage in life-long learning in the context of technological changes in current industries.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
7. The course helped the students to function effectively as an individual in a team environment.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree
8. The course covered contents encouraging innovations and technologies for the benefit of the society and environment.
   ☑ Agree ☐ Disagree ☐ Neither agree or disagree

9. The instructor provided a platform to enhance the creativity level of students to innovate and manage new projects.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

10. The course included application of basic engineering knowledge to analyse problems and design components to meet the specific needs of society.

☑ Agree ☐ Disagree ☐ Neither agree or disagree

11. Comment on the overall exposure gained from the course.

The session was very helpful in identifying the importance of CNC in industrial applications. Looking forward for more sessions like this, if possible provide company certification courses.

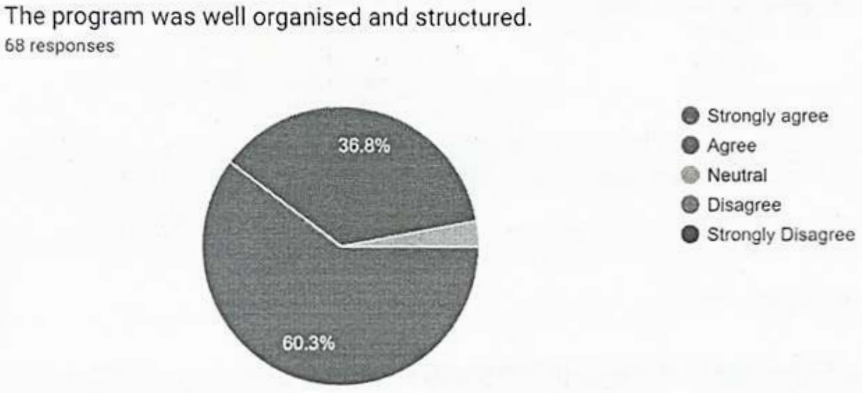
Ab.

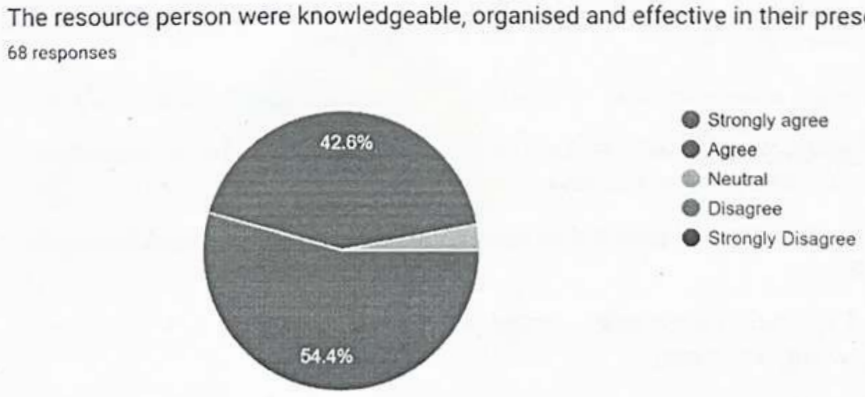
Day 4 (AN session) - Role of IPR in product development - Industrial design, copyright, patents, criteria for patentability

Day 5 (FN session) - Environmental laws and disclosure regulations - Environment acts and protocols, Environmental legislations for product development

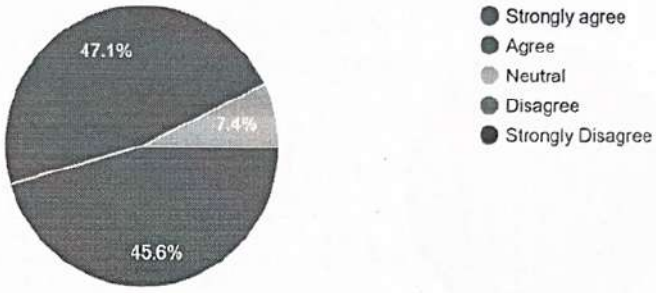
Day 6 (FN session) - Product development using waste material - An activity was given to the students to construct a working model of Tomlinson surface meter using waste materials available at their home and present the same. The core intension was to observe the type of waste materials produced at their homes and how they can utilize these materials to develop something useful. Moreover, the presentation on the working of model would add on to their communication skills.

A student's feedback was taken on the training program at the end of the last day, the overview is shown below. The feedback on the workshop was taken from all the registered students, out of which 68 responded.

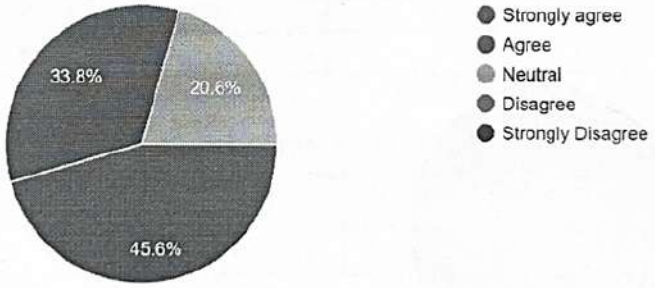




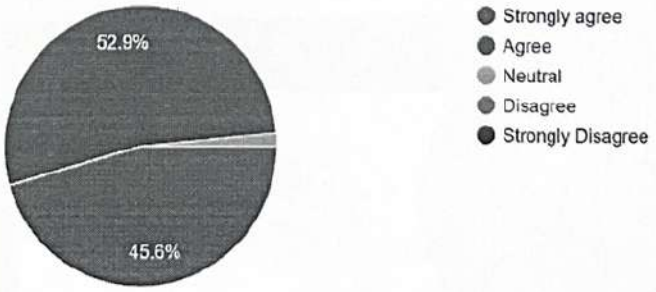
The course met its objectives and provided information useful for my career development.
68 responses



Participation and interaction of the students were encouraged during the sessions.
68 responses

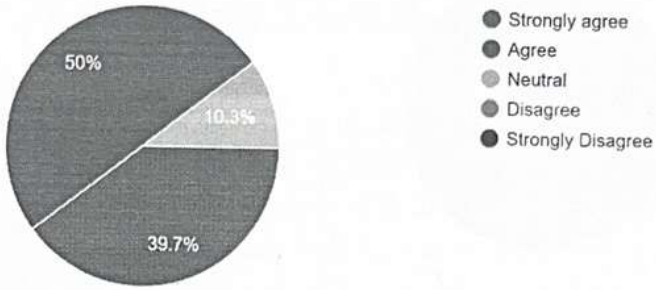


The course covered contents to understand the impact of professional engineering solutions in environmental contexts and the need for sustainable development .
68 responses



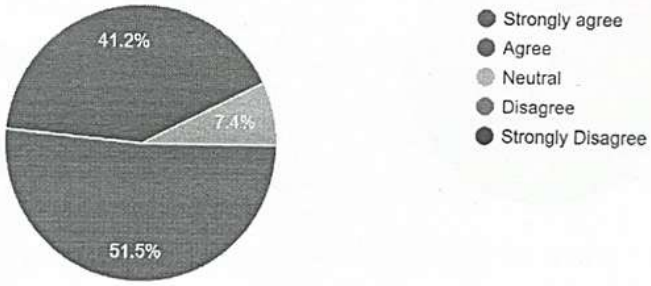
The course provided a platform to enhance the creativity level of students to innovate and manage new projects.

68 responses



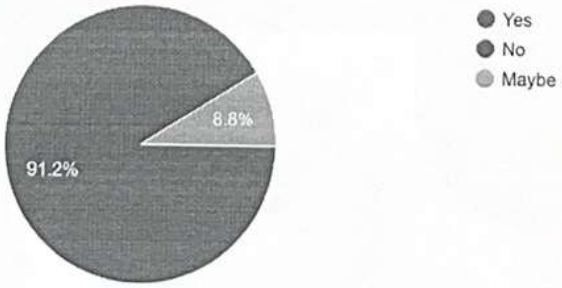
The course provided a platform to design and develop solutions to meet specific needs with appropriate environmental and ethical considerations.

68 responses



Would you like to attend similar events in the future?

68 responses



The course aided in the achievement of various programme outcomes, the summary of which is given in the table below. The weightage level of PO is based on the following criteria:

- Level 3 - Percentage of students agreed is greater than 90%
- Level 2 - Percentage of students agreed is greater than 80%
- Level 1 - Percentage of students agreed is greater than 70%

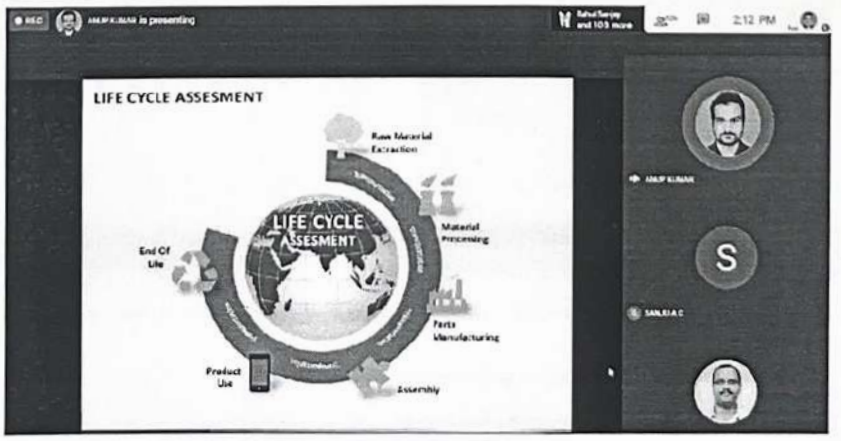
Question no.	Percentage of students agreed	Relevance to PO	PO level
1	97	-	
2	97	-	
3	93	12	3
4	79	9,10	1.9
5	98	7	3
6	90	11	3
7	93	3,7,8	3
8	91	-	

Overall PO attainment of the workshop is given in the below table.

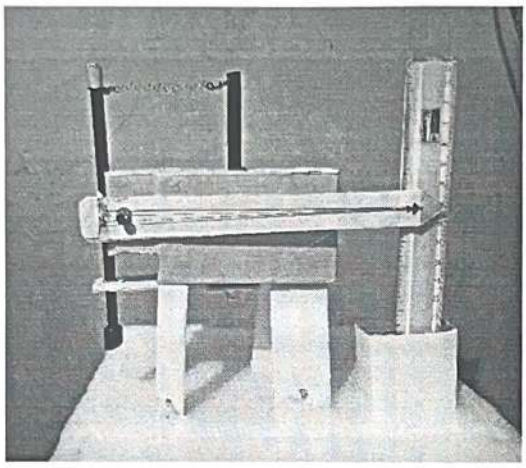
PO	1	2	3	4	5	6	7	8	9	10	11	12
Attainment	-	-	3	-	-	-	3	3	1.9	1.9	3	3

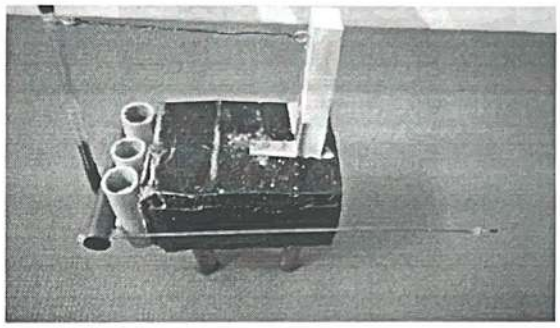
Common comments/suggestions made by students are summarized below.

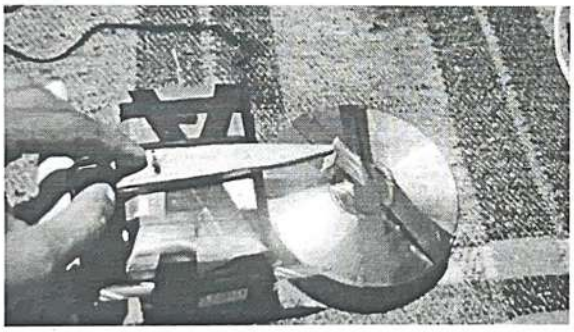
- Good sessions and knowledgeable speakers
- Excellent examples and demonstration of the content using the examples.
- Good topics and presentation
- Need 10 min break after every one hour



Students participating in the Add on course on Sustainable product design and development (27/7/20-1/8/20)







Students participating in the Add on course on Sustainable product design and development (27/7/20-1/8/20)

Faculty coordinator

Dr. Venu P

HOD, MED

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

Vidya Nagar, Palissery, Karukutty, Kerala 683576

Add on /Certificate/Value added programs and Online MOOC programs like NPTEL, Swayam

2019-20

Sl. No	Name of the Add on /Certificate/Value added programs and Online MOOC programs like NPTEL, Swayam	Course code
1	Introduction to swarm robotics	CIR1920S01
2	Get introduced with flavours of programming with C++	CGC1920S02
3	Software Engineering using Agile method	CSM1920S03
4	Blockchain enabling revolution	CBR1920S04
5	Plastic Waste Management	NPT1920S01

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PRINCIPAL
SCMS SCHOOL OF ENGINEERING & TECHNOLOGY
VIDYANAGAR, PALLISSERY, KARUKUTTY
ERNAKULAM, KERALA-683 576

ADD ON COURSE ON "INTRODUCTION TO SWARM ROBOTICS" (30 Hours)

Course Report

A five-day course on Introduction to swarm robotics was organized for ECE students by Department of Electronics and Communication Engineering in association with IEDC SSET under the coordination of Ms. Parvathi R (Asst. Professor, ECE Dept.). This Five-day course was conducted from 3rd to 7th March 2020 in online mode. Sixty-Nine students registered and participated for this course and got certified for the same. The contents of this course were designed to meet the gap in syllabus for the subject ECT 342 Embedded Systems. 69 students participated in the course and 69 students completed the course successfully meeting the required criteria.

coordinator

HOD

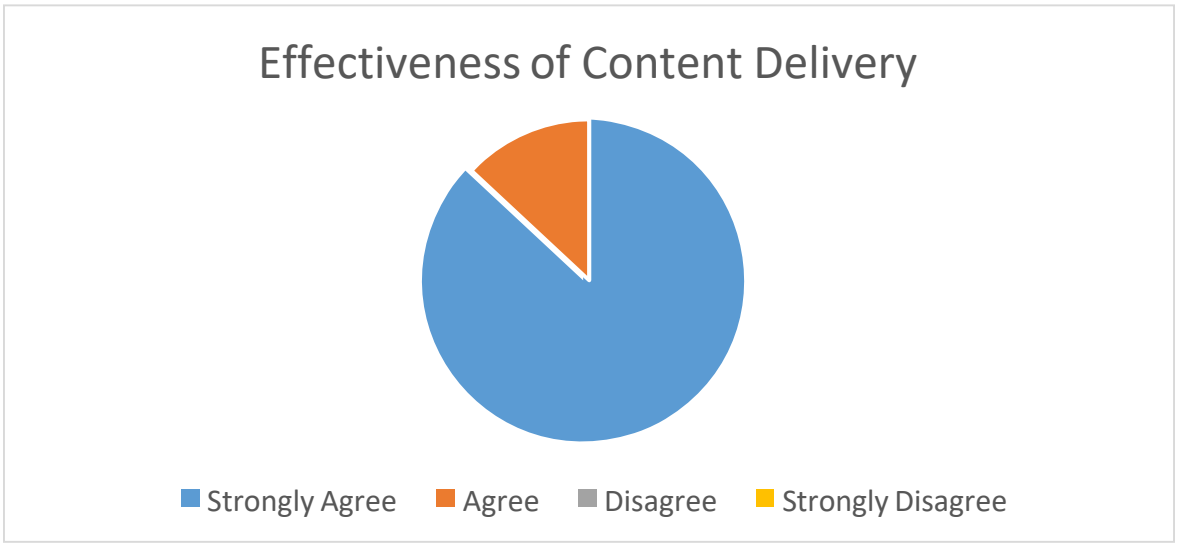
PRINCIPAL

Assessment Pattern

Two assignments of 15 marks each
Final Assessment exam -50 marks, passed with a minimum of 20 marks
Viva-20 marks
Certificates will be awarded to students who completed the course with a minimum of 40 marks
(total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate.

Feedback

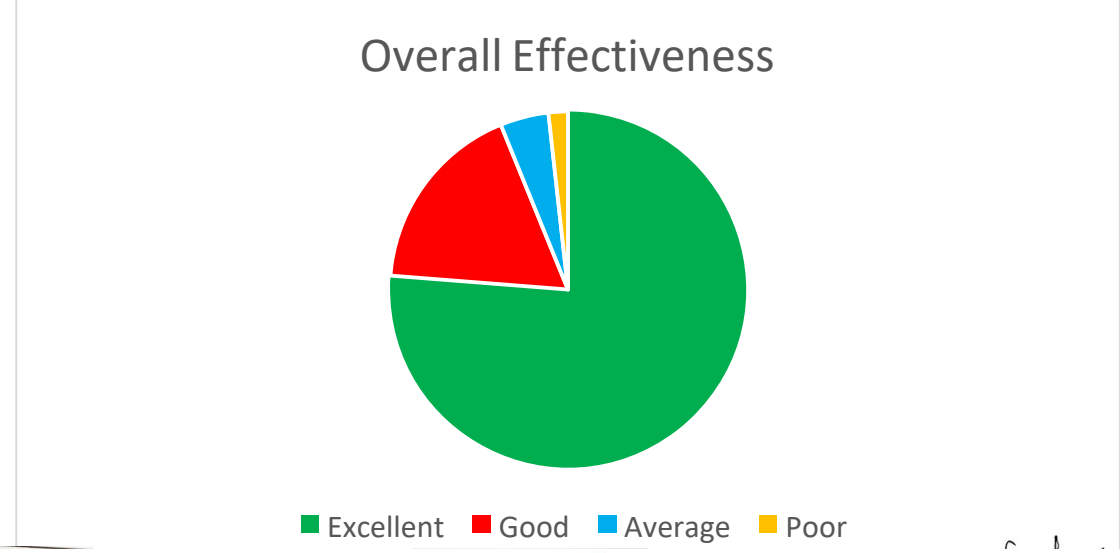
1. Feedback on Content delivery



2. Feedback on Knowledge of Resource Person

3. Feedback on Effectiveness of Hands on Session

4. Overall Feedback



Course Coordinator **HOD** **Principal**

Course Summary

GET INTRODUCED WITH FLAVOURS OF PROGRAMMING THROUGH C++

ADD ON COURSE (30 hrs)

Summary

This add on course mainly focused on the object oriented programming. For that more practice questions in C++ programming based on placement are discussed in the course. This interactive session ignited the inquisitiveness of participants and the informative course culminated with a vote of thanks from the resource persons and feedback from the participants. The course was conducted from 14-1-2020-17-1-2020.In this course a total of 244 students participated and got certified meeting the required criteria.

Assessment Pattern

Two assignments of 15 marks each
Final Assessment exam -50 marks, passed with a minimum of 20 marks
Viva-20 marks
Certificates will be awarded to students who completed the course with a minimum of 40 marks (total score) and a minimum of 20 marks in final exam.

A minimum of 75% attendance is mandatory for the course

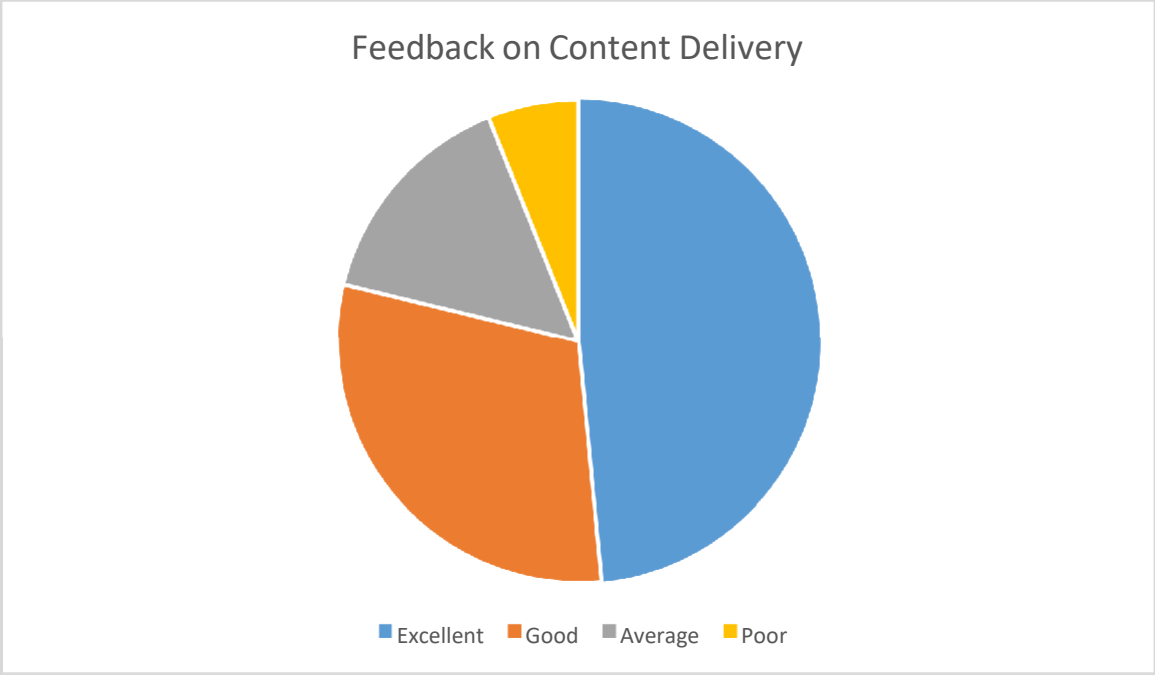
Course Coordinator

HOD

Principal

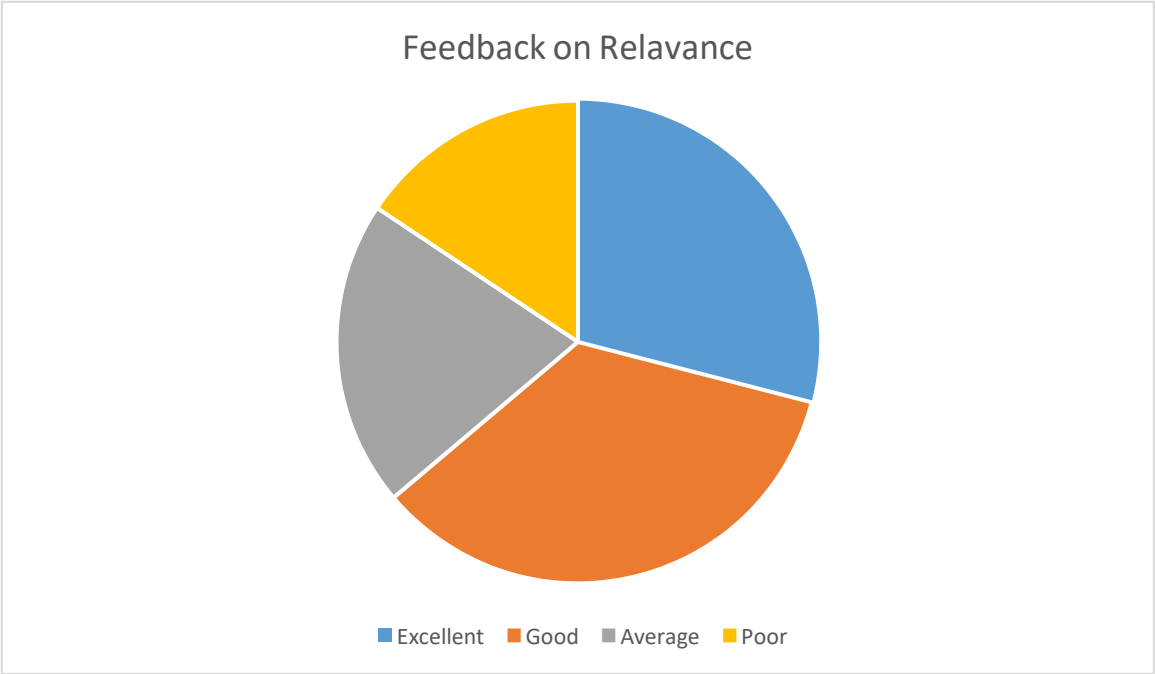
Feedback

1. Feedback on Content delivery



2. Feedback on Effectiveness

3. Feedback on Relevance



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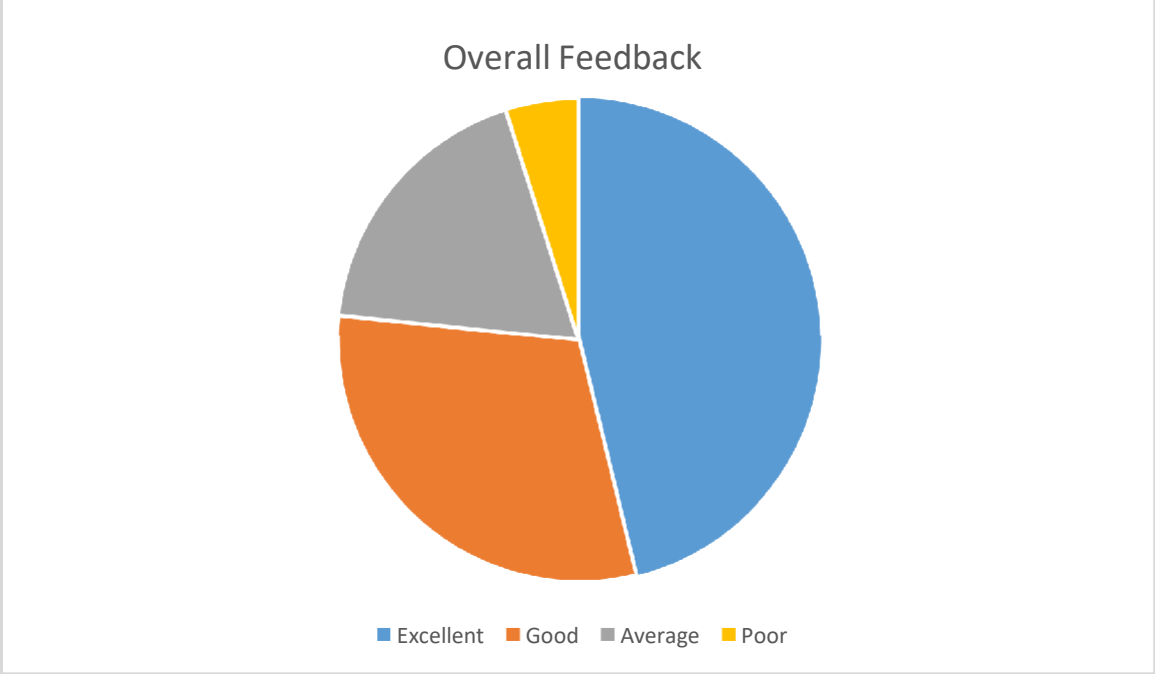


Course Coordinator HOD Principal

Course Summary

Add on course on Software Engineering using Agile Method: (30 hours)

Summary

This add on course mainly focused on Software Engineering using Agile Method. Various topics in Software Engineering using Agile Method were discussed with examples. This interactive session ignited the inquisitiveness of participants and the informative course culminated with a vote of thanks from the resource persons and feedback from the participants. The course was conducted from 19-08-2019 to 23-08-2019.In this course a total of 314 students participated and got certified.

Assessment Pattern

Two assignments of 15 marks each
Final Assessment exam -50 marks, passed with a minimum of 20 marks
Viva-20 marks
Certificates will be awarded to students who completed the course with a minimum of 40 marks(total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate.

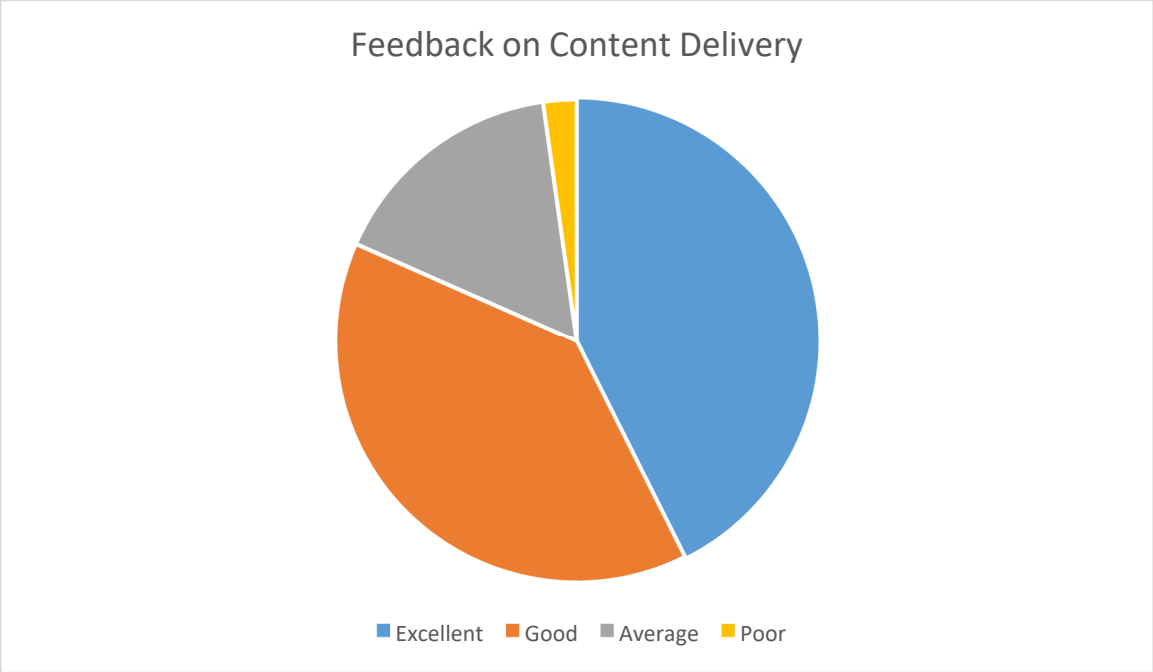
Coordinator

HOD

PRINCIPAL

Feedback

1. Feedback on Content delivery



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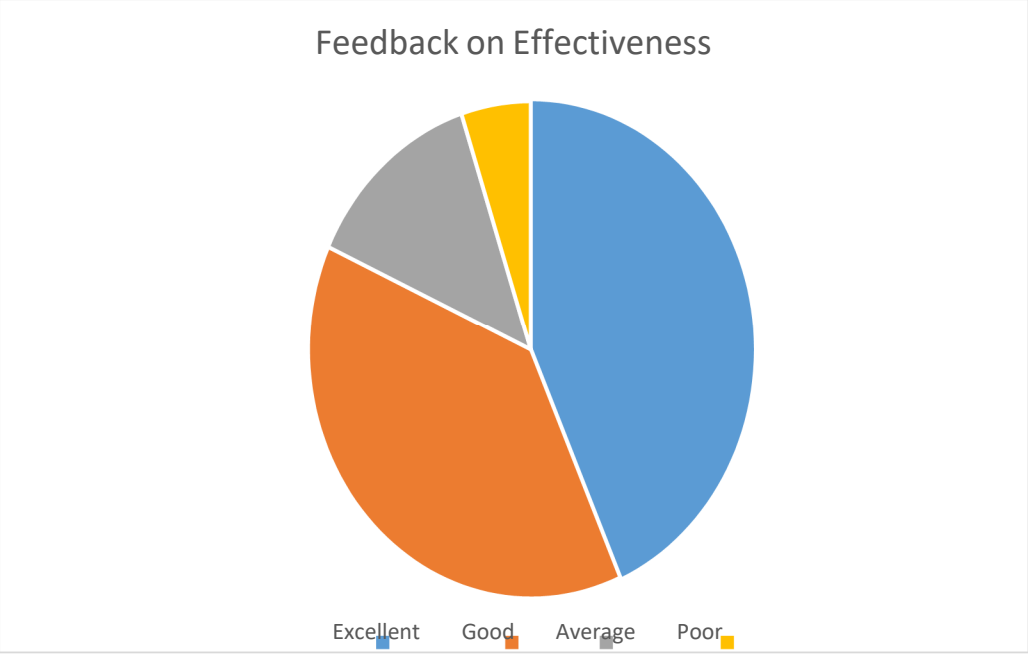

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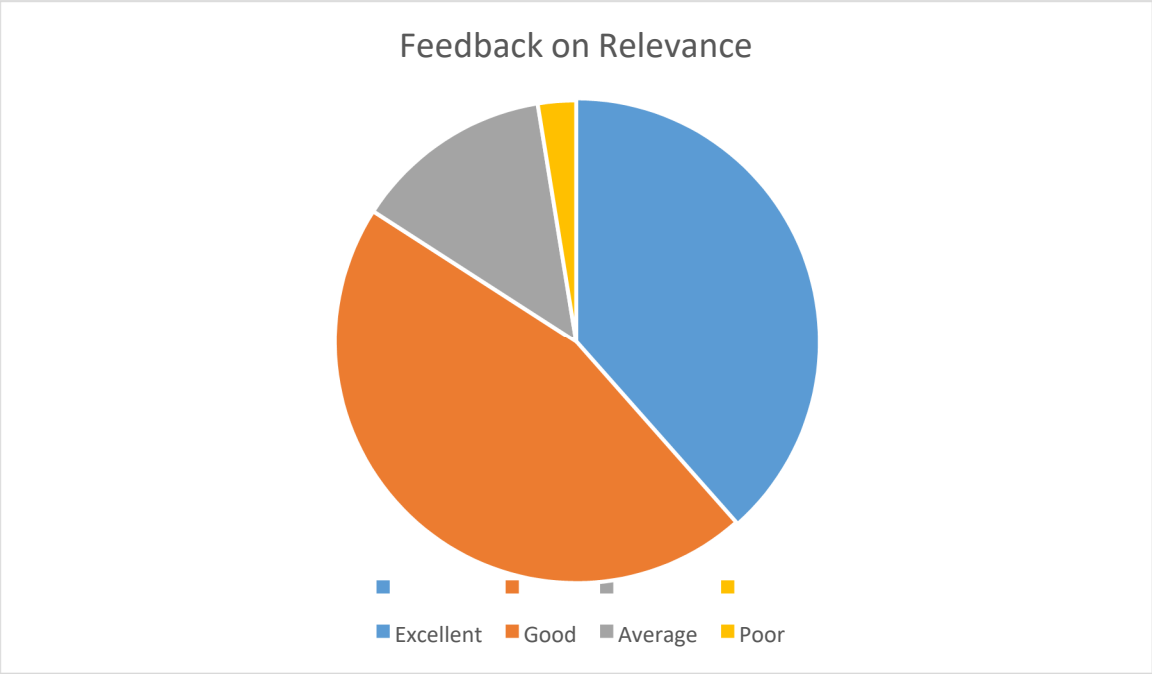
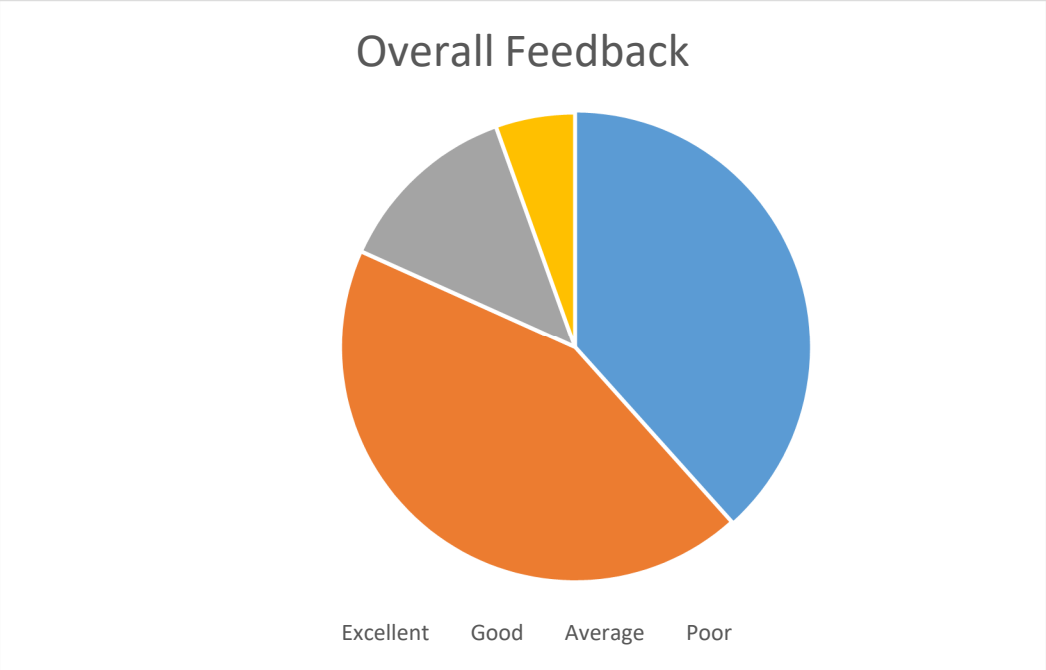


4. Overall Feedback



Course Summary

Block chain enabling revolution
Add on Course (30 hrs)

This course mainly focused on the concept of block chain. For that more applications are delivered in the course. This interactive session ignited the inquisitiveness of participants and the informative works hop culminated with a vote of thanks from the resource persons and feedback from the participants. In this course a total of 186 students participated and all have successfully completed for the course.

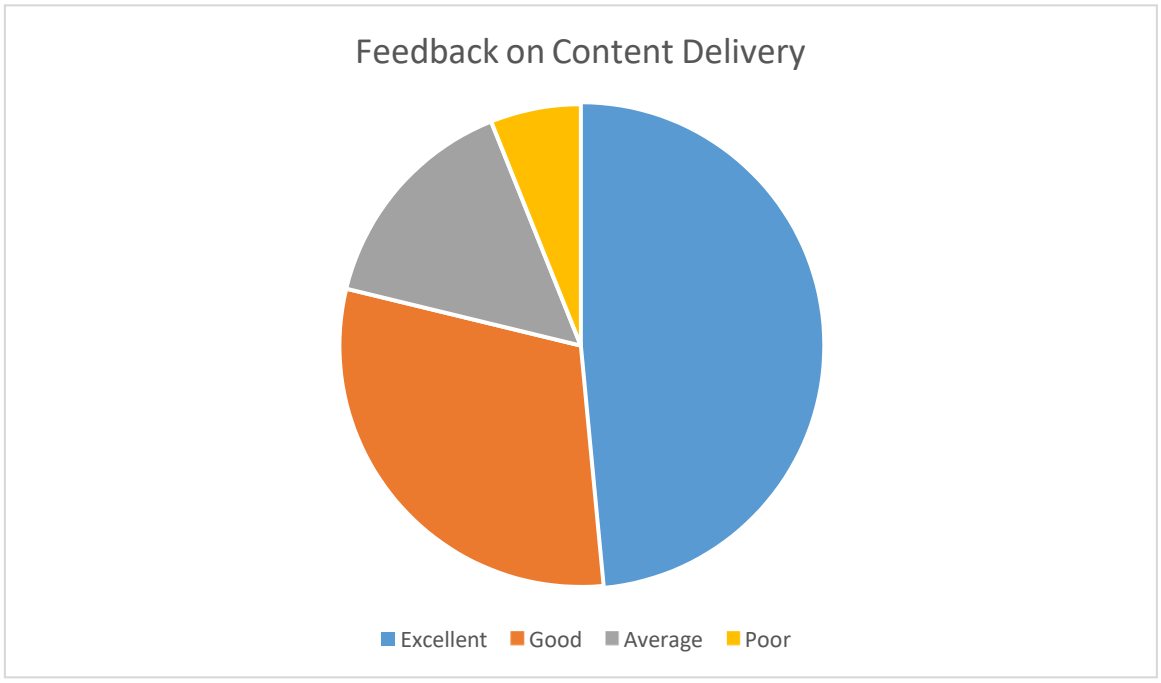
Assessment pattern

Two assignments of 15 marks each
Final Assessment exam - 50 marks passed with a minimum of 20 marks
Viva - 20 marks
Certificates will be awarded to students who complete the course with a minimum of 40 marks (total score) and a minimum of 20 marks in final exam. A minimum of 75% attendance is mandatory for the course completion.

Course Coordinator HOD Principal

Feedback

1. Feedback on Content delivery



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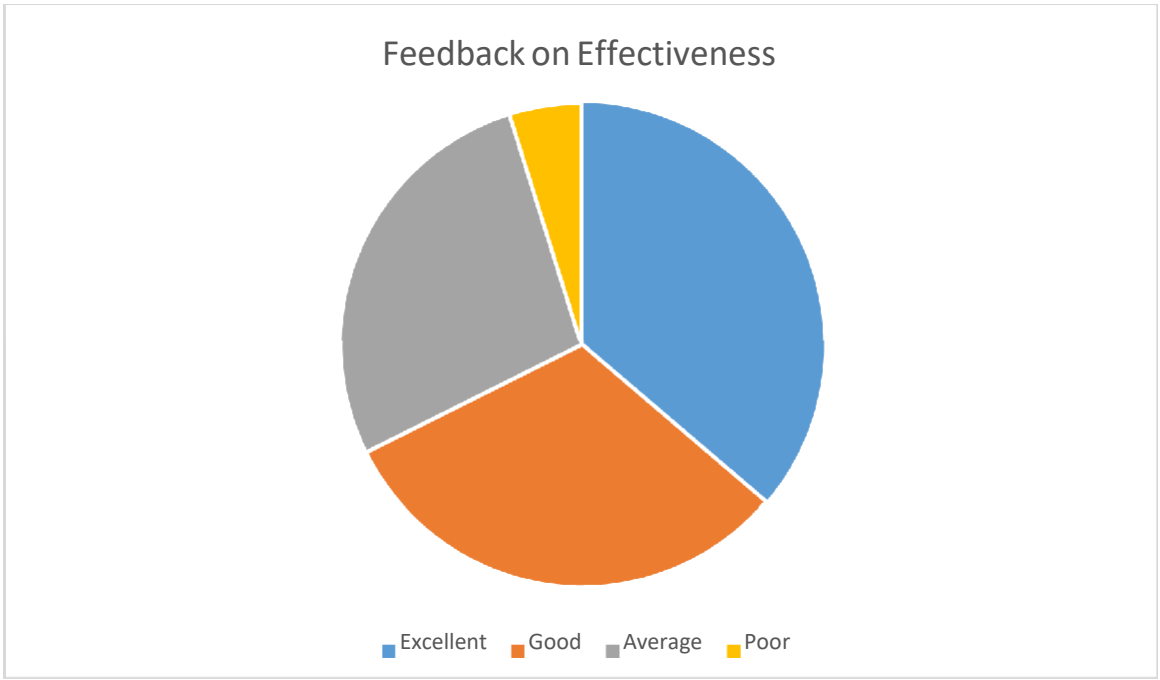

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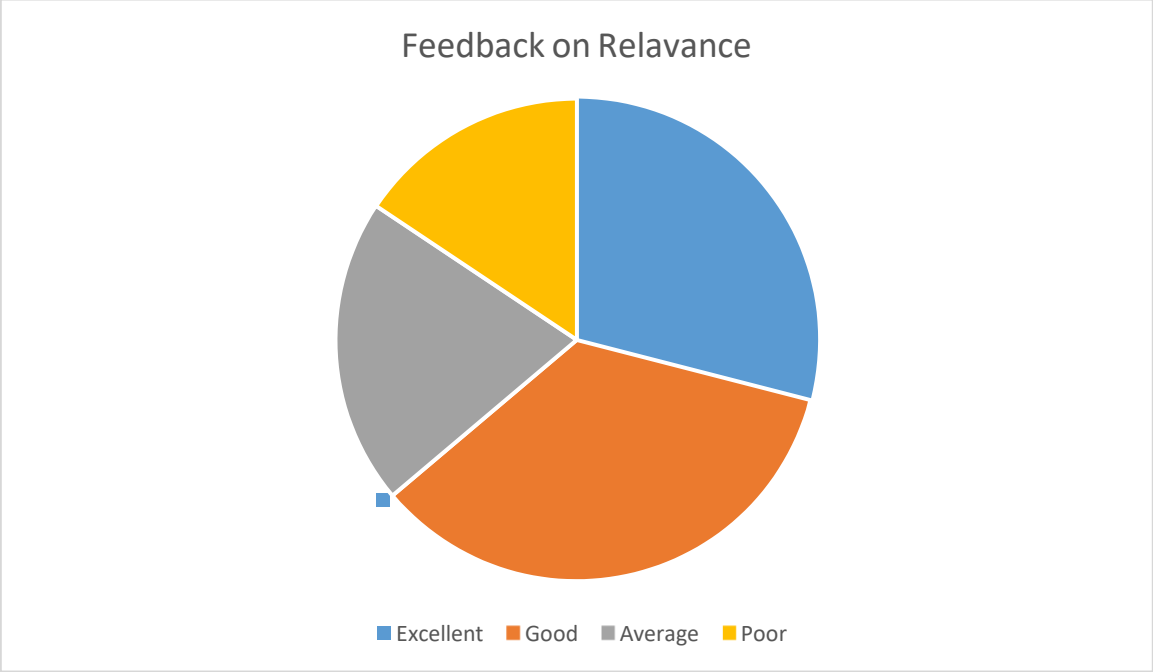

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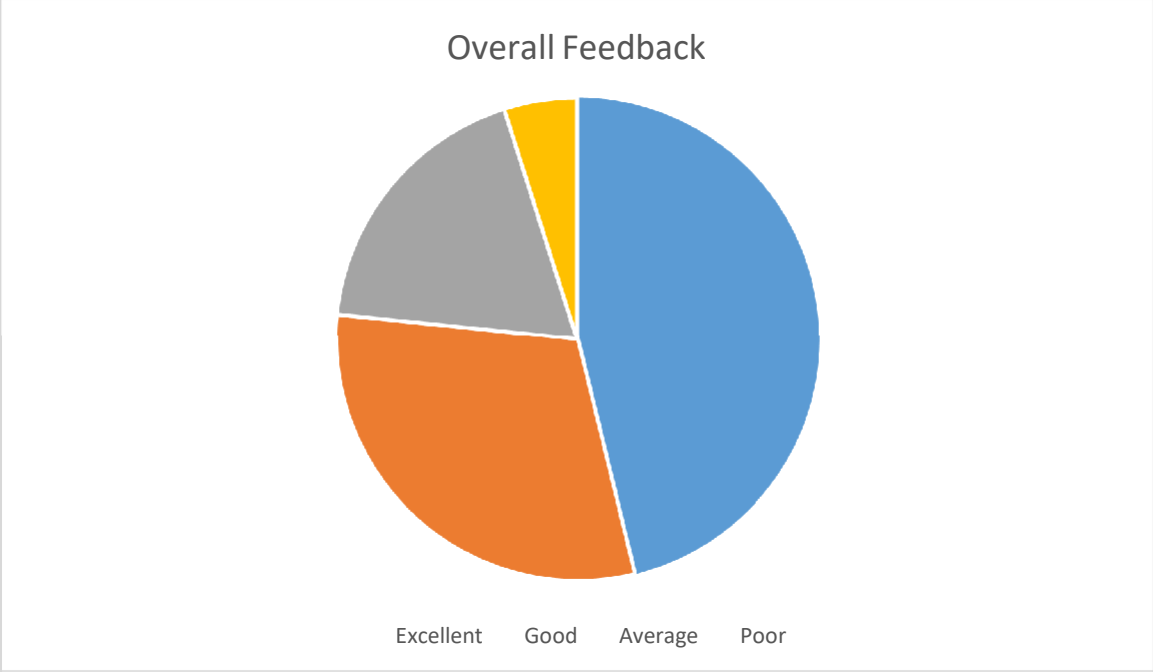


Course Coordinator HOD Principal

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

Vidya Nagar, Palissery, Karukutty, Kerala 683576

Add on /Certificate/Value added programs and Online MOOC programs like NPTEL, Swayam

2018-19

Sl. No	Name of the Add on /Certificate/Value added programs and Online MOOC programs like NPTEL, Swayam	Course code
1	Object Oriented Programming	COP1819S01
2	Android application development	CAD1819S02
3	Pathway to Engineering Success: Personality Development	CPD1819S03
4	Civil Engineering Softwares	CCS1819S04
5	Wastewater treatment and Recycling	NPT1819S01

SCMS SCHOOL OF ENGINEERING & TECHNOLOGY KARUKUTTY ERNAKULAM 683 576

PRINCIPAL
SCMS SCHOOL OF ENGINEERING & TECHNOLOGY
VIDYANAGAR, PALLISSERY, KARUKUTTY
ERNAKULAM, KERALA-683 576

Course Summary

Object oriented Programming

Add on course (30 hours)

Summary

This add on course mainly focused on giving training to students about an insight in Object Oriented Concepts. 186 students enrolled for the course and 186 students completed the course after meeting the requirements for course completion. For that more practice questions in java programming based on placement are discussed in the course. This interactive session ignited the inquisitiveness of participants and the informative course culminated with a vote of thanks from the resource persons and feedback from the participants.

Assessment Pattern

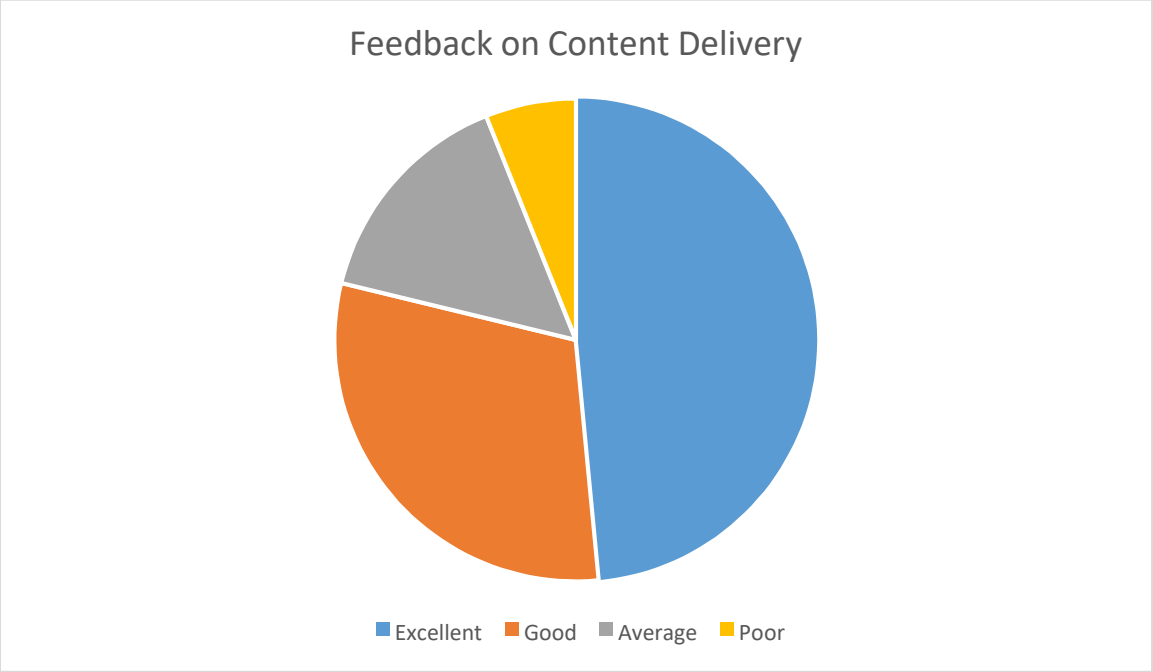
Two assignments of 15 marks each
Final Assessment exam -50 marks, passed with a minimum of 20 marks
Viva-20 marks
Certificates will be awarded to students who completed the course with a minimum of 40 marks (total score) and a minimum of 20 marks in final exam

Course Coordinator HOD Principal

Object oriented Programming Programming

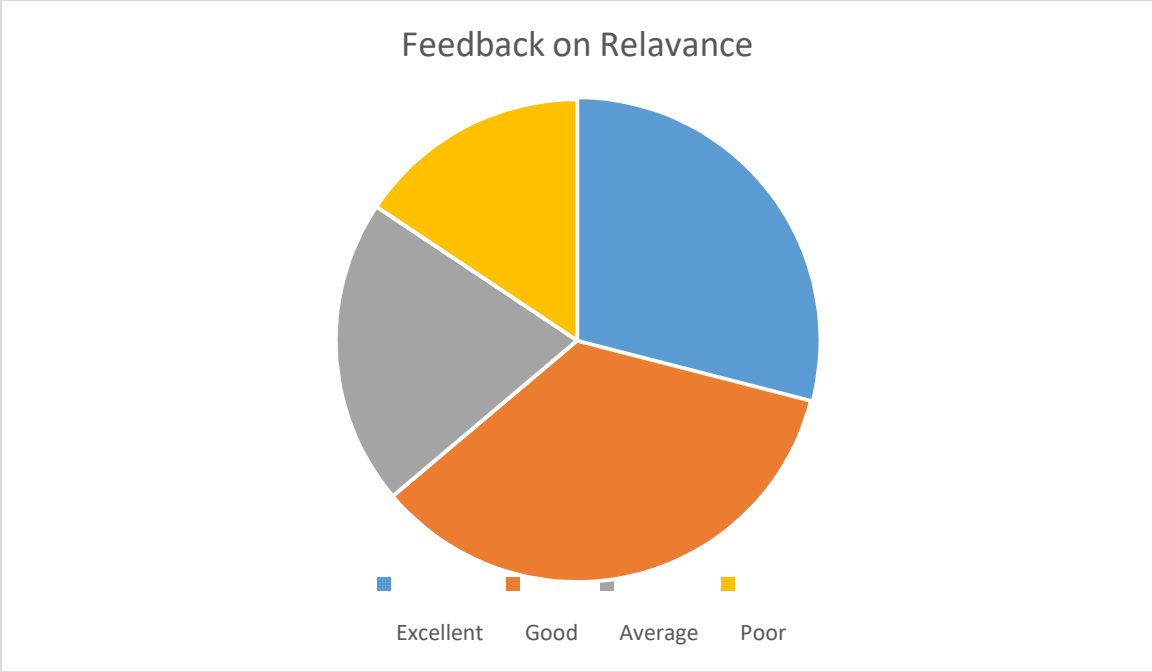
Feedback

1. Feedback on Content delivery



2. Feedback on Effectiveness

3. Feedback on Relevance



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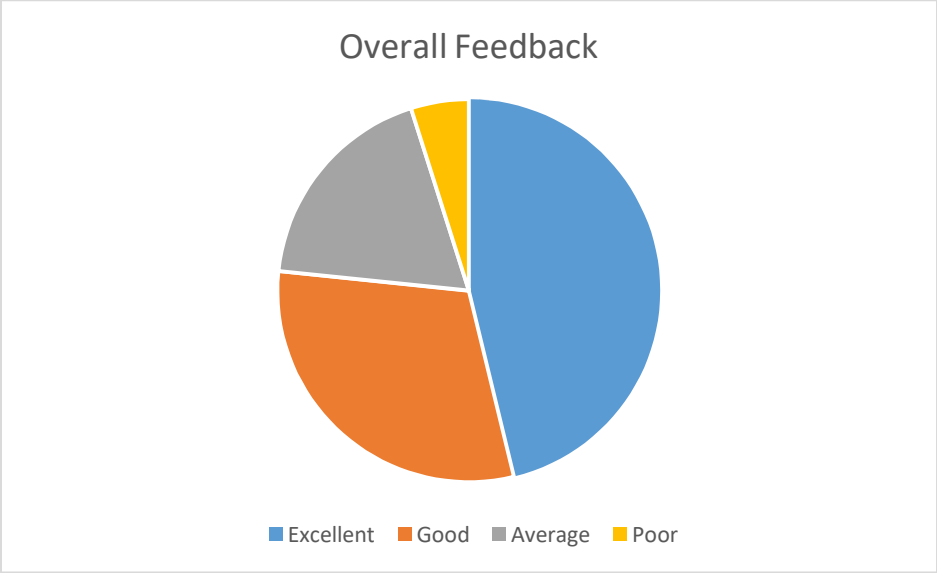


Course Coordinator

HOD

Principal

ADD ON COURSE ON
Android Application Development (30 hours)

Course Summary

This Add on Course mainly focused on placement training. For that more practice questions in android app development based on placement are discussed in the course This interactive session ignited the inquisitiveness of participants and the informative workshop culminated with a vote of thanks from the resource persons and feedback from the participants.
133 students registered for the course and 133 students completed the course after meeting the requirements for course completion.

Assessment Pattern

Two assignments of 15 marks each
Final Assessment exam -50 marks, passed with a minimum of 20 marks
Viva-20 marks
Certificates will be awarded to students who completed the course with a minimum of 40 marks (total score) and a minimum of 20 marks in final exam. Minimum 75% attendance is mandatory to get the certificate.

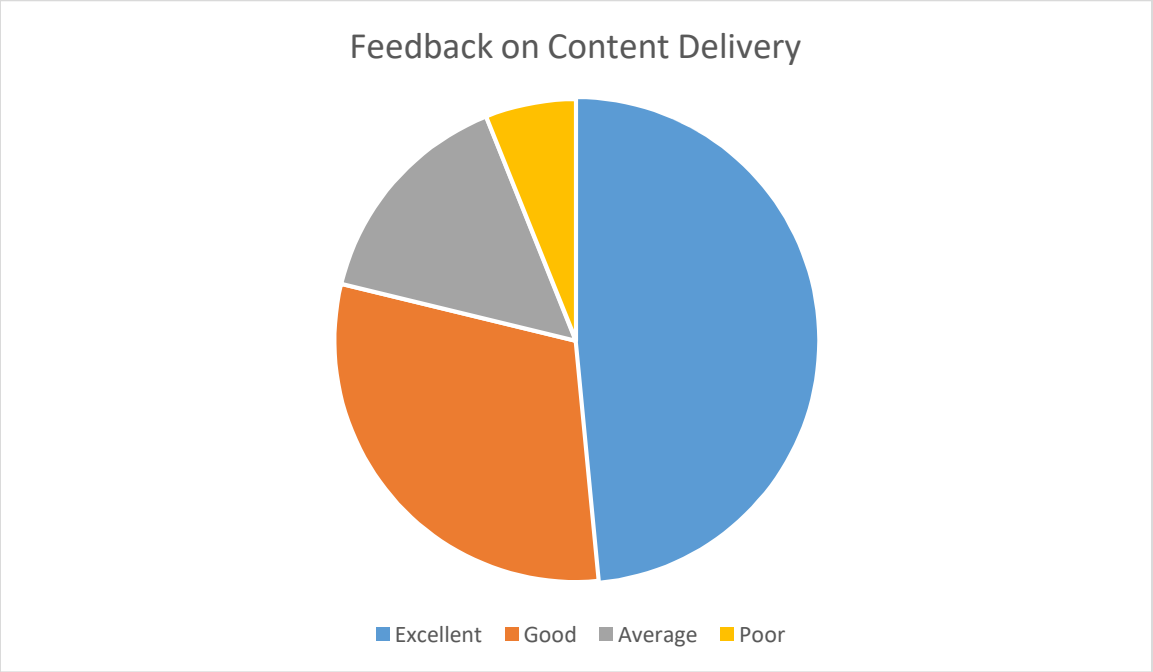
Course Coordinator HOD Principal

ADD ON COURSE ON Android-Programming

Feedback

Feedback

1. Feedback on Content delivery



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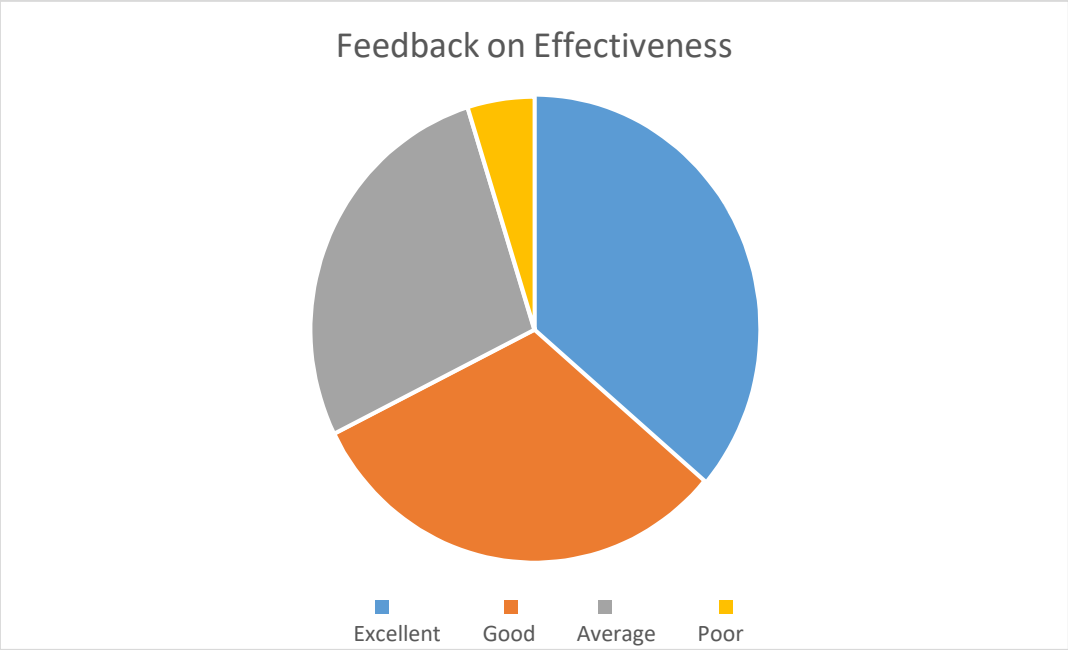

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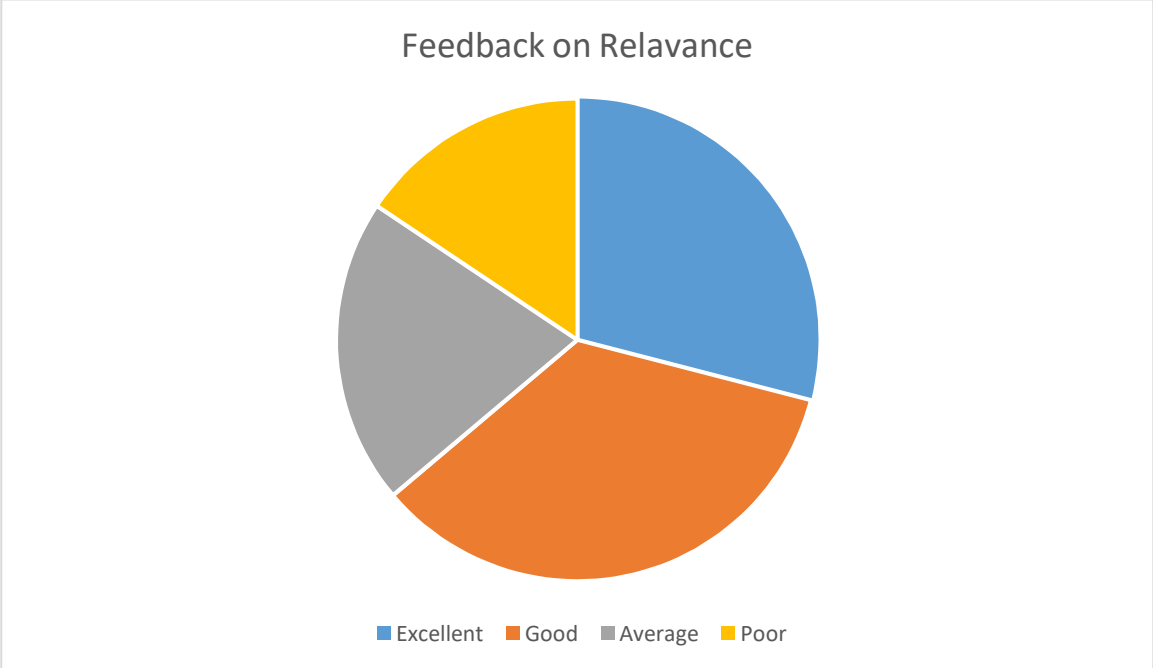

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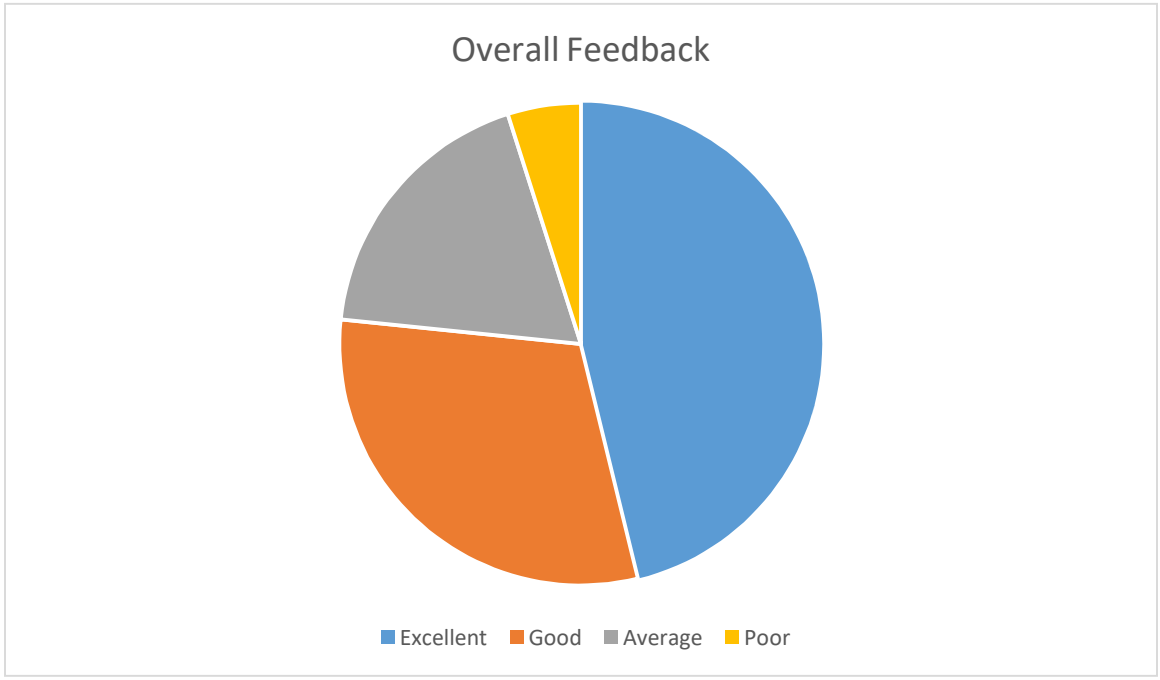


Course Coordinator

HOD

Principal

Course Summary

Value Added Course on

Pathway to Engineering Success: Personality Development

Summary (30 hrs)

Value added course was organized by Basic Sciences and Humanities department and Placement cell on 1/8/18,29/8/18,3/9/18, 4/9/18 and 13/9/18 and 331 of students successfullycompleted the course.

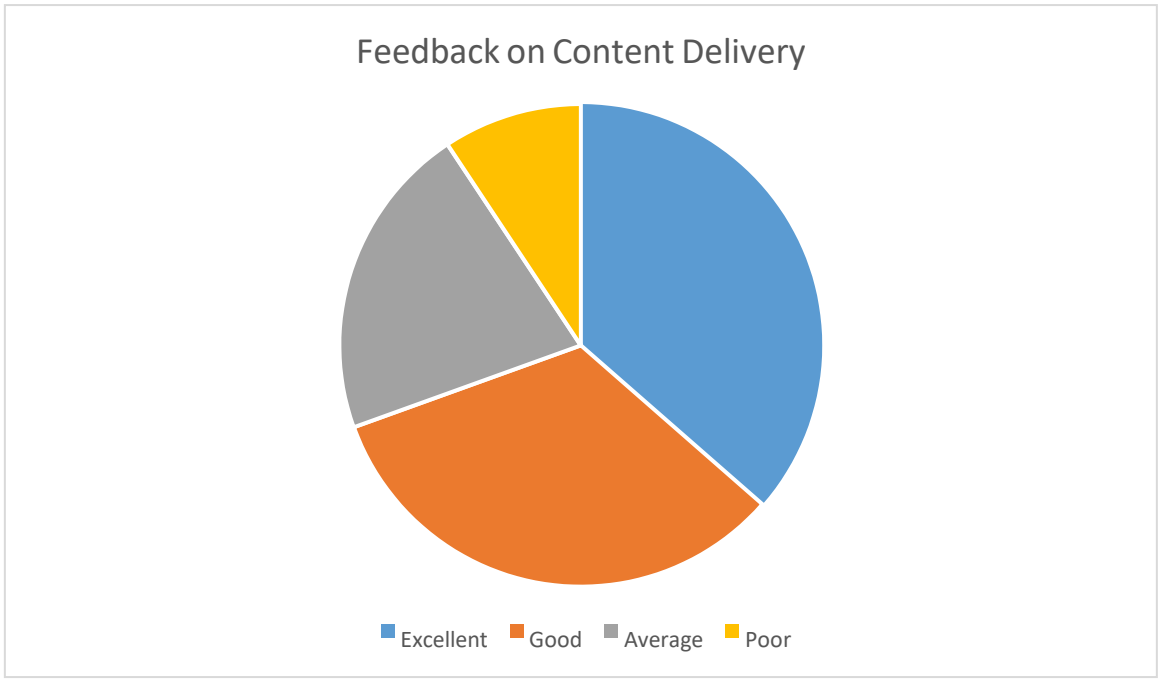
ASSESSMENT PATTERN

Two assignments of 15 marks each
Final Assessment exam -50 marks, passed with a minimum of 20 marks
Viva-20 marks
Certificates will be awarded to students who completed the course with a minimum of 40 marks (total score) and a minimum of 20 marks in final exam
Attendance of 75% is mandatory for the course

Course Coordinator | HOD | Principal

Feedback

1. Feedback on Content delivery



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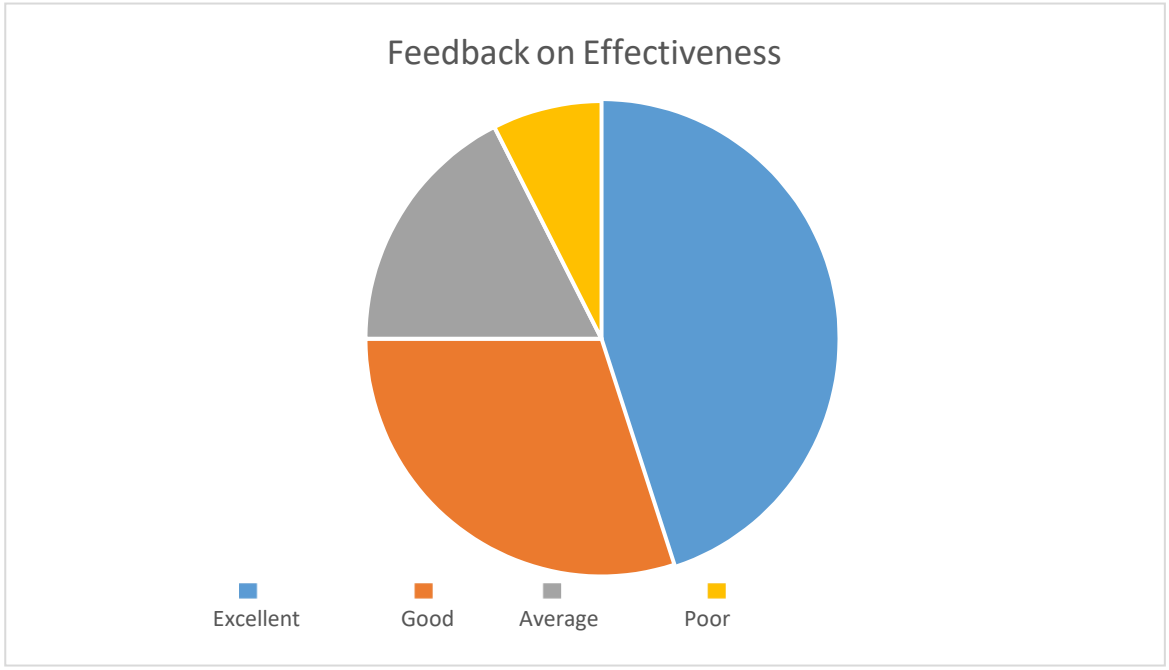
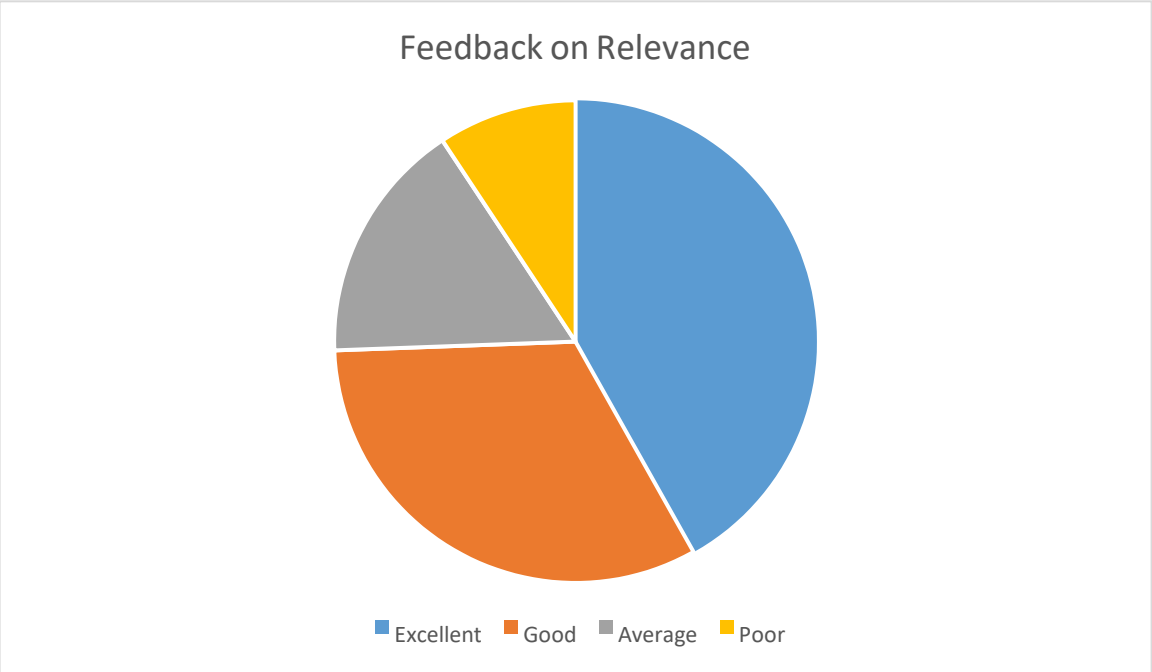


3. Feedback on Relevance



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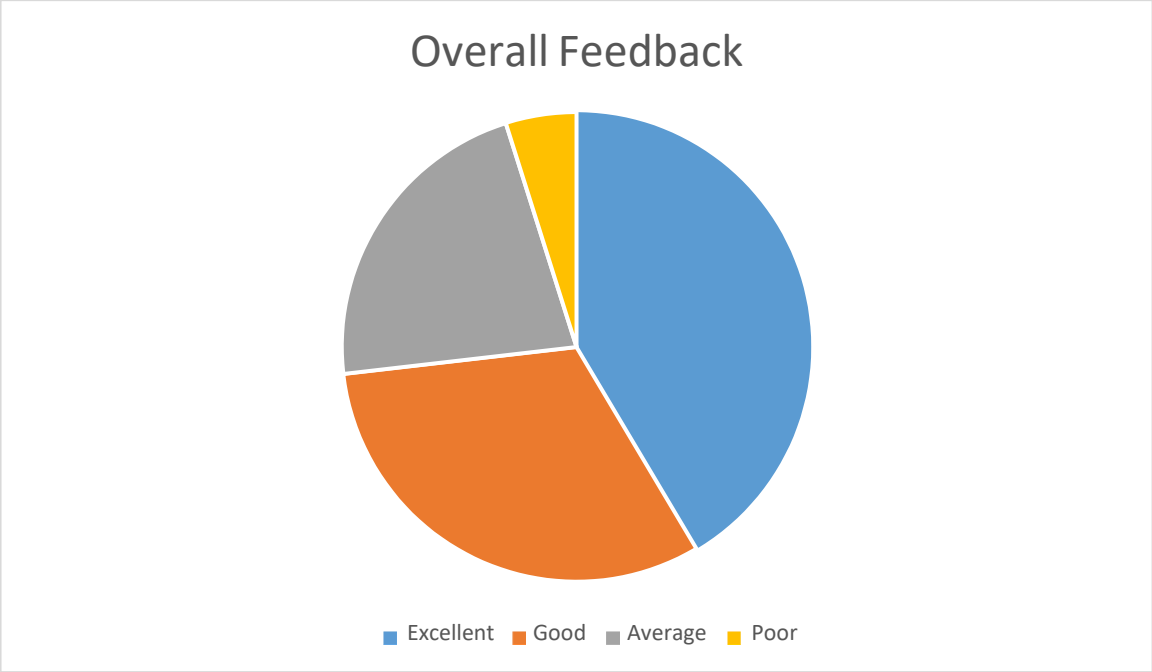


Course Coordinator HOD Principal

Course Summary

Add on course on Civil Engineering Softwares

30 Hours

Add On Course on "Civil Engineering Softwares" was organized by the Civil Engineering Department of SCMS School of Engineering & Technology on 18-2-2019 to 22-2-2019. This course provided opportunities to students to enrich their technical knowledge in the field of Civil Engineering Softwares and its applications. Three hundred and twenty-four students enrolled in the course and Three hundred and twenty-four students completed the course after meeting the required criteria. The feedback of the sessions received bythe participants was excellent.

Assessment Pattern

Two assignments of 15 marks each

Final Assessment exam -50 marks, passed with a minimum of 20 marks

Viva-20 marks

Certificates will be awarded to students who completed the course with a minimum of 40 marks (total score) and a minimum of 20 marks in final exam

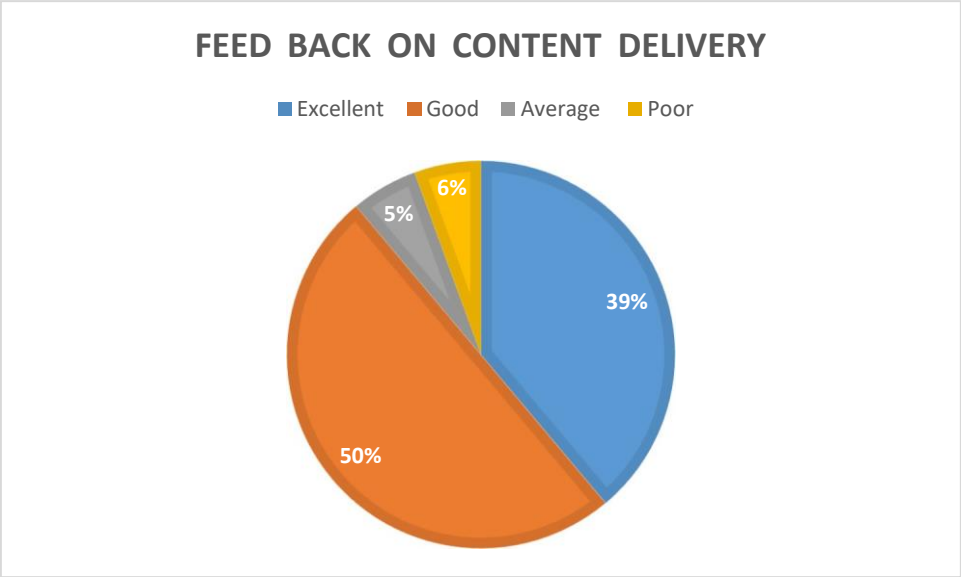
Minimum 75% attendance is mandatory for the course completion.

Google meet screen of the course: "Civil Engineering Softwares"

Coordinator **HOD** **PRINCIPAL**

Feedback

1. Feedback on Content delivery



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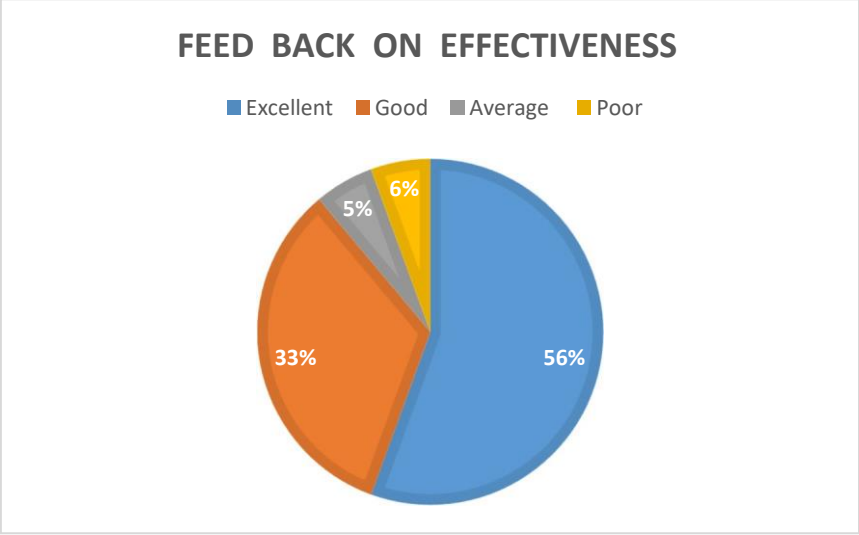

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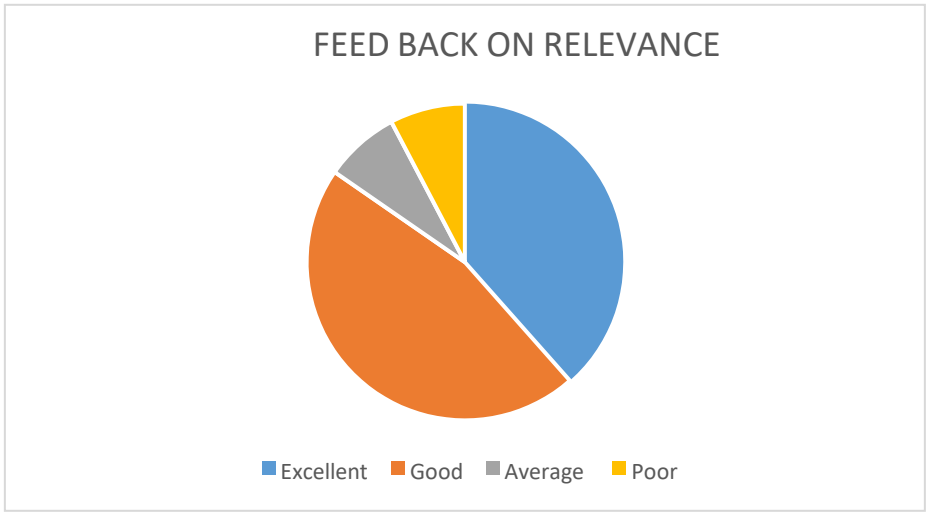
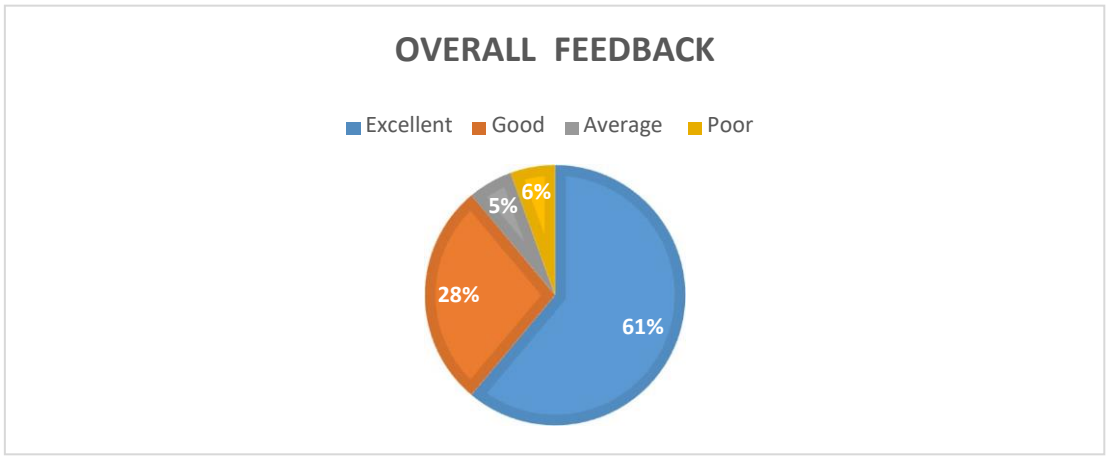


4. Overall Feedback



Coordinator

HOD

PRINCIPAL