MAHAJANA EDUCATION SOCIETY ®
S.B.R.R. Mahajana First Grade College (Autonomous), PG Wing
K.R.S. Road, Metagalli, Mysuru – 570016.
Department of Studies in Computer Science

Department of Studies in Computer Science of S.B.R.R. Mahajana First Grade College, P.G. Wing, in association with Ecclesia Advanced Computer Technology organized two day's workshop on 'Internet of Things – A Hands-on Approach' for the students of first semester M.Sc.(Computer Science) on 10th and 11th May 2022. Mrs. Rachana C R, Associate Professor and Head welcomed and introduced the resource person of the workshop Mr. Thiruppugazhan S. Mrs. Lakshmi B, Director Ecclesia Advanced Computer Technology briefed about the applications of IoT in present scenario. Mr. Thiruppugazhan S handled hands sessions by developing three projects.

The Home Automation project developed using Arduino ESP8266, one channel Relay and Blynk app for automatically switching on/off the electric bulb. Temperature monitoring and display the message in Telegram app when the temperature crosses the threshold is developed using Arduino ESP8266, DHT sensor and Telegram app. Reading Temperature and humidity of environment project is developed using Arduino ESP8266, DHT sensor and Blynk app. Dr. C K Renukarya, Director, PG wing of SBRR Mahajana First Grade College, awarded the participation certificates to all the students present for the two day's workshop.

Descriptions of the projects are given below:

1. The Home Automation project developed using ArduinoESP8266, one channel Relay and Blynk app for automatically switching on/off the electric bulb. ESP8266 is a low-cost WiFi module that belongs to ESP's family which you can use it to control our electronics projects anywhere in the world. It has an in-built microcontroller and a 1MB flash allowing it to connect to a WiFi. The TCP/IP protocol stack allows the module to communicate with WiFi signals. The ESP8266 acts as an interface between the electric bulb and the smartphone. The ESP8266 connected to the nearby WiFi Hotspot that allows it to access the internet and sends data (On/OFF) to Blynk Server along with the authentication code. An authentication code is then sent to the app that has the same authentication code and then, the app receives the data to create a secure connection between the app and the ESP8266. The data(instructions to control electric bulb) from the Blynk app is sent to the Blynk server along with the authentication code and since the ESP8266 already has the same authentication code which is connected with the Blynk server, the server identifies the matching code and data is sent to the corresponding ESP8266. Then the ESP8266 microcontroller turns ON/OFF the bulb.

2. Temperature monitoring and display the message, when the temperature crosses the threshold in Telegram app is developed using ArduinoESP8266, DHT22 sensor and Telegram app. Telegram BOT is used to communicate with DHT sensor through ESP8266. When temperature crosses a given threshold value, ESP8266 sends message in telegram app through telegram chat BOT.

3. Reading Temperature and humidity of environment project is developed using ArduinoESP8266, DHT22 sensor and Blynk app. ESP8266 act as an interface between the DHT22 sensor and Blynk server. DHT22 sensor reads the temperature and humidity data, then sends to Blynk sever along with the authentication code. The ESP8266 already has the same authentication code which is connected with the Blynk server. The temperature and humidity values are displayed in the Blynk app.

On 10th May 2022, 15 students and on 11th May 2022, 17 students developed the above projects. Total: 32.

Department of Studies in Computer Science
I Semester M.Sc. Computer Science

Organises Two Days Workshop on

'Internet of Things – A Hands-on Approach'

Resource Person:
Mr. Thiruppugazhan S
Technical Expert
Ecclesia Advanced Computer Technology, Mysuru.

Date: 10th and 11th May 2022   **Venue: MCA Lab 03**   **Time: 10.00 am-04:30 pm**

YOU ARE INVITED

Smt. Rachana C R   **Dr. C K Renukarya**
Associate Professor& Head   **Director**
Staff and Students, DoS in Computer Science

SBRR MAHAJANA FIRST GRADE COLLEGE (Autonomous), PG Wing
Pooja Bhagavat Memorial Mahajana Education Centre
KRS Road, Metagalli, Mysore – 16
Department of Studies in Computer Science
Report on 'Project Research Methods'.

Special Lecture was conducted on **23rd December 2021** from 2:30pm to 4:30 pm for the students of III Semester MCA & M.Sc(CS) and V Semester MCA. Speaker of the Special Lecture was Dr. R. K.Bharathi, Associate Professor, Department of Compute Applications, JSS Science and Technology University, Mysuru. It was organized 'online' on MS-Teams platform. The Session started with the inaugural address by Dr. C K Renukarya, Director, SBRR Mahajana First Grade College (Autonomous) PG Wing. He spoke regarding the importance of Research based Projects, IEEE Papers and National Education Policy 2020. Further, Smt. Rachana C R, Associate Professor & Head, Department of Studies in Computer Science, SBRR Mahajana First Grade College (Autonomous) PG Wing, introduced the speaker and welcomed everyone for the special lecture. Later, the session was handed over to the speaker Dr. R. K. Bharathi and the following are the highlights of the session.

- Explained Stack concept with an example, Techniques of Algorithm and how algorithm can be implemented with next level.
- Importance of subjects and how every subject is interconnected with each other, to implement any of the research projects.
- Briefed regarding the drawbacks of ready projects and its flaws.
- Own Project implementation with these two knowledge factors:
  - Learn & Earn
  - Do & Learn
- Briefed on First Hand Resource to implement project ideas like Page Click counts (Click Stream Analysis), Individual item clicks, Time spent over the pages, Device Data , GPS data, Sentimental analysis and so on.
- Resources of data set for the projects for analysis, data analytics, prediction, prescription, recommendations, Visualization and so on with some more resources on the same.
- Explained some projects title as an example and interpreted on need based projects like Ola, Swiggy etc..
- Briefed on National Education Policy 2020 – Achieving full human potential, Leadership on global stage, 4D Definition, on Higher Education and so on.
- Need of the Hour – Increasing level of Integration – Disciplinary, Multidisciplinary, Interdisciplinary and Transdisciplinary.
- More to explore with AI a case study – AI in HealthCare, AI in Finance, AI in Agriculture , AI in E-Commerce.
- Sailing the Seven C's – Critical Thinking, Creativity, Communication, Collaboration, Cross-Cultural Understanding, Computing Technology and Career Learning.
- Q&A session, some questions were raised by the students and the speaker solved it through real time examples.
- Speaker concluded with Pledge.

Vote of thanks was proposed by Mr. Shivumanjesh P, Assistant Professor, Department of Studies in Computer Science, SBRR Mahajana First Grade College (Autonomous) PG Wing.

No. of Students Participated: 91.
PREVIOUS

MAHAJANA EDUCATION SOCIETY ®
PG Wing of S.B.R.R. Mahajana First Grade
College (Autonomous)
Pooja Bhagavat Memorial Mahajana
Education Centre
K.R.S. Road, Metagalli, Mysore - 570016.

Department of Studies in Computer Science

Invites you to the **Special Lecture** on

'Project Research Methods'

For the Students of III Semester MCA & M.Sc. (CS) and V Semester MCA

Resource Person:
Dr. R. K. Bharathi
Associate Professor
Department of Computer Applications
JSS Science and Technology University, Mysuru.

Date: 23ʳᵈ December 2021   **Platform: MS Teams**
Time: 2.30 pm – 4.30 pm

The Director, HoD, Staff and Students.

SBRR MAHAJANA FIRST GRADE COLLEGE (Autonomous), PG Wing
Pooja Bhagavat Memorial Mahajana Education Centre
KRS Road, Metagalli, Mysore – 16
Department of Studies in Computer Science
Report on 'Research and Career Opportunities in Cyber Security'.

The Special Lecture was conducted online on **25th November 2021** from 11:30 am to 1:00 pm for the students of PG & UG, SBRR Mahajana First Grade College. The Special Lecture was by Smt. Poornima M, Research Scientist at Taylor's University, Malaysia. The Session began with the inaugural address by Dr. C K Renukarya Director, SBRR Mahajana First Grade College, P.G Wing. He stated the importance of Technology and Computers in modern world and how crucial it is to protect the data. Further, Smt. Rachana C R, Associate Professor & Head, Department of Studies in Computer Science, SBRR Mahajana First Grade College, PG Wing, introduced the speaker and welcomed all to the special lecture. Later, the session was handed over to the speaker and below is the highlights of the session.

Cyber Attack: A cyber-attack can maliciously disable computers, steal data, or use a breached computer as a launch point for other attacks. **Cyber Security:** Cyber security is the practice of defending computers, servers, mobile devices, electronic systems, networks, and data from malicious attacks. **Hacking:** Hacking is an attempt to exploit a computer system or a private network inside a computer. **Types of Hackers:** White Hat Hackers, Black Hat Hackers, Grey Hat Hackers, Script Kiddies, Green Hat Hackers, Blue Hat Hackers…etc.
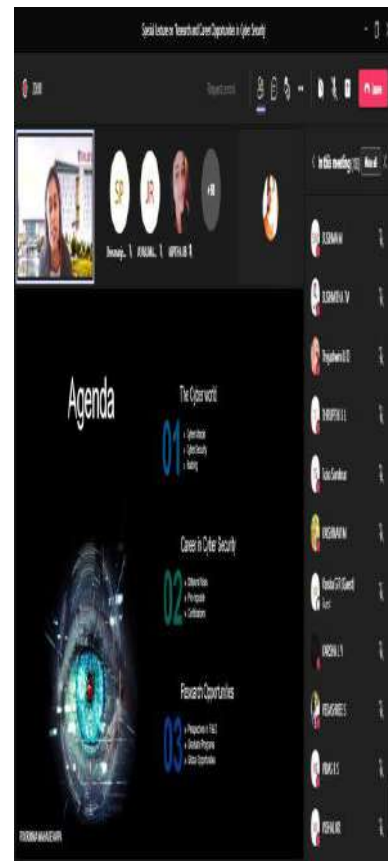Many aspects were covered by the speaker with respect to the concept of Hacking by stating a number of illustrations.

The speaker gave a thorough understanding of the research avenues in the field of Cyber Security to the students. The online certification programs available for the benefit of the students were emphasized by the speaker. Mrs. Poornima informed about the scholarship benefits available for research for the girl students at Taylor's University.

In Q&A session, a couple of questions were raised by the students "How to protect our data from hackers?", "How India is secured compare to UK or other developed countries?", "What is cryptocurrency?", "What is block chain?", "How to secure self-driving cars" and the speaker solved it through real time examples.
Vote of thanks was proposed by Mr. Shivumanjesh P, Assistant Professor, Department of Studies in Computer Science, SBRR Mahajana First Grade College, PG Wing.
Around 200 members attended the special lecture.

PREVIOUS

PG Wing of SBRR Mahajana First Grade College (Autonomous)
Pooja Bhagavat Memorial Mahajana Education Centre,
K.R.S. Road, Metagalli, Mysuru-570016.

Department Of Studies in Computer Science

M.C.A. & M.Sc. Computer Science

SPECIAL LECTURE ON

Research and Career Opportunities in Cyber Security

Resource Person:

Mrs. Poornima M

Taylor's University, Malaysia.

25th November 2021, 11:30 a.m.

Platform: Microsoft Teams

Dr. C K Renukarya   **Smt. Rachana C R**

Director   **Associate Prof. & Head**

YOU ARE INVITED

The Staff and Students.

SBRR Mahajana First Grade College, PG Wing (Autonomous)
Pooja Bhagavat Memorial Mahajana Education Centre
KRS Road, Metagalli, Mysuru-570016
DoS in Computer Science
M.C.A. and M.Sc. Computer Science

A Report on the Interactive session on "What do we do after our BCA? The Sky and the Horizon"

30th July 2022

Department of Studies in Computer Science organized an Interactive Session for the final year BCA students of SBRR Mahajana First Grade College, Mysuru on 30-07-2022.

The Session – 1 formally began with the Naadagethe rendered by the students of MCA. Mr. Basanth Kumar H B, Assistant Professor, DoS in Computer Science, welcomed the dignitaries and gave a brief introduction about the event. Honourable Secretary Dr. Vijayalakshmi Muralidhar, Mahajana Education Society, PG Wing Director Dr. C K Renukarya, Principal Dr. B R Jayakumari, Dr. S R Ramesh, CEO, Mahajana First Grade College, Mr. Manjunath, HoD, BCA department, Resource person for the event Sri. Harish Machia Kodandera, Professor and Head, Dept. of MBA, SBRR Mahajana First Grade College, PG Wing, Mrs. Rachana C R, Associate Professor and Head, DoS in Computer Science, were present on the dais. The purpose of this interactive session was not only to guide the students about various career options after their BCA but also to highlight the strengths and achievements of the Computer Science department, PG campus.

Mrs. Rachana C R Associate Professor and Head, DoS in Computer Science introduced the resource person Sri. Harish Machia Kodandera and briefed the profile of DoS in Computer Science. She mentioned that, to join for MCA, the student should either take up PGCET entrance exam conducted by Karnataka Examinations Authority or K-MAT exam Conducted by the Karnataka Private Post Graduate Colleges Association, to join for M.Sc.(Computer Science), the student should take PG Entrance Exam Conducted by University of Mysore. She explained the curricular aspects of MCA and M.Sc.(CS). She also explained the various facilities available for the students when they join for MCA or M.Sc.(CS) programme. Dignitaries on the dais inaugurated the interactive session by lighting the lamp. After this, the Rank Holders of University of Mysore were felicitated by the dignitaries. Rank holders from M.Sc.(CS) are Ms. Saranya S, 2017-2019 Batch and Ms. Chaithra, 2018- 2020 Batch, Ms. Divyashree M S, 2019-2021 Batch (Autonomous). Rank holders from MCA are Ms. Ronitha A C, Ms. Hemalataha M, 2017-2020 Batch and Ms. Ashwini Prasad S, 2018-2021 Batch.

Dr. B R Jayakumari, Principal, gave her thoughts on the importance of post graduate degree after BCA. She also specified that though the UG and PG programmes are located at different campuses, both are under the same umbrella "Mahajana Education Society". The presidential Remarks was given by Dr. C K Renukarya, Director, he mentioned the different facilities available for the Mahajana UG students when they join for the PG courses in Mahajana PG Centre. Smt. Shobha D, Assistant Professor, DoS in Computer Science proposed vote of thanks. Session – I ended with the National Anthem.

Session 2 was handled by the resource person Sri. Harish Machia Kodandera, Professor and Head, Dept. of MBA, SBRR Mahajana First Grade College, PG Wing. The following are the points were mentioned by the resource person.

- After the BCA if the students want to study PG programmes, they can choose either MCA or MBA, as both are top courses after BCA.
- Whether the students want to study postgraduation or go for job after their BCA, in life the goal is to be like Horizon- higher the goals there will be wider opportunities.
- He suggested students to read at least 7 news papers, which helps the students to improve the vocabulary and it impacts the communication skills.

- He mentioned the famous quote coined by Julius Caesar "Veni, Vidi, Vici – I came, I saw, I conquered" should be the attitude of the students towards acquiring knowledge.
- He also mentioned the quote coined by German philosopher Johann Friedrich von Schiller "only those who have the patience to do simple things perfectly will acquire the skills to do difficult things easily" should be the way to transform in a way that the students improve their excellence and strategic thinking.
- He played a few video clips which described about the innovative thinking and the evolution of automation.
- He also demonstrated the usage of information in a right way.
- He said that we should do our work in such a way that the results should exceed the expectations and he also specified that we must operate from the commitment and not from the complaint.
- He concluded the session by quoting "Stay Hungry, Stay Foolish, Stay Updated".

Around 45 final year BCA students were present in the Programme

Few Glimpses of the Interactive session:

SBRR MAHAJANA FIRST GRADE COLLEGE, AUTONOMOUS

POOJA BHAGAVAT MEMORIAL MAHAJANA EDUCATION CENTRE, KRS ROAD, METAGALLI, MYSURU-570016.

DEPARTMENT OF STUDIES IN COMPUTER SCIENCE

M.C.A. & M.Sc. Computer Science

Invites You to the Special Lecture On

"What do we do after our BCA? The Sky and the Horizon"

For the final year BCA students of SBRR MFGC (A)

Resource Person:

Mr. Harish Machia Kodandera

Professor,
Department of Studies in Business Administration
SBRR MFGC, PG Wing, Mysuru.

Gracious Presence:

Mr. Muralidhar Bhagavat
President, Mahajana Education Society,
Mysuru.

Dr. Vijayalakshmi Muralidhar
Hon. Secretary, MES, Mysuru.

Dr. B.R. Jayakumari
Principal,
SBRR Mahajana First Grade College.

Dr. C. K. Renukarya
Director, Mahajana PG Wing
Mysuru.

Date: **30th July 2022**　　　　　　　　Time: **10:30 am.**

Venue: Tourism Department Auditorium

THE HOD, STAFF AND STUDENTS

Application of GIS and Remote Sensing

SBRR Mahajana First Grade College (Autonomous)

Jayalakshmipuram, Mysuru-12, Affiliated to University of Mysore,

Re-Accredited by NAAC with 'A' Grade, College with Potential for Excellence

Department of Commerce

One Day Workshop on 'Leadership & Networking' - 04.01.2022

Workshop on Leadership and Networking

SBRR Mahajana First Grade College (Autonomous)

Jayalakshmipuram, Mysore – 570 012

Date: 10.01.2022

Workshop on Leadership Qualities

The department of Commerce, SBRR Mahajana First Grade College (A), Mysuru had organized a workshop on Leadership and Networking for class Representatives and students of the department recently.

Alumni Sri Dhruthik Diwakar and Sri Shraman Kumar Bohra were the resource persons. They drove home the importance of leardership and networking to the participants, while sharing their experience on being trained at Washington state University's SUSI programme (Study of the US Institute of Global Student Leadership programme on Youth Education and Closing Skill Gaps). Addressing the students, the resource persons stressed on the importance of having clear career goals, and to realize that dream, the need for obtaining training for the necessary skills. Such a preparation should start at the graduation level and also actively participate in the curricular and co-curricular activities.

The workshop was structured in such a way so as to ensure the participation of every student in Group activities. The participants in the first activity discussed on the concept of leadership and the qualities of a good leader. The aim of the activity was to help them learn to acidometer a divergent view point, agreeing to disagree. In the second activity the importance of networking was stressed upon while the child activity was about describing chimsches and their personality and leadership qualities in them.

All these activities focused on participants gaining more awareness on the importance of qudities the self-confidence, communication skills, companionship, and being non-judgemental and others.

Dr. S.R. Ramesh, CEO & Academic Advisor, Principal Dr. B.R. Jayakumari and Head of the Department Smt. Rashmi Urs were present during the inauguration. Faculty members Smt. Shambhavi Bhosle and Smt. Pooja Gowda were the event Co-ordinators Around 60 students beneficial from the workshop.

For favour of Publication

To,
The Editor

Public Relations Officer

Education to Excel

SBRR Mahajana First Grade College (Autonomous)

Jayalakshmipuram, Mysuru - 570 012

Affiliated to University of Mysore & Accredited with 'A' Grade by NAAC

College with Potential for Excellence

An IQAC Initiative

Department of Business Administration

organises a Workshop on

Research Methodology with SPSS

Hands-on-Training

by

Dr. Manjunath V

Asst. Professor

Dept. of Business Administration

SBRR Mahajana First Grade College (A), Mysuru

Date: 01.06.2022   **Time:10.30 AM**

Venue: Business Lab

All are Welcome

HoD & Staff
Department of
Business Administration

Dr. S R Ramesh
Chief Executive Officer
&
Academic Advisor

Dr. B.R. Jayakumari
Principal

SBRR Mahajana First Grade College (Autonomous)
Jayalakshmipuram, Mysuru – 570 012
Affiliated to University of Mysore, Re-Accredited by NAAC with 'A' Grade
College with Potential for Excellence

Date: 3.6.2022

"Research Methodology with SPSS Hands on Training"

Department of Business Administration & IQAC of SBRR Mahajana First Grade College organised a Workshop on "Research Methodology with SPSS Hands on Training" on 01st June 2022, Wednesday at Business Lab.

Principal Dr. B.R. Jayakumari addressed the students and spoke about the importance of practical applications of research and big data analysis in creating skill enhancement career opportunities in a student's life.

The speaker Dr. Manjunath.V, brief out the objectives, Importance, characteristics, types, and process of "Research Methodology with SPSS Hands on Training" in the workshop by sharing insights about research. He demonstrated with PPT presentation to the students by showing them the functionality of Statistical Package for the Social Sciences (SPSS) software. The students got the opportunity to learn about data entry and data analysis by using SPSS.

He spoke about how, SPSS allowed them to understand the applications of Inferential Statistics in academic research as well as practical applications. Thirty Three students of final year BBA have participated in the workshop.

Data analysis is one of the most flourishing fields right now as businesses around the world are trying to make sense of their data. However, there are a number of data analysis tools available in the market. In this article, we are going to discuss the Statistical Package for the Social Sciences (SPSS): one of the most-used statistical analysis tools.

It is a suite of software programs that analyzes scientific data related to the social sciences. SPSS offers a fast-visual modeling environment that ranges from the smallest to the most complex models. The data obtained from SPSS is used for surveys, data mining, market research, etc.

SPSS was originally launched in 1968 by SPSS Inc., and IBM acquired it in 2009.SPSS is popular because of its simplicity, easy-to-follow command language,

and well-documented user manual. Government entities, educational institutions, survey companies, market researchers, marketing organizations, health researchers, data miners, and many others use it for analyzing survey data.

SPSS features that make it a must-have analysis tool:

SPSS is a popular tool for research, experimentation, and decision-making. It is one of the most widely used statistical software worldwide in the world for its attractive features. Here are some of them:

1. Using SPSS features, users can extract every piece of information from files for the execution of descriptive, inferential, and multiple variant statistical procedures.

2. Thanks to SPSS' Data Mining Manager, its users can conduct smart searches, extract hidden information with the help of decision trees, design neural networks of artificial intelligence, and market segmentation.

3. SPSS software can be used to solve algebraic, arithmetic, and trigonometric operations.

4. SPSS's Report Generator feature lets you prepare attractive reports of investigations. It incorporates text, tables, graphs, and statistical results of the report in the same file.

5. SPSS offers data documentation too. It enables researchers to store a metadata directory. Moreover, it acts as a centralized information repository in relation to the data – such as relationships with other data, its meaning, origin, format, and usage.

Statistical methods that can be leveraged in SPSS:

- **Descriptive Statistics** – It includes methodologies such as cross-tabulation, frequencies, and descriptive ratio statistics.
- **Bivariate Statistics** – It includes methodologies such as means, nonparametric tests, correlation, and Analysis of Variance (ANOVA)
- **Predicting numeral outcomes** such as linear regression
- Methodologies such as **cluster analysis and factor analysis** which is great for predicting for identifying groups

Advantages of Using SPSS

The statistical analysis tool makes it possible to import and export data files from other programs. Some of its data handling procedures are excellent, as its ability to merge files, no matter whether it is the same subjects and different variables or different subjects and the same variables, is excellent.

In SPSS, users are not forced to work with syntax, even though syntax files can be saved and modified as needed. When there are saved syntax files, it helps immensely with documentation and also gives an idea of how the new variables were calculated and how values that were missing were handled.

- It offers reliable and fast answers

- It's dynamic and has useful tables and graphs

- Since it offers a wide variety of languages, a lot of people can access

- Effective data management

- Doesn't require a lot of effort to start using the software

- Useful for both quantitative and qualitative data

- The chances of errors are little with SPSS

- One of the easiest statistical tools to analyze data

- SPSS users can select the graph type which matches their data distribution requirement

Limitations of Using SPSS

One of the biggest disadvantages of using SPSS is that you cannot use it to analyze a big data set. There are certain fields where there is a huge trove of data present. In such industries, using SPSS might not be the best option out there.

If researchers collect data using faulty or biased methods, then the resulting statistical analysis will not give the right answers. If the gap between the sample and the actual population is negligent, then there is no issue. But if the difference is big, then it will produce misleading data.

When researchers do not measure the exact thing that they want to measure, then the SPSS analysis will not fail.

    Prof. Shyla S, HoD of Business Administration welcome the gathering, Mr. Sumedh .R. Bhat student co-ordinator proposed vote of thanks.

Department of Business Administration

Workshop on SPSS & Hands on Training - 1.6.2022

Resource Person: Dr. Manjunath V