

EDITION 3

SOFTWARE ENGINEERING MEHRAN UET JAMSHORO

NEWSLETTER 2020-2021



IN THIS EDITION:

ABOUT DEPARTMENT

The use of computers and software applications recently has grown at a staggering rate. Software Engineering discipline is the heart behind the development of computer applications. It forms the basis of operational design and development of virtually all computer systems. The discipline extends to application development, computer networks, operating systems, and software development for embedded systems.

Software, as a mature Engineering discipline, has become essential in our everyday lives. Our Software Engineering degree program is considered as Mehran University's contribution to the tremendous growth of the software development industry.

Bachelor of Software Engineering degree program educates students with theoretical knowledge and empowers them with the practical skills required to start a rewarding career as a professional software engineer. Our students learn to develop and maintain high-quality software systems from the conceptualization of project ideas to design, implementation, deployment, and maintenance of software artifacts.

VISION & MISSION

TEAM OF SES 2020-2021

ACHIEVEMENTS OF 17TH BATCH

ABOUT ARTIFICIAL
INTELLIGENCE EVENT

ACHIEVEMENTS OF 18TH BATCH

COLUMNS

ACHIEVEMENTS OF 19TH BATCH

IN CONVERSATION WITH
FORMER PRESIDENT (SES)

ACHIEVEMENTS OF 20TH BATCH

WORKSHOPS AND EVENTS

SPEED 2020 - 2021

ABOUT FIXINS' ABOUT ML
EVENT

DEPARTMENT VISION & MISSION

VISION

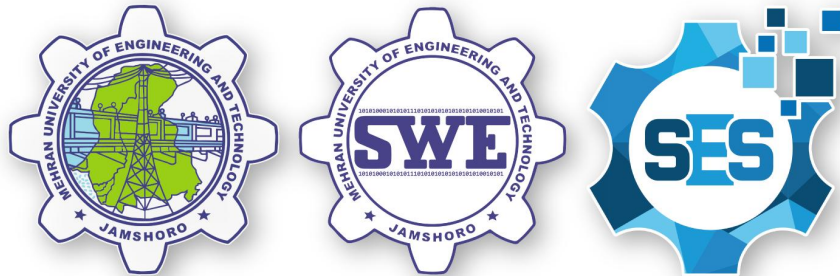
To become the center of excellence and the aspiration in the discipline of software engineering by producing the highly skilled professionals, who with their analytical capabilities and proficiencies apply the technical knowledge for the socio-economic development

MISSION

To provide technically sound ambiance of learning and realizing the frequently changing traits of software industry to pursue sustainable socio-economic growth with the sense of ethics, professionalism and leadership to serve community and humanity at large.

TEAM OF SES

2020 - 2021



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TEAM OF SES 2020-2021



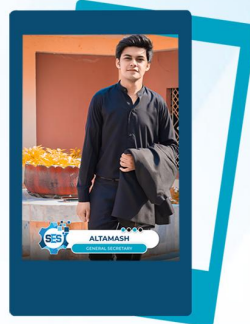
YUSRA KHOSO

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IQRA CHANI

030000115532000



ALTAMASH

030000115532000



MAHA HISHAM

030000115532000



RAMSHA

030000115532000



ASAD JATOI

030000115532000



BAKHTAWAR

030000115532000



MISBAH QURESHI

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FAHAD CHANDIO

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DUA MIR

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LABRA MEMON

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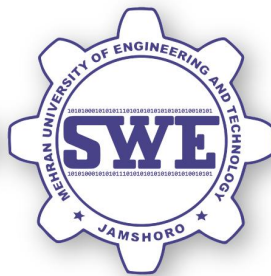
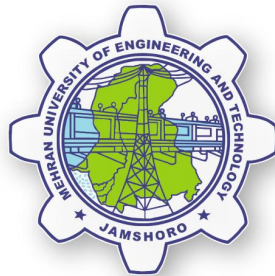
MUBASHIR

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ACHIEVEMENTS

17TH BATCH



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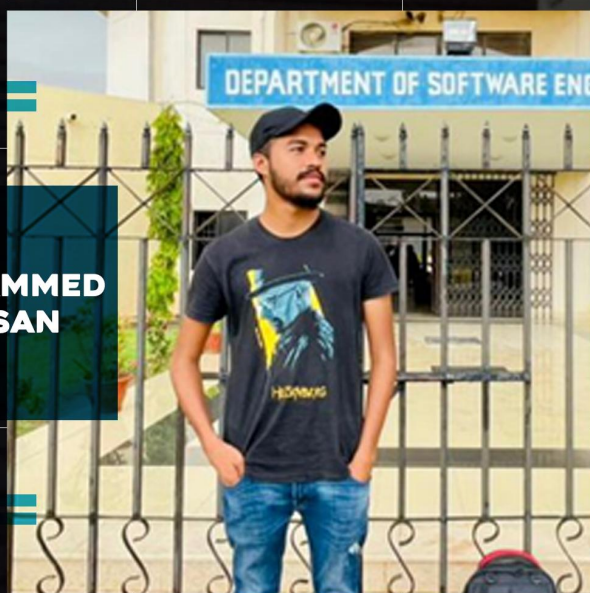


**AADIL
UMAR**

Selected for
fully funded
*“Turkiye Burslari
Scholarship
2022-23”*
for Masters



**MOHAMMED
AHSAN**



**SATIA PAL
&
SAMRAT
KUMAR**

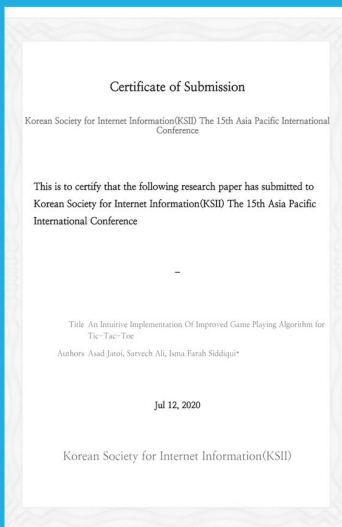
*“Database
Competition
TechArena”*
Runner-Up



**MUZAMIL
NAWAZ
&
ASAD ALI
JATOI**

"Blind-Coding TechArena" Runner-Ups

"An Intuitive Implementation of Course Recommendation System based on Learner's Personality" conference paper submitted by Asad Ali Jatoi and Muzamil Nawaz for ACTA Scientific Computer Sciences Volume 4 Issue 5th May 2022 under supervision of Engr. Memoona Sami and Engr. Junaid Baloch



An Intuitive Implementation Of Alpha-Beta Pruning Using Tic-Tac-Toe

Conference Paper
Jul 2020 · The 15th Asia Pacific International Conference on Inform.

Asad Ali Jatoi · Sarvech Ali · Isma Farah Siddiqui

Share

Stats

Research Interest **6.4**

Reads **5 new 3,760**

Full-text reads **1,148**

12:20

View full-text

An Intuitive Implementation of Course Recommendation System Based on Learner's Personality

Conference Paper
Apr 2022 · Acta Scientific COMPUTER SCIENCES Volume

Asad Ali Jatoi · Memoona Sami · Muzamil Nawaz · Junaid Baloch

Share

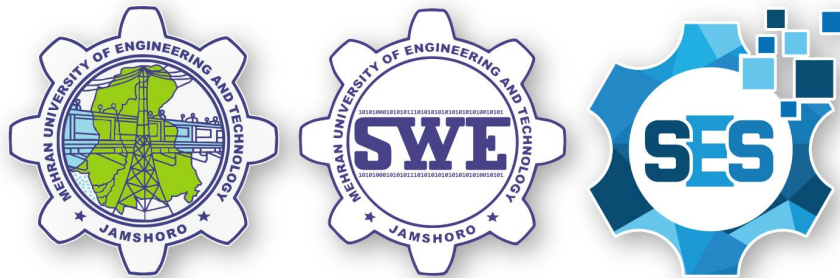
Stats

Research Interest **1.5**

Reads **2 new 170**

Full-text reads **45**

ABOUT ARTIFICIAL INTELLIGENCE EVENT



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AI CONFERENCE

ARTIFICIAL INTELLIGENCE: FOR SUSTAINABLE ENGINEERING

Software Engineering Society had an amazing and successful seminar on artificial intelligence. Where different speakers from different institute came and share their ideas about AI. Others guests were also present there. Apart from AI talks others games were also played and prizes were distributed among winners. There were others things too like musical performance and high tea.

The honourable speakers of this seminar were:

1. Owais Raza
2. Areej Fatimah
3. Sajid Bhutto
4. Syed Samiullah Shah



Team behind this successful event

AI CONFERENCE

FEW GLIMPSES OF THE ARTIFICIAL INTELLIGENCE SEMINAR



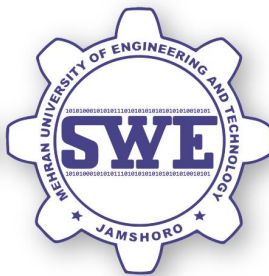
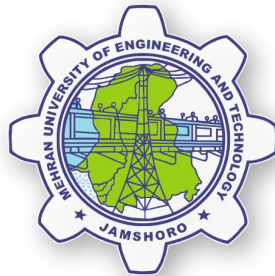
AI CONFERENCE

FEW GLIMPSES OF THE ARTIFICIAL INTELLIGENCE SEMINAR



ACHIEVEMENTS

18TH BATCH



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**MUHAMMAD
TAHA**

Worked as a *Video Editor* in *Unilever, Hyderabad Branch.*

Contributed to *Google Developer Student Clubs (GDSC) MUET, Jamshoro* as *Head Video Editing* from the core team in the tenure 2020-2021.

Started *minting the very first NFT collection* from MUET, Jamshoro.

Software Engineering society, MUET (Vice-President).

IEEE- WIE Karachi Chapter as Graphic Designer.

Member of MLSA as Alpha.

Worked at MLSA Khairpur as Graphic Designer.

**IQRA
GHANI**



**SAQIB
BALOCH**

Senior Freelancer at Fiverr

Speaker at Freelancing Bootcamp (SES)

NeoDocto: Worked as Digital Marketing Lead.

Director Marketing (SES).



**SUMAIR
TAHIR**

- *Founder of Declutter.ai*
- *Backend Engineer at Avialdo Solutions.*
- *Worked as Backend Developer at Doc2ship.*
- *Full Stack Developer at AlandHealth*
- *Meta Certified Back-End Developer*

- *Founded Casteron Digital's (digital marketing agency Estd. 2021)*

- *Certified as a Digital Marketer by Google*

- *Runner Up, Mehran University Essay Writing Competition.*

- *Runner Up representing Mehran University for Inter-University Essay Writing Competition, Air University, Islamabad.*

- *Represented Mehran University at National Conference, Centre for Research and Security Studies, Islamabad.*

**HUZAIF
ROHAIL**





**MUBASHIR
IBRAHIM**

**Front End Developer DOC2SHIP
| Feb 2022 - Present Currently**

I am working with Doc2Ship, as a Front End Developer, developing products that involve Front End Development with React JS, Redux, Bootstrap, Axios, etc.

**Front End Intern ALT-ED | Dec
2021 - Jan 2022**

I have served as a Front End Intern at Alt ED and have learned a lot. It was a great experience working with the senior team members and helped me a lot.

**Web Developer Intern Interns
Pakistan| Jan 2021 - Feb 2021**

Being a Web Developer Intern, I have worked with Web development technologies like HTML, CSS, JavaScript, Bootstrap, and Wordpress.

MUET UBER APP

I have developed MUET Uber App Clone. I wanted to implement it for my Mehran University of Engineering and Technology rikshaw drivers and students. So students and Captains/riders have another interface in the future.

1. *Volunteer at Tech Arena in 2019*
2. *SES Media Director 2020*
3. *GDSC Technical Coordinator 2020-2021*
4. *Have been part of MLSA (as an HR)*
5. *Internship at NIC (startup)*
 - As a Python developer
 - As a social media handler
5. *Work as a social innovator*
6. *Have been part of Rotary Club, Hyderabad*

**DAMNI
MUKHI**





**FATIMA
YOUSIF**

Organised *Harfan Aurat Bootcamp* by GDSC Pakistan 2020-2021.

Started "*The IT world today*" podcast series in my GDSC lead tenure 2020-2021.

Graduated as a *Google Developer Student Clubs (GDSC) Pakistan 2020-2021 Lead*.

Got invited as a *Speaker* at *Google Developers Group (GDG) Live Pakistan 2021 session "Our GDSC heros"*.

Hosted "*POWER - Phenomenal, Omnipotent, Women in Engineering with Responsibility*" organised by *IEEE WIE Karachi Section*.

Served as a *Campus Ambassador* at "*BuiltByHer*" hackathon by *NIC Karachi*. ambassador

Leading the *TEDx MUET executive team of Curation and Copywriting team*.

Former Mentee in the *10Pearls Pakistan FYP accelerator program*.

Former Internee at *MUET FM 92.6*.

Freelancing as a Digital Art illustrator and Graphic Designer at *Fiverr*, personal social media pages, and *Behance*.

Installed first Digital Art Business kiosk/stall for the annual campus event; *MUET Gala*.

Contributed to *Google Developer Student Clubs (GDSC) MUET, Jamshoro* head *Graphic Designing* from the core team in the tenure 2020-2021.

Served as the *Director Designer* in *SES MUET*.

**ROHAT
IFTIKHAR**





ALWAZ QAZI

Started working as a *Full Stack Software Engineering intern* at one of the leading *Fintech startups of Pakistan, Creditbook.*

Former Mentee in the 10Pearls Pakistan FYP accelerator program.



TECHINBORN (STARTUP)

TechInborn is a content creation and content marketing solution for businesses and is dedicated to promoting innovation, entrepreneurship, and excellence in the digital domain of the world by hosting events, seminars, and conferences.

TechInborn is founded by Altamash Akber along with his colleagues with an intent to revolutionize the way content and marketing are perceived by organization, brands and institutes.

FOUNDER AND CEO
Altamash Akber

CHIEF STRATEGIST
Talha Bhurgri

SOCIAL MEDIA MANAGER
Dua Ali

CONTENT STRATEGIST
Shahzad Panhwar

SEO SPECIALIST
Adeel Rajput



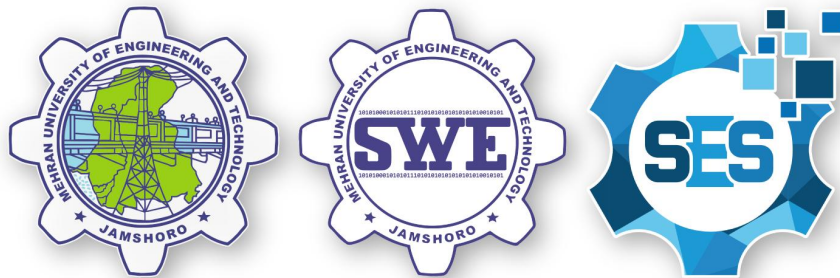
MISBAH QURESHI

***Selected for Global UGRAD
Semester Exchange Scholarship
Spring 2022
(University of Central Missouri)***

Getting the opportunity to go to USA for academic growth is like a dream come true. Live a completely independent life by which you learn some of the really important life lessons. You learn to survive.. and face your problems by your own.

Being an exchange is letting your heart be divided into several small pieces and let them be taken to every corner of the world .. and hope that one day they all meet again.

COLUMNS



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PYTHON & ITS IMPLEMENTATIONS

By Shahzad & Gulwish

Change is the nature of developing things. These words best define one of the most popular and utilised programming language of this age Python. Python was implemented in 1989 by Guido van Rossum. It is interesting to mention here that it was named Python because the creator of the language was a fan of BBC comedy series Python's Flying Circus.

With its simple syntax and vital usage Python had become talk of the town till 2003 and its popularity graph is still inclined toward increment. Initially, the main motive of developing Python was code readability but soon it was observed that it can contribute in other aspects too.

It is a dynamic (operations are performed at run-time rather than at compile-time) and scripting (interpreted) language which means it can be executed without being compiled. It is actually written in C language and the default version is called CPython.

Python was released in different versions at different times starting from version 1.0. Interestingly, the debate was started when two most popular versions i.e, Python 2.0 and Python 3.0 were compared but the debated ended with the success of Python3 due to its versatile features and capabilities. The latest version is 3.9.0 and it is currently the most powerful version of Python with multiple tools and updates.

Implementations:-

The best thing about Python is that it has many libraries and frameworks which are used for different developmental purposes.

We have discussed some of the most commonly used tools are:

a. Django

A web team which was actually creating newspaper websites and with the passage of time they began to reuse lots of code and design patterns which later evolved into a generic web development framework known as "Django" and was deployed in 2005.

Python has achieved many milestones due to this tool. Django is mainly used for web development along with HTML and CSS. It is a high-level web framework and is utilised for rapid development of secure and maintainable websites. It is open-source with many free subscriptions and a great deal of community support with ample documentation. Since, Django is written in Python so it is portable means it is runnable on various platforms like Linux, Windows and Mac OS X.

Some of the most popular contributions of Django are:-

- Instagram
- Spotify
- Youtube
- DropBox

b. Flask

It can be installed in any environment excluding Python 2.6. It allows us to build web applications since python manages low-level code such as protocols, thread management. In Flask URL Routing is easy since it allows direct access to the web page without navigating from the Home page and makes easy to remember the URL. It is suitable for both backend and frontend simultaneously. It is preferable for deploying ML models into production. Flask utilises multiple types of databases. Thus Database integration is easy. Flask does not offer dynamic HTML pages nor a built-in bootstrapping tool. Flask framework is suitable for application.

Following companies utilizes Flask:-

- Netflix
- Reddit
- Airbnb

COLUMNS

c. Kivy

Kivy is one of the powerful mobile application framework in Python. It is runnable on every platform i.e, Windows, Mac OS as well as on Android and Linux. It is open source and it provides users customized UI unlike Flutter and React Native but Python is not a easy competitor that's why Python has recently added KivyMD(Material Design) feature in Kivy which paves the way for native mobile application development using Python and soon it will become comparable to Flutter and React Native. The main thing which is worth mentioning here is that Kivy targets the platforms and it is suitable for rapid mobile application development. Subsequently, it is an under-development framework and soon it will be made comparable to other mobile application development tools.

d. NumPy

NumPy (Numerical Python) is a perfect tool for scientific computing and performing basic and advanced array operations on n-arrays.

This framework is mainly used for data Science projects. It has many built-in computational functions which make it suitable for quicker calculation and reducing mathematical complications.

Alternatively, Pandas, MATLAB and SciPy are the most popular competitors to NumPy.

e. Open CV:-

Open Source Computer Vision library is one of the integral and useful library of Python and is currently holding the sheer number of function tools. It was started at Intel as a research project. It contains utilization of more than 2500 algorithms! It is open-source and freely available for academic as well as commercial purposes. The joyous thing is that it includes interfaces for other languages such as Java, C++, etc. Its functionalities include reading, displaying and writing the

images/videos. Consequently, it is a image processing tool used for identifying various entities even a handwriting of an individual.

This library is extensively used by tech giants such as Google, IBM, Yahoo.

ASYNCHRONOUS PROGRAMMING WITH JAVASCRIPT

By Abdul Aziz Khoso

Have you ever wondered how a loader disappears when the web page is loaded? How a simple timer works? Have you ever fetched data from a URL? Well, if your answer is no this article is for you. You will learn how asynchronous code works, and how one can write it in JavaScript.

Prerequisites

Before reading this article, you should have a clear understanding of:

- Functions
- Higher order functions
- Objects

I will repeat higher order functions.

This will help you to clear your concepts.

Let's get started with higher order

functions first.Higher Order Functions

Languages like JavaScript, Java, PHP, Python, etc use functions, modules and objects as values. You can pass an object or a function as a value to any variable in these languages. Consider the following JavaScript code. (Since the whole article will relateto JavaScript code snippets. Thus, every code snippet will be in JavaScript)

```
var f1 = function(){ console.log("my function"); };  
f1();  
//Output: my function
```

You can also pass functions as arguments to other functions or even return functions from other functions.

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```
function executeFunction(f3){
  //some code
  f3();
}
function someFunction(){ console.log("another function"); }
//Passing someFunction as an argument
executeFunction(someFunction);
//Output: another function
```

So, functions that take other functions as arguments or return function are known as higher order functions. I will not return functions from other functions. For this article, it's enough. Let's start our asynchronous programming.

Asynchronous Programming

An asynchronous code does not depend on the main flow of program. It runs concurrently with the main flow. Thus, this gives the feeling of multiple programs running at a time. You have seen while copying a file from one directory to another.

The progress bar changes its value concurrently proportional to the size copied. Have a look on the following synchronous code. (Synchronous code is opposite to asynchronous one. Unlike asynchronous code that does not block the main flow, synchronous code blocks the main flow of the program.)

```
console.log("started...");
//If you don't reply to alert next line will not execute
alert("Press OK to continue");
console.log("executed after alert");
console.log("ended");
```

An alert() stops or blocks the main flow of the program. Now, have a look on the following code.

```
console.log("started...");
//Even if you don't reply to alert next line will always execute
setTimeout(function(){
  alert("Press OK to continue");
}, 0);
console.log("line written after alert");
console.log("ended");
```

A setTimeout() is an asynchronous code. It is a higher order function because it takes a function as first argument. The function passed as argument is executed asynchronously. It executes concurrently with main flow. You can achieve asynchronicity through setTimeout, setInterval, Promises, async/await etc.

Simple Timer

Let's write a code for simple timer. You should have basic understanding of DOM Manipulation in JavaScript using document.getElementById().

```
//There should be a div in your html with id as root
var root = document.getElementById("root");
var hours = document.createElement("span");
var mins = document.createElement("span");
var sec = document.createElement("span");
root.appendChild(hours); root.appendChild(mins); root.appendChild(sec);
setInterval(function(){
  var date = new Date();
  var h = date.getHours();
  var m = date.getMinutes();
  var s = date.getSeconds();
  hours.innerHTML = h+":";
  mins.innerHTML = m+":";
  sec.innerHTML = s;
}, 1000); //1000 ms = 1 sec
```

You can see in your web page a simple timer will be running on div with id as root. This code is also asynchronous as you can do all your work on the web page. This code always runs concurrently. Hence it does not block the flow of your web page.

Promises

Promises are an interesting way of achieving asynchronicity in JavaScript. A promise is executed asynchronously. It has 3 states i.e. pending, resolved, and rejected. Resolved is similar to a return statement of a function (Well its not completely same), and rejected is to throwing an error while execution. Let's create a promise and use it in our code.

```
//Promise(function(resolve, reject)) is a higher order constructor function
//On success we call resolve, and on error we call reject
//Usually, resolve returns some data, while reject returns message
var myPromise = new Promise(function(resolve, reject){
  var someVariable = Math.random()*10;
  if(someVariable > 10) resolve(someVariable);
  else reject("value less than 10");
});

console.log("started...");
myPromise //No semicolon here
  .then(function(data){console.log(data)}) //No semicolon here
  .catch(function(message){console.log(message)});
console.log("ended");

/*Output:
started...
ended
value less than 10
*/
```

Since myPromise executed asynchronously, 'value less than 10' is returned in last. Due to random() instead of 'value less than 10' it would have returned '10' also. You can fetch data using promises in same way.

COLUMNS

Conclusion

In this article we saw how a synchronous code is executed. It blocks the main flow like alert(). Whereas, an asynchronous code does not block the main flow. We can write an asynchronous code in JavaScript using setTimeout, setInterval, Promises and async/await. There are other ways too.

CYBERSECURITY

By Aisha isani

Cybersecurity is a defense against the malicious attacks we face with our data, mobile, computer, network etc. Putting it into easy words it means how we save our personal data from unauthorized users. Cybersecurity is also known as information security or electronic security. The main purpose of these attacks is to change or destroy the data or produce unnecessary disturbance in the business. Now that the world is evolving with technologies it is quiet challenging to implement a successful cybersecurity measure and it is easier for hackers to hack into systems. According to Microsoft, 20% of small to mid-sized businesses have been cybercrime targets. Cybersecurity can be divides into few similar categories

Elements of cybersecurity:

The cybersecurity area is divided into numerous components, each of which must be coordinated inside the company for a cybersecurity program to be successful. The following are included in these sections:

- Network security
- Application security
- Information security
- Cloud security
- Critical infrastructure security
- Physical security

Why is Cybersecurity important?

Everyone benefits from improved cyber-defense strategies in today's linked society. A cybersecurity attack on an individual level can result in everything from identity theft to extortion attempts to the loss of crucial data such as family photos. Critical infrastructure, such as power plants, hospitals, and financial services organizations, is used by everyone. Keeping these and other organizations' vital information safe.

Types of Cybersecurity:

Here are some of the cyber security threats faced by systems:

- Phishing
- Ransomware
- Malware
- Social engineering

Phishing:

Phishing is the act of sending fake emails that look like they came from a credible source. The goal is to steal sensitive information such as credit card details and login credentials. It's the most common kind of cybercrime. You can help yourself by educating yourself or using a technology solution that filters dangerous emails.

Ransomware:

Ransomware is a malicious software that encrypts files and holds them hostage. Its purpose is to extort money by preventing access to files or the computer system until a ransom is paid. Payment of the ransom does not ensure the recovery of the files or the restoration of the system.

Malware:

Malware is a form of software that is meant to gain unauthorized access to a computer or to harm it.

Social engineering:

Adversaries employ social engineering to deceive you into divulging crucial information. They can demand a

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THE BIRTH OF MODERN COMPUTING

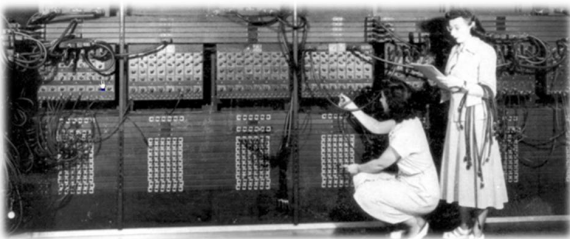
By Rashid

The motive of this article is to give you clear & concise understanding of modern computing, its evolution, and basic principles of it.

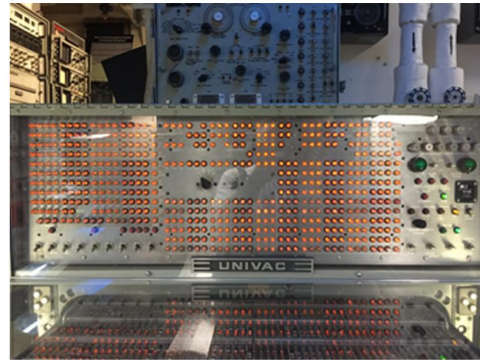
It all started in 1940–1945, when the United States and Britain worked independently on creating computers to gain an advantage during the war. By 1951, there was a commercial computer on the market. Information could now be processed and manipulated automatically. Here's the story of how it all happened.

In 1942, the first all-electronic digital computer, Atanasoff Berry Computer (ABC) was constructed. It was a breakthrough since it used electronic vacuum tubes to perform calculations, rather than wheels or mechanical switches as previous computers did. However, the computer was not re-programmable or general purpose at all.

The successor to ABC, was ENIAC, which was the first programmable digital computer. It was a 15-meter-long machine that weighed about 30 tons. The worst part? There were 17,500 delicate, prone-to-breaking vacuum tubes, if any one of the broke, the whole machine halted working.

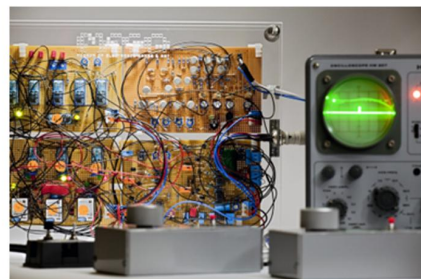


After the war and the ENIAC project, Mauchly and Eckert decided to use this new computer technology to make life easier. In March of 1951, after six years of work, the university pair sold the first general-purpose computer to the United States Census Bureau: UNIVAC.



After vacuum tubes, it was time for something new. In the 1930s, Bell Labs' director of research (Bell Labs was the research branch of AT&T – the company founded by Graham Bell), Mervin Kelly, recognized that a better device was needed for the telephone business to continue to grow. He had a feeling that the solution might lie in semiconductors. This marks the birth of transistor. We will get back to that later.

Origins of internet: In 1958, American Telephone & Telegraph, the company mentioned above as AT&T & now global leader in internet service providers, came up with digital version of modem which could provide internet with speeds up to 110 bits a second. With that speed, an average webpage (500 KB) would have taken fifteen hours to load. Imagine clicking on a video, then coming back to watch it two and a half months later. In the same year (1958), the world saw the first graphical video game called 'Tennis for Two'. The controls were simple— a twistable knob to adjust the angle at which the player was about to hit the ball, and a push button to fire the shot. The game was so appreciated that it took very less time to get into the mainstream.



COLUMNS

Transistors proved to be much efficient than vacuum tubes, being useful in radios, but their use in functioning computers was limited. If enough transistors could be packed into a sufficiently small space, there could be serious computing power. This introduces the concept of Integrated Circuit. Our modern CPUs use Integrated Circuits, packing billions of tiny transistors. In the starting days, William Shockley (the founding father of transistor) formed a lab called 'Shockley Semiconductor Lab'. The Lab brought together a pool of talent that would become the foundation of what we now know as Silicon Valley. Robert Noyce & Gordon Moore were one of them. Due to Shockley's paranoid nature, these eight soon left Shockley's Lab and pioneered a new firm called 'Fairchild Semiconductor' now known as Intel. These people later got their title as 'The Traitorous Eight'.

Intel soon created new chip called 'Intel 4004' chip, packing in 2000 transistors. 70s saw production of mobile phones and video games were in mainstream. In 1975, concept of personal computing begun to emerge.

Among the major players in computer market were Apple & IBM at that time. Since Apple had their own operating system, IBM needed one, for that purpose, IBM approached renowned computer scientist Gary Kildall (the man who could have been Bill Gates) to create an operating system for them. On Bill Gates' advice, IBM team paid a visit to Gary's house. Despite of Gates' hint "Treat them right; they're important guys!", Gary didn't take it seriously, so the deal wasn't successful. Then the IBM approached Bill Gates and he didn't miss the chance. Soon Gates came up with DOS and founded Microsoft

Martin Cooper shocked the world with the very first mobile phone, the Motorola DynaTAC x 8000, in 1984

Apart from that, web explosion was observed. It began in August 1991 with one website, The World Wide Web Project. By 1992, there were ten websites. Initially, there was no commerce allowed on the internet, but this was overturned by Congress in 1992. The following year, CERN made the web free and public. By that end of the year, there were already 14 million internet users worldwide, but only 130 websites.



Sony launched their first Playstation in 1994 and launch of Windows 95 followed in 1995.

Beginning of 21st century brought mp3 players in the mainstream, thanks to Apple's iPod. By 2002, social media started to rise with the launch of: Friendster (2002), Myspace (2004) followed by Facebook in the same year. YouTube connected the world through videos in 2005 and saw an exceptional growth. Smartphone era begun in 2007 with iPhone. After the success of iPhone, 'The App Boom' was observed in 2008, the Android phones were originated in the same year.

Till then, the CPUs became so much powerful that the power of whole US-Spread ENIACs could be fit into palm of the hand. Data could be processed at phenomenal speeds, this made computer scientists to shift their focus towards Artificial Intelligence. Physical limitations regarding transistor sizes brought new concept of Quantum Computing. Today, computers have become integral

COLUMNS

part of our lives, we are deeply involved in AI & ML and moving towards Internet of Things.

This was the brief chain of innovations that formed the world that we see & observe today, lot much to come yet...

TOP WEBSITES TO MAKE YOUR INTERNET ACTIVITY MORE SECURE

1)have i been pwned?

url: <https://haveibeenpwned.com>

Check if your email or phone is in a data breach

this is a site that permits Internet users to check whether their personal data has been undermined by data breaches. The service collects and analyzes hundreds of database dumps and pastes containing information about billions of leaked accounts, and allows users to look for their own information by entering their username or email address.

2)virus total

url: <https://www.virustotal.com/gui/>

VirusTotal can be valuable in detecting noxious content and also in recognizing false positives - normal and harmless items detected as malicious by one or more scanners. VirusTotal inspects items with over 70 antivirus scanners and URL/domain blacklisting services. Any user can select a file from their computer using their browser and send it to VirusTotal.

3)Create a Fake Online Identity

url: <https://www.fakepersongenerator.com>

To protect your real information from being leaked. Generate fake person (identity) from US, include name, address, phone, email, employment, family, personal information like interest, online profile, browser and significantly more

4)ProtonMail

<https://protonmail.com>

An email sent from one ProtonMail account to another is automatically encrypted with the public key of the recipient. Once encrypted, only the private key of the recipient can decrypt the email. When the recipient logs in, their mailbox password decrypts their private key and unlocks their inbox.

ProtonMail uses a combination of public-key cryptography and symmetric encryption protocols to offer end-to-end encryption. When a user creates a ProtonMail account, their browser generates a pair of public and private RSA keys:

The public key is used to encrypt the user's emails and other user data.

The private key capable of decrypting the user's data is symmetrically encrypted with the user's mailbox password.

This symmetrical encryption happens in the user's web browser using AES-256.

5)Disposable Temporary E-mail

url: <https://temp-mail.org>

Disposable email - is a free email service that allows to receive email at a permanent address that self-destructed after a certain time elapses. websites and blogs ask visitors to register before they can view content, post comments or download something. Temp-Mail - is the most progressive expendable email service that assists you with keeping away from spam and stay safe.

6)URL Redirect Checker

url: <https://wherergoes.com>

Have you ever pondered:Where does this link go? The URL redirect checker follows the path of the URL. It will show you the full redirection path of URLs, shortened links, or tiny URLs.This tool is like a link redirect detective that will

COLUMNS

follow your URLs and help you diagnose complex linking problems.

7)GetLinkInfo.com

url: <https://www.getlinkinfo.com/>

GetLinkInfo is a tool to get information about a link prior to visiting it. Use it to:
-Preview tinyurl, bit.ly, goo.gl, is.gd, t.co ,or any other short URLs. Very useful for Twitter users. Works with ALL URL shortening services!

-See the original URL of a short URL before visiting it.

-Find out where a URL redirects

Get a webpage's title and description to decide whether it is appropriate/safe/secure to visit.

-Get more info about a YouTube video to decide if you should watch it.

-Determine if a website contains noxious software or is a phishing site.

8)Just delete.me

url: <https://justdelete.me>

A directory of direct links to delete your account from web services. Many companies use dark pattern techniques to make it hard to track down how to delete your account. JustDelete.me aims to be a directory of URLs to empower you to effectively delete your record from web services.

9)TERM AND SERVIE DIDN'T READ

url: <https://tosdr.org>

"I have read and agree to the Terms" is the biggest lie on the web. We aim to fix that.

Terms of Service; Didn't Read (ToS; DR) is a community project which aims to analyze and grade the terms of service (TOS)and privacy policies of major Internet sites and services.

Each aspect of a TOS or privacy policy is assessed as positive, negative, or unbiased.Services are graded from A (best) to E (worst) once a comprehensive list of cases has been reviewed by volunteer curators.

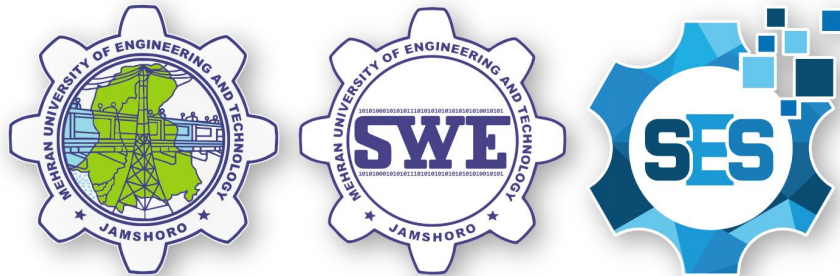
The name of the task

is a play on the expression excessively long; didn't peruse.

Discalimer: all the above information is for eductional purpose only!

ACHIEVEMENTS

19TH BATCH



EDITION 3

NEWSLETTER 2020-2021



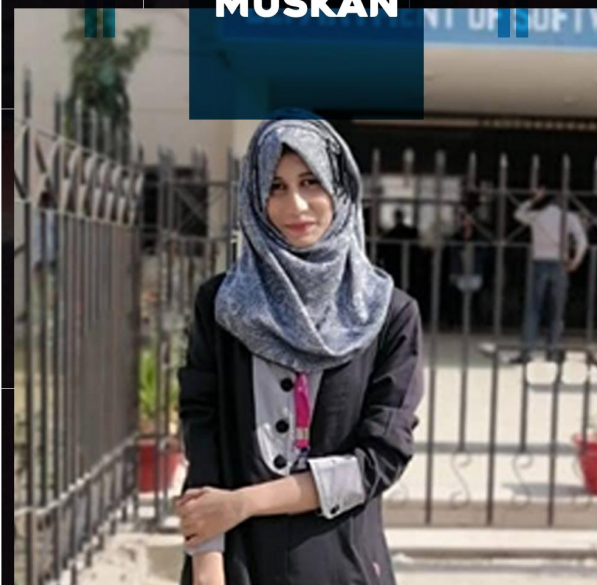
**MALIK
GHAFFAR**

MALIK GHAFFAR, A Business Consultant, Community Builder, Microsoft Student Ambassador, & Founder of Pakistan's biggest online Technical-Event (E-CARNIVAL PAKISTAN). He successfully organizes the enormous online technical event first time in the history of Pakistan, E-carnival Pakistan offered people various technical, Islamic, entertainment and E-games based competitions. An effort was made to enhance and polish the skills of students through Online webinars by National and International speakers.

Fortunately, in the time of lockdown E-carnival successfully gathered several universities all around the Pakistan and more than four thousand participants & audience gathered worldwide in this event. The included activities were varying from educational to entertainment and to the E-games. Students showcase their talent and got a chance to learn from international speakers.

She is *Muskan from 19SW*, an exemplary student who is hardworking, dedicated, passionate, responsible, and supportive. It was always her goal to encourage female students to get involved in all activities and show their interests. This vision led her to be selected as the *“first Pakistani Women in Computing (PWiC) Campus Lead from the SWE dept of MUET Jamshoro.”* Her mission is to assist and empower all females in advanced technology. Very Best of luck to her.

MUSKAN





**RASHID
WASSAN**

- * Ex-Director Management at SES
- * Director IT - HULT Prize MUET
- * Ex-Google DSC Lead
- * Beta MLSA
- * Founding Member - Huawei Community Pakistan
- * Only Pakistani in top Stack Overflow contributors in Flutter.
- * Placed at ACS Japan
- * Completed 2 years of professional experience as a Flutter developer at IsaaTech.
- * Winner 2X SES SPEOD
- * Elevator Pitch Round Judge at PITB Incubation Wing
- * Founded KaamSay.pk

Bearing the palm in Python programming, I have developed numerous projects in computer vision namely, **face recognition based attendance system, live sketcher, and Age and Gender Detector**. I also have **expertises in Flutter** and I have recently developed **full fledge whatsapp clone, Expense Tracker App, and Habit Tracker App**.

Besides, I have been on many prestigious positions in various societies which are mentioned below:

- Director Editorial at SES, MUET.
- Vice President Student Energy MUET chapter.
- Content Writer at MLSA, SZAB Campus.
- Campus Ambassador by International MUN.
- Chief Content Strategist at TechInborn (startup) at National Incubation Center.
- Internee by Forage Group of Companies.

**SHAHZAD
PANHWAR**





**TABISH
REHMATULLAH**

He was selected as *President of the Software Engineering Society (2021-2022)*.

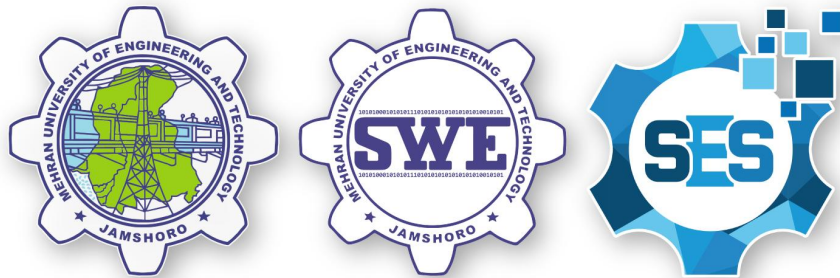


**KAAMSAY
(STARTUP)**

KaamSay, an idea to decrease the poverty by providing work opportunities to people and creating jobs. *KaamSay is a SaaS*, providing services to people to hire any worker through our app, and any person can find job through KaamSay. Worker can be from any domain, Gardener, Cook, Chef, Carpenter, Electrician, etc. *Founded by Mr. Rashid Wassan, CEO of KaamSay, along with his Partners Tabish Rehmatullah, COO, and Mahtab Chelani, CTO.*

IN CONVERSATION WITH FORMER PRESIDENT

2020-2021



EDITION 3
NEWSLETTER 2020-2021

YUSRA FATIMA

What was your first feeling when you heard you were announced as the president of SES?

Before the announcement, I was pretty sure that I was going to be in the core team of SES as some designation in the Executive Council, I didn't even have a thought of being in Executive Board, but when the post came in the group by the previous body, I was so shocked that for a moment I was just standing still. After a moment, I wanted to scream out loud. I patted my shoulder, thinking I did it.

What was your vision as a president?

Before I was selected as the president, I was a council member of SES, so whenever I worked with a team I realized that everyone is working so hard for the department. Since then, I had wanted to do something to take my department to the next level, to do events in our surroundings as well, do something that can be marked in everyone's mind that, "Yes, SES did something great for the tech community."

Being a president of society, how it affected your life?

In between my last interview for president-ship when our Chairman Prof Dr Naeem Mahoto asked questions and made me realize the word "Responsibility". That one word made me realize that how as a human I should serve the community and what kind of responsibilities that I need to fulfil to be called a better part of the tech community and to be part of a good community. This whole tenure made my name prominent and made me, my family, my friends to be proud of me.

Any unforgettable moment during the tenure?

Seminar of Artificial Intelligence, Auditorium filled with hundreds of people from different places, my teachers sitting in front of me, well-known speakers and me giving the Vote of Thanks on dice for the successful event that happened outside the department for the first time. It just gave me goosebumps and tears.

How would you summarize your 1-year tenure in a line?

A thriller movie with a happy ending.

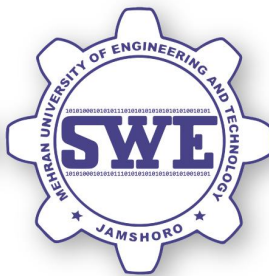
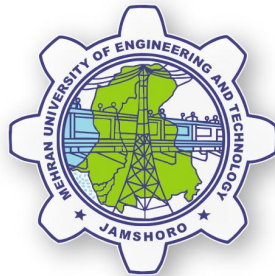
Thank you note:

This whole society made me realize who I really am, to my few but most amazing team members who supported me in whole tenure, to all the teachers of my department, Thank you so much for choosing me to be the best.

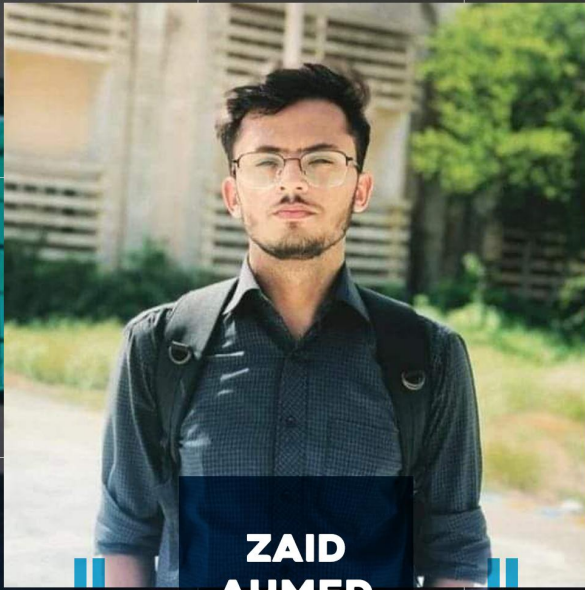


ACHIEVEMENTS

20TH BATCH



EDITION 3
NEWSLETTER 2020-2021



**ZAID
AHMED
SOOMRO**

- Selected as GDSC lead, MUET Chapter 2022-2023

- Speaker: Webstar

- Winner: SPEOD

- Organizer in multiple local events

- A cross platform Developer

- Director Management at Software Engineering Society.

- Web developer for TAC

-Evolvve.io(Startup):
Working as a Website Developer

-Won Webstar Roadmap of Mernstack (SES Bootcamp)

-Won SPEOD'22

-Head Director of Management (SES)

**KASHAF
ABDULLAH**





**MUHAMMAD
USMAN**



**FAHAD
AHMED**



**KUBRA
GHAFOOR**



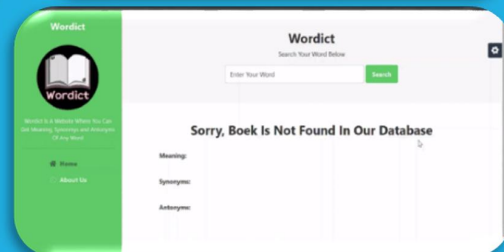
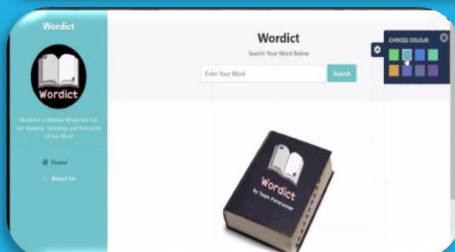
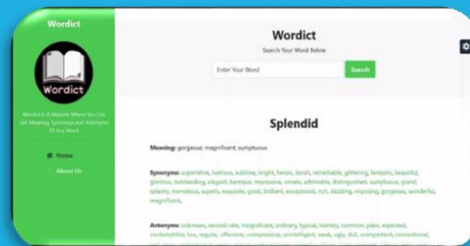
**AMBER
ARAIN**

Project name : Wordict

Wordict is a dictionary website developed by 4 students from Software Engineering Department , Mehran University of Engineering and Technology, Jamshoro for the project expo named as Open Day '21. Wordict will provide you the meaning, synonyms and antonyms of any word you search. Which will help you to understand your subjects better.

Technologies used:

- PYTHON DJANGO
- BOOTSTRAP
- HTML, CCS AND JAVA SCRIPT
- Web scraping used for getting data from other 2 websites





**ZAMEER
ALI**



**SHAHZAD
HAIDER**



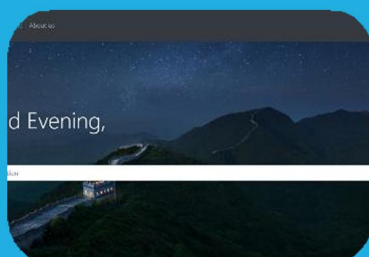
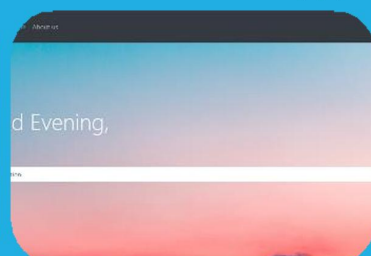
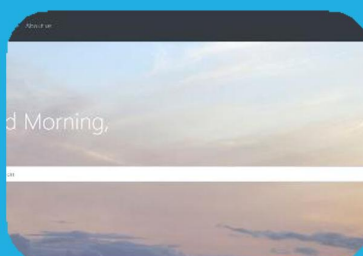
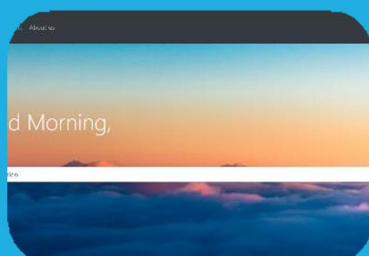
**ZAID
AHMED**



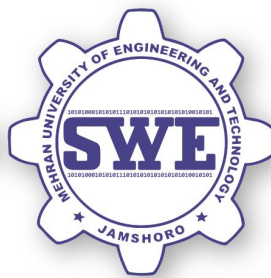
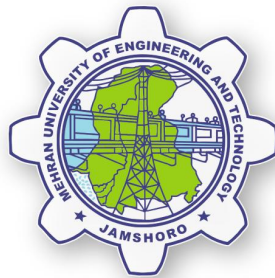
**FARHEEN
QAZI**

Project named Wetha, is a weather forecasting website developed by 4 students from Software Engineering Department, Mehran University of Engineering and Technology, Jamshoro for the project expo named as Open Day '21.

Latest web technologies are used in the development of this website which include Bootstrap v4.1, Bootstrap v5, and Node.js. APIs used for getting the data, and search suggestions include Open Weather and Google Places respectively.



WORKSHOPS & EVENTS 2020-2021



EDITION 3
NEWSLETTER 2020-2021

WORKSHOPS & EVENTS

SEMINAR
WORKING WITH OPENGL
REGISTRATIONS ARE OPEN FOR
19TH AND 20TH BATCH



DR.SANIA BHATTI
SPEAKER

VENUE: SOFTWARE DEPARTMENT
TIME: 11am TO 1pm

REGISTER YOURSELF ASAP!

SES MUET

WORKING WITH OPENGL

SEMINAR
WORKING WITH ADVANCE EXCEL
ON TUESDAY 9TH NOVEMBER 2021



DR.SANIA BHATTI
SPEAKER

VENUE: SOFTWARE DEPARTMENT
TIME: 12pm TO 1pm

ONLY FOR 18TH BATCH

SES MUET

WORKING WITH ADVANCE EXCEL

Webinar
Let's Stackup Our Career!



Mashal Bhatti Bhagia Sheri Pooja Kumari

20th February 2021 6 p.m

PLATFORM: MS TEAMS

SES MUET

<https://sw.mueta.edu.pk/>

LET'S STACKUP OUR CAREER!

WORKSHOPS & EVENTS



Webinar
COMPUTER NETWORKING

5th June 2021 8 p.m



Dr. Qasim Ali Arain
Associate Professor

ONLY PAID PARTICIPANTS WILL GET CPD POINTS

ELIGIBILITY CRITERIA FOR CPD POINTS
FINAL YEAR STUDENTS OR GRADUATE
(OUTSIDERS CAN ALSO APPLY)

MS Teams Platform 250 Rs for CPD points 0313 3268855 Ramsha Daudpota

VISIT www.facebook.com/sesmuet FOR DETAILS

COMPUTER NETWORKING

DATA WAREHOUSING



Seminar
DATA WAREHOUSING



Dr. Naeem Mahoto
Chairman Software Dept. MUET

VENUE
Software Department, MUET

31st March 2021 10:30 a.m



[/SESMUET](https://www.facebook.com/SESMUET) <https://sw.muuet.edu.pk/>



Workshop
Outcome Based Education

10th February 2021 11 a.m Onwards

VENUE: Software Department, MUET

Resource Person



Dr. Naeem Mahoto
Chairman Software Dept. MUET

[/SESMUET](https://www.facebook.com/SESMUET) <https://sw.muuet.edu.pk/>

OUTCOME BASED EDUCATION

WORKSHOPS & EVENTS

BOOTCAMP
Scratching Freelance Treasures

8th April, 2021 to 9th April, 2021
Microsoft Teams

DOCKET:

- Basic about GIG creations.
- Different niche services that can be offered in freelancing.
- Different platforms for freelancing.
- How to communicate.
- Why you're not getting orders.



FIRST SPEAKER
Saqib Baloch

[f](#) [i](#) [l](#) [t](#)

SCRATCHING FREELANCE TREASURES SPEAKER - 1

SCRATCHING FREELANCE TREASURES SPEAKER - 2

BOOTCAMP
Scratching Freelance Treasures

10th April, 2021 to 11th April, 2021
Microsoft Teams

DOCKET:

- How to be a good freelancer.
- Top 15 In-demand freelancing skills.
- Easiest freelancing jobs.
- Professional deals and norms of freelancing.
- How to improve your skills to stand out.
- How can you do offline freelancing.



SECOND SPEAKER
FARHAN JAYY

Registration fees: 150/-rs
Payment via
Raimsha Daudpota
Jazzcash 03133203095,
Easypaisa 03133263865.

[f](#) [i](#) [l](#) [t](#)

GRAPHIC DESIGN

Digital Kalakar!
A BOOTCAMP TO MASTERY THE ART OF GRAPHIC DESIGNING



Muhammad Muzammil

VENUE: SOFTWARE DEPARTMENT
DATE & TIME: 8TH DECEMBER 2021, 12pm TO 2pm

CERTIFICATES WILL BE PROVIDED!
REGISTRATION FEES: RS.200/-

<https://forms.gle/1q1sLFWFLXQ9Nbpw8>

[f](#) [i](#) [l](#) [t](#)

DIGITAL KALAKAR!

WORKSHOPS & EVENTS



**WEBINAR ON
LATEX**

The Art of Professional Typesetting

8th January 2021 4 p.m



By: Zubair Sangi

**ONLY PAID PARTICIPANTS
WILL GET CPD POINTS**

ELIGIBILITY CRITERIA FOR CPD POINTS
FINAL YEAR STUDENTS OR GRADUATE
(OUTSIDERS CAN ALSO APPLY)

MS Teams platform | 250 Rs for CPD points | easypaisa JazzCash 0313 3263855 Ramsha Daudpota

VISIT www.facebook.com/sesmuet FOR DETAILS

WEBINAR ON LATEX

HEALTH AND SAFETY COMPUTING BACKSTOP



**Webinar
Health and Safety
Computing Backstop**



Tabish Mehtab

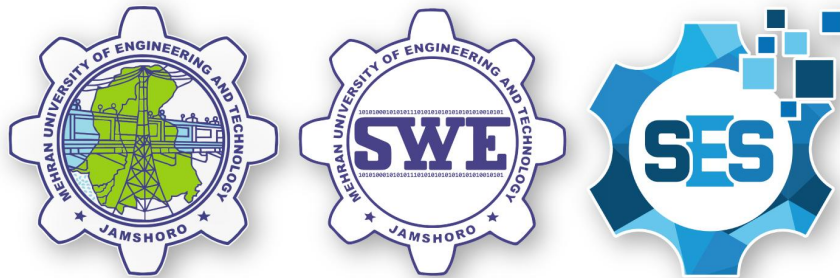
26th March 2021 4 p.m

PLATFORM: MS TEAMS



[/SESUET](https://www.facebook.com/sesmuet)
<https://sw.muett.edu.pk/>

SOFTWARE PROJECT EXPO OPEN DAY 2020-2021



EDITION 3
NEWSLETTER 2020-2021

SPEOD 21

SPEOD is well known event of Software Department, MUET. In SPEOD students show their projects related to tech and compete with each other. SPEOD takes place every year in software department. This event lets students to show their abilities.

WINNING AND RUNNING UP TEAMS OF SPEOD'21:

ALL THE BATCHES FROM SOFTWARE
DEPARTMENT PARTICIPATE IN SPEOD

18TH BATCH



SPEED 21

19TH BATCH



Speed'21
2ND YEAR BATCH



Rashid Wassa, Mehtab
LaborOnline
WINNER

<https://sw.muett.edu.pk/>



Speed'21
2ND YEAR BATCH



Abdul Aziz Khoso
Typingmania
RUNNER-UP

<https://sw.muett.edu.pk/>

20TH BATCH



Speed'21
1ST YEAR BATCH



Zameer Ali, Zaid Ahmed, Shahzad Haider, Farheen Qazi
Fully Responsive Weather
Forecasting Website
WINNER

<https://sw.muett.edu.pk/>



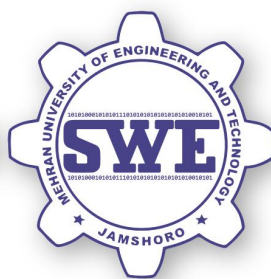
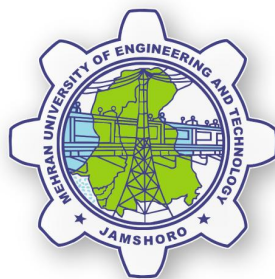
Speed'21
1ST YEAR BATCH



Muhammad Usman, Fahad Ahmed, Kubra Gafoor, Ambar
Wordict
RUNNER-UP TEAM

<https://sw.muett.edu.pk/>

ABOUT FIXINS' ABOUT ML EVENT



EDITION 3
NEWSLETTER 2020-2021

FIXINS' ABOUT ML

FIXINS' ABOUT ML:

Webinar of two days.

-The first speaker of this webinar was

Sir Owais Raza.

-The second speaker of this webinar was

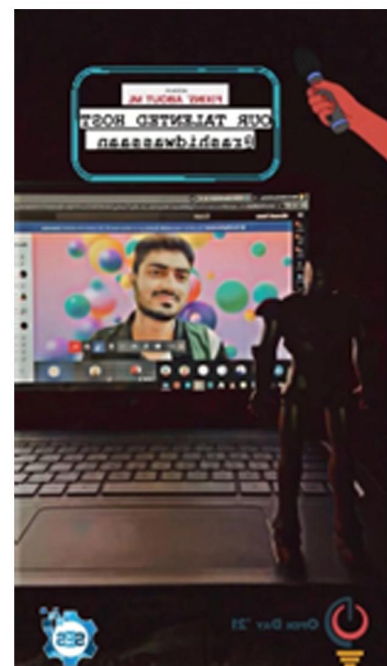
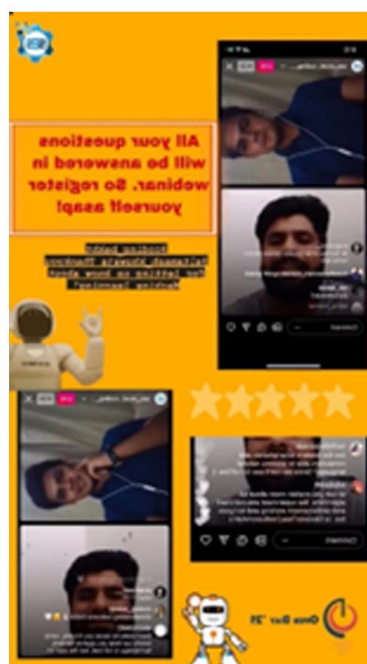
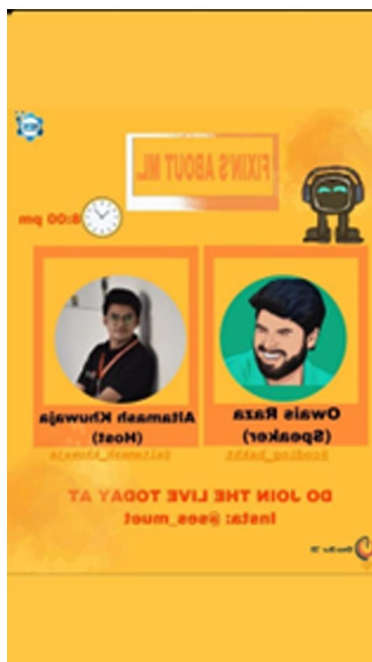
Rashid wassan.

-Date: 30th August 2021.

-This webinar was based on Machine Learning.

-Platform where this webinar took place was

MS teams.



**DESIGNED BY:
ROHAT IFTIKHAR &
MISBAH QURESHI**

**CONTENT
COMPILATION BY:
DUA MIR &
SHAHZAD**

**PICTURE CREDITS:
MISBAH QURESHI &
MEHAK NIZAMANI**

THANK YOU!

SOFTWARE ENGINEERING
DEPARTMENT

