

Faculty of Engineering Science & Technology

NEWS

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Faculty of Engineering Science and Technology

The Faculty of Engineering Science and Technology (FEST) is one of the leading technical education providers in the country. Our Faculty was formed by merging two faculties, Faculty of Science formed on the 3rd August 2013 and Faculty of Engineering Technology on the 1st January 2018.

Our aim is to provide educational excellence in the areas of Computer Science, Marine Science, Physics, Chemistry and Biology and Architecture.

Our Computer Science courses are benchmarked internationally and is aligned with the CISCO networking curriculum. Our students will get hands on experience with the latest state of the art devices and will be using actual devices instead of simulated software.

Architecture is another strong area in our departments. Architecture is one of the most popular courses in this Faculty. Our Architecture courses are designed by our international affiliations and are also benchmarked internationally. Our lectures are leading architects in the industry.

For sciences we have the best laboratory facilities in the country and are taught by experienced lecturers.

Engineering is another area we are strong in. We have well equipped labs for mechanical, electrical, and electronics and students studying these courses will get exposed to these labs.

We are proud to say that most of our graduates are employed and some are even doing research work in well established institutions.



ENGINEERING, SCIENCE & TECHNOLOGY
Be the Problem Solver

Courses Offered

Certificate 3 in Electrotechnical Technology	Bachelor of Civil Engineering (Hons)
Certificate 3 in Engine Repair and Maintenance	Bachelor of Computer Science
Certificate 3 in Welding & Sheet Metal	Bachelor of Environmental Management
Advanced Certificate in Electrical & Electronics Engineering	Bachelor of Information Technology
Advanced Certificate in Engine Repair & Maintenance	Bachelor of Interior Design
Advanced Certificate in Information Technology	Bachelor of Marine Science
Diploma in Environmental Management	Bachelor of Science (Physics, Chemistry, Biology)
Bachelor of Arts in Architectural Design	

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Course Info 



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THE MALDIVES NATIONAL
UNIVERSITY

Expanding minds . . . extending horizons
Faculty of Engineering Science and Technology

Artificial Intelligence (AI) and Architecture!

Staying current with the latest technology is crucial for professionals in all fields, and this is particularly true for architects and designers. One area of technology that is particularly relevant to this industry is Chat GPT, also known as Generative Pre-trained Transformer. This type of AI has the potential to significantly change the way architects and designers work, providing both opportunities and obstacles to overcome.

Chat GPT is a variation of GPT, a widely used language generation model, that is tailored for chatbot applications. It has been trained on a large dataset of conversational transcripts, which allows it to generate human-like responses to inputs. GPT models employ a combination of unsupervised learning and transformer architecture to generate text that is both coherent and varied. Chat GPT takes this a step further by including knowledge of conversational dynamics and the capability to respond suitably to a given context. Here are a few ways in which ChatGPT could potentially be used to help architects and designers:

- 1.Utilizing ChatGPT for creating detailed descriptions and specifications for architectural and design projects including material lists, technical drawings and other relevant documentation.
- 2.ChatGPT can assist in producing proposals and presentations for architectural and design projects by creating text that explains the design concepts, ideas and the benefits of the design.
- 3.ChatGPT can be used to research and gather information on different topics related to architecture and design such as building materials, construction methods or design trends.

It's important to note that while ChatGPT and other forms of AI can bring many benefits to the design industry, there are also challenges that need to be considered. One of the main concerns is that AI could eventually replace human designers altogether. However, it's unlikely that this will happen anytime soon and even when it does, human input will still be needed to verify and make changes to the AI's designs based on the specifics of each project. This could lead to job displacement and a decline in demand for traditional design skills. It's important for architects and designers to stay up-to-date on the latest technology and continue to develop their skills in order to stay competitive in the job market. The role and skills of architects and designers have already changed dramatically in recent years with the advent of technology, automation and digitalization. Architecture, more than many other professions, has been heavily impacted by technological advancements, not only in the creative process but also in the materials used in construction.

There are many other AI platforms and technologies that can help professionals in various industries.Descript is an audio word processor that allows users to view and edit any audio file as text,

JasperAI is an AI platform that helps businesses automate and optimize their marketing efforts, Canva is a graphic design platform that uses AI to help users create professional-quality designs quickly and easily, WriteSonic is an AI platform that uses natural language processing to help users create high-quality copy, and DALL-E 2 is a new AI system that can create realistic images and art from a description in natural language, created by OpenAI. These are just a few examples of the many AI platforms and technologies that are available to help professionals streamline their work and create better results.

For example, IA DALL-E 2 has been requested to create a realistic image for maldives in future and the generated images were so realistic and impacted by maldivian heritage, architectural style and expected impacts of climate change as shown in the following figures.



There are various AI platforms and technologies that can help professionals in the design, construction, and timber industries to streamline their work and produce better results. As the field of AI continues to advance, it's likely that even more powerful and sophisticated tools will emerge in the future. However, it's important to note that the use of AI in the construction industry presents both opportunities and challenges for architects and designers. Therefore, it is crucial for professionals in this field to stay current and adaptable in order to stay relevant in the changing job market. As AI continues to be integrated into the industry, it will be important for architects and designers to embrace the technology and find ways to integrate it into their work in a way that benefits their clients and their own careers.

FEST student Randha Adam won the APJC NetAcad Rider Competition



The APJC (Asia Pacific, Japan, and Greater China) NetAcad Riders competition is an interactive networking skills contest that enhances classroom learning, unites students from across the region, and promotes further technology education and training. This is an international competition where several students from the Asia Pacific region take part in this competition. This competition is organized by Cisco Networking Academy. Two students of FEST, Ibrahim Bassam and Randha Adam took part in this prestigious competition. The competition is comprised of three rounds and Randha has managed to reach the final round, and won the competition at the country/region level.

Award was given to Randha during the NetAcad Evening 2022 held last December.

