



Central University of
Technology, Free State

3D DESIGN COMPETITION

Open to all registered CUT students (Welkom and Blomfontein Campuses)

fablab

Think it! We help you make it!



YOU ARE CHALLENGED TO ONE OF THESE CATEGORIES:

1

DESIGN AN EDUCATIONAL TOY

The participant should develop an educational toy that strive to promote learning maths and science in a new fun and interactive manner

2

DESIGN A FASHIONALBE ACCESSORY

The participant should should develop a stylish fashion accessory that promotes the feasibility of 3D printing in the fashion industry

3

DESIGN A KITCHEN UTENCIL

The participant should develop an accessory to be used in the kitchen utilizing the capabilities of 3D printing, to increase ease of use, or a new novel method or tool in the kitchen

Design files can be submitted to the FABLAB via email.

gbarnard@cut.ac.za

tdintwe@cut.ac.za

**COMPETITION CLOSSES ON
27 SEPTEMBER 2021 AT MIDNIGHT**



3D DESIGN COMPETITION INFORMATION



TECHNICAL SPECIFICATIONS

Technical assistance would be provided on specific matters in the design, although the responsibility of completing the project ultimately resides with the inventor/participant.

The competitor is solely responsible for the CAD design of their respective entries. (Lab PC's available to design).

The competitor is expected to download Fusion 360 here:
<https://www.autodesk.com/products/fusion-360/free-trial>

YouTube can be consulted to assist with using the software.

Design files can be submitted to the Fablab via email to gbarnard@cut.ac.za or tdintwe@cut.ac.za (any CAD format can be submitted).

The winners will be invited to produce their design physically at the lab with the machines available.

Appointments to visit the Fablab can be made via Facebook
(<https://www.facebook.com/FablabBloemfontein>)

The 3D printing would primarily be based on FDM technology (fuse deposition modelling) and therefore the technology's limitations should be factored into the design of prototypes.

The prototype parts may not exceed **120mm x 120mm x 120mm** (Length, width, and depth) to be manufacturable as well as cost effective. The prototype may exist from multiple such assembled components.

Closing date for Submission's midnight 27 September 2021

3D DESIGN COMPETITION INFORMATION



JUDGING CRITERIA

All prototypes developed by the inventor/participant would be scored along the following elements:

Inventiveness
Novelty
Functionality
Perceived value
Creativity
Aesthetic appeal
Target Market

GENERAL REMARKS

Time management is crucial for competing in this competition since the conceptualization as well as development of the inventor's skill resides with the developer. Material use should also be kept in mind, in order to still be cost effective. Structural integrity as well durability should also be factored into the design of these prototypes in order to ensure functionality.

PRIZES

An FDM 3D Printer from iGym towards the overall winner of the competition
Sponsored by EDHE (Training can be provided)

5x R1000 manufacturing vouchers at the Fablab to produce your product
Sponsored by EDHE

3D DESIGN COMPETITION REGISTRATION FORM



NAME AND SURNAME:

EMAIL:

MOBILE NUMBER:

STUDENT NUMBER:

DESIGN CATEGORY:

NAME OF YOUR PROJECT:

NAME OF YOUR CAD FILE:

Design files can be submitted to the FABLAB via email.

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Terms and Conditions

Acceptance

By entering the Fablab Design Competition, the Entrant agrees and undertakes to be bound by and comply with the terms and conditions for entry to the Competition. That in the event that the Entrant fails to comply with the terms and conditions of entry for any reason, their entry shall not be eligible and shall be disqualified from the Competition.

"The Company" hereafter refers to the Fablab

Terms and Conditions of Entry

In order to be eligible for entry into the competition, the Entrant must be a student of Central University of Technology and currently registered with proof of Registration (if requested).

Any person who is an employee or on the management committee of Fablab and/or any other agent, promoter and/or other person connected with the Competition and/or a member of their family shall be ineligible to participate in the Competition and will be automatically disqualified.

The Company shall be entitled, at its sole discretion, to declare that any entry is not to be entered for the Competition and is disqualified. In such an event, the Company shall not be obliged to the Entrant to advise them of their disqualification nor shall it be obliged to provide a reason for its decision.

All decisions of the Company shall be final and the Company shall not enter into any correspondence, dialogue and/or otherwise with any person regarding any aspect of the Competition.

All entries must be original, and not abusive, defamatory, offensive, derogatory, degrading and/or otherwise not acceptable due to the nature of the material submitted.

The Company may, at its sole discretion, decide that any entry is not eligible due to the nature of the content of the entry and may disqualify a person from the Competition and any such future events.

Prizes

The prizes shall consist of:

- FDM 3D printer for overall winner.
- Manufacturing Vouchers for Category winners.

The prizes are subject to change without prior notice.

The Competition starts on 30 June 2021 and the competition closes at midnight on **27 September 2021**. All entries received and/or made after that time shall not be eligible to be entered into the Competition and shall be disqualified. FABLAB reserves the right to change the dates or cancel the competition at any time.

Cost and Method of Entry

There is no entry cost. However, all costs incurred by you for the entry are your personal responsibility.

By filling in all the details required in the entry form online in English you are confirming your acceptance of the terms and condition of entry and completing the design and sending it to the Company. All entries must be completed by the deadline. All persons who enter by this method must have the permission of the person in whose name the computer is held and/or who pays the bill. An acknowledgement of entry will be provided by the Company, but no reference provided.

No responsibility can be accepted by the Company for any entries which are lost, incomplete, are delayed beyond the deadlines, fail to arrive, are damaged, are illegible, inaudible, are not transmitted, do not arrive and/or for any other reason are not received by the deadline and/or are ineligible. Any content that is not present in the entry that is in terms of the rules can lead to automatic disqualification.

No responsibility can be accepted by the Company for the cost and/or charges incurred in respect of any entries. The Company shall not be liable for any reason to any person who may enter the Competition and each person enters at their own risk and cost. FABLAB will not be held liable for any damage, injury, loss of intellectual property, theft, etc. that may occur during and after the competition period.

Grants and Licences

The Entrant hereby fully and unreservedly grants to FABLAB a non-exclusive, full and unfettered licence to perform and conduct any and all of the following (in full accordance with the unfettered discretion of FABLAB) "Work(s), Information and Metadata" worldwide free of any fee, in perpetuity, and without need for FABLAB to otherwise first seek approval/permission from the Entrant or any third party:

- broadcast the Entrant's "Work(s), Information and Metadata" including broadcast in any media, television programme, video, film, webcast, cable network, mass viewing, private viewing, theatre, cinema, websites, blogs, on any computer network (including the Internet) and the like (whether such broadcast is in digital form, analogue, film or otherwise);
- exhibit the Entrant's "Work(s), Information and Metadata" in any art gallery or exhibition;
- publish, print and distribute the Entrant's "Work(s), Information and Metadata" in any media, including (but not limited to) any magazine, advertisement, book, catalogue, periodical, publication, leaflet, document and the like;
- copy, manufacture and distribute copies of the Entrant's "Work(s), Information and Metadata" in any form (whether analogue, digital or otherwise), including (but not limited to) videos, movies, CDs, DVDs, digital files and the like;
- publish and distribute the Entrant's "Work(s), Information and Metadata" in the form of a web page or digital file on any computer network (including the Internet);

- promote the Entrant's "Work(s), Information and Metadata" in any manner deemed fit and suitable by FABLAB and in full accordance with the full and unfettered discretion of FABLAB;
- showcase the Entrant's "Work(s), Information and Metadata" in any trade show, event and the like;
- destroy, discard or otherwise dispose of the Entrant's "Work(s), Information and Metadata" and copies thereof in the possession of FABLAB; and
- otherwise use the Entrant's "Work(s), Information and Metadata".

Personal Image Release: In registering for the FABLAB Design Competition, the Entrant grants permission to FABLAB, its agents and others working under its authority, to take and to have full and free use of video/photographs containing their image/likeness. It is understood these images may be used for promotional, news, on-line/multimedia, research and/or educational purposes by and for FABLAB. The Entrant agrees that they are not entitled to remuneration, residuals, royalties or any other payment from FABLAB in respect of their image/likeness or its use. The Entrant release, discharge, and hold harmless, FABLAB and its agents from any and all claims, demands or causes of actions that they may hereafter have by reason of anything contained in the photographs or video.

The Entrant hereby fully and unreservedly grants to FABLAB the power and authority to grant sub-licences to any FABLAB Agent to conduct any of the acts stipulated in Clause 14 above and to assist FABLAB in conducting any such acts, with the limitation that such sub-licences do not exceed the scope of the licences provided in Clause 14 above.

The Entrant may terminate or withdraw the grants and licences stipulated in Clauses 14 and 15 above ONLY by communicating not less than six (6) calendar months written notice of such termination or withdrawal (as the case may be), upon which this Agreement shall be automatically terminated (without need for notice) on the same day as the termination/withdrawal of such grants and licences. Prize Winners

The prizes will be awarded at the iGym. The winning entries will judged by a panel of Judges who are in the 3D printing field. There shall be no independent supervision of the Competition and all decisions are at the sole discretion of the Company.

The decision of the Company as to the winners of the Competition shall be final.

No entrant can be awarded more than one prize per competition.

The winners will be notified by e-mail within the timescale specified below unless the Company decides at its sole discretion that the timescale for notification needs to be extended for any reason.

Winners will be notified by an email to the email address provided by the person when they entered the Competition within 25 working days of the date of the close of the Competition.

Any prize has to be accepted within 2 working days of the winner being notified. After that date no prize shall be available to that person and at the Company's sole discretion another eligible person may be selected for the prize. The Company will attempt to make contact with the winners via email and will do so twice a day for no longer than two working days.

The prize can only be awarded and/or taken by the person whose name is provided at the time of entry to the Competition. There is no cash available as an alternative to any prize, nor is the Company obliged to exchange and/or transfer any prize to another person.

Changes to Terms and Conditions of Entry and Prizes

The Company reserves the right at its sole discretion to withdraw and/or substitute any prize at any time for any reason. The Company may replace and/or substitute any prize with any products, goods, services and/or cash which it decides is appropriate in the circumstances.

The Company may at any time decide to change, cancel, amend, vary, delete, add to and/or otherwise alter the terms and conditions of entry, the prizes and/or any other part of the Competition. The Company shall not be required to send separate notification to each person who has and/or may enter the Competition.

Personal Information

The personal details which have been submitted for the Competition will be held by the Company. This information will only be shared with third parties involved with the Competition for the administration of the Competition and/or the supply and delivery of the prizes, as well as the delivery of newsletter selected by the entrant.

Force Majeure and Law

Where for any reason beyond the reasonable control of the Company the Competition cannot be carried out and/or completed as planned and/or advertised, then the Company reserves the right to cancel the Competition at any time and in such event shall not be liable to any person for any reason who may have entered the Competition.

The terms and conditions of this Competition shall be subject to the Laws of South Africa.

Publicity

All entrants shall have their name and designs displayed on all social media channels associated to FABLAB.

All entrants agree to the following publicity and marketing: Name appearing as per section 32 above.

Contact Details of Company

The contact details of the FABLAB,

gbarnard@cut.ac.za
tdintwe@cut.ac.za

051 507 3986