Tshwane University of Technology
We empower people

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT
DEPARTMENT OF ARCHITECTURE AND INDUSTRIAL DESIGN
Pretoria Campus

DIPLOMA IN INDUSTRIAL DESIGN
2022

PURPOSE OF THE PROGRAMME
The Diploma in Industrial Design is an undergraduate qualification preparing graduates for a career in industrial design. Industrial design is an international profession that plays an important role in a country's economic growth. In today's world, thousands of products are developed and designed to meet specific needs. Industrial design is part of the process of turning ideas into products that can be sold to mass markets.

What is Industrial Design?
Industrial designers typically create finished products that emphasise the look, feel, safety and convenience of a product. They also understand manufacturing materials and processes making sure that products can be manufactured at the right price for the intended target market. Before applying to study you must first find out more about Industrial Design.

Useful links are: **www.designboom.com, www.yankodesign.com, www.productdesignhub.com**

Careers in Industrial Design
Talented individuals who successfully complete this programme should be capable of providing junior level industrial design-related services. This may include being a member of a design and development team or a junior design entrepreneur.

Who should apply?
- Do you like to think about and solve practical problems?
- Can you think creatively and logically?
- Do you have creative or artistic ability?
- Can you see your sketched ideas as finished products that you can hold and use?
- Do you like to find out how things work and how they are made?
- Would you enjoy working in a manufacturing environment?
- Do you like to make things with your hands?

If you can answer yes to **ALL** the above questions, then Industrial Design may be a career worth considering.

How do I apply?
In order to be considered to study in 2022, you must complete all four of these steps by the set deadlines:
1. Meet the minimum academic requirements.
2. Complete TUT on-line application form on the TUT website. The deadline is 31 July 2021.
3. Submit a portfolio to the Department of Architecture and Industrial Design in Room 340, Building 2. The deadline is the end of September 2021.
5. Register in January 2022 at Building 2.
   In order to be considered for admission to this qualification, you must first meet the minimum academic requirements. If you are currently completing Grade 12, use your mid-year results to calculate the admission point score (APS). Remember that your final Grade 12 results need to comply with the minimum academic requirements.

a. **Admission requirement(s):**

FOR APPLICANTS WHO OBTAINED A SENIOR CERTIFICATE BEFORE 2008:

Admission requirement(s):
A Senior Certificate or an equivalent qualification, with a D symbol (50 – 59%) at the Higher Grade for English or a C symbol (60 – 69%) at the Standard Grade for English.

Recommended subject(s):
Physical Science, Visual Arts, Technical Drawing, Woodwork and Metal Work.

Selection criteria:
To be considered for this qualification, applicants must have an Admission Point Score (APS) of at least 21.

Assessment procedure:
Applicants with an APS of 21 and more will be required to submit a prescribed portfolio of work to the Department of Architecture and Industrial Design in order to be considered for selection. Places are limited as class sizes are small; make sure your portfolio is submitted before the deadline. The Department's selection decision is final and no discussion with unsuccessful applicants will be allowed. Please consult the website of the Faculty of Engineering and the Built Environment for the latest Industrial Design brochure for portfolio requirements. Applicants who were conditionally admitted based on their APS will be re-evaluated on their final Grade 12 results. The portfolio assessment outcome can be: Accepted / Waiting List / Not accepted. The portfolio will account for 60% and the APS for 40% of the total score.

FOR APPLICANTS WHO OBTAINED A NATIONAL SENIOR CERTIFICATE IN OR AFTER 2008:

Admission requirement(s):
A National Senior Certificate with an endorsement of a bachelor's degree or a diploma, or an equivalent qualification, with an achievement level of at least 4 for English (first or second language), and any five subjects including Mathematics or Mathematics Literacy with a combined score of 17 (five subjects excluding Life Orientation).

Recommended subject(s):
Computer Applications Technology, Consumer Studies, Design, Engineering Graphics and Design, Physical Sciences, Visual Arts.

Selection criteria:
To be considered for this qualification, applicants must have an Admission Point Score (APS) of at least 21 and an accepted outcome for the portfolio submitted by the applicant.

Assessment procedure:
Applicants with an APS of 21 and more will be required to **submit a prescribed portfolio of work** to the Department of Architecture and Industrial Design in order to be considered for selection. Places are limited as class sizes are small; make sure your portfolio is submitted before the deadline. The Department's selection decision is final and no discussion with unsuccessful applicants will be allowed. Please consult the website of the Faculty of Engineering and the Built Environment for the latest Industrial Design brochure for portfolio requirements. Applicants who were conditionally admitted based on their APS will be re-evaluated on their final Grade 12 results. The portfolio assessment outcome can be: **Accepted / Waiting List / Not accepted**. The portfolio will account for 60% and the APS for 40% of the total score.

English	Five other subjects, excluding Life Orientation	APS Total
4 (50%-59%)	17	21

Presentation: This programme is presented on a day-class basis only.

Intake for the course:
January only.

Duration:
Three years, presented as formal academic training at the Tshwane University of Technology.

Step 1 – Admission form
Complete an on-line TUT application form for admission. Deadline for applications: 31 July 2021.
The Tshwane University of Technology application form for admission is available at the website address: http://www.tut.ac.za/ or alternatively at Building 21, Pretoria Campus.

Step 2 – Prepare and submit a portfolio
Please take note that all the work in the portfolio must be your own work. No copying of information or work will be allowed. Evidence of copying will lead to disqualification of your portfolio and application.

Portfolio contents (all pages must be A4):

Page 1   Cover page with your surname and first names, cell phone numbers, age, school results, other studies, work experience. State if this is your first or second choice field of study. Declare that the portfolio is your own work.

Page 2   Using typed or neatly hand-written responses do the following:
- Using 10 to 20 words, describe how you got to know about Industrial Design?
- Have a good look at the Toyota Quantum minibus taxi. Look at the overall design and the detail design. What is good about the design, what is not so good about the design? Write your comments in a paragraph (40 to 100 words).
- Write a paragraph (40 to 100 words) explaining why you have chosen to apply for studies in this field?
- Write a paragraph (40 to 100 words) explaining anything you have done as a statement of your maturity?

Page 3   Using only a pen or pencil on one A4 page, produce freehand drawings showing a new product you have designed to solve a problem in your kitchen or bathroom. Include neatly written explanatory notes with your drawings. (Do not use engineering drawings or other constructed drawings. You may not use a ruler, set squares, compass or any other drawing equipment).

Page 4   Using one A4 sheet of paper, provide a set of detailed sketches and written instructions on how to make a wall mounted candle holder from an empty aluminium soft drink can (coke, fanta, sprite, etc.). Your candle holder design should safely support a standard white candle to be used as a night light in a bedroom. The aim of the information on your page is to instruct someone sufficiently for them to make up your design from an empty can. Please make and photograph your candle holder then submit at least one photo of your candle holder with your portfolio.

Page 5   Design and make an envelope from an A4 page. The design may not use glue or staples to hold the envelope together. The envelope design must be capable of securely holding a valuable photograph (140mm X 100mm in size) that you are planning to post to a friend using the South African mail service. (Make sure you submit your finished envelope with your name neatly printed on the envelope prototype with your portfolio).

Page 6   Two photos of something you made (not school projects).

Annexure: Any other supporting information must be on A4 format.

Submission of portfolio:
The deadline for portfolio submission is the last working day of September 2021. You can submit your portfolio in person or by secure postal mail.

In person:
Submit the portfolio at the Pretoria Campus, Department of Architecture and Industrial Design, Room 340, Building 2. Attention: Dr C Duff.

Postal address:
(Make sure that your posted mail has ample time to reach us before the deadline of 30 September 2021 as no late portfolios will be considered).
Attention: Dr C Duff
Tshwane University of Technology
Department of Architecture and Industrial Design
Building 2, Room 340
Private Bag X680
Pretoria
0001

Step 3 – Outcome of portfolio assessment
All portfolios submitted on time will receive a response by the last working day of October via the programme webpage. Possible responses will be: Accepted; Waiting list; Not accepted. **Please note that the decision of the portfolio assessment is final and no correspondence regarding the outcome will be allowed.**

DIPLOMA IN INDUSTRIAL DESIGN
Course code: DIND18

FIRST YEAR

CODE	SUBJECTS
BMN150D	Business Management I
CDD115D	Computer-Aided Design
EGG115D	Engineering Design I
FHE105D	Freehand Drawing
HAD105D	History of Art and Design I
ITD105D	Industrial Design I
MDR115D	Mechanical Engineering Drawing
MUR115D	Manufacturing I

SECOND YEAR
All second-year subjects are prerequisite before starting second year.

CODE	SUBJECTS	PREREQUISITE SUBJECTS
BMN206D	Business Management II	Business Management I
EGG216D	Engineering Design II	Engineering Design I
HOI205D	History of Industrial Design	History of Art and Design I
ITD206D	Industrial Design II	Industrial Design I, Free Hand Drawing, Computer-Aided Design, Mechanical Engineering Drawing, Manufacturing I & Business Management I
MIY205D	Material Technology I	None
MUR216D	Manufacturing II	Manufacturing I
PDW206D	Presentation Drawing II	Freehand Drawing

THIRD YEAR
All first- and second-year subjects are prerequisite before starting third year.

CODE	SUBJECTS
BMN306D	Business Management III
DTH306D	Design Theory
ERG316D	Ergonomics
ITD306D	Industrial Design III
MIY306D	Material Technology II
MUR316D	Manufacturing III
MUO306D	Multimedia Presentation

COST OF FIRST YEAR OF STUDY
Approximately R50 000.00

ENQUIRIES
Department of Architecture and Industrial Design
Tel: 012 382 4282/5252
E-mail: duffca@tut.ac.za
          https://www.idattut.com/
          https://www.facebook.com/tutindustrialdesign
          https://twitter.com/idattut
          https://www.facebook.com/TUTEngineeringFaculty

Please note that at time of publication, this information was correct, but Tshwane University of Technology reserves the right to amend all or any information without prior notification.