Tshwane University of Technology
We empower people

20 YEARS 2004-2024

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

DIPLOMA IN INDUSTRIAL DESIGN
2025

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 2025, 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 2024.
3. Submit a portfolio to the Department of Architecture and Industrial Design in Room 340, Building 2. The deadline is the end of September 2024.
5. Register in January 2025 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 2024.
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.

Due to capacity constraints, candidates will be selected based on the quality of the portfolio submission, academic performance, and/or work experience. Selection will be done after the closing date for applications. Please note that meeting the minimum requirements does not guarantee admission.

Step 2 - Prepare and submit a portfolio.
Please take note that all the work in the portfolio must be your 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 in A4 format):
Page 1 This is the cover page that must contain your surname and first name, cell phone numbers, age, school results, other studies, and work experience. State if this field of study is your first or second choice. Declare that the portfolio is your work.
Page 2 Using typed or neatly hand-written responses do the following:
 • Using 10 to 20 words, describe how you learned about Industrial Design.
 • Identify and look carefully at an outdoor bench or outdoor seating. Look at the overall design and the detailed design. What is good about the design, and what is not so good about the design? Write your comments in a paragraph, including photographs with labels and notes (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 linked to cooking at home. 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 cardboard packaging for only 3 eggs (use any thickness card). The design should use recycled cardboard (old box). The information on your page must aim to instruct someone sufficiently to make up your design from a recycled cardboard box. Please make and photograph your egg packaging then submit at least one photo of this with your instructions in your portfolio.
Page 5 Design and make a tea bag bin from an A4 page. The design of the bin/box may not use glue or staples to be held together. The bin design must be capable of storing three tea bags before being picked up and disposed of in a larger bin. (Make sure you submit your finished tea-bag bin with your name neatly printed/written on the prototype with your portfolio).
Page 6 Two photos of something you made (not school projects).

Annexure
Any other supporting information must be in A4 format.

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

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

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

Online:
Create a single PDF document of all the required pages (scanned documents and drawings, photographs, etc.) and send it to industrialdesign@tut.ac.za with the subject: **NDip Application**

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
MDG115D	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 4214
E-mail: IndustrialDesign@tut.ac.za
           https://www.idattut.com/
           https://www.facebook.com/tutindustrialdesign
           https://twitter.com/idattut
           https://www.facebook.com/TUTEngineeringFaculty

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