FRUGAL DESIGN

SENSE:
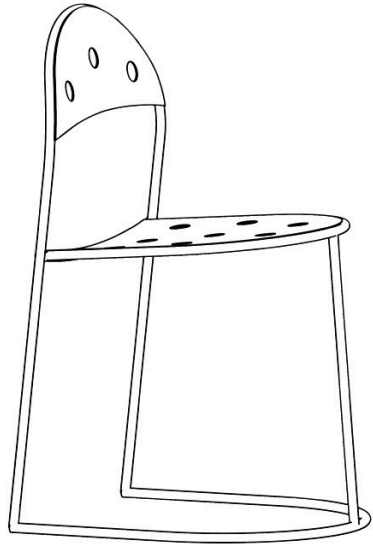AVOIDING UNNECESSARY EXPENDITURE
AND WASTE

FRUGAL DESIGN

FRUGAL DESIGN

FRUGAL INNOVATION/ENGINEERING WITH
DEPARTURE IN THE DESIGN PROCESS AND
WITH A HUMAN CENTERED,
COLLABORATIVE APPROACH

TO DO MORE WITH LESS FOR MANY
RE-USE, RE-PURPOSE AND RE-COMBINE

CHALMERS
UNIVERSITY OF TECHNOLOGY

JUA KALI
INNOVATION THROUGH LIMITATION

OSKAR LILLO

CHALMERS UNIVERSITY OF TECHNOLOGY
Gothenburg, Sweden 2020

Department of Industrial and Material Science
Division of Design & Human Factors

A frugal approach (with clear limitations), implemented in the design process → Innovation through LIMITATION

The design work is based on physical prototyping, throughout the process → Innovation through MAKING

FRUGAL DESIGN

in this course

The design work is conducted in teams, in a multi-disciplinary mode to bring in a variety of perspectives → Innovation through COLLABORATION

FRUGAL

CLOSING

READ AND
WRITE

EXERCISING

PRESEN-
TATION

SKETCHING
FOR
PRESEN-
TATION

ADAPTATIONS

"GET IT INTO
A WHOLE"

FINAL
CHOICE

USER INTERACTION

EVALUATION

SKETCHING
FOR
PRODUCTION

COMBINATIONS

DETAILS

FEW
IDEAS
LEFT

EVALUATION

DECISION

SKETCHING
FOR
IDEAS

PROJECT
START

MAPPING

OBSERVATION

COURSE CHALLENGES

- LEVEL AND GRADES
- SCHEDULE, PLANNING AND ATTENDANCE

- INTERNATIONALISATION