DESP:2000 PROJECT 2 PART A

WEEK 3 INTO WEEK 4

MODELLING GEAR TRAIN + ROWING ACTION MECHANISM

GENERATING THE PARAMETRIC FILE SET

- PART A 'concludes' on week 5



TO DO

Develop a detailed + resolved edition of your *rowing machine master model* – *this model needs to be ready to receive the rowing machine mechanism* – *which we will build as part of the week 4 modelling activities.*

As part of this preparation, insert the following models into your master model or your own worked version of these SW product forms - <u>https://www.designthink.space/virtual-</u> prototyping

- seat-pad
- handle
- foot pad models
- seat track bearing mechanism

Bearing mechanism links – for example

HEPC motion

SKF Bearings

RS components

Review the case study *video clips / press tableau / SW model* to help you to identify what is required and at what level of detail









3 concepts of practice

PARAMETRIC VIRTUAL PROTOYPING PROCESS – INTERATIVE - ADAPTIVE

MULTIPLE PORTFOLIO PUBLICATIONS – CUSTOMISED DIALOGUES

6 FACTOR BASED - DESIGN ANALYSIS + DESIGN SYNTHESIS - CONVERGENT







week 4 you could have the following 2 modelling processes ready to use in personal marketing

FUNDUS CAMERA PVP PROCESS + PORTFOLIO PUBLICATIONS

ROWING MACHINE PVP PROCESS + PORTFOLIO PUBLICATIONS

curve of development in CAD based design practice

developing independent CAD practices

professional quality, productivity + reliability

GEAR MECHANISM VIDEO TUTORIALS - to watch - only watch





Review the gear mechanism modelling videos which are available via this link. https://vimeo.com/channels/1613638 This is in preparation for the week 4 activity – the is no mechanism modelling required to be completed for Monday week 4



SUBSET FORM MODELLING

- rear leg
- front leg
- frame feet
- mechanism casing
- seat track
- seat pan chassis
- seat pan + bearing array + pad

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- foot paddles
- handle



02:remodel front leg

03:model frame feet feature



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06:static joint details





SW PHASE 3

CUSTOMISED TUITION

Notes Screen-grabs SW Models

you will receive an answer



01:remodel rear leg

07:main-folding joint detail





05:sliding-seat trackform

DOWNLOAD

REF MASTER MODEL

ACCESS ADDITIONAL PRODUCT FEATURES CONTENT

use directly or customise the modelling process to suite your model + your chosen brand





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02: hinge primary form