Recommendations and Notes of the Advisory Committee of Study Affairs (Bachelor/Master) (Studienkommission) for preparation and implementation of courses in winter term 2020/2021: the situation remains very *dynamic*, changes will always be possible at short notice.

**General:**
- **Website**
  - courses should be easily found, easily linked and kept up-to date
  - should include all information/materials/links
  - **Technology**: eg. OPAL
- **Virtual panel/discussion room**
  - platform for questions, comments or discussions regarding courses
  - open to all participating students
  - supervised
  - **Technology**: eg. matrix.tu-dresden.de, OPAL forum

**Lectures:**
- Essential: prepare for Video-format! (very very unlikely that all courses are taught in presence)
- Video format or at least audio format (or filmed lecture hall reading)
  - **Technology**: camera/recording device/software (e.g. OBS Studio)
    - Platform: e.g. youtube 'not listed', tablet
    - **SMARTboard**: B214, C213, TRE (→ Dr. Brose)
  - **important accompanying measures for video format**
    - in addition offer 'live' sessions (**Technology**: video conferencing tool)
    - in addition offer slides/manuscripts if possible
    - videos must be retrievable at all times (in case of bad internet connection, possibility to replay)

**Tutorials**
- should be held in presence as much as possible
- limitations because of number of attendees: if necessary, split group to create alternate groups attending presence tutorials and virtual tutorial groups (for the ones not present)
  - **Technology**: video conferencing tool, matrix.tu-dresden.de, CodiMD
- chat group for a small circle of people (just for the individual tutorial groups) in order to answer questions regarding exercises or lectures
  - **Technology**: eg. matrix.tu-dresden.de, OPAL Forum
- comprehensible solutions must be available to students

**Practical Courses:**
- will take place in presence as much as possible (additional tutors!)

**Seminars:**
- in presence or individual arrangement
- possibly split groups and/or video format
  - **Technology**: video conferencing tool

**Examinations will take place in presence.**

Be **cautious** and careful if there are any doubts regarding **copyright**.
Supporting Links Technology/Tools:

- **Experiences of the summer term 2020, Department of Physics in OPAL**
  https://bildungsportal.sachsen.de/opal/auth/RepositoryEntry/23047307346?11

- **Introduction SMARTboards** in B214/C213 including tutorial (Dr. Brose):

- **General informationen E-Learning-Tools** (OPAL, Onyx, Magma, invite, LimeSurvey...):

- **OPAL** https://bildungsportal.sachsen.de/opal

- **Video-conferencing tools:** BBB, GoToMeeting, Jitsi, Zoom
  https://tu-dresden.de/zih/dienste/videkonferenz
  - good experiences with BBB (up to 100 participants, slides can be uploaded, screenshare)
  - Chromium/Edge-based browser recommended

- **Survey tools for lectures:**
  - invite: https://invite.tu-dresden.de/
  - AMCS: https://amcs.website/
  - tool included in BBB

- **Messenger/Chat** https://matrix.tu-dresden.de/
  - Dokumentation: https://doc.matrix.tu-dresden.de

- **YouTube-Tutorials by Prof. Lasch** (there is more on his YouTube channel):
  Einführung zu wichtigen Tools:
  https://www.youtube.com/watch?v=390MqkAPqBs&list=PLzwHQfOPWZDFAUFQZauV02gC cFYQAUGSO

- **CodiMD for online tutorials:** collective notes/chat/presentation (LaTeX is also possible):
  https://demo.codimd.org/
  https://demo.codimd.org/bMIMtNMATJyvdFZbnON7qA?both#1-Newtonsche-Mechanik