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):
  https://bildungsportal.sachsen.de/opal/auth/RepositoryEntry/23047307346/CourseNode/101402873902791/wiki/Hybridvorlesungen;jsessionid=CAAEF241D57639C534BC348EE74DAB3C.opalN6

- **General informationen E-Learning-Tools** (OPAL, Onyx, Magma, invote, LimeSurvey…):
  https://matrix.tu-dresden.de/#/room/#digitale-lehre:tu-dresden.de, https://tu-dresden.de/tu-dresden/organisation/rektorat/prorektor-bildung-und-internationales/zill/e-learning

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

- Video-conferencing tools: BBB, GoToMeeting, Jitsi, Zoom
  https://tu-dresden.de/zih/dienste/videokonferenz

    - ❖ good experiences with BBB (up to 100 participants, slides can be uploaded, screenshare)
    - ❖ Chromium/Edge-based browser recommended

- Survey tools for lectures:
    - ❖ invote: https://invote.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=PLzwHQfOPWZDFaUFQZauV02gCcFYQAUGSO

- CodiMD for online tutorials: collective notes/chat/presentation (LaTeX is also possible):
  https://demo.codimd.org/
  https://demo.codimd.org/bMIMtNMATIyvdFZbnON7qA?both#1-Newtonsche-Mechanik