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**Modulbezeichnung:** Organic thin films (OTF) 5 ECTS  
(Organic thin films)

Modulverantwortliche/r: Rainer Fink  
Lehrende: Rainer Fink

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Startsemester: WS 2020/2021	Dauer: 1 Semester	Turnus: jährlich (WS)
Präsenzzeit: 45 Std.	Eigenstudium: 105 Std.	Sprache: Englisch

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**Lehrveranstaltungen:**

Organic Thin Films (WS 2020/2021, Vorlesung, 2 SWS, Rainer Fink)  
Seminar Organic thin films (WS 2020/2021, Seminar, 1 SWS, Rainer Fink)

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**Inhalt:**

- Molecular interactions and molecular self-organization
- Influence of molecular geometry and functionalization
- Thin film preparation techniques: Langmuir-Blodgett, Self-Assembled Monolayers (SAMs), other solvent-based techniques (e.g. spin-casting, doctor blading, etc.), vacuum sublimation
- Analytical techniques, in-situ analysis
- Effect of templates
- Organic thin film applications
- Seminars will be based on recent literature

**Lernziele und Kompetenzen:**

Students

- get insight into the major preparation techniques of organic thin films
  - are able to evaluate to prepare organic thin film specimens
  - know to analyse thin film specimens with respect to structural and electronic properties
  - are aware of recent studies and modern applications of organic thin films
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**Studien-/Prüfungsleistungen:**

Organic thin films (Prüfungsnummer: 65451)

Prüfungsleistung, mündliche Prüfung, Dauer (in Minuten): 20

Anteil an der Berechnung der Modulnote: 100%

weitere Erläuterungen:

O20(PL): Oral examination (20 minutes) or alternative examination according to FAU Corona Statutes!

Prüfungssprache: Englisch

Erstablesung: WS 2020/2021, 1. Wdh.: WS 2020/2021

1. Prüfer: Rainer Fink (070741)

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**Organisatorisches:**

Please note:

- Module will be taught **online** (synchronous) only in winter term
- Students have to register for the module (check registration periods)
- Registration/further information available via **StudOn**

**Bemerkungen:**

Module compability:

- lecture module can be taken as part of the Elective Module!