

## Courses in English Course Description

<b>Department</b>	05 Technical Systems, Processes and Communication
<b>Course title</b>	<b>Organic and Printed Electronics: from materials to electronic devices</b>
<b>Course number</b>	
<b>Hours per week (SWS)</b>	4
<b>Number of ECTS credits</b>	6
<b>Course objective</b>	The lecture Organic and Printed Electronics will give an overview of this field from the material to electronic devices.
<b>Prerequisites</b>	Printing technologies
<b>Recommended reading</b>	none
<b>Teaching methods</b>	Lectures, Guest Lectures, Work in small working groups, Presentations by students
<b>Assessment methods</b>	Term paper
<b>Language of instruction</b>	English
<b>Name of lecturer</b>	Martin Mayer
<b>Email</b>	<a href="mailto:martin.mayer@hm.edu">martin.mayer@hm.edu</a>
<b>Link</b>	
<b>Course content</b>	The lecture is structured in three different parts: material, process and devices. The material part includes the most important and used materials, like conducting polymers and small molecules. The part of process includes the typical used processing and printing techniques with a focus on functional printing. The device part will give an overview of the most important passive and active devices, from resistors and capacitors to devices such as OLEDs, OPV, transistors and sensors.
<b>Remarks</b>	