

关。GDAŃSK UNIVERSITY 多 OF TECHNOLOGY

Subject card

Field of study Electronics and Telecommunications Date of commencement of studies October 2023 Academic year of realisation of subject 2025/2026 Education level first-cycle studies Subject group Optional subject group bubget group related to scientific research in the field of study Mode of study Full-time studies Mode of delivery at the university Year of study 3 Language of instruction Polish Semester of study 6 ECTS credits 3.0 Conducting unit Department of Metrology and Optoelectronics -> Faculty of Electronics. Telecommunications and Informatic Name and summe of lecturer (lecturers) Subject supervisor drinz. Adam Mazkowski Learning activity and number of study hours Leason type Learlue Tutorial Laboratory Project Seminar SUM Learning activity and number of study hours Learning nours included .0.0 0.0 10.0 27.0 75 Subject supervisor The am of the course is to introduce students to the field of the Information visualization ny supervisor Subject our visualization ny supervisor Subject our visualization ny supervisor Supervisor Subject our visualization ny supervisor </th <th>Subject name and code</th> <th colspan="8">Information Visualization Systems, PG_00048087</th>	Subject name and code	Information Visualization Systems, PG_00048087								
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K6_W03] Knows and understands, to an advanced extent, the construction and operating principles of components and systems related to the field of study, including theories, methods and complex relationships between them and selected specific issues - appropriate for the curriculum presents basic physical phenomena and technologies of visualization systems; classifies and differentiates the properties and characteristics of visualization modules; measures electro- displays; evaluates the conditions for the application and selection of visualization modules to the requirements [SU1] Assessment of task fulfilment K6_U06] can analyse the operation of components, circuits and systems related to the field of study, measure their parameters and examine technical specifications measure selected display characteristics and interpret the results correctly [SU1] Assessment of task fulfilment Subject contents 1. Information Visualisation Systems; Elements, Functions, Properties 2. Displays; Classification, Characteristics, Properties 3. Human Visual Systems; Photopic, Scotopic Vision, Color Sensation, Colorimetry 4. Colorimetric for Colorimetric Characteristics of Displays 6. Liquid Crystals; Classification, Mechanical, Optical, Electrical Parame-ters 7. Electro-optical Phenomena in L C 8. Liquid Crystal Cell Construction 9. Operation of TN 10. Operation of DDLC, Guest-Host 12. Operation of STN, DSTN 13. LCD- ferroelectric, antiferroelectric 14. LCD Construction, transmissive, reflective, transflective Modes 15. Optimization of Color LCD 16. Passive Displays static and MUX (multiplexed) Driving 17. Active Matrix TFT LCD - genation of DDLP 24. Projection Displays, picoprojectors 25. Displays 3D (projection, FPD-3D) 26. Mikro-displays, SLM, Night Vision Systems 27. Jumbo Displays, Digital Cinema 28. Specjal Displays: HUD, VR, AR, Touch-screen 29. Future	Subject objectives									
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		No recomendations								

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Exams	50.0%	70.0%			
	Execution of the all laboratory exercises	50.0%	30.0%			
Recommended reading	Basic literature E. Lueder: Liquid Crystal Displays, Wiley 2001					
Ũ	upplementary literature No requirements					
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					