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born on: January 1, 1965

A Half Century of Internet: How it works today

Teaching Team: Prof. Dr. Christoph Meinel

Duration:	Nov. 2, 2020 - Dec. 7, 2020	Exam:	2 Hours, 60 Questions
Language:	English		Multiple Choice
Credits:	2 ECTS recommended		
Teaching form:	Online Course		

Course Topics:

- Digitalization of the World (introduction, history, humans in the focus)
- Computer Networks (bits and bytes, LAN, WLAN, WAN)
- Network of Networks, internetworking, internet protocols
- Transport through the Internet
- Internet Applications (WWW, e-mail, social media)
- Internet and Web Security (digital identities, cybercrime, risks, precautions)

Result:

94.6 out of 100 possible points (94.6%)

Is part of the top 5% active course participants

Prof. Dr. Christoph Meinel
openHPI Director



Potsdam, December 15, 2020

Verify online: <https://open.hpi.de/verify/XXXX>



openHPI is the education platform of the Hasso Plattner Institute (HPI) for Digital Engineering. Together with the University of Potsdam, the Hasso Plattner Institute forms the Digital Engineering Faculty of the University of Potsdam. The university's teaching focuses on a variety of practical and engineering-oriented study programs.

openHPI Massive Open Online Course (7 Weeks)

Teaching Form	e-Learning course consisting of video lessons, self-tests, reading materials, homeworks, and final exams	
Scope of the Course	2,5 SWS; 6 course weeks, 1 examination week	
Credit Points	2	
Accumulation of ECTS Points of Several Courses	6 ECTS points are assigned by Hasso Plattner Institute for 3 completed Massive Open Online Courses	
Content	The content of the course is as stated on the certificate. Detailed description of the content is described on the Course Detail page of the respective course at https://open.hpi.de/courses	
Exercise and Examination (Number, Scope)	7 (6 graded weekly homework exercises, 1 final exam)	
Verification of Examination Performance	<ul style="list-style-type: none"> • The examination is monitored using the webcam • Machine facial recognition is used to check that the exam participant matches the course application • The photo of the exam participant is printed on the certificate 	
Participation Requirements	None	
Percentage Points	Grade in Number	Grade in Certificate
95 to 100	1,0	Excellent
91 to 94	1,3	Excellent
85 to 90	1,7	Good
80 to 84	2,0	Good
76 to 79	2,3	Good
70 to 75	2,7	Satisfactory
65 to 69	3,0	Satisfactory
61 to 64	3,3	Satisfactory
55 to 60	3,7	Passed
50 to 54	4,0	Passed
Below 50	5,0	Failed

A Half Century of Internet: How it works today

Course Description

The course helps participants understand the following topics:

- What the technical construction principle of the Internet looks like in its main features
- How data is transferred from one computer to another
- How data packets find their way through the interconnected individual networks of the Internet
- How mobile devices, sensors and machines communicate with each other via the Internet
- Which applications ensure that you can surf the World Wide Web and send or receive e-mails or films
- That security on the Internet - not considered a design feature from the outset - must be protected against possible attacks

Participants are able to evaluate:

- What have so far been the key personalities and milestones in the development of the Internet so far
- Which developments have been successful or unsuccessful in the Internet's 50 year old history
- The important role the Internet has taken on in the economy, society, and politics
- How the Internet is being misused for criminal purposes and how to protect yourself against it
- Which development the Internet is likely to take in the future