COURSE SHEET

Course name	Service platforms and applications for Next Generation Networks
Acronym	SPAN

Level:

<u>Bereti</u> .	
1. (BSc)	2. (MSc)
	X

Field of study:

 - title of attempt		
Electronics and Telecommunications	Control Engineering and Robotics	Informatics
X		

Person responsible for the course:

Name:	Marcin
Surname:	Narloch
E-mail:	Marcin.Narloch@eti.pg.gda.pl

List of Topics - Lecture

No	Topic		L	No of hours			
NO	Topic		knowledge			ills	
		Α	B	C	D	Ε	
1.	The importance of service platforms in the context of NGN	Х					1
2.	IMS as an example of NGN service architecture	Χ					0,67
3.	The role of the IMS service control layer for providing services		Х				0,67
4.	Interworking with application layer in IMS for providing services		Χ				0,33
5.	Technologies of IMS application layer development	Χ					0,67
6.	The role of component-oriented architectures in applications for NGN	Х					1
7.	Java EE environment in programming applications for NGN		Х				1
8.	JAIN SLEE in the context of applications for NGN		Х				0,67
9.	Service execution environment (SLEE Container)		Х				0,67
10.	JAIN SLEE components and component interfaces		Х				1
11.	Standard components (Event and Activity) and their role in JAIN SLEE		Х				0,33
12.	SBB (Service Building Blocks) for providing services in JAIN SLEE		Х				1
13.	The notion of event and event handling in JAIN SLEE		Х				1
14.	Communication with environment through Resource Adaptors and Resource API		X				1
15.	Standard functionalities of application server		Х				0,66
16.	Application of standard Java API for service functionality extension		Х				1
17.	Elements of JAIN SLEE environment management (JMX)		Х				0,33
18.	Specificity of JAIN SLEE application programming		Х				1
19.	Analysis of JAIN SLEE application in different telecommunication areas			X			1
20.	Analysis of exemplary JAIN SLEE applications			X			1
21.	SIP Servlets in the context of applications for NGN		Х				1
22.	SIP Servlet Container		Х				1
23.	Application router		Х				1
24.	SIP Servlet API and applications developed with SIP Servlet API		Х				1
25.	Specificity of SIP Servlet application programming			Х			1
26.	Analysis of exemplary SIP Servlet applications		1	Х			1
27.	Mobicents as an example of platform for NGN application development		1	Х			1
28.	Architecture for providing Parlay/OSA services		Х	İ	1		1
29.	Applications using Parlay/OSA API		Х	İ	1		1
30.	Application of Parlay X Web Services		Х				1
31.	Specificity of Parlay/OSA application programming		1	Х			1
32.	Analysis of exemplary Parlay/OSA applications	1	1	Х			1

33.	Operation systems of mobile devices	Χ				1
34.	Specificity of application programming for mobile platforms in the context of applications for NGN		Х			1
				Tota	l	<u>30</u>

List of Topics - Project

No	Торіс		L		No of hours		
		knowledge			skills		
		Α	B	С	D	E	
1.	Installation and configuration of IMS environment					Χ	2
2.	Installation and configuration of applications server - Mobicents plat-					Х	2
	form						
3.	Installation and configuration of application development environment					Х	1
4.	Application development for NGN				Х		2
5.	Analysis of exemplary projects				Х		2
6.	Preparation of project foundations for developed application					Χ	2
7.	Implementation of project tasks					Х	2
8.	Development and testing of project application					Х	2
					1	otal	15