Curriculum of Master Course on Integrated Coastal management at the Russian State Hydrometeorological University elaborated within framework of Tempus/ Erasmus-Mundus "EU-COMET2" Project

Objective of ICM Master program

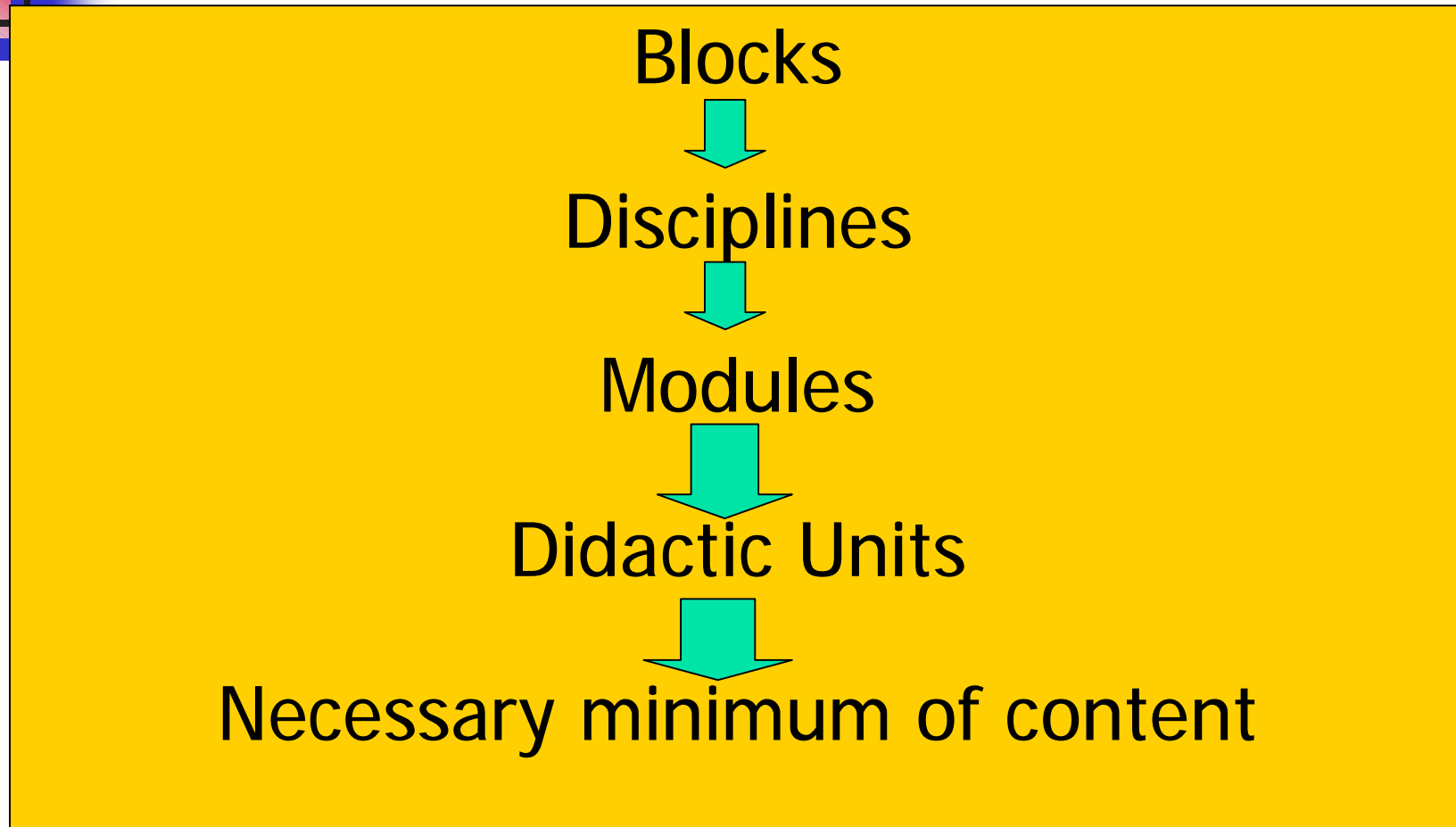To provide possibility for obtaining knowledge and necessary competences in the field of Integrated Coastal Management

To provide possibility of mutual academic recognizing of ICM MS course it is necessary to satisfy the following requirements:

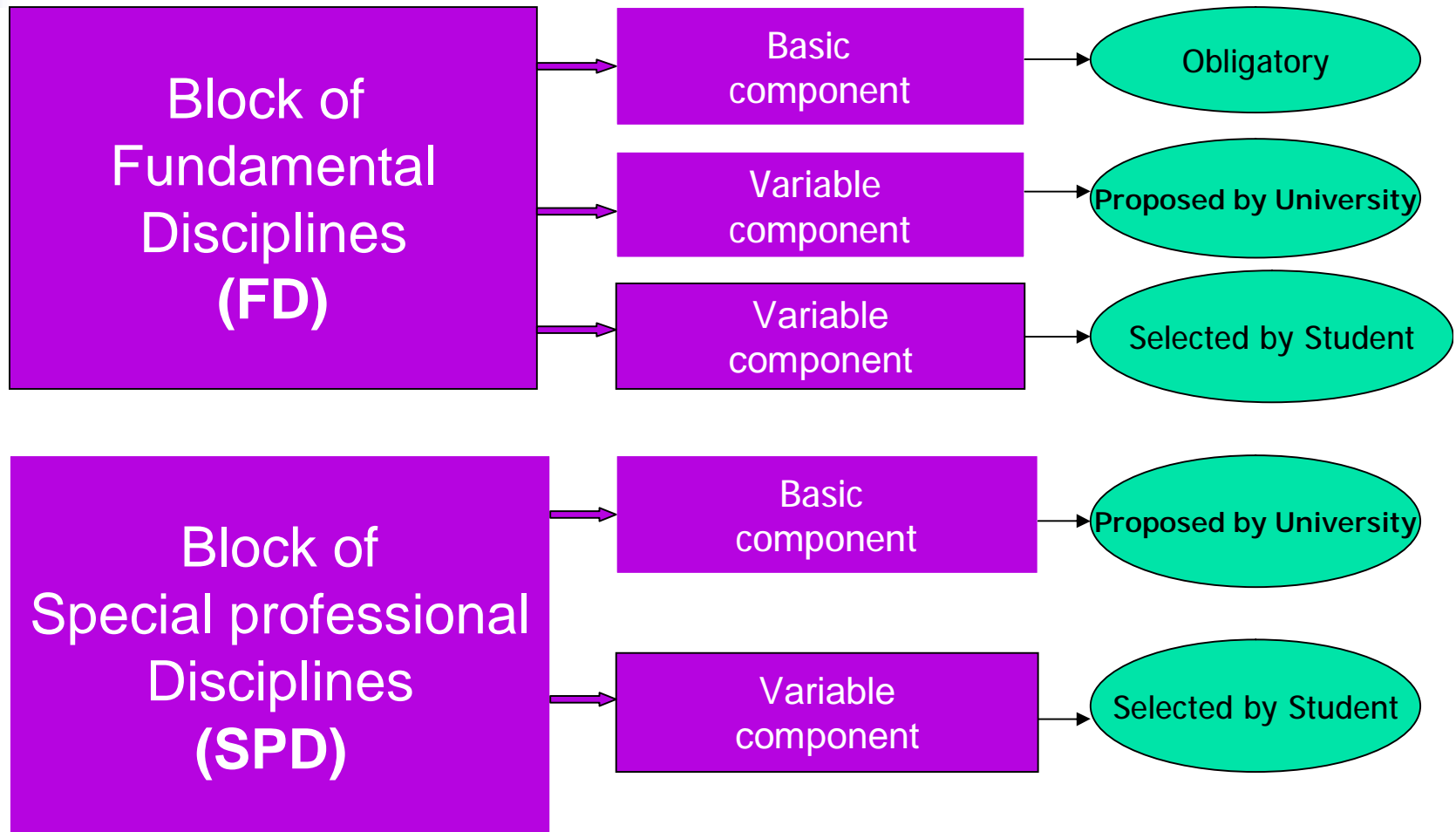- To introduce Bologna principles (credit system, module's construction, competence approach) for integration of RSHU MS course into common educational space
- To consider specificity of partner Universities for formation of conditions for future student and staff mobility in framework of common educational process
- To consider the Russian formal requirements for national legislation of MS program

Structure of methodic submission

Blocks

↓

Disciplines

↓

Modules

↓

Didactic Units

↓

Necessary minimum of content

Structure of blocks
(according to RF educational standard)

Block of Fundamental Disciplines **(FD)**	→	Basic component	→	Obligatory
	→	Variable component	→	Proposed by University
	→	Variable component	→	Selected by Student

Block of Special professional Disciplines **(SPD)**	→	Basic component	→	Proposed by University
	→	Variable component	→	Selected by Student

Structure of ICM modules, that are selected by students

BLOCK
of modules related to
Coastal Activities

BLOCK
of modules related to
ICM tools

CASE STUDIES

BLOCK
of ICM modules related to natural coastal sciences
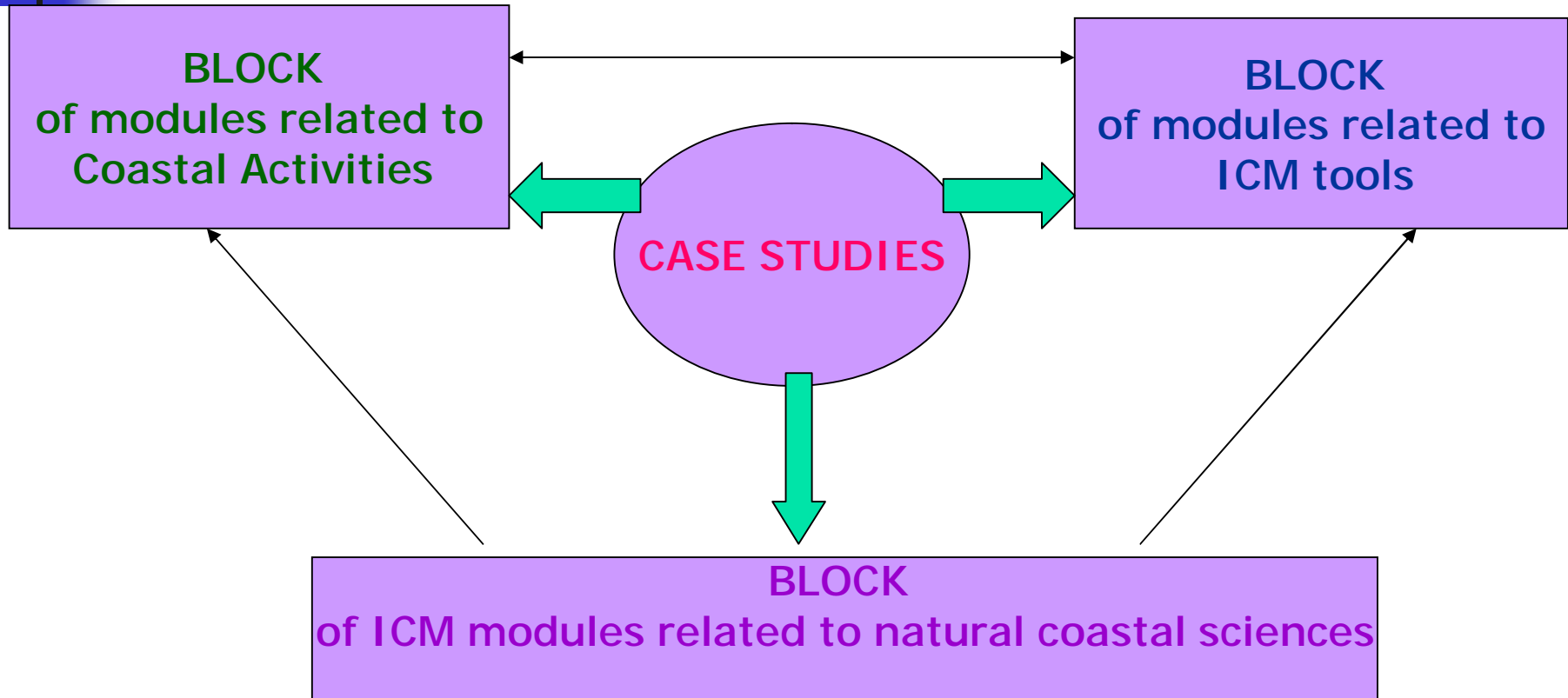
Case study as a tool for improvement of professional skills

- Case study describes real experience and practice of ICM project implementation;
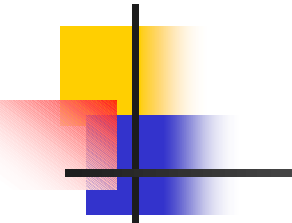- This experience can be widely adopted in other coastal regions;
- Analysis of case study assist to development of cross-disciplinarity vision that is important for ICM professional skills;
- Case study provides for possibility to integration of different academic blocks (natural sciences disciplines, coastal activities. ICM tools);
- Case study supplies with links between different coastal zone components (nature, human impacts, economics, social component);
- Case study demonstrates real results, that have bean achieved at testing coastal areas with use of ICM approach;

Curriculum of Master Course on Integrated Coastal Management at the Russian State Hydrometeorological University elaborated within framework of Tempus/ Erasmus- Mundus "EU-COMET 2" Project

RF Ministry of Education and Sciences
Russian State Hydrometeorological University

Field of Education : **521500 Management**
Title of Master Course: **Integrated Coastal Management**
Form of Education: **Full-time Study Program**
Degree: **Master of Management**
Total   : **4068 hours (120 credits)**
 Duration   **- 2 years**

INDEX	Disciplines	Hours (approximately)						Class hours per week				ECTS
		Total	Guided activity	Indivi-dual	Lectures	Semi-nars	Lab.	Semesters				
								1	2	3	4	
								Weeks in semester				
								18	16	18	16	
FD.00	**Fundamental Disciplines**	**1134**										**46**
	Fundamental Disciplines of Federal Component	**700**										**30**
FD.01	**Modern problems in science of management**	**314**	**136**	**178**	**102**	**34**		**4**	**4**			15
	■ Innovation management		24	39	18	6						3
	■ Strategic management methods		24	39	18	6						3
	■ Economics of Rational Natural Use		24	39	18	6						3
	■ Logistical principle of Integrated Coastal Management		32	31	24	8						3
	■ Problems of state maritime management		32	30	24	8						3

Index	Disciplines	Total	Guided activity	Indivi-dual	Lectu-res	Semi-nars	Lab.	1	2	3	4	ECTS
FD.02	**History and methodology of science**	64	32	32	26	6		**2**				**3**
FD.03	**Mathematical methods and Information technologies in Economic Sciences and Education**	322	102	220	68	18	16	**3**	**3**			12
	■ Mathematical methods in sciences, education and management	168	54	114	36	18	-					6
	■ Informational resources and computer technology in economic sciences and coastal management	154	48	106	32	-	16					6

Code	Discipline										
	Fundamental Disciplines of Regional and University Components	**434**									**16**
	Region Component (proposed by University)	**252**	**136**	**116**	**68**	**68**					**10**
FD.04	**1.Economics of coastal zone**	108	72	36	36	36	**3**				4
FD.05	**2.Ocean governance, Maritime policy and Coastal laws**	72	32	40	16	16	**2**				3
FD.06	**3. Ecological management**	72	32	40	16	16	**2**				3
FD.07	**University Component (selected by students)***	**182**	**64**	**118**	**32**	**32**					6
	Coastal Activities ■ Exploitation of living coastal resources ■ Coastal tourism and recreation ■ Maritime transport ■ Exploitation of non-living coastal resources: renewable and non-renewable ■ Marine and coastal engineering	182	64	118	32	32			**4**		6

* It is recommended 3 modules
**Each module is two credits

Index	Disciplines	Total	Guided activity	Indivi-dual	Lectu-res	Semi-nars	Lab.	1	2	3	4	ECTS
PD.00	Professional Disciplines Regional/University Components	900										35
	Special Professional Disciplines of Regional component (proposed by University)	540	204	336	120	84						21
PD.01	1. Coastal policy	150	54	96	36	18				3		6
PD.02	2. Integrated coastal management planning strategies	150	54	96	36	18				3		6
PD.03	3.Coastal Oceanography	180	64	116	32	32			4			7
PD.04	4. Morphology and coastal dynamics	60	32	28	16	16			2			2

Special Professional Disciplines University component (selected by students)*	360	122	238	61	61						14
1. Natural coastal sciences ** ■ Meteorology ■ Hydrology and water resourses management ■ Water and coastal pollution ■ Coastal ecosystems ■ Fishery oceanography ■ Coastal erosian ■ Operational oceanography ■ Marine Chemistry and Toxicology *It is recommended 3 modules	150	50	100	25	25	-		2	1		6
2. Practical tools of ICM ** ■ Environment Assessment in Coastal Area ■ Sustainable Development Indicators and Coastal monitoring ■ Hazard Risk Management in coastal zone ■ Landscape and Spatial Planning in Coastal Zone ■ Remediation, Methods and Techniques in Coastal zone ■ Coastal Conflict Management ■ Leaderships, coastal communications and group dynamics ■ Environmental rents and taxies * It is necessary to select at least 4 modules ** Each module is two credits	210	72	138	36	36	-			4		8

	Scientific Work	Total	Guided activity	Indivi-dual	Lectu-res	Semi-nars	Lab	1	2	3	4	ECTS
SW.00	**Student's Research in total**	**2034**										**39**
SW.01	Student's Research during the period of education (term papers, reports, reviews, etc)	846						+	+	+		7
SW.02	Field work research (practical job)	324							+			5
SW.03	Pedagogical Practice	324								+		5
SW.04	Preparation of Master's Thesis	540									+	22

Summary table

Sort of education	Hours	ECTS
Academic education in total	**2034**	**81**
Student's Research in total	**2034**	39
Total education	**4068**	**120**

Possible paths of student educational moving

ICM MS course at RSHU
120 ECTS (4068 hours) → Diploma RSHU

ICM MS Course at RSHU
60 ECTS
+
60 ECTS at
partner University
→
Diplomas
of RSHU and
Partner
University