

# **Tuning INDIA**

## **Second General Meeting**

### **Meta-Profile**

### **ICT**

**Presented by**

**Dr. R. Nesamoorthy**

**Under the Guidance of**

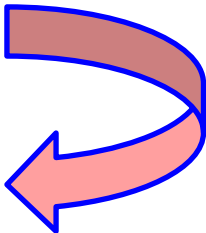
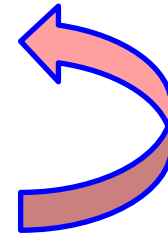
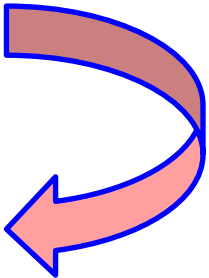
**Dr Robert Wagenaar,**

**Members: Dr Ritu, Dr Majumdar, Dr Ashok , Dr Girish & Dr Preetam**

**Bilbao, 23<sup>th</sup> November 2018**

# Key elements

## Profile



Year	Semester	Course/Module	Credits	
1	1st Semester	Agricultural Chemistry and Soil Science	5	
		Animal Production Principles and Techniques	5	
	2nd Semester	Agrionomy and Horticultural Crop Production	5	
		Applied Economics, Extension and Systems	5	
		Microbiology and Genetics I	5	
		Agrobotanics and Genetic Change	5	
		Food Safety and Technology	5	
		Agricultural Engineering and Applications	5	
	2	3rd Semester	Statistical Methods for Agricultural Sciences	5
			Biotechnology and Bioprocessing	5
4th Semester		Plant, Tissue and Tissue Culture	5	
		Animal Production and Science I	5	
		Research, Communication Skills	5	
		Microbiology and Genetics II	5	
3	5th Semester	Animal Science and Production I	5	
		Food Production Technology	5	
	6th Semester	Agricultural Product Processing	5	
		Agricultural Management and Marketing	5	
4th Semester	Administrative for Small and Medium Enterprises	5		
	Project II	5		
	Practical Training	10		

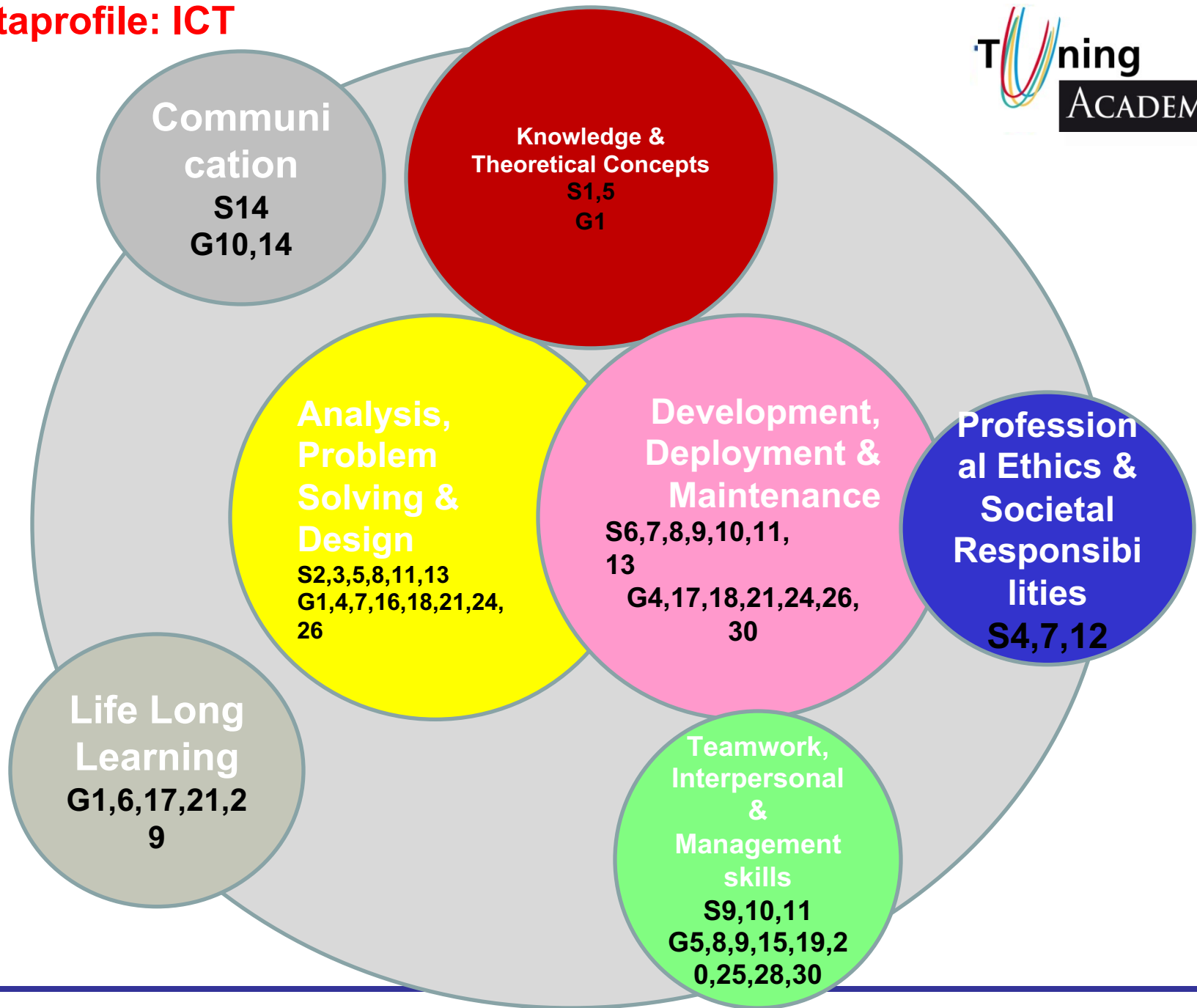
# Clustering ....

Cluster / Dimensions	Competencies	
	Subject Specific & Generic Competencies	
<b>Knowledge &amp; Theoretical Concepts (1)</b>	S1.Applying knowledge of mathematical principles, algorithms and computer sciences to identify requirements, define, analyze and solve problems. S15.Knowledge of relevant quantitative methods and tools and demonstrate their usage.	GC1.Ability to do research
<b>Analysis, Problem Solving &amp; Design (2)</b>	S2.Identifying opportunities in order to remedy redundancy in organisations via the efficient and effective usage of ICT solutions. S3.Identify, formulate, analyse and resolve problems. S5 Design of ICT systems, including modelling (formal description) of their structure and processes. S8 Develop ICT systems in compliance with industry specifications, standards and recommendations. S11.Identify security threats and provide effective methods for information security. Efficient utilisation of resources. S13.Efficient utilisation of resources.	G1Ability to do research Ability to apply knowledge in practical situations G4.Acquire problem solving capacity G7Demonstrate higher order thinking skills (analytical, critical, abstract, creative) G16.Be innovative G18.Be adaptable to emerging trends. G21.Adhere to and enhance quality standards G24.Ability to use available resources optimally and Efficiently. G26.Be goal-oriented.
<b>Development, Deployment &amp; Maintenance (3)</b>	S6.Deploy, install, integrate, put into service and maintain ICT systems and their elements. S7.Assimilating emerging ICT technology with societal developments. S8.Develop ICT systems in compliance with industry specifications, standards and recommendations. S9.Maintain the quality of ICT systems and substantiate it with research based methodologies. S10.Understand and create the documentation of ICT solutions. S11.Identify security threats and provide effective methods for information security. S13.Efficient utilisation of resources.	G4. Ability to apply knowledge in practical situations. G17.Be a reflective practitioner G18.Be innovative. G21. Be adaptable to emerging trends. G24.Adhere to and enhance quality standards. G26.Ability to use available resources optimally and efficiently. G30.Be goal-oriented

# Clustering ....

<p><b>Teamwork, Interpersonal &amp; Management skills</b> (4)</p>	<p>S9.Maintain the quality of ICT systems and substantiate it with research based methodologies. S10.Understand and create the documentation of ICT solutions. S11.Identify security threats and provide effective methods for information security.</p>	<p>G5.Ability to plan and manage time efficiently. G8.Ability to make reasoned decisions G9.Have good interpersonal skills G15.Ability to work as a team G19.Possess self-confidence and entrepreneurial spirit G20.Demonstrate leadership qualities G25.Ability to manage stress and maintain emotional stability 28. Have organizational and managerial skills. 30. Be goal-oriented.</p>
<p><b>Professional Ethics &amp; Societal Responsibilities</b> (5)</p>	<p>S4. Stay committed to confidentiality and data safety. S7. Assimilating emerging ICT technology with societal developments. S12. Understanding and applying ethical, legal, economic and financial concepts in order to take decisions and manage ICT projects.</p>	<p>2. Adhere to ethical principles 3. Be socially responsible and humane 10. Appreciate and respect diversity and multiculturalism 11. Ability to manage crisis effectively 12. Act within the legal framework 13. Demonstrate environmental and economic consciousness 19. Ability to work independently in a responsible manner 22. Practice professionalism 23. Promote and ensure equal opportunities including gender issues.</p>
<p><b>Communication</b> (6)</p>	<p>S14.Train and support ICT users.</p>	<p>G10.Appreciate and respect diversity and multiculturalism. G14.Ability to communicate effectively</p>
<p>Lifelong learning (7)</p>		<p>G1.Ability to do research G6.Be a life-long learner 17. Be a reflective practitioner 21. Be adaptable to emerging trends 29. Be motivated for self-learning</p>

# Metaprofile: ICT



## List of 30 Generic Competences

GC1

GC2

GC3

GC4

GC5

GC6

## List of 15 Subject Specific Competences

SSC1

SSC6

SSC2

SSC7

SSC3

SSC8

SSC4

SSC9

SSC5

Cluster / Dimensions	Knowledge/ Skills Required
<b>Knowledge &amp; Theoretical Concepts</b> (1)	Acquisition of relevant principles, concepts & methods from mathematics, Computer Science, statistics and other allied disciplines and their applications to develop research capabilities.
<b>Analysis, Problem Solving &amp; Design</b> (2)	Developing the ability to apply the knowledge already acquired to formulate, analyse and model the solution for practical problems in an innovative manner so that available resources (including ICT) may be utilised optimally to achieve the target in a secured manner being also complaint with industry standards and specification
<b>Development, Deployment &amp; Maintenance</b> (3)	Ability to develop ICT systems focussed at satisfying customer requirement in an innovative manner so as to guarantee efficient resource utilisation and information security, creating user manuals and deploying the system while maintaining the quality standards and providing training to the users, besides providing upgrades based on continuous research.
<b>Teamwork, Interpersonal &amp; Management skills</b> (4)	Develop teamwork, interpersonal and managerial skills to optimize performance in various areas like quality assurance, documentation, security, decision making, self help, confidence building, entrepreneurial spirit , leadership qualities, managerial skills, stress management, and goal oriented approach
<b>Professional Ethics &amp; Societal Responsibilities</b> (5)	To learn and appreciate professional ethics and social responsibilities so that ICT solutions follow data safety and confidentiality norms, are assimiated to socio-cultural-environmental needs, apply ethical, legal, financial concepts to decision making, crisis management, self help and provide equal opportunities and gender equality
<b>Communication</b> (6)	Acquire knowledge and understanding of different tools of written and oral communication and demonstrate effective and unambiguous communication capabilities at different stages of the ICT project including training and support for ICT users that simultaneously respects and appreciates diversity and multiculturalism
Lifelong learning (7)	

**Thanks & Questions If any**