Noakhali Science and Technology University

Syllabus of the
Department of Computer Science and Telecommunication Engineering
For
Masters of Engineering in Computer Science and Telecommunication Engineering
(M. Engg in CSTE)
&
Masters of Science in Computer Science and Telecommunication Engineering
(M.Sc. Engg. in CSTE)

This Syllabus effective from the session 2015-16

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Department of Computer Science and Telecommunication Engineering
Noakhali Science and Technology University, Noakhali-3814.

Summary of Courses for the Degree of
Master of Science in Computer Science and Telecommunication Engineering, abbreviated as M.Sc. Engg. (CSTE) & Master of Engineering in Computer Science and Telecommunication Engineering, abbreviated as M. Engg. (CSTE)
(Effective from Academic Session 2015-2016)

Type of M.Sc. Engg. (CSTE)	Theory Credits	Thesis/Project Credits	Seminar/Viva-voce Credits	Total Credits
Research Based	15	24	04	43
Project Based	27	12	04	43

N.B.:

- Each research based student has to take at least 6 Theory Credits from the Computer group and 6 Theory Credits from the Telecommunications group.
- Each project based student has to take at least 9 Theory Credits from the Computer group and 9 Theory Credits from the Telecommunications group.
- To be awarded Research based M.Sc. Engg. (CSTE) degree, submit minimum one published international journal.

Research Based MS Course:

Year 1 Term 1:

Course ID	Course Title	Credit
CSTE-51**	To be Selected from Computer Group	03
CSTE-51**	To be Selected from Computer Group	03
CSTE-51**	To be Selected from Telecommunication Group	03
CSTE-51**	To be Selected from Telecommunication Group	03
CSTE-51**	To be Selected from Computer/ Telecommunication Group	03
	Total	**15.0**

Year 1 Term 2:

CSTE-5201	Thesis	12
CSTE-5203	Seminar/Viva Voce	03
	Total	**15.0**

Year 2 Term 1:

CSTE-6101	Thesis	12
CSTE -6102	Seminar/Viva Voce	01
	Total	**13.0**
	Total Credit for MS Course	**43**

Project Based MS Course:

Year 1 Term 1:

Course ID	Course Title	Credit
CSTE-51**	To be Selected from Computer Group	03
CSTE-51**	To be Selected from Computer Group	03
CSTE-51**	To be Selected from Telecommunication Group	03
CSTE-51**	To be Selected from Telecommunication Group	03
CSTE-51**	To be Selected from Computer/ Telecommunication Group	03
	Total	**15.0**

Year 1 Term 2:

CSTE-52**	To be Selected from Computer Group	03
CSTE-52**	To be Selected from Telecommunication Group	03
CSTE-52**	To be Selected from Computer/ Telecommunication Group	03
CSTE-52**	To be Selected from Computer/ Telecommunication Group	03
CSTE-5210	Seminar/Viva Voce	03
	Total	**15.0**

Year 2 Term 1:

TCE-6101	Project	12
TCE-6102	Seminar/Viva Voce	01
	Total	**13.0**
	Total Credit for MS Course	**43**

Courses: At A Glance

Course Code	Course Title	Group	Credits
CSTE-5101	Advanced Artificial Intelligence	**Computer**	3.00
CSTE-5103	Advanced Operating System		3.00
CSTE-5105	Big Data Analytics and Business Intelligence		3.00
CSTE-5107	Advanced Data Structures and Algorithms		3.00
CSTE-5109	Web Analytics and Intelligence		3.00
CSTE-5111	Secure Coding		3.00
CSTE-5113	Advanced Computer Networks		3.00
CSTE-5115	Advanced Computer Architecture		3.00
CSTE-5117	Advanced Neural Network and Fuzzy System		3.00
CSTE-5119	Advanced Database Systems		3.00
CSTE-5121	C# and .Net		3.00
CSTE-5123	Client Server Programming		3.00
CSTE-5125	Cloud Computing		3.00
CSTE-5127	Web-Commerce		3.00
CSTE-5129	Pattern Recognition and Computer Vision		3.00
CSTE-5131	Machine Learning		3.00
CSTE-5133	Embedded System Design		3.00
CSTE-5135	Bio-informatics		3.00
CSTE-5137	Advanced Multimedia Communication	**Telecommunication**	3.00
CSTE-5139	Error Control Coding		3.00
CSTE-5141	Multicarrier Communications		3.00
CSTE-5143	Optical Networks		3.00
CSTE-5145	Wireless Sensor Network		3.00
CSTE-5147	Biomedical Signal Processing		3.00
CSTE-5149	Stochastic Processes and Information Theory		3.00
CSTE-5151	Antenna Systems		3.00
CSTE-5153	Space-Time Wireless Communication		3.00
CSTE-5155	Advanced Wireless Networks		3.00
CSTE-5157	Advanced Optical Technologies		3.00
CSTE-5159	Satellite Navigation System		3.00
CSTE-5161	IP over WDM		3.00
CSTE-5163	VLSI Technology and Device Modeling		3.00
CSTE-5165	Satellite Communication		3.00
CSTE-5167	Tele-traffic Engineering		3.00
CSTE-5169	Network Security		3.00
CSTE-5171	Digital Circuit Design		3.00
CSTE-5173	Advanced Digital Signal Processing		

N. B.: This course can be taken by a student only once in the entire program.