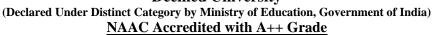


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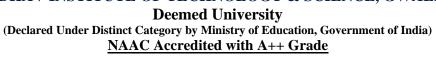




CO Attainment Levels for July-Dec 2023 Semester Internet of Things (IoT)

Subject Name & Code	COs	Direct Attainment	Indirect Attainment	Overall CO Attainment	Target	Gap	Status
	CO1	3	3	3	2.5	-0.5	Attained
	CO2	3	3	3	2.5	-0.5	Attained
Software	CO3	3	3	3	2.5	-0.5	Attained
Testing 910204	CO4	3	3	3	2.5	-0.5	Attained
	CO5	2.6	3	2.6	2.5	-0.1	Attained
	CO6	2.7	3	2.7	2.5	-0.2	Attained
	CO1	2.9	3	2.9	2.5	-0.4	Attained
	CO2	2.3	3	2.5	2	-0.5	Attained
Embedded	CO3	2.2	3	2.4	2	-0.4	Attained
Systems &IoT	CO4	2.1	3	2.2	2	-0.2	Attained
230504	CO5	2.7	3	2.8	2.5	-0.3	Attained
	CO6	3	3	3	2.5	-0.5	Attained
	CO1	3	3	3	2.5	-0.5	Attained
	CO2	3	3	3	2.5	-0.5	Attained
Embedded	CO3	3	3	3	2.5	-0.5	Attained
Systems &IoT	CO4	3	3	3	2.5	-0.5	Attained
Lab 230504	CO5	3	3	3	2.5	-0.5	Attained
	CO6	3	3	3	2.5	-0.5	Attained
	CO1	3	3	3	2.5	-0.5	Attained
Design &	CO2	3	3	3	2.5	-0.5	Attained
Thinking Lab	CO3	3	3	3	2.5	-0.5	Attained
2230325	CO4	3	3	3	2.5	-0.5	Attained
Basic Electrical	CO1	3	3	3	3	0	Attained
and Electronics	CO2	3	3	3	3	0	Attained
Engineering	CO3	3	3	3	3	0	Attained
Lab 43100022	CO4	3	3	3	3	0	Attained
	CO1	2.9	3	2.9	2	-0.9	Attained
Basic Electrical	CO2	2.2	3	2.4	2	-0.4	Attained
and Electronics	CO3	2.2	3	2.4	2	-0.4	Attained
Engineering	CO4	2.5	3	2.6	2	-0.6	Attained
43100023	CO5	2.6	3	2.7	2	-0.7	Attained
	CO6	2	3	2.2	2	-0.2	Attained
	CO1	3	3	3	3	0	Attained
	CO2	3	3	3	3	0	Attained
Data Science in	CO3	3	3	3	3	0	Attained
IOT 230502	CO4	3	3	3	3	0	Attained
	CO5	3	3	3	3	0	Attained
	CO6	3	3	3	3	0	Attained
	CO1	3	3	3	3	0	Attained







	CO2	3	3	3	3	0	Attained
Data Science in	CO3	3	3	3	3	0	Attained
IOT Lab 230502	CO4	3	3	3	3	0	Attained
	CO1	2.6	3	2.7	2.5	-0.2	Attained
	CO2	3	3	3	2.5	-0.5	Attained
Computer	CO3	2.2	3	2.3	2.3	0	Attained
Graphics &	CO4	2.9	3	2.9	2.5	-0.4	Attained
Multimedia 2230323	CO5	1.4	3	1.7	2.5	0.8	Not Attained
	CO6	2.5	3	2.6	2.5	-0.1	Attained
	CO1	3	3	3	2.5	-0.5	Attained
Computer	CO2	3	3	3	2.5	-0.5	Attained
Graphics &	CO3	3	3	3	2.5	-0.5	Attained
Multimedia	CO4	3	3	3	2.5	-0.5	Attained
Lab 2230324	CO5	3	3	3	2.5	-0.5	Attained
	CO6	3	3	3	2.5	-0.5	Attained
	CO1	2.4	3	2	2	0	Attained
	CO2	2.6	3	2.6	2	-0.6	Attained
Discrete	CO3	2.4	3	2.5	2	-0.5	Attained
Structures	CO4	2.2	3	2.3	2	-0.3	Attained
2230324	CO5	2.1	3	2.2	2	-0.2	Attained
	CO6	2	3	2.2	2	-0.2	Attained
	CO1	3	3	3	2.5	-0.5	Attained
	CO2	3	3	3	2.5	-0.5	Attained
Digital Logic	CO3	2.9	3	3	2.5	-0.5	Attained
Design 3230123	CO4	3	3	3	2.5	-0.5	Attained
3230123	CO5	2.5	3	2.6	2.5	-0.1	Attained
	CO6	3	3	3	2.5	-0.5	Attained
	CO1	3	3	3	3	0	Attained
_	CO2	3	3	3	3	0	Attained
Theory of	CO3	3	3	3	3	0	Attained
Computation 230503	CO4	3	3	3	3	0	Attained
230303	CO5	3	3	3	3	0	Attained
	CO6	3	3	3	3	0	Attained
	CO1	1.8	3	2	2	0	Attained
_	CO2	2	3	2.2	2	-0.2	Attained
Computer	CO3	1.9	3	2.1	2	-0.1	Attained
Programming 230122	CO4	2.1	3	2.2	2	-0.2	Attained
230122	CO5	2	3	2.2	2	-0.2	Attained
	CO6	1.9	3	2.1	2	-0.1	Attained
Computer	CO1	3	3	3	2.5	-0.5	Attained
Network &	CO2	2.4	3	2.5	2.5	0	Attained
Protocol	CO3	3	3	3	2.5	-0.5	Attained
		3		 	1		



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	CO5	3	2.5	2.9	2.5	-0.4	Attained
	CO6	3	1.9	2.8	2.5	-0.3	Attained
	CO1	3	3	3	2.5	-0.5	Attained
Computer	CO2	2.4	3	2.5	2	-0.5	Attained
Architecture	CO3	3	2.8	3	2.5	-0.5	Attained
and Microprocessor	CO4	3	2.9	3	2.5	-0.5	Attained
230401	CO5	3	2.8	3	2.5	-0.5	Attained
233401	CO6	3	3	3	2.5	-0.5	Attained

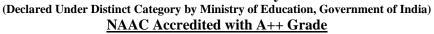
Total No of courses	Total No of COs	No of COs not attained	Percentage of COs not attained
16	90	1	1.11%

Action Taken by the faculty

- Beyond the syllabus, some practical problem will provide to students during class session and discuss important facts related to a particular topic.
- Remedial classes to be conducted
- More assignment & tutorial classes
- Practical exposer through industrial visit, and expert talk for problem solving.
- More interaction with the students.
- Extra time will be given on important topics.



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CO Attainment Levels for Jan-June 2024 Semester Internet of Things (IoT)

Course	СО	Direct % Attainment	Indirect % Attainment	Total % Attainment	Target	Status
	CO1	3.0	3.0	3.0	2.5	Attained
ng n 21)	CO2	3.0	3.0	3.0	2.5	Attained
peratir System 323022	CO3	3.0	3.0	3.0	2.5	Attained
Operating System (3230221)	CO4	3.0	3.0	3.0	2.5	Attained
	CO5	3.0	3.0	3.0	2.5	Attained
_	CO1	3.0	3.0	3.0	2.5	Attained
og) 22)	CO2	3.0	3.0	3.0	2.5	Attained
Sensor Technology (3230222)	CO3	2.8	3.0	2.8	2.5	Attained
Se ech	CO4	3.0	3.0	3.0	2.5	Attained
	CO5	3.0	3.0	3.0	2.5	Attained
gy 2)	CO1	2.8	3.0	2.9	2.5	Attained
Sensor Technology Lab (3230222)	CO2	2.8	3.0	2.9	2.5	Attained
Sensc chnol Lab 2302:	CO3	3.0	3.0	3.0	2.5	Attained
Te (3	CO4	3.0	3.0	3.0	2.5	Attained
0	CO1	3.0	3.0	3.0	2.5	Attained
Data Structure (3230223)	CO2	3.0	3.0	3.0	2.5	Attained
ata Structu (3230223)	CO3	3.0	3.0	3.0	2.5	Attained
a St	CO4	3.0	3.0	3.0	2.5	Attained
Oata (3	CO5	2.9	3.0	2.9	2.5	Attained
	CO6	3.0	3.0	3.0	2.5	Attained
de.	CO1	3.0	3.0	3.0	2.5	Attained
3)	CO2	3.0	3.0	3.0	2.5	Attained
ructure Lab	CO3	3.0	3.0	3.0	2.5	Attained
323()	CO4	3.0	3.0	3.0	2.5	Attained
Data St (32	CO5	3.0	3.0	3.0	2.5	Attained
Da	CO6	3.0	3.0	3.0	2.5	Attained
D	CO1	3.0	3.0	3.0	2.5	Attained
ր ուուց 4)	CO2	3.0	3.0	3.0	2.5	Attained
Python Programming (3230224)	CO3	3.0	3.0	3.0	2.5	Attained
Pyt gra \$23(CO4	3.0	3.0	3.0	2.5	Attained
Pro (3	CO5	2.7	3.0	2.8	2.5	Attained
	CO6	3.0	3.0	3.0	2.5	Attained
Pytho n Progr ammi	CO1	2.9	3.0	2.9	2.5	Attained
Py Pr	CO2	2.9	3.0	2.9	2.5	Attained





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	CO3	2.9	3.0	2.9	2.5	Attained
	CO4	2.9	3.0	2.9	2.5	Attained
	CO5	2.9	3.0	2.9	2.5	Attained
	CO6	2.9	3.0	2.9	2.5	Attained
& Sor	CO1	3.0	3.0	3.0	2.5	Attained
Computer Architecture & Microprocessor (2230421)	CO2	3.0	3.0	3.0	2.5	Attained
npu ect orod	CO3	3.0	3.0	3.0	2.5	Attained
Computer chitecture croproces: (2230421)	CO4	2.6	3.0	2.6	2.5	Attained
Ari	CO5	2.8	3.0	2.8	2.5	Attained
- L	CO1	3.0	3.0	3.0	2.5	Attained
IoT Embedded Systems Design (2230422)	CO2	3.0	3.0	3.0	2.5	Attained
bed ; De	CO3	3.0	3.0	3.0	2.5	Attained
T Embedd stems Desi (2230422)	CO4	3.0	3.0	3.0	2.5	Attained
oT I yste (2	CO5	3.0	3.0	3.0	2.5	Attained
	CO6	3.0	3.0	3.0	2.5	Attained
l -ab	CO1	3.0	3.0	3.0	2.5	Attained
dec gn I 2)	CO2	3.0	3.0	3.0	2.5	Attained
loT Embedded Systems Design Lab (2230422)	CO3	3.0	3.0	3.0	2.5	Attained
Emk 1s D 230	CO4	3.0	3.0	3.0	2.5	Attained
oT I terr (2	CO5	3.0	3.0	3.0	2.5	Attained
Sys	CO6	3.0	3.0	3.0	2.5	Attained
b 0 _	CO1	3.0	3.0	3.0	2.5	Attained
Software Engineering (2230423)	CO2	3.0	3.0	3.0	2.5	Attained
Software ngineerin 2230423	CO3	3.0	3.0	3.0	2.5	Attained
Sof ingi (22)	CO4	3.0	3.0	3.0	2.5	Attained
Ш	CO5	3.0	3.0	3.0	2.5	Attained
e ing 3)	CO1	3.0	3.0	3.0	2.5	Attained
ftware ineerin Lab :30423)	CO2	3.0	3.0	3.0	2.5	Attained
Software Engineering Lab (2230423)	CO3	3.0	3.0	3.0	2.5	Attained
e	CO1	3.0	3.0	3.0	2.5	Attained
ctur cols	CO2	3.0	3.0	3.0	2.5	Attained
Architecti nd Protoco (2230424)	CO3	3.0	3.0	3.0	2.5	Attained
rch Pro 23(CO4	3.0	3.0	3.0	2.5	Attained
IoT Architecture and Protocols (2230424)	CO5	3.0	3.0	3.0	2.5	Attained
(eb	CO1	3.0	3.0	3.0	2.5	Attained
Network & Web Security (2230425)	CO2	3.0	3.0	3.0	2.5	Attained
work & V Security 2230425	CO3	3.0	3.0	3.0	2.5	Attained
twork & W Security (2230425)	CO4	3.0	3.0	3.0	2.5	Attained
Net	CO5	3.0	3.0	3.0	2.5	Attained
		1		1	1	1



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	CO6	3.0	3.0	3.0	2.5	Attained
<u>_</u>	CO1	3.0	3.0	3.0	2.5	Attained
Design 01)	CO2	3.0	3.0	3.0	2.5	Attained
r De	CO3	3.0	3.0	3.0	2.5	Attained
npiler De (230601)	CO4	3.0	3.0	3.0	2.5	Attained
Compiler (2306	CO5	3.0	3.0	3.0	2.5	Attained
ŭ	CO6	3.0	3.0	3.0	2.5	Attained
<u>_</u>	CO1	3.0	3.0	3.0	2.5	Attained
iler Design (230601)	CO2	3.0	3.0	3.0	2.5	Attained
	CO3	3.0	3.0	3.0	2.5	Attained
oile (23	CO4	3.0	3.0	3.0	2.5	Attained
Compiler Lab (23	CO5	3.0	3.0	3.0	2.5	Attained
3 -	CO6	3.0	3.0	3.0	2.5	Attained
Minor Project-II (230604)	CO1	3.0	3.0	3.0	2.5	Attained
	CO2	3.0	3.0	3.0	2.5	Attained
	CO3	3.0	3.0	3.0	2.5	Attained
	CO4	3.0	3.0	3.0	2.5	Attained

Total No of courses	a a		Percentage of COs not attained	
17	90	0	0%	

Action Taken by the faculty

- Practical problems will be presented to students during class sessions, followed by discussions on key concepts related to the topic at hand.
- Remedial classes will be organized to address areas where students need additional support.
- Increased focus on assignments and tutorial sessions will be provided to enhance understanding.