# LARE FOUCHING INSCR.

# **INSTITUTE OF AERONAUTICAL ENGINEERING**

(Autonomous) Dundigal, Hyderabad – 500 043

## **DEPARTMENT OF INFORMATION TECHNOLOGY**

#### Attainment of Program Outcomes (POs) of 2016 – 2020 batch (IARE – R16)

		Prog	ram C	Outcon	nes (PC	Ds)								Progra Outco		
Course Code	Course	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO1	PSO2	PSO3
AHS002	Linear Algebra And Ordinary Differential Equations	1.8	2.2													
AHS003	Computational Mathematics And Integral Calculus	1.9	1.8													
AHS005	Engineering Chemistry	1.1	1					1.2								
AHS006	Engineering Physics	2.1	2.1		2											2.4
ACS001	Computer Programming	1	0.9	0.8		1					1		1	1.1		1
ACS101	Computer Programming Laboratory	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6		1.6		1.6	1.6		1.6
AME103	Computer Aided Engineering Drawing	2.3		2.3		2.3				2.3	2.3		2.3			2.3
AHS104	Engineering Physics And Chemistry Laboratory	2.7	2.7		2.7									2.7		
AHS102	Computational Mathematics Laboratory	2.3	2.3		2.3									2.3		
AHS001	English For Communication										2.1					
AHS010	Probability And Statistics	1.9	2.9		1.8											
AHS009	Environmental Studies	1.4			2.4			1.4								
ACS002	Data Structures	1.7	1.6	1.7	1.6	1.9					1.7		1.6	1.4	1.8	1.8
AEE001	Fundamental Of Electrical And Electronics Engineering	1.1	1.1											1.1		
AHS101	Communication Skills Laboratory									2.4	2.4					
ACS102	Data Structures Laboratory	2.3	2.3	2.3	2.3	2.3	2.3		2.3	2.3	2.3		2.3	2.3	2.3	2.3
AEE101	Electrical And Electronics Engineering Laboratory	2.3	2.3			2.3			2.3	2.3	2.3		2.3	2.3		
ACS112	Engineering Practice Laboratory	1.6	1.6	1.6	1.6	1.6	1.6				1.6			1.6		1.6
AIT001	Design And Analysis Of Algorithms	2.2	2.3	2.2	2								2.1	2.3		
AEC020	Digital Logic Design	1.4	1.4	1.4	1.4						1.4				1.4	
AHS013	Discrete Mathematical Structures	2.4	2.2	2.1										2.3		
ACS005	Database Management Systems	2	2	2	2						2		2	1.7		2.1
ACS004	Computer Organization And Architecture	1.9	2.2	1.9	2.1						2.1		2.1	2	1.4	2
AIT101	Design And Analysis Of Algorithms Laboratory		2.3	2.3	2.3	2.3	2.3		2.3		2.3		2.3	2.3	2.3	2.3
ACS104	Database Management Systems Laboratory	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
AEC116	Digital Logic Design Laboratory	2.3	2.3	2.3		2.3				2.3	2.3				2.3	
ACS003	Object Oriented Programming Through JAVA	2	2.6	2.3	2.2						2.9		2.1	2.5	2.9	2.5
ACS007	Operating Systems	1.7	1.6	1.6	1.8						1.7		1.8	1.6	2	2.1

ACS008	Software Engineering	1.9	1.6	2	1.9	1.6					1.6		1.6	2.1	2	2.2
AIT002	Theory Of Computation	2.2	2.3	2.3	3									2.5		2.4
AIT003	Computer Networks	1.3	1.2	1.2	1.2						1.2		1.2	1.2	1.2	1.2
ACS103	Object Oriented Programming Through JAVA Laboratory	3	3	3	3	3	3	3	3		3		3	3	3	3
ACS106	Operating Systems Laboratory	2	2	2	2		2	2	2	2	2		2	2	2	2
ACS107	Software Engineering Laboratory	3	3	3	3	3	3	3	3	3	3		3	3	3	3
ACS006	Web Technologies	2.2	1.8	2.1	1.6	2.2					2.2		2.3	2.2	1.4	2.2
ACS009	Object Oriented Analysis And Design	2.2	1.5	2.2	1.8	1.6				1	1.9		1.8	1.9		1.7
AIT004	Compiler Design	1.4	1.7	1.2		1.4					1.8			1		1.8
AHS012	Optimization Techniques	2.1	2.1	2.1	2	2.2					2		2.1	2.1		2.1
AHS015	Business Economics And Financial Analysis	2.2	2.2						1.4	1.7		1.8				
ACS105	Web Technologies Laboratory	2.3	2.3	2.3		2.3	2.3		2.3	2.3	2.3		2.3	2.3	2.3	
AIT103	Case Tools Laboratory	3	3	3		3					3		3	3	3	3
AHS106	Research And Content Development	2.4	2.4	2.4	2.4	2.4	2.4		2.4	2.4	2.4		2.4	2.4	2.4	2.4
AIT505	Advanced Databases	2.1	2.4	2.2	2.3	2.4							2.9	2.6	2.2	2.3
ACE551	Disaster Management	2.1					2	2.2		1.9						
AEC551	Embedded System Design	2.9	2.9	2.9	2.9	2.9										
ACS013	Information Security	1.2	1.2	1.2	1.2		1.2		1.2		1.2		1.2	1.2		1.2
AEC023	Microprocessors Interfacing And Applications	1.1	1.1	1.1							1.2			0.9		
AIT005	Linux Internals	1.5			1.4	1.4					1.6		1.5	1.5	1.5	1.5
AEC115	Microprocessors And Interfacing Laboratory	2.3	2.3	2.3		2.3				2.3	2.3			2.3		
ACS510	Internet Of Things (Iot)	1.6	1.8	1.8	1.9	1.8		2.4						1.8	2.4	2.1
AIT105	Linux Internals Laboratory	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3		2.3	2.3	2.3	2.3
AIT102	Data Warehousing And Data Mining Laboratory	1.6	1.6	1.6	1.6	1.6	1.6			1.6	1.6		1.6	1.6	1.6	1.6
AIT201	Ideation And Product Development	2.3	2.3	2.3	2.3	2.3	2.3		2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
AIT006	Data Warehousing And Data Mining	1.4	1.2	1	1	1					1.3		1.6	1.4	1	1.3
AEE551	Energy From Waste	1.2		0.9			1.1	1.2					1.3			
AIT007	Cloud Computing	1.9	1.9	1.9		1.1					1.9		1.9	1.5	1.9	1.8
AIT008	Software Testing Methodology	2.3	2.2	2.2	2.4	2.4								2.1	2.4	2.4
ACS012	Big Data And Business Analytics	2.1	2.1	2.1		2.1					2.1		2.1	2.1	2.1	2.1
AIT512	Software Process And Project Management	1.7								2.9	1.2			1.9		
ACS110	Cloud Application Development Laboratory	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3		2.3	2.3	2.3	2.3
AIT104	Software Testing Methodology Laboratory	2.3	2.3	2.3	2.3	2.3	2.3	210	210	2.3	2.3		2.3	2.3	2.3	2.3
ACS111	Big Data And Business Analytics Laboratory	2.3	2.3	2.3		2.3							2.3	2.3	2.3	2.3
ACS014	Machine Learning	1.9	1.9	1.9							2			1.9		1.5
AIT514	E-Commerce	1.7	2.4	1.5	0.8	l					2.4			1.3	1.8	
AIT401	Comprehensive Examination	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
AIT302	Project Work	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	inment Value	2	2.1	2	2.1	2.1	2.2	2.2	2.3	2.3	2.1	2.5	2.1	2	2.2	2.1

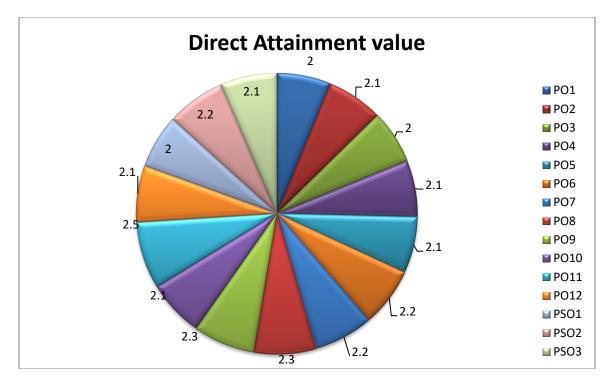


Figure 1: Program Outcomes (PO) Direct Attainment for IT 2016 – 2020 batch

## **PO Attainment Overall**

Regulat	tion	R16	R16													
Branch		Inform	Information Technology													
Batch		2016-2	020													
		Progra	m Outco	omes (l	POs)									Prog Spec Outc (PSC	ific comes	
S.No	Assessment Components (Direct + Indirect)	P01	P02	P03	P04	P05	P06	P07	PO8	P09	P010	P011	P012	PS01	PSO2	PSO3
	Direct Assessment (CIA + SEE +															
1	Course End Survey) (a)	2	2.1	2	2.1	2.1	2.2	2.2	2.3	2.3	2.1	2.5		2	2.2	2.1
2	Program Exit Survey	2.5	2.6	2.5	2.6	2.5	2.6	2.6	2.5	2.5	2.5	2.5	2.6	2.5	2.6	2.6
2	(b) Alumni Survey	2.5	2.0	2.5	2.0	2.5	2.0	2.0	2.5	2.5	2.5	2.5	2.0	2.5	2.0	2.0
3	(c)	2.5	2.6	2.5	2.5	2.6	2.5	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.5
4	Employer Survey (d)	2.6	2.8	2.5	2.4	2.4	2.7	2.6	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
	attainment = $a*0.8 + b*0.1 + c*0.05 +$	2.1	2.2	2.1	2.2	2.2	2.3	2.3	2.3	2.3	2.2	2.5	2.2	2.1	2.3	2.2

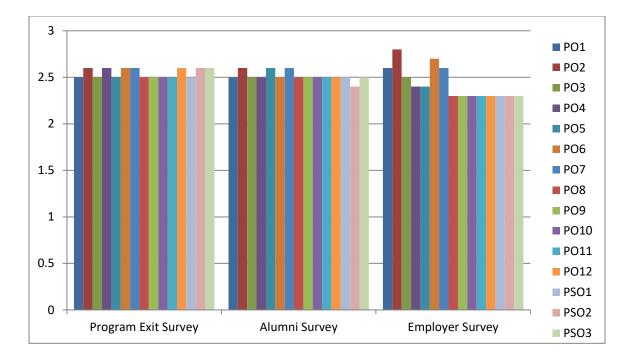


Figure 2: Program Outcomes (PO) Indirect Attainment for IT 2016 – 2020 batch

# **Action Taken Report**

Program Outcomes	Target level	Attainment level	Observations						
			science, engineering fundamentals, and an						
engineering specialization	to the solution of com		ns.						
PO 1	1.8	2.1	Target achieved. Hence the same practice will be continued for the next year. The practical approach of teaching programming was adopted to help students to understand the basics of programming.						
Action 1: The target will b	be retained. Video lectu	res will be used to explain	in the concepts for better understanding.						
			oncepts to refresh their fundamentals in						
laboratory sessions.	1	e	1						
	sses will be conducte	d beyond the regular c	lasses for the courses which have less						
attainment.		, 0							
Action 4: Co-curricular ac	tivities are scheduled in	n the area of NLP, cyber	security, IoT, and AI & ML.						
			and analyze complex engineering problems						
Č.	<b>v</b> · · · · · · · · · · · · · · · · · · ·								
reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.         PO 2       1.8       2.2       Target achieved. Additional classe conducted for numerical courses beyond the regular planned classes have helped the students to perform better.									
e	Action 1: Target will be retained and will be observed for the next academic year. Action 2: Additional classes will be conducted beyond the regular classes for the courses which have less								

attainment.

Action 3: Conduct Expert lectures, Seminars, and Guest lecturers to help students in identifying & analyzing realtime problems.

**PO3: Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO3	1.8	2.1	Target achieved. Performance of the
			students in design related subjects,
			targets, and activities like guest lectures,
			hands-on training helped to achieve the
			target.

Action 1: Target will be retained and will be observed for the next academic year.

Action 2: To conduct Expert lectures, workshops, and hands on a training sessions to understand the process of designing and analyzing real life software problems.

Action 3: Students were encouraged to participate in external intercollege technical competitions, coding contests, and hackathons.

**PO4: Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

<b>PO 4</b>	1.8	2.2	Target achieved. Students were informed
			to refer to IEEE, Elsevier journal papers
			/Scopus to enhance their research
			knowledge, analysis, and interpretation
			of data.

Action 1: Target will be retained and will be observed for the next academic year.

Action 2: National/ international conferences are scheduled to promote research culture among students.

**PO5: Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO 5	1.8	2.2	Target achieved. Students were exposed
			to various modern tools like android kits,
			Jupyter, Eclipse, Netbeans, Pycharm,
			NS3, which helpedto attain the
			target

Action1: Target will be retained and will be observed for the next academic year.

Action2: Students are motivated to register for webinars/seminars conducted by premier Institutes regarding modern tool usage.

**PO6: The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO 6	1.8	2.3	Target	achieved.	Hence	the	same
			practice	will be co	ontinued	for th	e next
			year.				

Action1:Target will be retained and will be observed for the next academic year

Action2:Students have to be exposed to various professional engineering practices followed in the industries through industrial visits.

Action3: Continue association with professional bodies like CSI, IEEE Student chapters, and CSI, IEEE Students chapters will arrange expert talks to create more awareness among the students about professional engineering practice.

Action4:To understand the safety concerns and social aspects, students shall visit the industry to expand their practical knowledge with the effect of improved practices in engineering.

Action5: Students are encouraged to carry out inter domain projects so that they would realize the importance of a project involving society, safety, health, and the legalities

**PO7: Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

	,						
<b>PO 7</b>	1.8	2.3	Target	achieved.	Best	practices	to

			students should be more exposed to
			work with projects related to
A -4 <sup>2</sup> 1. C( 1	14. 11. 1.	· · · · · · · · · · · · · · · · · · ·	environmental and sustainability
			d environmental issues can be addressed
	icity instructed to switc	ch off all electrical Equip	oment /Resources when not in use
for all the laboratories	onin		
	anwater narvesting, S	ewage treatment plants,	proper waste management procedures are
employed at our college.	and and and and	umit to macfoodianal ath	ics and responsibilities and norms of the
engineering practice.	cal principles and con	mint to professional em	ics and responsibilities and norms of the
PO 8	1.8	2.3	Target achieved. It is mandatory that
108	1.0	2.0	students should submit plagiarism
			certificates for project work.
Action1: Projects	will be scrutinized co	de reviews will be con	ducted, plagiarism check will be done to
determine the originality o			ducted, plagfarishi check will be done to
			al, and as a member or leader in diverse
teams, and in multidiscipli		neetively as an individu	an, and as a member of reader in diverse
PO 9	<b>1.8</b>	2.3	Target achieved. Individual work was
107	1.0	2.5	observed during lab sessions/project
			work. There was excellent team work
			observed during the peer review
			presentation / seminars. Students were
			encouraged to work as a team in all co-
			curricular and extracurricular activities.
Action 1: Target will be re	etained and will be obse	erved for the next acader	nic year.
Action 2: Students will be	encouraged to particip	pate in various co-curricu	alar and extra-curricular activities in other
		pate in various co-curricu	alar and extra-curricular activities in other
Action 2: Students will be colleges/sports activities/c Action 3: Students are end	ultural activities.		
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Action 2: Students will be	ained and will be observed for motivated to register for GRE	or the next academic year. /TOEFL/GATE and other	ent interviews and higher . r competitive examinations.
	ation computer systems, new sers, and knowledge discov		n engines, soft computing and
PSO 1	1.8	2.1	Target achieved.
Action2: To strengthen the introduce more professional	elective courses. d web applications developm	e them job ready graduate	es, the department is planning to
PSO 2	1.8	2.3	Target achieved.
techniques using Hackathon <b>PSO 3:</b> Practical experience	programs.	oftware, using industry s	tandard tools and collaboration
PSO 3	1.8	2.2	Target achieved. All the events conducted by the department have helped the students to work as an indusial, work in a team, communicate effectively with
			both internal and external stack holders thereby becoming good computer professionals.

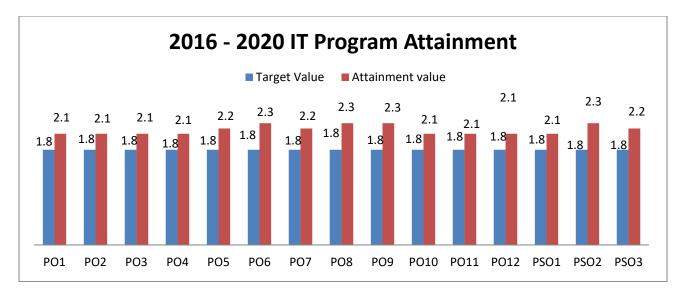


Figure 3: Program Outcomes (PO) Overall Attainment for IT 2016 – 2020 batch

M. Ho \_

HOD, IT