

# **INSTITUTE OF AERONAUTICAL ENGINEERING**

(Autonomous) Dundigal, Hyderabad – 500 043

## **DEPARTMENT OF INFORMATION TECHNOLOGY**

### Attainment of Program Outcomes (POs) of 2019–2023 batch (IARE–R18)

Course					Р	rogr	am O	outco	mes (	(POs)	)				pecific (PSOs)
Code	Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10 P	O11 PO12	PSO	1 PSO2	2 PSO3
AHSB02	Linear Algebra and Calculus	2.70	2.60												
AHSB03	Engineering Chemistry	2.00	2.50					2.90							
AEEB01	Fundamental of Electrical Engineering	1.50	1.50										1.40		
AHSB09	Engineering Chemistry Laboratory	3.00	3.00												
AEEB05	Fundamental of Electrical Engineering Laboratory	2.30				2.30			2.30	2.30	2.30	2.30	2.30		
AMEB01	Workshop Manufacturing Practices Laboratory	3.00		3.00		3.00				3.00	3.00	3.00			3.00
AHSB01	English										2.80				
AHSB12	Probability and statistics	2.40	2.70		2.40										
AHSB13	Semiconductor Physics	2.50	2.50		2.30								2.90		
ACSB01	Programming for Problem Solving	2.00	1.90	2.00		2.20							2.10		
AHSB08	English Language and Communication Skills Laboratory									3.00	3.00				
AHSB10	Engineering Physics Laboratory	3.00	3.00		3.00										3.00
ACSB02	Programming for Problem Solving Laboratory	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00		3.00
AMEB02	Engineering Graphics and Design Laboratory	3.00		3.00							3.00	3.00	3.00		
AECB05	ANALOG AND DIGITAL ELECTRONICS	1.80	1.80	1.20							1.80		1.30		
ACSB03	DATA STRUCTURES	2.10	2.10	2.00	1.80	2.10					2.50	2.10	2.40	2.80	2.70

Course						~			mes (					Outco	omes (	pecific PSOs)
Code	Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ACSB04	DISCRETE MATHEMATICAL STRUCTURES		2.40	2.60										2.30		
AITB01	OBJECT ORIENTED PROGRAMMING THROUGH PYTHON	2.80	2.70		2.70	2.70					2.40		2.70	2.80		2.60
AHSB14	BUSINESS ECONOMICS AND FINANCIAL ANALYSIS	2.00	2.00						1.70	1.80		1.50				
ACSB06	C++ STANDARD TEMPLATE LIBRARY	2.30	3.00		3.00	2.50	2.50	3.00	3.00			2.40		2.50		2.00
ACSB05	DATA STRUCTURES LABORATORY	2.30	2.30	2.30	2.30	2.30	2.30		2.30	2.30	2.30		2.30	2.30	2.30	2.30
ACSB07	COMPUTER ORGANIZATION AND ARCHITECTURE	2.40	2.70	2.60	2.60						2.60		2.60	2.60		2.60
AITB03	THEORY OF COMPUTATION	1.70	1.60	1.50	2.30									1.90		2.00
AITB04	OPERATING SYSTEMS	1.50	1.20	1.20	1.20						1.40		1.90	1.40	1.60	2.60
AITB05	DESIGN AND ANALYSIS OF ALGORITHMS	0.90	0.80	0.90	0.90								0.90	1.00		
ACSB08	DATABASE MANAGEMENT SYSTEMS	1.90	1.80	1.70	1.60						1.90		1.70	1.40	1.70	1.70
AITB06	OBJECT ORIENTED PROGRAMMING THROUGH JAVA LABORATORY	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30		2.30		2.30	2.30	2.30	2.30
AITB07	DESIGN AND ANALYSIS OF ALGORITHMS LABORATORY		2.30	2.30	2.30	2.30	2.30		2.30		2.30		2.30	2.30	2.30	2.30
ACSB09	DATABASE MANAGEMENT SYSTEMS LABORATORY		3.00	3.00		3.00					3.00		3.00		3.00	
AITB26	Software Engineering	2.00	2.00	1.90	2.00	1.90					2.10		2.20	1.90	2.10	1.80
ACSB10	Object Oriented Analysis and Design	1.20	0.90	1.30	1.40	1.50				1.80	1.30		1.40	1.20		1.30
AITB09	Web Technologies	2.40	2.30	2.90		2.30							2.30	2.90	1.20	2.30
AITB10	Computer Networks	1.70	1.80	1.30	1.80						1.90		2.10	1.60	1.80	1.80
ACSB11	Compiler Design	1.40	1.40	1.20		1.40					1.20			1.50	1.70	1.20

Course					Р	rogr	am O	outco	mes (	POs	)					pecific PSOs)
Code	Course	PO1	PO2	PO3		~						PO11	PO12			PSO3
ACSB21	Machine Learning	1.40	1.40	1.60	1.40	1.40							1.80	1.40	1.20	1.40
	Microprocessors and Interfacing	1.70	1.20	1.20							1.50			1.40		
	0	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
ACSB12	Case Tools Laboratory		3.00	3.00		3.00					3.00		3.00	3.00		3.00
	Web Technologies Laboratory	3.00	3.00	3.00		3.00	3.00	3.00	3.00	3.00	3.00		3.00	3.00	3.00	3.00
AITB22	Information Security	2.20	2.10	2.10	2.60						2.10		2.10	2.10	2.10	2.10
ACSB13	Principles of Artificial Intelligence	2.40	2.60	2.30							2.30			2.40	2.30	
AITB12	0	2.00	2.30	2.00		2.00								2.10	2.30	
ACSB14	Data Ware Housing and Data Mining	2.50	2.40	2.30	2.30	2.60					2.30		2.30	2.50	2.30	2.60
AITB20	-	2.70	2.70	2.80	2.90	2.90		2.90			2.70		2.70	2.80	2.90	2.90
	Soft Skills and Interpersonal Communication								2.30	1.20	2.50					
AHSB16	Research Based Learning (Fabrication / Model Development)	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
AITB13		3.00	3.00	3.00										3.00	3.00	
ACSB15	Data Ware Housing and Data Mining Laboratory	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00		3.00	3.00	3.00	3.00
ACSB26	Advanced Databases	2.50	2.60											2.90	2.60	
ACSB30	Soft Computing	2.30	2.40	2.30							2.30		2.30	1.90	2.30	2.30
AITB14	Big Data Analytics	2.40	2.40	2.40		2.40					2.40		2.40	2.40	2.40	2.30
AITB15	Cloud Computing	2.90	2.90	2.90		2.90							2.90	2.90	2.90	2.90
AITB35	E-commerce	2.70	2.90	2.70	2.90						2.90			2.60	2.90	
AITB16	Big Data Analytics Laboratory	3.00	3.00	3.00		3.00										3.00
AITB17	-	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30		2.30	2.30	2.30	2.30
AITB36	Project Work - (phase - I)	2.30	2.30	2.30	2.30	2.30	2.30		2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
ACEB52	Energy from Waste	2.30		2.40			2.40	2.40					2.30		2.30	
	Project Work - (Phase - II)		1.60		1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60		1.60
Attainme		2.3	2.3	2.3	2.3	2.4	2.5	2.7	2.5	2.4	2.4	2.3	2.4	2.3	2.3	2.4

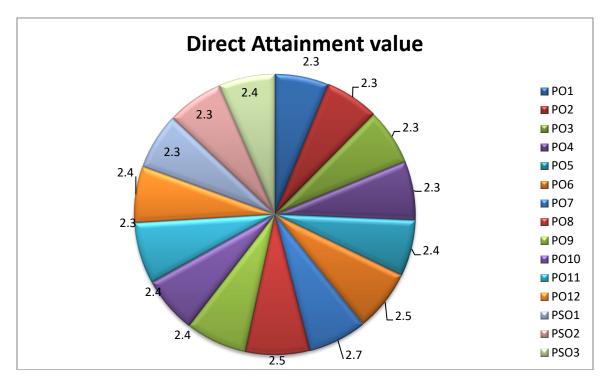
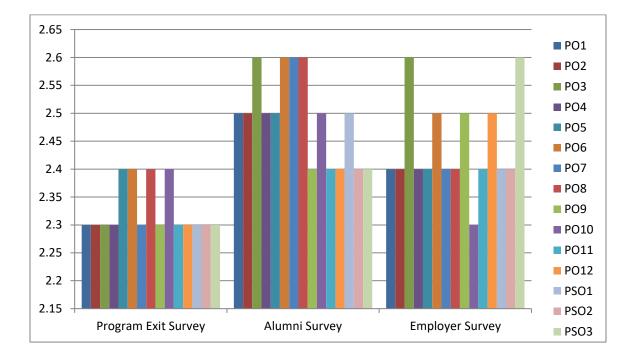


Figure 1: Program Outcomes (PO) Direct Attainment for IT 2019 – 2023 batch

# **PO Attainment Overall**

Regu	lation R18															
Bran	ch Information Technol	ogy														
Batcl	h 2019-2023															
	Assessment Components				Р	rogr	am C	outco	mes	(POs	)				gram Spe comes (P	
S.No	(Direct + Indirect)	PO1	PO2	PO3	PO4	PO5	PO6	<b>PO7</b>	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	Direct Assessment (CIA + SEE + Course End Survey) (a)	2.3	2.3	2.3	2.3	2.4	2.5	2.7	2.5	2.4	2.4	2.3	2.4	2.3	2.3	2.4
2	Program Exit Survey (b)	2.3	2.3	2.3	2.3	2.4	2.4	2.3	2.4	2.3	2.4	2.3	2.3	2.3	2.3	2.3
3	Alumni Survey (c)	2.5	2.5	2.6	2.5	2.5	2.6	2.6	2.6	2.4	2.5	2.4	2.4	2.5	2.4	2.4
4	Employer Survey (d)	2.4	2.4	2.6	2.4	2.4	2.5	2.4	2.4	2.5	2.3	2.4	2.5	2.4	2.4	2.6
Fina	l attainment = a*0.8 + b*0.1 + c*0.05 + d*0.05	2.3	2.3	2.3	2.3	2.4	2.5	2.6	2.5	2.4	2.4	2.3	2.4	2.3	2.3	2.4



#### Figure 2: Program Outcomes (PO) Indirect Attainment for IT 2019 – 2023 batch

# **Action Taken Report**

Program Outcomes	Target level	Attainment level	Observations							
PO1: Engineering know	O1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an									
engineering specialization	ngineering specialization to the solution of complex engineering problems.									
PO 1	1.95	2.3	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 h										
Action 2: Students will b laboratory sessions. Action 3: Additional class	<ul><li>Action 1: The target will be retained. Video lectures will be used to explain the concepts for better understanding.</li><li>Action 2: Students will be asked viva questions relating to the basic concepts to refresh their fundamentals in laboratory sessions.</li><li>Action 3: Additional classes will be conducted beyond the regular classes for the courses which have less</li></ul>									
attainment.	· · · · · · · · · · · · · · · · · · ·									
			security, IoT, and AI & ML.							
2	2		nd analyze complex engineering problems atural sciences, and engineering sciences.							
PO 2	1.95	2.3	Target achieved. Additional classes conducted for numerical courses beyond the regular planned classes have helped the students to perform better.							

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	1.95	2.3	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.

PO 4	1.95	2.3	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	1.95	2.4	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	1.95	2.5	Target achieved. Hence the same
			practice will be continued for the 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 context	s and demonstrate the	knowledge of and need	for sustainable development.
PO 7	<b>1.95</b>	2.6	Target achieved. Best practices to
107	1.75	2.0	students should be more exposed to
			-
			1 5
	1 1 1 .	• • • • • • •	environmental and sustainability
			ad environmental issues can be addressed
	ictly instructed to swite	h off all electrical Equip	pment /Resources when not in use
for all the laboratories		_	
	ainwater harvesting, S	ewage treatment plants,	proper waste management procedures are
employed at our college.			
	cal principles and con	mit to professional eth	nics and responsibilities and norms of the
engineering practice.			
<b>PO 8</b>	1.95	2.5	Target achieved. It is mandatory that
			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			
			al, and as a member or leader in diverse
teams, and in multidiscipli		lootively us all married	an, and us a memory of feader in diverse
PO 9	<b>1.95</b>	2.4	Target achieved. Individual work was
107	1.75	2.7	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			nic year.
Action 2: Students will be	e encouraged to particip		
	e encouraged to particip		nic year.
Action 2: Students will be	e encouraged to particip ultural activities.	ate in various co-curricu	nic year. ular and extra-curricular activities in other
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and life-long learning in th	e broadest context of te	echnological change.	
PO 12	1.95	2.4	Target achieved. projects which are part of the curriculum have helped the students to perform better in placement interviews and higher studies.
Action 1: Target will be r	retained and will be obs	served for the next acade	mic year.
Action 2: Students will be	e motivated to register	for GRE/TOEFL/GATE	and other competitive examinations.
			es, search engines, soft computing and
intelligent systems, web br	· · · · · · · · · · · · · · · · · · ·		
PSO 1 Action 1: Target will be re	1.95	2.3	Target achieved.
introduce more professiona <b>PSO 2:</b> Focus on mobile a in demand with employers	and web applications d		e emerging technologies and frameworks
PSO 2	1.95	2.3	Target achieved.
Action 1: To strengthen	the web application	knowledge and emerg	ing technologies to develop innovative
techniques using Hackatho			
<b>PSO 3:</b> Practical experie techniques will equip to se			ndustry standard tools and collaboration IT industry.
PSO 3	1.95	2.4	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.
Action 1: Department will national level / Internation			n intra collage/ inter college / state level/

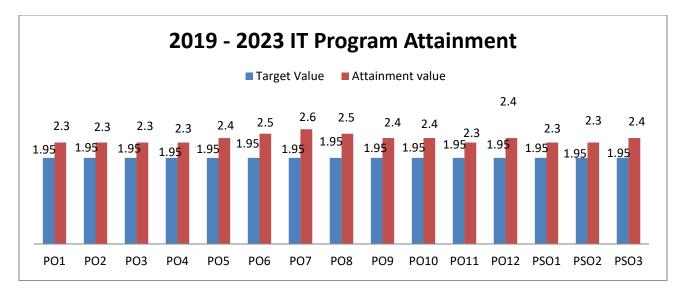


Figure 3: Program Outcomes (PO) Overall Attainment for IT 2019 – 2023 batch

M. FA

HOD, IT