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INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous) Dundigal, Hyderabad – 500 043

DEPARTMENT OF INFORMATION TECHNOLOGY

Attainment of Program Outcomes (POs) of 2017 – 2021 batch (IARE – R16)

		Prog	gram (Outcon	nes (PC	Ds)									m Speci nes (PSC	
Course Code	Course	PO1	P02	P03	P04	PO5	P06	P07	PO8	P09	PO10	P011	P012	PS01	PSO2	PSO3
AHS002	Linear Algebra And Ordinary Differential Equations	1.8	1.4													
AHS003	Computational Mathematics And Integral Calculus	2.5	2.6													
AHS005	Engineering Chemistry	1.8	2.1					1.8								
AHS006	Engineering Physics	1.9	1.9		1.7											1.7
ACS001	Computer Programming	1.9	1.7	1.5		1.9					1.9		1.9	1.9		1.9
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	2.4	2.4		2.4									2.4		
AHS102	Computational Mathematics Laboratory	2.1	2.1		2.1									2.1		
AHS001	English For Communication										2					
AHS010	Probability And Statistics	2.8	2.8		2.8											
AHS009	Environmental Studies	2.5			1.8			2.5								
ACS002	Data Structures	1.7	1.7	1.7	1.7	1.8					1.7		1.8	1.6	1.2	1.6
AEE001	Fundamental Of Electrical And Electronics Engineering	1.9	2.2											1.7		
AHS101	Communication Skills Laboratory									2.1	2.1					
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	2	2	2	2	2	2				2			2		2
AIT001	Design And Analysis Of Algorithms	1.6	1.9	2.4	1.5								1.8	1.5		
AEC020	Digital Logic Design	1.9	1.8	1.7	1.6						1.9				1.6	
AHS013	Discrete Mathematical Structures	1.6	1.4	1.8										1.6		
ACS005	Database Management Systems	1.7	1.6	1.4	1.4						1.6		1.2	1.8		1.5
ACS004	Computer Organization And Architecture	1.2	1.2	1.2	1.1						1.2		1.1	1.2	1.2	1.2
AIT101	Design And Analysis Of Algorithms Laboratory		3	3	3	3	3		3		3		3	3	3	3
ACS104	Database Management Systems Laboratory	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
AEC116	Digital Logic Design Laboratory	2.4	2.4	2.4		2.4				2.4	2.4				2.4	
ACS003	Object Oriented Programming Through JAVA	2.7	2.7	2.7	2.7						2.9		2.7	2.7	2.9	2.8
ACS007	Operating Systems	1.8	1.9	1.9	2.1						1.8		1.5	1.9	1.6	1.4

ACS008	Software Engineering	1.5	1.2	1.5	1.6	1.2					1.2		1.2	1.6	1.2	1.2
AIT002	Theory Of Computation	1.8	1.8	1.9	2.4									2.1		1.8
AIT003	Computer Networks	1.8	1.4	1.6	1.5						1.6		1.2	1.4	1.8	1.4
ACS103	Object Oriented Programming Through JAVA 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
ACS106	Operating 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
ACS107	Software Engineering 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
ACS006	Web Technologies	1.9	1.7	1.8	1.8	1.9					1.9		1.9	1.9	1.5	1.9
ACS009	Object Oriented Analysis And Design	2.1	1.9	2.1	2.1	2				1	1.8		1.8	2.2		1.9
AIT004	Compiler Design	1.7	1.3	1.6		2					1.3			2.1		1.3
AHS012	Optimization Techniques	2.5	2.5	2.5	2.2	2.9					2.6		2.5	2.6		2.5
AHS015	Business Economics And Financial Analysis	1.8	1.7						1.6	1.6		1.6				
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	1.6	1.6	1.6	1.6	1.6	1.6		1.6	1.6	1.6		1.6	1.6	1.6	1.6
AIT505	Advanced Databases	1.4	1	1	1.8	1.2							1.2	0.5	1.2	1
ACE551	Disaster Management	2.5					2.6	2.7		2.3						
ACS013	Information Security	2.8	2.8	2.8	2.9		2.8		2.8		2.8		2.8	2.8		2.8
AEC023	Microprocessors Interfacing And Applications	2	1.7	1.7							1.9			1.7		
AIT005	Linux Internals	1.7			1.7	1.7					1.7		1.6	1.8	1.8	1.7
AEC115	Microprocessors And Interfacing Laboratory	2	2	2		2				2	2			2		
ACS510	Internet Of Things (Iot)	2.8	2.8	2.8	2.8	2.8		2.6						2.8	2.8	2.7
AIT105	Linux Internals Laboratory	2	2	2	2	2	2	2	2	2	2		2	2	2	2
A ITT 1 0 2	Data Warehousing And Data Mining		2.2		2.2	2.2	2.2			2.2	2.2		2.2			0.0
AIT102	Laboratory	2.3	2.3	2.3	2.3	2.3	2.3		2	2.3	2.3	2	2.3	2.3	2.3	2.3
AIT201	Ideation And Product Development	2	2	2	2	2	2		2	2	2	2	2	2	2	2
AIT006	Data Warehousing And Data Mining	2.2	2.1	1.9	1.8	1.8	•	• •			2		2.4	2.3	1.9	2.4
AEE551	Energy From Waste	2.9	-	2.9		0.6	2.9	2.9					2.9			1.0
AIT007	Cloud Computing	2.2	2	1.8	1.0	0.6					2.2		2.2	1.5	2.1	1.9
AIT008	Software Testing Methodology BIG DATA AND BUSINESS	2.2	2.2	1.9	1.3	1.3								1.8	1.3	1.3
ACS012	ANALYTICS	1.8	1.8	1.8		1.8					1.8		1.8	1.8	1.7	1.9
AIT512	Software Process And Project Management	2								2.7	2.1			2.1		
ACS110	Cloud Application Development Laboratory	2	2	2	2	2	2	2	2	2	2		2	2	2	2
AIT104	Software Testing Methodology Laboratory	2.1	2.1	2.1	2.1	2.1	2.1			2.1	2.1		2.1	2.1	2.1	2.1
ACS111	Big Data And Business Analytics Laboratory	1.4	1.4	1.4		1.4							1.4	1.4	1.4	1.4
ACS014	Machine Learning	1.8	1.8	1.8							1.8			1.8		1.6
AIT514	E-Commerce	1.9	2.1	2	1.5						2.1			1.8	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	2.1	2	2.1	2.1	2.1	2.3	2.4	2.3	2.2	2.1	2.3	2.1	2	2	2

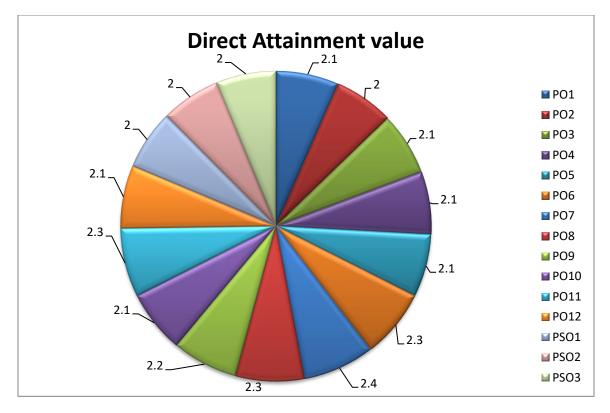
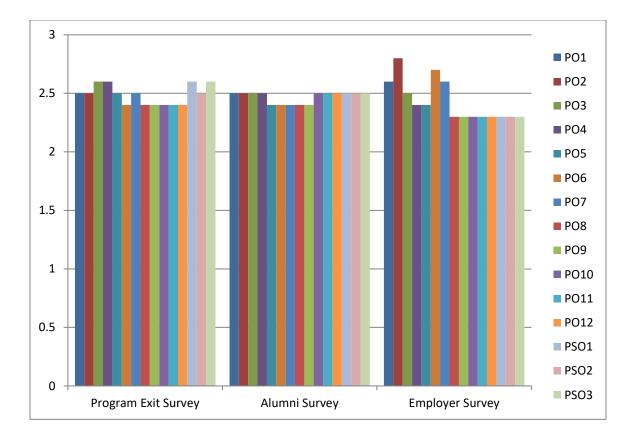


Figure 1: Program Outcomes (PO) Direct Attainment for IT 2017 – 2021 batch

PO Attainment Overall

Regulat	ion	R16														
Branch		Inform	nation	Techr	nology											
Batch		2017-2	2021													
		Progr	am Ou	itcome	s (POs	;)								Progra Specifi Outcom (PSOs	ic mes	
S.No	Assessment Components (Direct + Indirect)	POI	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PSO2	PSO3
	Direct Assessment (CIA + SEE + Course End Survey)															
1		2.1	2	2.1	2.1	2.1	2.3	2.4	2.3	2.2	2.1	2.3	2.1	2	2	2
2	Program Exit Survey (b)	2.5	2.5	2.6	2.6	2.5	2.4	2.5	2.4	2.4	2.4	2.4	2.4	2.6	2.5	2.6
3	Alumni Survey (c)	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	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
Final att d*0.05	ainment = $a*0.8 + b*0.1 + c*0.05 +$	2.2	2.1	2.2	2.2	2.2	2.3	2.4	2.3	2.2	2.2	2.3	2.2	2.1	2.1	2.1





Action Taken Report

Program Outcomes	Target	Attainment	Observations
	level	level	
PO1: Engineering know	ledge: Apply the know	vledge of mathematics, s	science, engineering fundamentals, and an
engineering specialization	to the solution of comp	plex engineering problem	18.
PO 1	1.85	2.2	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	e retained. Video lectu	res will be used to explai	in the concepts for better understanding.
Action 2: Students will b	e asked viva question	s relating to the basic co	oncepts to refresh their fundamentals in
laboratory sessions.			
Action 3: Additional cla attainment.	sses will be conducte	d beyond the regular c	lasses for the courses which have less
Action 4: Co-curricular ac	tivities are scheduled in	n the area of NLP, cyber	security, IoT, and AI & ML.
PO2: Problem analysis:	Identify, formulate, rev	iew research literature, a	nd analyze complex engineering problems
reaching substantiated con	clusions using first prir	nciples of mathematics, n	atural sciences, and engineering sciences.
PO 2	1.85	2.1	Target achieved. Additional classes

			1,10,11,1
			conducted for numerical courses beyond the regular planned classes have helped
			the students to perform better.
Action 1: Target will be r			
	asses will be conducte	d beyond the regular c	classes for the courses which have less
attainment.			
-	t lectures, Seminars, and	d Guest lecturers to help	students in identifying & analyzing real-
time problems.			
			engineering problems and design system
			te consideration for the public health and
safety, and the cultural, so			
PO3	1.85	2.2	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 r	retained and will be obse	erved for the next acaden	nic year.
	1 · · · · ·		ng sessions to understand the process of
designing and analyzing r			
	encouraged to participat	te in external intercollege	e technical competitions, coding contests,
and hackathons.			
			based knowledge and research method
	riments, analysis and in	nterpretation of data, an	d synthesis of the information to provide
valid conclusions.			<u>.</u>
PO 4	1.85	2.2	Target achieved. Students were informed
			to refer to IEEE, Elsevier journal paper
			/Scopus to enhance their research
			knowledge, analysis, and interpretation
			knowledge, analysis, and interpretation of data.
Action 1: Target will be			knowledge, analysis, and interpretation of data. mic year.
Action 2: National/ interr	national conferences are	scheduled to promote re	knowledge, analysis, and interpretation of data. mic year. search culture among students.
Action 2: National/ interr PO5: Modern tool usage	national conferences are e: Create, select, and ap	scheduled to promote re ply appropriate techniqu	knowledge, analysis, and interpretation of data. mic year. search culture among students. es, resources, and modern engineering and
Action 2: National/ interr PO5: Modern tool usage IT tools including predi	national conferences are e: Create, select, and ap	scheduled to promote re ply appropriate techniqu	knowledge, analysis, and interpretation of data. mic year. search culture among students. es, resources, and modern engineering and
Action 2: National/ interr PO5: Modern tool usage IT tools including predi limitations.	national conferences are e: Create, select, and ap iction and modeling to	scheduled to promote re ply appropriate techniqu o complex engineering	knowledge, analysis, and interpretation of data. mic year. search culture among students. es, resources, and modern engineering and activities with an understanding of the
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Action 2: National/ interr PO5: Modern tool usage IT tools including predi limitations.	national conferences are e: Create, select, and ap iction and modeling to	scheduled to promote re ply appropriate techniqu o complex engineering	knowledge, analysis, and interpretation of data. mic year. search culture among students. es, resources, and modern engineering and activities with an understanding of the Target achieved. Students were exposed to various modern tools like android kits
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Action 2: National/ interr PO5: Modern tool usage IT tools including predi- limitations. PO 5 Action1: Target will be re Action2: Students are n modern tool usage. PO6: The engineer and safety, legal and cultural i PO 6 Action1:Target will be re Action2: Students have to through industrial visits. Action3: Continue associ	ational conferences are e: Create, select, and ap iction and modeling to 1.85 etained and will be obsent notivated to register for society: Apply reasoning 1.85 etained and will be obsent issues and the consequent 1.85 etained and will be obsent issues and the consequent 1.85 etained and will be obsent issues and the consequent 1.85 etained and will be obsent issues and the consequent 1.85 etained and will be obsent issues and the consequent 1.85 etained and will be obsent issues and the consequent i	scheduled to promote reply appropriate technique ply appropriate technique complex engineering 2.2 rved for the next academ r webinars/seminars com ng informed by the content responsibilities relevan 2.3 vved for the next academias professional engineer bodies like CSI, IEEE S	knowledge, analysis, and interpretatio of data. mic year. search culture among students. es, resources, and modern engineering an activities with an understanding of th Target achieved. Students were expose to various modern tools like android kits Jupyter, Eclipse, Netbeans, Pycharm NS3, which helpedto attain the target tic year. nducted by premier Institutes regarding extual knowledge to assess societal, health t to the professional engineering practice. Target achieved. Hence the sam practice will be continued for the nex year. ic year ing practices followed in the industries Student chapters, and CSI, IEEE Students
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			professional engineering solutions in societa
PO 7	1.85	2.4	ed for sustainable development. Target achieved. Best practices to students should be more exposed to work with projects related to environmental and sustainability
Action2: Students are a for all the laboratories	strictly instructed to switch Rainwater harvesting, Se	off all electrical Eq	and environmental issues can be addressed uipment /Resources when not in use ts, proper waste management procedures are
PO8: Ethics: Apply e		mit to professional e	ethics and responsibilities and norms of the
engineering practice. PO 8	1.85	2.3	Target achieved. It is mandatory that students should submit plagiarism certificates for project work.
			onducted, plagiarism check will be done to
			dual, and as a member or leader in diverse
PO 9	1.85	2.2	Target achieved. Individual work wa observed during lab sessions/project work. There was excellent team wor observed during the peer review presentation / seminars. Students wer encouraged to work as a team in all co- curricular and extracurricular activities.
colleges/sports activities	s/cultural activities.		icular and extra-curricular activities in other ral Fest.
and hackathons. Action 5: Department of app development.	e encouraged to participate encourages the formation of	in external inter coll of student clubs, par	-
Action 4: Students were and hackathons. Action 5: Department app development. PO10: Communication community and with se	e encouraged to participate encourages the formation operation on: Communicate effectivo ociety at large, such as, b	in external inter coll of student clubs, par vely on complex e eing able to compre	ticipation in technical events/Business ideas ngineering activities with the engineering hend and write effective reports and design
Action 4: Students were and hackathons. Action 5: Department of app development. PO10: Communication community and with so documentation, make ef PO 10	e encouraged to participate encourages the formation of on: Communicate effective ociety at large, such as, b ffective presentations, and g 1.85	in external inter coll of student clubs, par vely on complex e eing able to compre give and receive clear 2.2	ticipation in technical events/Business ideas ngineering activities with the engineering hend and write effective reports and design r instructions. Target achieved. Soft skills training wa imparted to the students to enhanc communication through group discussions and presentations. Project and seminar presentations assisted the students to communicate effectively and efficiently.
Action 4: Students were and hackathons. Action 5: Department of app development. PO10: Communication community and with so documentation, make ef PO 10 Action 1: Target will be	e encouraged to participate encourages the formation of on: Communicate effective ociety at large, such as, b ffective presentations, and s 1.85	in external inter coll of student clubs, par vely on complex e eing able to compre give and receive clear 2.2	ticipation in technical events/Business ideas ngineering activities with the engineerin hend and write effective reports and desig r instructions. Target achieved. Soft skills training wa imparted to the students to enhance communication through grout discussions and presentations. Project and seminar presentations assisted the students to communicate effectively an efficiently.
Action 4: Students were and hackathons. Action 5: Department of app development. PO10: Communication community and with so documentation, make ef PO 10 Action 1: Target will be Action 2: To enhance to	e encouraged to participate encourages the formation of on: Communicate effective ociety at large, such as, b ffective presentations, and s 1.85 e retained and will be observ the employability skills of	in external inter coll of student clubs, par vely on complex e eing able to compre give and receive clear 2.2 rved for the next acad the students, training	ticipation in technical events/Business ideas ngineering activities with the engineerin hend and write effective reports and desig r instructions. Target achieved. Soft skills training wa imparted to the students to enhance communication through groud discussions and presentations. Projection and seminar presentations assisted the students to communicate effectively and efficiently. lemic year. g programs will be conducted on the topics:
Action 4: Students were and hackathons. Action 5: Department of app development. PO10: Communication community and with se documentation, make ef PO 10 Action 1: Target will be Action 2: To enhance the how to face the intervie PO 11: Project manage management principles	e encouraged to participate encourages the formation of on: Communicate effective ociety at large, such as, b ffective presentations, and g 1.85 e retained and will be obser the employability skills of w, career development, hig gement and finance: Den and apply these to one's ov	in external inter coll of student clubs, par vely on complex e eing able to compre give and receive clear 2.2 rved for the next acad the students, training her studies, entrepren nonstrate knowledge wn work, as a member	ticipation in technical events/Business idea: ngineering activities with the engineerin hend and write effective reports and desig r instructions. Target achieved. Soft skills training wa imparted to the students to enhance communication through groundiscussions and presentations. Project and seminar presentations assisted the students to communicate effectively and efficiently. lemic year. g programs will be conducted on the topics: heurship development. and understanding of the engineering and
Action 4: Students were and hackathons. Action 5: Department of app development. PO10: Communication community and with se documentation, make ef PO 10 Action 1: Target will be Action 2: To enhance the how to face the intervie PO 11: Project manage management principles	e encouraged to participate encourages the formation of on: Communicate effective ociety at large, such as, b ffective presentations, and s 1.85 e retained and will be obsert the employability skills of w, career development, hig gement and finance: Dem	in external inter coll of student clubs, par vely on complex e eing able to compre give and receive clear 2.2 rved for the next acad the students, training her studies, entrepren nonstrate knowledge wn work, as a member	ticipation in technical events/Business ideas ngineering activities with the engineerin hend and write effective reports and desig r instructions. Target achieved. Soft skills training wa imparted to the students to enhance communication through groundiscussions and presentations. Project and seminar presentations assisted the students to communicate effectively and efficiently. Hemic year. g programs will be conducted on the topics: heurship development. and understanding of the engineering and

	the broadest context of to		ation and ability to engage in independent
PO 12	1.85	2.2	Target achieved. projects which are part of the curriculum have helped the students to perform better in placement interviews and higher studies.
	e retained and will be obs		
			E and other competitive examinations.
			ces, search engines, soft computing and
<u> </u>	browsers, and knowledge	^	
PSO 1	1.85	2.1	Target achieved.
Action2: To strengthen introduce more profession	the domain knowledge a onal elective courses.	nd make them job read	y graduates, the department is planning to
Action2: To strengthen introduce more profession PSO 2: Focus on mobil in demand with employed	the domain knowledge a onal elective courses.	nd make them job read evelopment and learn th llenges.	y graduates, the department is planning to ne emerging technologies and frameworks
Action2: To strengthen introduce more profession PSO 2: Focus on mobiling in demand with employed PSO 2	the domain knowledge a onal elective courses. e and web applications d ers and contemporary cha 1.85	nd make them job read evelopment and learn th llenges. 2.1	y graduates, the department is planning to ne emerging technologies and frameworks Target achieved.
Action2: To strengthen introduce more profession PSO 2: Focus on mobil in demand with employer PSO 2 Action 1: To strength techniques using Hackat	the domain knowledge a onal elective courses. e and web applications d ers and contemporary cha 1.85 en the web application thon programs.	nd make them job read evelopment and learn the llenges. 2.1 knowledge and emerge	y graduates, the department is planning to ne emerging technologies and frameworks Target achieved. ging technologies to develop innovative
introduce more profession PSO 2: Focus on mobilinin demand with employer PSO 2 Action 1: To strength techniques using Hackat PSO 3: Practical expension	the domain knowledge a onal elective courses. e and web applications d ers and contemporary cha 1.85 en the web application thon programs.	nd make them job read evelopment and learn th llenges. 2.1 knowledge and emerg world software, using i	y graduates, the department is planning to ne emerging technologies and frameworks Target achieved. ging technologies to develop innovative industry standard tools and collaboration

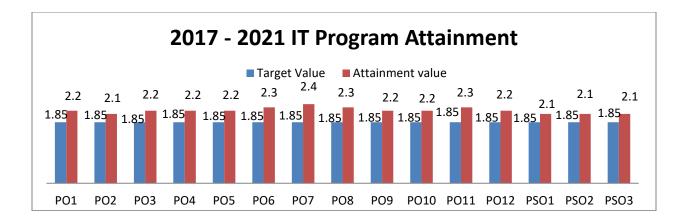


Figure 3: Program Outcomes (PO) Overall Attainment for IT 2017 – 2021 batch

M. Ble

HOD, IT