

Khandesh College Education Society's
COLLEGE OF ENGINEERING & MANAGEMENT,
JALGAON

Metrics No: 2.6.2

Title: Attainment of PO and CO

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KCES's College of Engineering and Information Technology, Jalgaon

DEPARTMENT OF MANAGEMENT

MBA 2016-17

Sr. No	PO/PSO Number	Title	Expected Level of attainment	Related Courses/ Course codes	Average % of attainment of Cos of all related courses	Comparison between expected and actual attainment
1	PO1	Apply knowledge of management theories and practices to solve business problems.	75	101, 103, 104, 105, 106, 204, 205, 206, 207, 305A, 307A, 306B, 307B, 305C, 402, 405A, 406A, 406B, 405C, 406C	69	6
2	PO2	Analyze and communicate global, economic, legal, and ethical aspects of business	70	102, 103, 107, 201, 202, 203, 301, 303, 304A, 307B, 304C, 307C, 401, 402, 403, 404, 406A, 406C	70	0
3	PO3	Illustrate analytical and critical thinking abilities for data-based decision	70	108, 201, 302, 306A, 304B, 305B, 305C, 306C, 407A, 405B	70	0
4	PO4	Develop value-based leadership ability.	70	101, 102, 104, 106, 107, 206, 305C, 306C, 406C	66	4
A. Financial Management						
5	PSO 1	Explain the concepts of financial management and apply the theories of financial management in practical situations	70	105, 205, 207, 305A, 306A, 307A, 405A, 406A	70	0
6	PSO 2	Demonstrate thorough knowledge of the subject and develop financial decision-making abilities in order to maximize the value of the firm.	65	304A, 306A, 407A	69	-4
7	PSO 3	Analyze the environment in which the business operates and evaluate the alternatives of the financial risk management	70	304A, 406A, 407A	68	2
8	PSO-1	Develop the financial strategies to enhance the firm's competitive strengths.	70	304A, 405A, 407A	68	2
B. Marketing Management						
9	PSO 1	Apply the knowledge of marketing management theories and practices and solve marketing related problems.	75	204, 306B, 307B, 406B	72	3
10	PSO 2	Illustrate analytical and critical thinking abilities to enhance decision making in marketing.	75	305B, 307B, 405B	79	-4
11	PSO 3	Analyze through marketing research, the environment in which the business operates and evaluate the alternatives of the marketing management.	70	305B, 405B, 407B	76	-6
12	PSO 4	Predict consumer behavior and build marketing strategies to maximize the sales of the firm.	75	305B, 405B, 407B	76	-1
C. Human Resource Management						
13	PO1	Apply the knowledge of human resource management theories and practices and solve business related problems.	70	104, 106, 206, 305C, 405C, 406C	66	4
14	PO2	Illustrate teamwork and leadership in organizations to accomplish organizational goals and objectives	70	104, 106, 206, 406C	65	5
15	PO3	Use the knowledge of various labour laws to take vital HR related decisions.	65	304C, 307C	67	-2
16	PO4	Analyze the environment in which business operates and formulate various HR policies.	65	306C, 406C, 407C	68	-3

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KCES's College of Engineering and Information Technology, Jalgaon

DEPARTMENT OF MANAGEMENT

MBA Sem-I 2016-2017

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Proposed action
1	101	Management Science	60	83	42	81	62	-2	
2	102	Corporate Communication Skills	60	82	50	81	66	-6	
3	103	Managerial Economics	70	83	69	80	75	-5	
4	104	Human Resource Management	70	82	46	81	64	6	Concerned Teacher is informed to take necessary action.
5	105	Business Accounting	65	84	62	79	72	-7	
6	106	Organizational Behavior - I	70	82	44	79	62	8	Concerned Teacher is informed to take necessary action.
7	107	Corporate Social Responsibility	70	81	59	80	70	0	
8	108	Quantitative Techniques	60	82	53	78	67	-7	

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KCES's College of Engineering and Information Technology, Jalgaon

DEPARTMENT OF MANAGEMENT

MBA Sem-II 2016-2017

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Proposed action
1	201	Business Research Methods	60	81	53	82	67	-7	
2	202	Information Technology For Managers	70	82	69	79	75	-5	
3	203	Global Economics Scenario	70	81	63	79	72	-2	
4	204	Marketing Management	70	83	54	79	67	3	Concerned Teacher is informed to take necessary action
5	205	Management Accounting	65	81	45	81	63	2	Concerned Teacher is informed to take necessary action
6	206	Organizational Behavior- II	70	82	52	78	66	4	Concerned Teacher is informed to take necessary action
7	207	Financial Management	70	79	62	79	70	0	
8	208	Operations Management	65	83	54	78	68	-3	



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KCES's College of Engineering and Information Technology, Jalgaon

DEPARTMENT OF MANAGEMENT

MBA Sem-III 2016-2017

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Proposed action
1	301	Strategic Management	70	81	58	81	70	0	
2	302	Management Information System & ERP	65	81	53	81	67	-2	
3	303	Legal Aspects Of Business	70	82	51	80	66	4	Concerned Teacher is informed to take necessary action.
A. Financial Management									
4	304A	Banking & Investment Management	70	82	63	79	72	-2	
5	305A	Tax Management	65	83	55	79	68	-3	
6	306A	Strategic Financial Management	70	83	62	81	72	-2	
7	307A	Practical Aspects of Business	70	83	61	80	71	-1	
B. Marketing Management									
8	304B	Product and Brand Management	70.00	84	61	79	72	-2	
9	305B	Consumer Behavior and Service Marketing	70.00	86	78	80	81	-11	
10	306B	Sales & Distribution	70.00	86	56	81	70	0	
11	307B	Global Marketing Management	70.00	88	80	79	82	-12	
C. Human Resource Management									
12	304C	Industrial Relations & Labour Welfare	70.00	79	55	80	67	3	Concerned teacher is informed to take necessary action.
13	305C	Human Capital Management and Development	70.00	80	56	81	68	2	-11
14	306C	Strategic Human Resource Management	70.00	82	53	80	67	3	-11
15	307C	Labour Laws	70.00	80	56	79	68	2	-11

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KCES's College of Engineering and Information Technology, Jalgaon

DEPARTMENT OF MANAGEMENT

MBA Sem-IV 2016-2017

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Proposed action
1	401	Current Business Scenario	65	81	59	81	70	-5	
2	402	E-commerce and Excellence Management	70	81	65	82	73	-3	
3	403	Indian Commercial Law	65	82	58	81	70	-5	
4	404	Entrepreneurship & Project Management	70	82	60	81	70	0	

A. Finance Management

5	405A	Financial Derivatives	65	84	58	79	70	-5	
6	406A	International Financial Management	65	79	61	78	70	-5	
7	407A	Case Studies in Financial Management	65	79	46	80	63	2	Concerned teacher is informed to take necessary action.

B. Marketing Management

8	405B	Marketing Research and Business Analytics	65	85	63	79	73	-8	
9	406B	Retail Management And Digital Marketing	70	86	55	77	69	1	Concerned teacher is informed to take necessary action.
10	407B	Case studies in Marketing	70	87	66	80	75	-5	

C. Human Resource Management

11	405C	Performance & Compensation Management	70	78	47	82	63	-3	
12	406C	International Human Resource Management	70	79	56	79	68	-8	
13	407C	Cases in Human Resource Management	70	80	58	80	69	1	Concerned teacher is informed to take necessary actions.



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KCES's College of Engineering and Information Technology, Jalgaon

DEPARTMENT OF COMPUTER ENGINEERING

PO and PSO Attainment

A. Y. 2016-17 BE (Computer Engineering) Sem-I/II/III/IV/V/VI/VII/VIII

Sr. No	PO/PSO Number	Title	Expected Level of attainment	Related Courses/ Course codes	Average % of attainment of Cos of all related courses
1	PO1	Engineering Knowledge	60	PHY- I, CHEM -I, EM-I PHY- II, CHEM -II, EM-II, Civil, EEE ED CP	53.48
2	PO2	Problem Analysis	70	OOT, CG, DSGT, ADA, DS	60.83
3	PO3	Design/Development of Solutions	65	MP, OOT, CG, ADA, OS, DBMS, AUP, SE, CO	61.02
4	PO4	Conduct Investigations of Complex Problems	60	CD, DWM, MC, ES, AUP, ADE, FLAT	62.89
5	PO5	Modern Tool Usage	65	OS, CD, IP, DWM, MC, FLAT	61.87
6	PO6	The Engineer and Society	75	OS, MP, DC, CD, SP	64.40
7	PO7	Environment and Sustainability	70	ES	64.87
8	PO8	Ethics	65	MIS, POM	59.40
9	PO9	Individual and Team Work	60	MIS, POM, SMQA	61.71
10	PO10	Communication	65	MIS, POM, SE SMQA	61.19
11	PO11	Project Management and Finance	70	MIS, POM, SMQA, OOMD	61.71
12	PO12	Life-long Learning	75	ADA, DBMS, OS, DWM, SMQA, MC, SP, IP	62.22
13	PSO1	Problems Solutions with Tools and Technology	60	FLAT, DSGT, ADA, MP, MPMI, ADE	62.50
14	PSO2	Skills For Employment	65	MC, AIES, ES, DWM, CN	62.67
15	PSO3	Computer Hardware and Networking	60	CN, ACA, ES, DC	62.16

Computer Engineering Dept.


KCES's College of Engineering and Information Technology, Jalgaon

DEPARTMENT OF BASIC SCIENCE

Course Outcome attainment

A. Y. 2016-17 - FE (Computer Engineering) Sem-I

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Action Taken
1	101101	(101101) Engineering Physics-I	60	61.59	38.49	73.60	52.44	7.56	For necessary action and improvement communicated to subject teachers
2	101102	(101102) Engineering Chemistry-I	60	66.59	42.19	74.20	55.91	4.09	
3	101103	(101103) Engineering Mathematics-I	50	74.55	36.86	73.80	55.55	-5.55	
4	101104	(101104) Elements of Civil Engineering & Engineering Mechanics	50	74.55	20.81	69.60	46.69	3.31	
5	101105	(101105) Computer Programming	60	48.36	52.20	71.60	54.93	5.07	


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 Basic Science Dept.

KCES's College of Engineering and Information Technology, Jalgaon

DEPARTMENT OF BASIC SCIENCES

Course Outcomes Attainment

A. Y. 2016-17 - FE (Computer Engineering) Sem-II

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Action Taken
1	102111	(102111) Engineering Physics-II	60	60.96	39.75	71.80	52.52	7.48	For necessary action and improvement communicated to subject teacher
2	102112	(102112) Engineering Chemistry-II	60	60.19	55.81	75.00	60.96	-0.96	
3	102113	(102113) Engineering Mathematics-II	50	62.88	36.00	73.50	51.57	-1.57	
4	102114	(102114) Elements of Electrical & Electronics Engineering	55	53.46	32.19	73.60	46.85	8.15	
5	102115	(102115) Engineering Drawing and Elements of Mechanical Engineering	50	57.54	51.81	72.00	57.57	-7.57	


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Basic Science Dept.

KCES's College of Engineering and Information Technology, Jalgaon

DEPARTMENT OF COMPUTER ENGINEERING Course Outcome Attainment A. Y. 2016-17 - SE (Computer Engineering) Sem-III

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Action Taken
1	173101	(173101) Engineering Mathematics-III	60	74.17	46.88	67.60	59.21	0.79	
2	173102	(173102) Analog & Digital Electronics	70	66.00	64.96	73.00	66.88	3.12	
3	173103	(173103) Discrete Structure & Graph Theory	65	60.67	60.67	67.00	61.93	3.07	For necessary corrective action and improvement communicated to subject teacher
4	173104	(173104) Microprocessor & Microcontroller	70	66.17	59.90	77.60	65.32	4.68	
5	173105	(173105) Object Oriented Technology	65	48.93	61.44	72.00	59.80	5.20	


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KCES's College of Engineering and Information Technology, Jalgaon
DEPARTMENT OF COMPUTER ENGINEERING
Course Outcome Attainment
A.Y 2016-17 - SE (Computer Engineering) Sem-IV

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Action Taken
1	174111	(174111) Data Communication	60	56.85	63.43	75.2	63.81	-3.81	
2	174112	(174112) Microprocessor & Microcontroller Interfacing	65	63.65	61.81	78	65.60	-0.60	
3	174113	(174113) Data Structures	60	62.41	55.03	77.8	61.80	-1.80	For necessary corrective action a improvement communicated subject teacher
4	174114	(174114) Computer Organization	70	57.59	67.59	73.4	65.75	4.25	
5	174115	(174115) Computer Graphics	60	47.08	63.40	70	59.82	0.18	

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KCES's College of Engineering and Information Technology, Jalgaon

DEPARTMENT OF COMPUTER ENGINEERING

Course Outcome Attainment

A. Y. 2016-17 - TE (Computer Engineering) Sem-V

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Action Taken
1	175101	(175101) Software Engineering	65	47.36	60.03	77.00	59.62	5.38	For necessary corrective improvement and action communicated to subject teacher
2	175102	(175102) Formal Language & Automata Theory	60	65.28	40.09	74.40	54.51	5.49	
3	175103	(175103) Computer Network	65	60.14	48.96	79.20	58.36	6.64	
4	175104	(175104) System Programming	65	58.61	56.90	78.80	61.79	3.21	
5	175105	(175105) Principles of Management	70	53.44	67.62	75.90	65.02	4.98	

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HOD Computer Dept

KCES's College of Engineering and Information Technology , Jalgaon

DEPARTMENT OF COMPUTER ENGINEERING

Course Outcome Attainment

A.Y 2016-17 - TE (Computer Engineering) Sem-VI

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Action Taken
1	176112	(176112) Operating System	65	55.78	67.48	69.00	64.27	0.73	For necessary corrective action an improvement communicated to sub teacher
2	176113	(176113) Object Oriented Modeling & Design	70	65.31	62.84	69.80	64.97	5.03	
3	176114	(176114) Database Management System	65	52.34	57.31	72.00	58.76	6.24	
4	176115	(176115) Analysis & Design of Algorithms	60	56.72	61.04	66.40	60.81	-0.81	
5	176116	(176116) Management Information System	50	48.25	51.03	69.00	53.79	-3.79	

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KCES's College of Engineering and Information Technology, Jalgaon
DEPARTMENT OF COMPUTER ENGINEERING

Course Outcome Attainment
A. Y. 2016-17 - BE (Computer Engineering) Sem- VII

Sr. No	Course Code	Course Name	Expected Level of attainment	% attainment using direct tool 1	% attainment using direct tool 2	% indirect tool	% attainment	Difference between expected attainment and actual attainment	Action Taken
1	177101	177101 Advanced UNIX Programming	70	52.50	58.04	82.00	61.17	8.83	For necessary corrective action and improvement communicated to subject teacher
2	177102	177102 Artificial Intelligence & Expert System	65	35.88	73.58	71.80	61.91	3.09	
3	177141	177141 Advanced Computer Architecture	65	53.24	63.60	69.20	61.61	3.39	
4	177105	177105 Embedded System	65	54.71	67.05	74.70	64.88	0.12	
5	187132	187132 Image Processing	60	36.94	62.55	76.40	57.64	2.36	

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KCES's College of Engineering and Information Technology, Jalgaon

DEPARTMENT OF COMPUTER ENGINEERING

Course Outcome Attainment

A. Y. 2016-17 - BE(Computer Engineering) Sem-VIII

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Action Taken
1	178112	178112 Compiler Design	65	62.06	65.95	74.90	66.57	-1.57	For necessary corrective action and to improvement communicated to subject teacher
2	178113	178113 Data Warehousing & Mining	70	61.03	60.16	74.70	63.33	6.67	
3	178141	178141 Software Metrics and Quality Assurance	65	51.91	69.90	79.00	66.32	-1.32	
4	178151	178151 Mobile Computing	65	61.91	63.51	72.90	64.91	0.09	

W. N. K.
HOD Computer Dept

KCES's College of Engineering and IT, Jalgaon
DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION
B.E (E&TC Engineering) Sem-I/II/III/IV/V/VI/VII/VIII

2016-17

Sr. No	PO/PSO Number	Title	Expected Level of attainment	Related Courses/ Course codes	Average % of attainment of Cos of all related courses	Comparison between expected and actual attainment
1	PO 1	Engineering knowledge:	60	Phy-I,SSDC-I	48.7	11.3
2	PO 2	Problem analysis	65	EM1,EM2,ECM	51.9	13.1
3	PO 3	Design/development of solutions	60	DTA,ECD,FCS	55.1	4.9
4	PO 4	Conduct investigations of complex problems	60	EM-III,NAS,EME	45.7	14.3
5	PO 5	Modern tool usage	65	FOC,DSP,VLSI	57.9	7.1
6	PO 6	The engineer and society	60	Phy-II,CDIT,EM	56.5	3.5
7	PO 7	Environment and sustainability	65	Che-I,Che-II,Phy-I	55.5	9.5
8	PO 8	Ethics	70	ECE&EM,CCN	50.4	19.6
9	PO 9	Individual and team work	70	IM,CCN,ECD	59.4	10.6
10	PO 10	Communication	65	CS-I,CS-II,AVE	62.2	2.8
11	PO 11	Project management and finance	60	MP,IETR,SEPM	56.7	3.3
12	PO 12	Life-long learning	60	Che-II,EEE,LIC	55.4	4.6
13	PSO 1	Design, simulate and develop	65	CP,PE,ED&ME	55.6	9.4
14	PSO 2	Install, operate and maintain	65	SSDC-II,RMT,SMC	62.2	2.8
15	PSO 3	Engage in innovations	70	MC&PIC,DIP,TNM	64.4	5.6


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KCES's College of Engineering and IT, Jalgaon

DEPARTMENT OF BASIC SCIENCES

BE (E & TC Engineering) Sem-I

2016-17

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Proposed action
1	101101	(101101) Engineering Physics-I	60	55	34.89583333	73.6	48.6679167	11.33208333	} discuss and suggestion given by Faculty
2	101102	(101102) Engineering Chemistry-I	60	66.666667	39.58333333	74.2	54.6316667	5.36833333	
3	101103	(101103) Engineering Mathematics-I	50	65	38.02083333	73.8	53.2704167	-3.270416667	
4	101104	(101104) Elements of Civil Engineering & Engineering Mechanics	50	46.666667	11.45833333	69.6	33.6491667	16.35083333	
5	101105	(101105) Computer Programming	60	46.666667	55.72916667	71.6	56.1845833	3.815416667	

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KCES's College of Engineering and IT, Jalgaon

DEPARTMENT OF BASIC SCIENCES BE (E & TC Engineering) Sem-II

2016-17

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Proposed action
1	102111	(102111) Engineering Physics-II	60	65	42.1875	71.8	54.95375	5.04625	2 Discus and sugg given to
2	102112	(102112) Engineering Chemistry-II	60	54.16666667	63.80208333	75	63.15104167	-3.151041667	
3	102113	(102113) Engineering Mathematics-II	50	63.33333333	39.32291667	73.5	53.36145833	-3.361458333	
4	102114	(102114) Elements of Electrical & Electronics Engineering	55	40.83333333	41.40625	73.6	47.673125	7.326875	
5	102115	(102115) Engineering Drawing and Elements of Mechanical	50	52	45.83333333	72	52.91666667	-2.916666667	

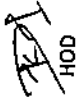
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KCES's College of Engineering and IT, Jalgaon
DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

B.E (E&TC Engineering) Sem-III

Sr. No	Course Code (Course Name)	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Proposed action
1	183101 (183101) Solid State Device And Circuit	65	55.83333333	41.25	67.6	50.895	14.105	} Discus and suggest Faculty Given in
2	183102 (183102) Electronic Circuit And Machines	60	53.61111111	36.47460938	73	48.92069802	11.07936198	
3	183103 (183103) Digital Technique And Application	60	53.61111111	44.17613636	67	51.57140152	8.428598485	
4	183104 (183104) Component Devices And Instrume	70	48.19444444	51.51654412	77.6	55.73660539	14.26339461	
5	183105 (183105) Communication System-I	60	38.77777778	49.44852941	72	50.75759804	9.242401961	

2016-17



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KCES's College of Engineering and IT, Jalgaon

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

B.E (E&TC Engineering) Sem-IV

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Proposed action
1	184111	(184111) Engineering Mathematics-III	60	49.41176471	21.75	67.6	39.21852941	20.78147059	Trusts and suggestions given to faculty
2	184112	(184112) SSDC-II	70	52.35294118	49.6875	73	55.14963235	14.85036765	
3	184113	(184113) MP	65	48.82352941	45.07575758	67	50.58493761	14.41506239	
4	184114	(184114) LIC	70	52.79411765	47.875	77.6	55.29573529	14.70426471	
5	184115	(184115) NAS	60	45.17647059	32.41666667	72	44.16127451	15.83872549	


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KCES's College of Engineering and IT, Jalgaon

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

B.E (E&TC Engineering) Sem-V

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% indirect tool	% attainment	Difference between expected attainment and actual attainment	Proposed action
1	185101	(185101) Electronic Circuit & Design	70	60.13888889	42.63392857	67.6	52.87863095	17.12136905	2016-17 <i>Spissus and su given to</i>
2	185102	(185102) Communication System II	70	64.86111111	72.39583333	73	70.25625	-0.25625	
3	185103	(185103) Microcontroller & PIC	70	64.72222222	58.4375	67	62.03541667	7.964583333	
4	185104	(185104) Feedback Control System	65	60.55555556	54.45772059	77.6	60.91552696	4.084473039	
5	185105	(185105) Electro Magnetic Engineering	60	54.44444444	32.94642857	72	47.20654762	12.79345238	

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KCES's College of Engineering and IT, Jalgaon

DEPARTMENT OF

B.E (E&TC Engineering) Sem-VI

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Proposed action
1	186112	(186112) IETR	65	55.41666667	57.1875	67.6	58.73875	6.26125	} Issues and suggest } given to faculty
2	186113	(186113) PE	65	58.33333333	51.11607143	73	57.65803571	7.341964286	
3	186114	(186114) EM	65	49.16666667	61.25	67	58.775	6.225	
4	186115	(186115) AVE	70	60.69444444	63.92857143	77.6	65.69261905	4.307380952	
5	186116	(186116) IM	65	41.02857143	62.80381944	72	58.11048115	6.889518849	

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Mrs.K.D.Mahajan

KCES's College of Engineering and IT, Jalgaon
DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

B.E (E&TC Engineering) Sem-VII

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	between expected attainment and actual attainment	Proposed action
1	187101	(187101) Digital Signal Processing	65	60.14705882	56.0546875	67.6	59.5914614	5.408538603	
2	187102	(187102) Fiber Optic Communication	70	61.47058824	44.43359375	73	55.25797335	14.74202665	Discuss and su
3	187105	(187105) Computer Communication Network	70	68.23529412	66.55273438	67	67.14695542	2.853044577	Discuss and su
4	177131	(177131) Software Engineering And Project Managment	70	49.26470588	61.1328125	77.6	60.86581801	9.134181985	given to
5	187141	(187141) VLSI	65	35.29411765	67.48991935	72	58.73319497	6.266805028	

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Mrs. K.D. Mahajan

KCES's College of Engineering and IT, Jalgaon

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

B.E (E&TC Engineering) Sem-VIII

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between Expected attainment and actual attainment	Proposed action
1	188113	(188113) RMT	65	62.79411765	61.90257353	67.6	63.30952206	1.690477941	
2	188116	(188116) SMC	70	61.32352941	70.12867647	73	68.06139706	1.938602941	
3	188142	(188142) DIP	70	62.94117647	72.33455882	67	68.44963235	1.550367647	
4	188153	(188153) TNM	65	49.26470588	64.56801471	77.6	62.58341912	2.416580882	Discusses and sug given to Pa


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Mrs.K.D.Mahajan

KCES's College of Engineering and Information Technology, Jalgaon

DEPARTMENT OF Electrical Engineering
B.Tech (Electrical Engineering) Sem-I/II/III/IV/V/VI/VII/VIII
PO-PSO Attainment

Sr. No	PO/PSO Number	Title	Expected Level of attainment	Related Courses/ Course codes	Average % of attainment of Cos of all related courses	Comparison between expected and actual attainment
1	PO1	Engineering knowledge	65	EME, EEM, EP-I, EP-II	49.11	15.89
2	PO2	Problem analysis	60	CS-I, EM-III, NA, NT, EM-I, EM-II	49.07	10.93
3	PO3	Design/development of solutions	70	PSDP, EMD, EIED, ED	62.06	7.94
4	PO4	Conduct investigations of complex problems	65	HVE, SGP, ADE	64.35	0.65
5	PO5	Modern tool usage	65	IDC, MP, MC, ADE, EE	54.87	10.13
6	PO6	The engineer and society	60	IOM, EM-II, EM-I, CEEM	54.32	5.68
7	PO7	Environment and sustainability	70	PS-II, PPE, EC-I, EC-II	53.43	16.57
8	PO8	Ethics	65	ERT, IOM	68.25	-3.25
9	PO9	Individual and team work	65	FPQ, ED, EMC-I	63.45	1.55
10	PO10	Communication	60	CP, IOM, ED	55.54	4.46
11	PO11	Project management and finance	65	PSS, PE, PS-I	62.01	2.99
12	PO12	Life-long learning	70	IEE, PSOC, EMC-II	63.71	6.29
13	PSO1	Pursue research in advanced areas of Electrical Engineering to offer ethical engineering services to the society.	70	IDC, HVE, IOM, ERT	69.61	0.39
14	PSO2	Demonstrate proficiency in use of software and hardware required to practices electrical profession	60	CS-I, ED, MP, MC, NA, EEE	54.28	5.72
15	PSO3	Operate and maintain electrical machines, switchgears, power electronics and electrical systems	65	EMC-I, EMC-II, PS-I, PS-II, SGP, PE	61.68	3.32

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Electrical Engg. Dept.

KCES's College of Engineering and Information Management, Jalgaon

DEPARTMENT OF BASIC SCIENCES FE (Electrical Engineering) Sem-II

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Proposed action
1	102111	(102111) Engineering Physics-II	60	59.375	26.7578125	71.8	45.55140625	14.44859375	} Guidelines
2	102112	(102112) Engineering Chemistry-II	60	56.875	58.0078125	75	61.06640625	-1.06640625	
3	102113	(102113) Engineering Mathematics-II	50	59.375	26.171875	73.5	45.5984375	4.4015625	
4	102114	(102114) Elements of Electrical & Electronics Engineering	55	51.25	27.1484375	73.6	43.66921875	11.33078125	
5	102115	(102115) Engineering Drawing and Elements of Mechanical	50	55	38.28125	72	50.040625	-0.040625	

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KCES's College of Engineering and Information Technology, Jalgaon

DEPARTMENT OF BASIC SCIENCES FE (Electrical Engineering) Sem-I

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% indirect tool	% attainment	Difference between expected attainment and actual attainment	Proposed action
1	101101	(101101) Engineering Physics-I	60	57.5	21.09375	73.6	42.516875	17.483125	Guideline
2	101102	(101102) Engineering Chemistry-I	60	60	23.4375	74.2	44.55875	15.44125	
3	101103	(101103) Engineering Mathematics-I	50	70	11.71875	73.8	41.619375	8.380625	
4	101104	(101104) Elements of Civil Engineering & Engineering Mechanics	50	62.5	17.96875	69.6	41.654375	8.345625	
5	101105	(101105) Computer Programming	60	38	35.9375	71.6	43.68875	16.31125	

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KCES's College of Engineering and Information Technology, Jalgaon
DEPARTMENT OF ELECTRICAL ENGINEERING
SE (Electrical Engineering) Sem-IV
CO Attainment (Academic Year 2016-2017)

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Proposed action
1	164111	(164111) Analog & Digital Electronics	65	59.72222222	60.9375	4.6	49.30541667	15.69458333	
2	164112	(164112) Network Analysis	60	65	50.26041667	4	45.43020833	14.56979167	
3	164113	(164113) Electrical Machine-I	65	67.22222222	59.59201389	4.4	50.84267361	14.15732639	
4	164114	(164114) Electrical Installation Estimation & P	65	53.61111111	69.18402778	4.2	51.51534722	13.48465278	
5	164115	(164115) Numerical Techniques	55	44.77777778	45.61631944	4.2	37.08149306	17.91850694	

*Guidelines given to
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KCES's College of Engineering and Information Technology, Jalgaon

DEPARTMENT OF ELECTRICAL ENGINEERING

S.E (Electrical Engineering) Sem-III

CO Attainment (Academic Year 2016-2017)

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Proposed action
1	163101	(163101) Engineering Mathematics-III	65	57.22222222	79.72222222	4.3333	57.89443778	7.105562222	
2	163102	(163102) Power Plant Engineering	55	65.27777778	41.40625	3.5555555	40.99756943	14.00243057	
3	163103	(163103) Electrical Measurement-I	60	56.52777778	53.29861111	3.4444444	44.29652777	15.70347223	Discussion
4	163104	(163104) Power System-I	70	63.05555556	66.75347222	3.333333	52.96006938	17.03993062	
5	163105	(163105) Electrical Engineering Material	65	56.80555556	65.19097222	4.1111111	50.459975	14.540625	

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KCES's College of Engineering and Information Technology, Jalgaon
DEPARTMENT OF ELECTRICAL ENGINEERING

TE -ELECTRICAL ENGINEERING Sem-V Academic Year 2016-17
CO Attainment

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% indirect tool	% attainment	Difference between expected attainment and actual attainment	Proposed action
1	165101	(165101) ELECTRICAL MACHINE-II	60	54.02777778	54.64409722	84.4	60.41038194	-0.410381944	
2	165102	(165102) POWER SYSTEM-II	60	58.75	64.10590278	87.2	67.11795139	-7.117951389	
3	165103	(165103) POWER ELECTRONICS	65	65.27777778	60.46006944	81.2	66.05336806	-1.053368056	
4	165104	(165104) ELECTROMAGNETIC ENGINEERING	70	50.55555556	52.43055556	82.8	57.94194444	12.05805556	
5	165105	(165105) INDUSTRIAL ORGANIZATION MANAGEMENT	65	49.11111111	66.53645833	75.6	63.1215625	1.8784375	

Criteria met given to teacher.

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KCES's College of Engineering and Information Technology, Jalgaon

DEPARTMENT OF ELECTRICAL ENGINEERING TE--ELECTRICAL ENGINEERING Sem-VI Academic Year 2016-17

Sr. No	Course Code	Course Name	CO Attainment				Difference between expected attainment and actual attainment	Proposed action	
			Expected Level of attainment of all Coa	% attainment using direct tool 1	% attainment using direct tool 2	% indirect tool			
1	166112	(166112) CONTROL SYSTEM-I	70	59.72323232	62.5	88.4	66.8466667	3.15333333	
2	166113	(166113) ELECTRICAL MEASUREMENT-II	65	68.47323232	59.8543936	88.8	68.37788194	-3.22788194	
3	166114	(166114) ELECTRICAL MACHINE DESIGN	68	62.22323232	68.2291667	91.6	71.10129	-6.10129	
4	166115	(166115) MICROPROCESSOR AND MICROCONTROLLER	70	53.69444444	43.26111111	88.8	53.6488889	14.33111111	
5	166116	(166116) ENTREPRENEURSHIP DEVELOPMENT	70	36.88888889	62.5	87.6	59.8766667	10.12333333	

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DEPARTMENT OF ELECTRICAL ENGINEERING

8.E (Electrical Engineering) Sem-VIII

CO Attainment (Academic Year 2016-2017)

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Proposed action
1	168112	(168112) Power System Stability	65	46.52777778	70.18229167	90	67.04947917	-2.049479167	
2	168113	(168113) Switchgear and Protection	70	65.55555556	71.39756944	86.8	72.72545139	-2.725451389	
3	168144	(168144) Power System Design Practice	70	61.94444444	77.98333333	92.4	75.605	-5.605	Discuss with
4	168151	(168151) Flexible AC Transmission System and Power Quality	75	64.58333333	85.11284722	88.8	79.69147361	-4.691423611	

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KCES's College of Engineering and Information Technology, Jalgaon

DEPARTMENT OF ELECTRICAL ENGINEERING

B.E (Electrical Engineering) Sem-VII

CO Attainment(Academic Year 2016-2017)


Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% indirect tool	% attainment	Difference between expected attainment and actual attainment	Proposed action
1	167101	(167101) Industrial Drives and control	65	61.94444444	78.42881944	65.6	70.91774306	-5.91774306	
2	167102	(167102) High Voltage Engineering	70	64.58333333	77.08333333	65.6	71.03666667	-1.03666667	
3	167141	(167141) Industrial Electrical Engineering	70	65.55555556	71.39756944	66.6	68.68945139	1.314548611	DISCUS WITH TEACHERS
4	167105	(167105) Power System Operation and Control	65	46.52777778	70.18229167	65	62.04947917	2.950520833	
5	127132	(127132) Energy Resources and Technology	70	62.11111111	85.11284722	61	73.38975694	-3.38975694	

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KCES's College of Engineering and I.T., Jalgaon

DEPARTMENT OF ELECTRICAL ENGINEERING ME(Electrical Power System) (Academic Year 2016-2017)

Sr. No	PO/PSO Number	Title	Expected Level of attainment	Related Courses/ Course codes	Average % of attainment of Cos of all related courses	Comparison between expected and actual attainment
1	PO1	Engineering knowledge	60	PSPR,PSMC	60.96	-0.96
2	PO2	Problem analysis	65	CMPS	48.87	16.13
3	PO3	Design/development of solutions	65	FPQ	65.33	-0.33
4	PO4	Conduct investigations of complex problems	70	CMPS	48.87	21.13
5	PO5	Modern tool usage	60	DSP,FPQ	55.81	4.19
6	PO6	The engineer and society	60	HVPT	68.17	-8.17
7	PO7	Environment and sustainability	65	PSPR	63.17	1.83
8	PO8	Ethics	65	CMPS	48.87	16.13
9	PO9	Individual and team work	70	HVPT	68.17	1.83
10	PO10	Communication	60	MPMC	52.9	7.1
11	PO11	Project management and finance	65	CMPS	48.87	16.13
12	PO12	Life-long learning	65	PSQ,FPQ	61.06	3.94
13	PSO1	Pursue research in advanced areas of Electrical Engineering to offer ethical engineering services to the society.	60	FPQ,CMPS	57.1	2.9
14	PSO2	Demonstrate proficiency in use of software and hardware required to practice electrical profession	60	CMPS,MPMC	50.88	9.12
15	PSO3	Operate and maintain electrical machines, switchgears, power electronics and electrical systems	60	PSMC,PSPR, PSD	61.66	-1.66


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DEPARTMENT OF ELECTRICAL ENGINEERING

ME(Electrical Power System) Sem-I

CO Attainment (Academic Year 2016-2017)

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Proposed action
1	1010	(1010) Power System Optimization	65	0	26.92307692	86.666	55.79453846	8.205461538	Discussion with fac
2	1020	(1020) Microprocessor And Controller	55	0	19.15384615	86.666	52.90992308	2.090076923	
3	1030	(1030) Power system planning and Reliability	60	0	39.69230769	86.666	63.17915385	-3.179153846	
4	1040	(1040) Power System Dynamics	70	0	39.46153846	86.666	63.06376923	6.936230769	
5	1051	(1051) FACT'S And Power Quality	65	0	44	86.666	65.333	-0.333	

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KCES's College of Engineering and Information Technology, Jalgaon

DEPARTMENT OF ELECTRICAL ENGINEERING

ME(Electrical Power System) Sem-II

CO Attainment (Academic Year 2016-2017)

Sr. No	Course Code	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Proposed action
1	1080	(1080) COMPUTER METHODS POWER SYSTEM	65	0	11.07692308	86.666	48.87146154	16.12853846	
2	1090	(1090) DIGITAL SIGNAL PROCESSING	55	0	5.923076923	86.666	46.29453846	8.705461538	
3	1100	(1100) POWER SYSTEM MODELING & CONTR	60	0	30.84615385	86.666	58.75607692	1.243923077	
4	1110	(1110) HIGH VOLTAGE POWER TRANSMISSIO	70	0	49.69230769	86.666	68.17915385	1.820846154	
5	1122	(1122) POWER ELECTRONICS APPLICATION IN	65	0	45.76923077	86.666	66.21761538	-1.217615385	

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Give suggestions to

KCES's College of Engineering and IT, Jalgaon

DEPARTMENT OF MECHANICAL ENGINEERING

S.E (Mechanical Engineering) Sem-III 2016-17

Sr. No	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% Indirect tool	% attainment	Difference between expected attainment and actual attainment	Proposed action
1	Fluid Mechanics	60	79.86111111	39.50892857	67.6	57.23279762	2.767202381	} Discuss and given to Faculty
2	Engineering Thermodynamics	55	60.24305556	28.95507813	73	47.15045573	7.849544271	
3	Strength of Materials	60	65.97222222	33.97177419	67	50.17755376	9.822446237	
4	Material science and Metallurgy	60	67.88194444	49.8046875	77.6	60.78692708	-0.786927083	
5	Manufacturing Engineering-I	55	55	48.10606061	72	54.9530303	0.046969697	


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KCES's College of Engineering and IT, Jalgaon

DEPARTMENT OF MECHANICAL ENGINEERING S.E (Mechanical Engineering) 2016-17 Sem-IV

Sr. No	Course Name	Expected Level of attainment of all Cos	% attainment using direct tool 1	% attainment using direct tool 2	% indirect tool	% attainment	Difference between expected attainment and actual attainment	Proposed action
1	Engineering Mathematics-III	60	50	20.57291667	67.6	38.80645833	21.19354167	
2	Theory Of Machines-I	55	53.97058824	44.00201613	73	52.79218454	2.207815465	
3	Applied Thermodynamics	60	34.85294118	39.16015625	67	43.43596048	16.56403952	Discuss and sug
4	Basic Electrical Drives & Controls	60	49.26470588	53.88104839	77.6	57.23993596	2.760064042	given to Pa
5	Manufacturing Engineering-II	55	45.64705882	46.92382813	72	51.55603171	3.44396829	


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