

ADDENDUM

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Self Study Report (SSR)

Submitted to
**National Assessment and Accreditation Council,
Bangalore**



Karmaveer Kakasaheb Wagh Education Society's

**K. K. WAGH INSTITUTE OF
ENGINEERING EDUCATION AND RESEARCH, NASHIK**

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PROFILE OF THE INSTITUTE

12. Details of programmes offered by the college (Data for current academic year 2017-18) (Page No. 4)

Sr. No.	Programme Level	Name of the Programme / Course	Duration	Entry Qualification	Medium of instruction	Sanctioned / approved Student strength	No. of students admitted
01	Under-Graduate	Computer Engineering	4 years	H.S.C. Science (50% for Open Category & 45% for Reserved Category)	English	120	127
02		Electronics & Telecom. Engineering				60	59
03		Production Engineering				60	48
04		Civil Engineering (I st & II nd Shift)				60+60	62+59
05		Mechanical Engineering (I st & II nd Shift)				120+60	126+60
06		Electrical Engineering (I st & II nd Shift)				60+60	63+56
07		Chemical Engineering				60	60
08		Information Technology				60	64
09		Electronics Engineering (II Shift)				60	50
10	Post – Graduate	Production Engineering (Manufacturing & Automation)	2 years	Bachelor of Engineering in relevant branch	English	18	01
11		Electrical Engineering (Control System)				18	00
12		Civil Engineering (Structures)				18	18
13		Electrical Engineering (Power System)				18	05
14		Computer Engineering				18	11
15		Electronics & Telecommunication (VLSI & Embedded Systems)				18	10
16		M.C.A.	3 years	BCA/BCS/BSc/BCom	English	60	58
17	M.B.A.	2 years	Any Graduation	English	60	60	
18	Ph.D.	Production Engineering	3 years	Master of Engineering in relevant branch.	English	-	-
19		Electrical Engineering				-	-
20		Civil Engineering				-	-
21		Computer Engineering				-	-

20. Number of teaching and non-teaching positions in the Institution (Page No.6)

Positions	Teaching faculty						Non – teaching staff		Technical Staff	
	Professor		Associate Professor		Assistant Professor		M	F	M	F
	M	F	M	F	M	F				
Sanctioned by the UGC / University / State Government	15	03	08	06	70	56	NA	NA	NA	NA
<i>Recruited</i>										
<i>Yet to recruit</i>	-	-	-	-	-	-	-	-	-	-
Sanctioned by the Management / society or other authorized bodies	03	00	04	01	37	42	121	17	65	30
<i>Recruited</i>										
<i>Yet to recruit</i>	-	-	-	-	-	-	-	-	-	-

21. Qualifications of the teaching staff (Page No. 6)

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent Teachers							
D.Sc. / D.Litt.	--	--	--	--	--	--	--
Ph.D.	15	03	04	04	00	01	27
M.Phil.	--	--	--	01	--	--	01
PG	03	00	08	02	69	55	137
Temporary Teachers							
Ph.D.	--	--	--	--	--	--	--
M. Phil	--	--	--	--	--	--	--
PG	--	--	--	--	32	41	73
Part-time teachers							
Ph.D.	02	--	--	--	--	--	02
M.Phil	--	--	--	--	--	--	--
P.G.	--	--	--	--	03	03	06

CRITERIA I : CURRICULAR ASPECTS

1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If ‘yes’, give details on the process (‘Needs Assessment’, design, development and planning) and the courses for which the curriculum has been developed? (Page No. 13)

- A course on “KPIT - ORACLE PACE” is offered in collaboration with KPIT, Pune with the objective of enhancement of knowledge of the final year students from Computer Engineering and Information Technology selected during campus recruitment.

- Course details for Information Technology & Computer Engineering

Course Title	KPIT - ORACLE PACE			
Class	BE-VIII Semester			
Course code	PACE001/2015			
Year wise enrollment of students	2016-2017	2015-2016	2014-2015	2013-2014
	21	28	31	58
Total contact Hrs	76 Hrs			
Prerequisites	DBMS Basics			

Unit	Title	No. of Hrs.
1.	Overview of Oracle Product Suite	12
2.	RDBMS	08
3.	SQL and PLSQL	36
4.	Core Java	16
5.	Functional Overview	04

1.2.1 Specifying the goals and objectives give details of the certificate/diploma/skill development courses etc., offered by the institution. (Page No. 14)

Department	Name of Course offered	Duration of Course	Goals of Course	Objectives of Course
Academic Year :- 2017-2018				
Civil Engg.	Staad Pro (UG)	1 Month	To acquaint the students to the software for the analysis and design of structures.	<ol style="list-style-type: none"> 1. To understand the analysis of the structure subjected to dead load, live load, wind load and earthquake forces by using Finite element method. 2. To design different members of RCC & steel structures subjected to different load combinations.

1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum? (Page No. 18)

The institute is recognized as a remote center for conduction of ICT based workshops by IIT Mumbai and Kharagpur, funded by MHRD. Following table gives details of various workshops organized in Academic Year 2017-18.

Department	Name of the course	No. of participants	Targeted Faculty	Resource Persons	Duration
Electrical Engg.	Electric Power System	22	Electrical Engg.	Prof. N.K.Kishore Prof. S.A.Soman Prof. Bandopadyay	2 Week
Institute Level	Foundation Program in ICT for Education	99	All Programs	Prof. D.B.Phatak Prof. K. Moudagyala Prof.P.Sunthar	4 Week (Online)
Institute Level	Pedagogy for Online & Blended teaching learning process	93	All Programs	Prof. D.B.Phatak Prof.Sridhar Iyer Prof. Sahana Murthy Prof. M. Jayakrishnan	4 Week (Online)

CRITERIA II : TEACHING LEARNING AND EVALUATION

2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district. (Page No. 23)

Following table shows minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college in Academic Year 2017-18.

UG Programme	CET/ Composite Score of admitted students for UG Programmes	
	Min	Max
Chemical Engg.	38	118
Civil Engg.	70	148
Civil Engg. (2 nd Shift)	60	104
Computer Engg.	46	170
Electrical Engg.	50	137
Electrical Engg. (2 nd Shift)	41	102
Electronics Engg.(2 nd Shift)	46	88
E & TC Engg.	16	109
IT	44	127
Mechanical Engg.	26	141
Mechanical Engg.(2 nd Shift)	59	111
Production Engg.	36	98

PG Programme	GATE/CET Score of admitted students for PG Programmes	
	Min	Max
Civil Engg.	9.79	24.28
Computer Engg.	0	34
Electrical Engg. (Power System)	3.62	9.89
Electrical Engg. (Control System)	-	-
E&TC Engg.	1.89	8.04
Production Engg.	15	15
M.B.A	33	69
M.C.A	01	124

2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion.

SC/ST, OBC, Women, Differently-abled, Economically weaker sections, Minority community and any other. (Page No. 26)

Following table shows number of students admitted under various categories in different programmes for current Academic Year.

	Academic Year	No. of students under various categories							TOTAL
		SC	ST	NT1/NT2/NT3	OBC	SBC	VJ	OPEN	
UG	2017-18	74	35	60	226	08	13	384	800
PG	2017-18	20	11	10	36	03	0	83	163
PhD	2017-18	-	-	-	-	-	-	-	-

- **Women, TFWS and Economically weaker students:**

- Following table shows number of boys and girls admitted in different programmes for current Academic Year.

	Academic Year	No. of students		
		Boys	Girls	Total
UG	2017-18	578	256	834
PG	2017-18	80	83	163
PhD	2017-18	-	-	-

- Following table shows number of students admitted under various categories in different programmes for current Academic Year.

	Academic Year	No. of students admitted under various categories		
		TFWS	J&K	Physically Handicapped
UG	2017-18	30	4	0
PG	2017-18	0	0	0

2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends. i.e. Reasons for increase / decrease and actions initiated for improvement. (Page No. 28)

Following table shows number of students admitted in different programmes against sanctioned intake for current Academic Year.

Programme	Sanctioned Intake	Number of students admitted
UG Programmes		
Chemical Engg.	60	60
Civil Engg.	60	62
Civil Engg.(2 nd Shift)	60	59
Computer Engg.	120	127
Electrical Engg.	60	63
Electrical Engg.(2 nd Shift)	60	56
Electronics Engg.(2 nd Shift)	60	50
E & T C Engg.	60	59
I.T.	60	64
Mechanical Engg.	120	126
Mechanical Engg.(2 nd Shift)	60	60
Production Engg.	60	48
PG Programmes		
Civil Engg.	18	18
Computer Engg.	18	11
Electrical Engg. (Power System)	18	05
Electrical Engg. (Control System)	18	00
E & TC Engg.	18	10
Production Engg.	18	01
MCA	60	58
MBA	60	60

The intake for PhD programme is as per the vacancies declared by the associated guides in respective academic year.

2.2 Catering to Student Diversity

2.2.2 Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the programme? If 'yes', give details on the process. (Page No. 32)

- Orientation Programme at institute level is conducted for the students admitted in first year.

Sr. No.	Academic Year	Total no. of students who have attended Orientation programme		
		FE	FYMBA	FYMCA
1	2017-18	600	73	31

2.2.3 What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/Add-on/Enrichment Courses, etc.) to enable them to cope with the programme of their choice? (Page No. 32)

- Following table shows number of industrial visits organized, number of industries involved in training and number of expert talks arranged for Academic Year 2016-17.

Sr. No.	Dept.	Academic Year	No. of Industrial Visits	No. of Industries involved in training	No. of Expert Talks
1	Chemical Engg.	2016-17	13	58	23
2	Civil Engg.	2016-17	36	10	18
3	Computer Engg.	2016-17	3	25	16
4	Electrical Engg.	2016-17	22	28	17
	Electrical Engg. (2nd Shift)	2016-17	22	43	19
	Electrical PG (Control / Power System)	2016-17	0	0	2
5	Electronics Engg.	2016-17	9	8	23
	E & TC Engg.	2016-17	8	3	30
	E & TC Engg. (PG)	2016-17	0	0	09
6	IT	2016-17	1	0	19
7	Mechanical Engg.	2016-17	19	8	13
8	Production Engg.	2016-17	12	0	23

9	MCA	2016-17	3	0	20
10	MBA	2016-17	1	40	15
11	Applied Sci. & Maths	2016-17	0	0	6

Following table shows the details of technical symposiums organized by the departments during Academic Year 2016-17.

Sr. No.	Dept.	Academic Year	Name of the Event	Event Date	Number of Participants
1	Chemical Engg.	2016-17	CHEMFEST-2K17	20,21-Mar-17	385
2	Civil Engg.	2016-17	FORCE 2017	20,21-Mar-17	581
3	Computer Engg.	2016-17	Equinox 2017	19-21-Mar-17	520
4	Electrical Engg.	2016-17	Karmaveer Expo 2017	21,22-Mar-17	279
5	E & TC Engg.	2016-17	Telekinesis 2k17	18,19-Mar-17	1400
6	IT	2016-17	ITiazza'17	20,21-Mar-17	510
7	Mechanical Engg.	2016-17	Mecheaven	21,22-Mar-17	377
8	Production	2016-17	ECLAT Invasion	18,19-Mar-17	173
9	MCA	2016-17	ASCEND 2K17	1,2-Feb-17	676
10	MBA	2016-17	MAVERICK	28-Feb-17	193

Following table shows the details of conferences organized by the departments (Additional data for Academic Year 2016-17)

Sr. No	Dept.	Academic Year	Name of the Conference	Date	Number of Participants
1	Electrical Engg.	2016-17	National Level Technical Paper Presentation Competition Power System Renewable Energy Systems	21,22-Mar-17	33

Following table shows the details of workshops organized by the departments (Additional data for Academic Year 2016-17).

Dept.	Academic Year	Name of the Workshop	Date	Number of Participants
MCA	2016-17	Workshop on "Web development using PHP & MySQL"	13-Feb to 17-Mar-17	26
		Workshop on "IBM Watson Internet of things"	9-Feb-17	57
		Workshop on "Employability Enhancement"	16-Mar-17	30

2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)? (Page No. 41)

- Following table shows the number of mentoring sessions conducted by the departments.

Sr. No.	Department	No. of Mentoring Sessions conducted			
		2016-17	2015-16	2014-15	2013-14
1	Chemical Engg.	32	32	32	0
2	Civil Engg.	44	13	19	13
3	Computer Engg.	8	9	9	0
4	Electrical Engg.	49	40	49	33
5	E & TC Engg.	75	62	46	10
6	IT	37	41	38	6
7	Mechanical Engg.	40	80	65	61
8	Production Engg.	49	15	6	2
9	MCA	18	13	15	7
10	MBA	8	10	17	0

2.3 Teaching-Learning Process

2.3.2 How does IQAC contribute to improve the teaching –learning process? (Page No. 45)

- Following table shows the details of lecture observations.

Name of Department	No. of lectures observed			
	2016-17	2015-16	2014-15	2013-14
Chemical Engg.	1	0	4	4
Civil Engg.	4	1	5	3
Computer Engg.	14	3	3	4
Electrical Engg.	4	0	0	0
E &TC Engg.	3	4	11	0
IT	2	0	16	12
Mechanical Engg.	25	26	25	17
Production Engg.	3	3	0	0
MCA	5	2	4	0
MBA	3	0	0	0
Applied Sci. & Maths	3	0	0	0

Following table shows participation and achievements of students in various activities (Additional data for Academic Year 2016-17).

Name of Department	Academic Year	Name of Activity	No. of Participations	Prize (if any)
Chemical Engg.	2016-17	Civil Project Exhibition	3	
		Prototype Exhibition	1	One 1 st Prize
		Inno-Model	15	One 1 st Prize
		Model Making	5	
		Essay Competition	1	
		ICON Lecture & Leadership	1	
		Debate Competition	1	
		B-Quiz	3	Two 1 st Prizes
Computer Engg.	2016-17	Project Competition	3	
		Quiz	16	Two 1 st Prizes
Civil Engg.	2016-17	Model Making	2	1 st Prize & 2 nd Prize
	2016-17	Poster Competition	1	1 st Prize
Electrical Engg.	2016-17	Project Competition	66	2 nd Prize
		Paper Presentation	26	2 nd & 3 rd Prize
E & TC	2016-17	Project Competition	5	Two 1 st Prize

Engg.				One 2 nd Prize
		Circuit building	20	1 st & 2 nd Prize
		C Programming	14	
		Poster Presentation	6	
		Quiz	4	
		Robocon	4	
		KPIT Sparkle Contest	1	
		Recruitment Spark	5	
IT	2016-17	Project Competition	102	One 1 st Prize Three 3 rd Prizes
		Quiz Competition	3	2 nd Prize

2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning-resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc. (Page No. 48,49)

- Following table shows the details of courses conducted through NME-ICT during Academic Year 2017-18.

Dept.	Name of the course	Funds utilised from MHRD	Targeted Faculty (Participation)	Organized by	Duration
Electrical Engg.	Electric Power System	75,662	Electrical Engg.(22)	IIT Kharagpur	10/7/17 to 15/7/17
Institute Level	Foundation Program in ICT for Education	99,000	All Programs (99)	IIT Bombay	3/8/17 to 20/8/17
Institute Level	Pedagogy for Online & Blended teaching learning process		All Programs(93)	IIT Bombay	14/9/17 to 12/10/17

2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum. (Page No. 53)

(Latest Faculty Position of the Institute)

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent Teachers							
Ph.D.	15(10)	3(3)	4(3)	4(3)	0	1(1)	27
M.Phil.	0	0	0	1	0	0	1
PG	3	0	8	2	69	55	137
Temporary Teachers							
Ph.D.	0	0	0	0	0	1	1
M.Phil.	0	0	0	0	0	0	0
PG	0	0	0	0	32	41	73
Part-time Teachers (Including Visiting Faculty)							
Ph.D.	2	0	0	0	0	0	2
M.Phil.	0	0	0	0	0	0	0
PG	0	0	0	0	3	3	6

2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality. (Page No. 54)

a) Nomination to staff development programmes:

Staff Development Programmes	Number of staff members nominated
	2016-17
Refresher courses	8
HRD Programmes	1
Orientation Programmes	10
Staff training conducted by the university	49
Staff training conducted by other institutions	11
Summer / winter schools, workshops, etc.	35
One/Two week STTP	19
Total	133

c) Faculty invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies (Additional data for Academic Year 2016-17)

Dept.	Academic Year	Name of Faculty	Role in Workshops / Seminars / Conferences
Civil Engg.	2016-17	Dr. S.Y.Kute	Guest lecture at S.M Autostamping Pvt.Ltd.
			Guest lecture on 'From Waste to Profit through Reduce, Recycle, Reuse' at H.A.L. Ojher
			Guest of Convocation Function, Art & Commerce College, Nashik Road.
		Dr. A.L.Varne	Expert Lecture on 'Rural Road Inspection, MRRDA, Thane
Computer Engg.	2016-17	N. M. Shahane	Resource Person at State level Workshop on 'Role of Mathematics in Computers', KSKW Arts, Sci. & Comm, Nasik
		N. M. Shahane	Resource Person at Workshop on Soft Computing: Applications in Engg., KKWIEER, Nasik
		S.K.Gondhalekar & S.T.Patil	Expert Talk on Cyber Security at BYK College, Nashik
Production Engg.	2016-17	Dr.P.J.Pawar	Expert lecture at GCOE, Aurangabad
MCA	2016-17	Dr. V. C. Bagal	Guest Lecture at CMCS College, Nashik
	2016-17	Dr. V. C. Bagal	Guest Lecture at VPM's Arts, Science & Commerce College, Lasalgaon

- Faculty participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies:-

Sr. No.	Department	No. of faculty participating in Workshops / Seminars			
		2016-17	2015-16	2014-15	2013-14
1	Chemical Engg.	4	6	2	4
2	Civil Engg.	6	4	9	14
3	Computer Engg.	13	8	10	5
4	Electrical Engg.	17	15	4	8
5	E & TC Engg.	26	17	18	16
6	IT	2	14	13	07
7	Mechanical Engg.	8	2	11	16
8	Production Engg.	11	10	3	13
9	MCA	6	6	4	4
11	MBA	2	1	2	3
10	Applied Sci. & Maths	5	5	0	5
	Total	100	88	76	95

- Presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies

Sr. No.	Department	No. of faculty presented papers in Conferences			
		2016-17	2015-16	2014-15	2013-14
1	Chemical Engg.	0	2	4	5
2	Civil Engg.	2	4	1	5
3	Computer Engg.	0	0	5	6
4	Electrical Engg.	11	8	6	11
5	E &TC Engg.	3	3	3	8
6	IT	4	8	8	5
7	Mechanical Engg.	1	2	2	2
8	Production Engg.	13	0	0	0
9	MCA	0	1	1	3
10	MBA	0	0	1	2
11	Applied Sci. & Maths	2	2	1	1
	Total	36	30	32	48

2.4.4 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes industrial engagement etc.) (Page No. 62,63)

Following table shows the amount received from the institute by the faculty for attending workshops, seminars and conferences. (Additional data for Academic Year 2016-17)

Department	Academic Year	No. of faculty	Amount received from the institute
Chemical Engg.	2016-17	02	10,690
Civil Engg.	2016-17	02	3,719
Computer Engg.	2016-17	04	3,738
Electrical Engg.	2016-17	02	9,560
E&TC Engg.	2016-17	14	31,614
IT	2016-17	02	1,820
Mechanical Engg.	2016-17	14	15,722
Production Engg.	2016-17	04	5,476
MCA	2016-17	05	2,066
MBA	2016-17	01	340

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the students results/achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered. (Page No. 69,70)

- Following tables show percentage of **all clear** students for last four years.

Name of Programme	Percentage of All clear students (First Year)				
	2016-17	2015-16	2014-15	2013-14	2012-13
First Year Engg.	47.95	26.85	53.79	61.28	60.47
MCA	87.50	72.22	66.66	75.67	46.55
MBA	48.84	45.45	70.21	71.43	68.85

Name of Programme	Percentage of All clear students (Second Year)				
	2016-17	2015-16	2014-15	2013-14	2012-13
Chemical Engg.	23.37	47.29	78.94	74.66	45.94
Civil Engg.	54.91	71.62	76.06	65.79	51.28
Computer Engg.	69.59	70.59	68.42	68.83	51.32
Electrical Engg.	43.93	58.45	68.46	71.43	54.55
Electronics Engg.	47.89	45.07	50.00	60.56	51.95
E & TC Engg.	70.27	64.00	84.00	86.67	68.83
IT	56.58	52.70	62.67	40.79	35.14
Mechanical Engg.	50.28	63.39	66.22	57.53	52.63
Production Engg.	47.14	65.33	65.27	48.78	31.50
MCA	78.43	91.66	64.28	63.24	61.11
MBA	75.92	91.30	94.44	86.67	94.74

Name of Programme	Percentage of All clear students (Third Year)				
	2016-17	2015-16	2014-15	2013-14	2012-13
Chemical Engg.	63.33	61.72	72.60	65.21	52.38
Civil Engg.	68.87	49.37	49.33	64.21	66.67
Computer Engg.	71.72	52.29	73.20	57.96	61.15
Electrical Engg.	74.70	47.77	63.52	71.43	78.26
Electronics Engg.	72.31	65.67	58.67	57.30	83.78
E & TC Engg.	76.47	58.90	73.81	45.45	72.73
IT	50.00	54.65	52.11	63.29	61.11
Mechanical Engg.	64.39	50.20	72.99	55.20	49.75
Production Engg.	63.23	43.83	52.80	37.87	50.74
MCA	93.33	94.11	94.20	94.23	94.23

Name of Programme	Percentage of All clear students (Final Year)				
	2016-17	2015-16	2014-15	2013-14	2012-13
Chemical Engg.	94.87	95.18	94.44	89.02	92.45
Civil Engg.	93.04	72.22	97.33	90.91	89.06
Computer Engg.	98.64	93.41	96.05	88.72	94.44
Electrical Engg.	95.77	95.45	99.25	100.00	94.52
Electronics Engg.	96.77	92.50	98.77	100.00	NA
E & TC Engg.	93.51	88.66	93.06	94.20	95.08
IT	96.51	86.11	100.00	98.73	85.94
Mechanical Engg.	75.33	68.05	96.48	93.14	87.05
Production Engg.	82.66	86.20	88.06	86.81	78.46

Name of Programme	Percentage of All clear students (PG)				
	2016-17	2015-16	2014-15	2013-14	2012-13
Civil Engg. (FY)	72.22	100	94.40	83.30	38.90
Civil Engg. (SY)	--	100	88.89	76.47	82.35
Computer Engg. (FY)	88.89	94.12	100	76.47	88.89
Computer Engg. (SY)	--	61.11	88.24	70.59	50.00
Electrical Engg. (FY- PS)	50.00	86.67	94.44	94.11	55.55
Electrical Engg. (SY- PS)	--	47.06	0	0	0
Electrical Engg. (FY- CS)	83.33	91.66	83.33	100	16.67
Electrical Engg. (SY- CS)	--	40.00	33.33	5.55	11.76
E & TC Engg.(FY)	100	69.23	88.24	83.33	52.94
E & TC Engg.(SY)	--	88.24	83.33	47.06	44.44
Production Engg. (FY)	0	100	44.44	0	0
Production Engg. (SY)	0	40.00	0	0	22.22

Following table shows the list of University rank holders for last five years.

Sr.No.	Dept.	Academic Year	Class	University Rank	Name of Student	Percentage of marks
1	Chemical Engg.	2015-16	B.E.	5 th	Merchant Murtuza	80.66
		2014-15	B.E.	1 st	Mohammad Akhtar	80.73
		2014-15	B.E.	8 th	Khusali Sehgal	78.00
		2014-15	B.E.	9 th	Nikhil Kawade	77.87
		2013-14	T.E.	2 nd	Mohammad Akhtar	74.07
		2013-14	T.E.	3 rd	Nikhil Kawade	73.73
		2013-14	S.E.	2 nd	Merchant Murtuza	79.33
		2013-14	S.E.	8 th	Sumeet Thengane	75.46
		2013-14	B.E.	5 th	Nikita Bhosale	76.93
		2013-14	B.E.	7 th	Govind Dhande	76.60
		2012-13	T.E.	10 th	Nikita Bhosale	68.03
		2012-13	B.E.	9 th	Nachiket Karandikar	74.93

2	Civil Engg.	2014-15	B.E.	1 st	Amit Chhawsaria	80.67
		2014-15	B.E.	8 th	Mangalkumar Chaudhari	79.07
		2013-14	B.E.	7 th	Rohini Sanap	80.33
3	Computer Engg.	2014-15	B.E.	10 th	Vishakha Patil	77.00
		2013-14	S.E.	4 th	Himani Karhade	80.73
		2011-12	B.E.	2 nd	Anisha Lamba	77.93
4	Electrical Engg.	2015-16	B.E.	1 st	Abhishek Lokhande	84.73
		2015-16	B.E.	9 th	Sarthak Chinchkotkar	81.00
		2015-16	B.E.	10 th	Anuja Potdar	80.40
		2015-16	B.E.	10 th	Prachi Sonawane	80.40
		2013-14	B.E.	4 th	Sandesh More	78.87
		2013-14	S.E.	7 th	Kanchan Sangle	76.07
		2013-14	S.E.	10 th	Anuja Potdar	74.47
		2013-14	T.E.	4 th	Anuja Jadhav	73.6
		2011-12	B.E.	1 st	Pooja Aaradhi	82.0
		2011-12	B.E.	4 th	Apoorva Vaidya	79.09
5	Electronics Engg.	2015-16	B.E.	8 th	Sujata Patil	77.53
				10 th	Pramod Gaikwad	77.06
		2014-15	T.E.	1 st	Pramod Gaikwad	78.07
		2014-15	T.E.	2 nd	Sujata Patil	74.8
		2014-15	T.E.	5 th	Nikita Navkar	73.93
		2014-15	T.E.	8 th	Dalinderjit Multani	72.00
6	E&TC Engg.	2013-14	S.E.	5 th	Surabhi Jalori	85.07
		2014-15	T.E.	2 nd	Surabhi Jalori	81.33
		2012-13	T.E.	7 th	Tanvi Sonawane	73.76
7	IT	2011-12	B.E.	2 nd	Rupali Chaudhari	79.27
8	Mechanical Engg.	2013-14	T.E.	3 rd	Neel Kedia	77.8

CRITERIA III: RESEARCH, CONSULTANCY AND EXTENSION

3.1 Promotion of Research

3.1.1 Does the institution have recognized research center/s of the affiliating University or any other agency/organization? (Page No. 76)

Yes, the institute has recognized Research centre for four departments affiliated to Savitribai Phule Pune University, Pune. Following table shows the Research centre information.

Sr. No.	Name of Department	Name of guide	Registered candidates	PhD completed candidates
1	Production Engineering	Dr. K. N. Nandurkar	02	03
		Dr. P. J. Pawar	06	--
		Dr. P. C. Kulkarni (R.H.Sapat COE, Nashik)	03	--
2	Electrical Engineering	Dr. B. E. Kushare	06	03
3	Civil Engineering	Dr. S.Y. Kute	01	05
		Dr. P. D. Jadhao	04	--
4	Computer Engineering	Dr. S. S. Sane	05	--
		Dr. M.U.Kharat (MET COE, Nashik)	01	--

3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.) (Page No. 77)

The faculty is actively involved in research in various ways. The institute has six PhD guides recognized by SPPU, Pune. So far 11 research scholars have completed PhD and 28 are pursuing PhD under their guidance.

During last six years, 31 faculty members of the institute have completed their PhD. Currently 24 faculty members are pursuing PhD at different institutes.

Currently 22 faculty members are pursuing research under BCUD grants received from SPPU, Pune. Faculty members are also involved in guiding UG and PG projects, many of which are industry sponsored and research projects.

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization. (Page No. 85)

Following Table shows the amount allocated & actual utilization on research and development activities for the year 2016-17.

Particulars	Budgeted Amount 2016-17	Actual Expenses 2016-17
Non-Recurring Budget	2,99,32,500	2,36,98,924
Recurring Budget	2,01,63,077	2,22,04,073
Research & Development & Project Exp.	38,00,000	26,05,674
Total Budget	5,38,95,577	4,85,08,671
Percentage of R & D Budget	7.05%	5.37%

3.2.3 What are the financial provisions made available to support student research projects by students? (Page No. 86)

Following table shows the amount received from the institute for final year student projects during Academic Year 2016-17.

Name of Department	Academic Year	Title of Project	Amount Received from Institute (Rs.)
Civil Engg.	2016-17	Effect of shape of opening and percentage of steel fibers on the structural behaviour of deep beam	2,500
		Design and Analysis of EPS Embedded Slab	3,000
		Experimental investigation of a new concrete composite beam with CFRP as shear reinforcement.	3,000
		Effect of size and location of opening on the structural strength of deep beam with opening.	2,500
		Behaviour of Concrete Filled Steel Column.	4,000
		Ultra high performance fiber reinforced concrete	3,000
		Study of effects of various methods of curing on compressive strength of concrete	3,000
		Production of Green Concrete using Ceramic Waste as replacement for Fine Aggregate	2,000
		Investigating the application of waste plastic Bottles as a construction Material	3,000
		Flexural behaviour of hollow reinforced concrete beam with steel fibres	3,000

		Flexural performance of Concrete Beam with aluminium alloy bar	3,000
		Development of Ferrocement using Artificial Stand	2,000
		Behaviour of different shapes of columns	3,000
		Partial replacement of cement by marble powder	2,000
IT	2016-17	A Smart Web-based System for Verification of Vehicle Registration	1,289
		People Counting System for Smart Energy Consumption and Mob Management	2,299
		Native Language Printing using Bluetooth Printer	6,277
		Mobile Application for Monitoring and Controlling the Power Factors of an Electric Panel	1,000
Mechanical	2016-17	Gear box and knuckle joint design for BAJA	3,20,000
		Effi cycle -2016 and GOKART	80,000
	2015-16	NKRC design and manufacturing of GOKART	75,000
		Design of BAJA vehicle	2,20,000
Production Engg.	2016-17	Development of digital test rig for measuring performance of parameters of hydraulic pumps	18,550

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years. (Page No. 89)

Following table shows BCUD research projects completed in Academic Year 2016-17.

Dept.	Academic Year	Title of Project	Amount Sanctioned (Rs.)	Name of PI	Status
Electrical Engg.	2014-15	Development of novel algorithm for failure probability analysis of sensitive equipment due to short duration RMS voltage variations for various characteristics of voltage sag.	1, 50,000	S. M. Akolkar	Completed
		On-line power quality disturbances detection, characterization and classification using wavelet transform	1,50,000	Dr. R.K. Munje	Completed
IT	2014-15	Electrical Modeling of Photonic Crystal Resonant Cavities	2,40,000	Dr. P. D. Bhamre	Completed

		Wireless Sensor Network for Greenhouse Environment Monitoring	80,000	R. M. Bora	Completed
Mechanical Engg.	2014-15	Harvesting of Algal Biodiesel (ABD) from Local Algae Species and Testing the Suitability of ABD as a fuel in Diesel Engines	2,00,000	S.S. Kale {Co-PI : S.N.Derle, Chemical Engg.}	Completed
Applied Sci. & Maths	2014-15	Synthesis, characterization and analysis of tin sulphide and solenoid thin film in special reference to develop efficient and economically desirable photovoltaic film	1,40,000	S.S. Joshi	Completed
		Synthesis and selective recognition of cationic or anionic complexes of quinoline derivatives and study of its photo physical properties	1,90,000	D.Y. Patil	Completed

3.3 Research Facilities

3.3.1 What are the research facilities available to the students and research scholars within the campus? (Page No. 91)

The Institute has procured MATLAB and SIMULINK Campus License (TAH) with 50 toolboxes for unlimited users costing Rs.15,87,000.

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the staff and students in terms of (Page No. 95)

- **Patents obtained and filed (process and product)**

Patents obtained = 00

Patents filed = 09

Copyrights=02

Name of Department	A.Y.	Name of Faculty	Details of Patents Filed
Chemical Engg.	2015-16	M. K. Ahire S.S.Totalwar	Title of the invention: Apparatus for manufacturing of paper from agricultural waste and processed thereof. Application No. 3744/MUM/2015 Reference No. E-2/2403/2015-MUM CBR No. 15348 dated 1/10/2015
Civil Engg.	2015-16	Dr . S. Y. Kute	Title of the invention: Conversion of existing Kolhapur type weir (K.T.Wier) into Ferrocement Syphon Application No. 201621000913 Dtd.11/01/2016 Reference No. CBR No. 598 dated 27 /04/2016
	2012-13	Dr. S. Y. Kute	Title of the invention: Experimental Investigation on Ultimate Lateral Strength of Partial In filled Braced Frames. The Patent Office Journal: 26/07/2013 19512 Application No.: 191/MUM/2012 A (19) INDIA Date of filing of Application: 19/01/2012 Publication Date: 26/07/2013 (54) International Classification: E04B1/24E04G25/02
E&TC Engg.	2016-17	Dr.S.S.Morade	Title of the invention: Counting & Separator System of A4 size papers Date: 30/08/2017 Filed No.- 201721030606A
	2015-16	Dr. S. A. Patil	Title of the invention: Arithmetic digital calculator Date: 04/04/2016 Filed No.- 201621011938
		Dr.M.R.Admane	L-60311/2014 (Copy Right)
	2016-17	S. S. Bhabad	Title of the invention: Speech recognition and correction for articulatory-handicapped people Application No.: 201621039304 Date of filling application : 17/11/2016, CBR No.: 35160
Computer Engg.	2015-2016	Dr. S. M. Kamalapur	L-60531/2014 (Copy Right)
		K.P.Birla, M.S. Pardeshi	Title: Redundant array of independent disks (RAID)8.

			Application No: 2171/MUM/2015 Date of filing of Application : 05/06/2015 International classification : G06F11/10 Publication date: 24/06/2016
	2011-2012	Prathamesh Karmalkar	Title: A system and method for online wireless electrical fault and theft detection Application No: 3295/MUM/2011
MBA	2016-17	A.S.Joshi	Title of the invention: Reflector Apparatus for Solar Water Heater Date: 23/08/2017 Filed No.- 201721029855A

3.4.3 Give details of publications by the faculty and students: (Page No. 98)

Following table lists the number of papers presented/published by students in conferences and journals.

Sr. No	Name of Department	Academic Year	No. of papers presented in Conferences	No. of papers published in Journals	Total
1	Chemical Engg.	2016-17	11	0	11
		2015-16	2	1	3
		2014-15	3	0	3
		2013-14	8	0	8
2	Civil Engg.	2016-17	21	4	25
		2015-16	34	3	37
		2014-15	6	9	15
		2013-14	7	8	15
3	Computer Engg.(UG)	2016-17	1	33	34
		2015-16	4	32	36
		2014-15	0	32	32
		2013-14	11	4	15
	Computer Engg.(PG)	2016-17	17	12	29
		2015-16	14	17	31
		2014-15	17	19	36
		2013-14	16	13	29
4	Electrical Engg.	2016-17	41	0	41
		2015-16	29	7	36
		2014-15	49	4	53
		2013-14	15	18	33
	Electrical Engg. (PG -Control System)	2016-17	23	0	23
		2015-16	6	0	6

		2014-15	1	1	2
		2013-14	7	11	18
5	Electronics Engg.	2016-17	2	1	3
		2015-16	1	0	1
		2014-15	0	0	0
		2013-14	3	0	3
		2016-17	31	0	31
6	E & TC Engg.	2015-16	7	0	7
		2014-15	6	0	6
		2013-14	1	0	1
		2016-17	13	2	15
	E & TC Engg. (PG)	2015-16	0	13	13
		2014-15	0	15	15
		2013-14	0	4	4
		2016-17	0	0	0
7	IT	2015-16	2	0	2
		2014-15	5	0	5
		2013-14	17	0	17
		2016-17	1	0	1
8	Mechanical Engg.	2015-16	0	1	1
		2014-15	0	1	1
		2013-14	0	2	2
		2016-17	13	0	13
9	Production Engg.	2015-16	13	0	13
	Production Engg.(PG)	2016-17	6	0	6
		2015-16	6	0	6
		2014-15	9	3	12
		2013-14	10	3	13
10	MCA	2015-16	1	0	1
		2014-15	3	0	3
		2013-14	1	0	1
Total			481	273	754

Sr. No	Department	Papers published by Faculty in Journals A- No. of Faculty ; B – No. of papers							
		2016-17		2015-16		2014-15		2013-14	
		A	B	A	B	A	B	A	B
1	Chemical Engg.	1	1	2	3	6	11	3	3
2	Civil Engg.	2	2	4	6	5	17	9	14
2	Computer Engg.	6	17	6	19	10	24	12	20
4	Electrical Engg.	2	3	8	18	4	10	9	53
5	E & TC Engg.	16	30	7	25	8	20	8	17
6	IT	1	1	1	1	5	5	3	1
7	Mechanical Engg.	1	1	4	4	4	11	5	8

8	Production Engg.	1	2	4	5	3	7	3	4
9	MCA	2	3	4	3	1	1	3	2
11	MBA	2	2	2	2	1	2	2	3
10	Applied Sci. & Maths	2	5	1	2	3	4	3	6
Total		37	69	47	88	50	112	50	131

Sr. No	Department	Papers presented by Faculty in Conferences A – No. of Faculty ; B – No. of papers							
		2016-17		2015-16		2014-15		2013-14	
		A	B	A	B	A	B	A	B
1	Chemical Engg.	0	0	2	2	4	6	5	5
2	Civil Engg.	2	5	3	8	1	2	4	9
3	Computer Engg.	0	0	0	0	3	5	4	5
4	Electrical Engg.	11	13	5	7	6	11	13	21
5	E & TC Engg.	8	11	2	3	2	3	5	8
6	IT	4	3	8	9	8	7	5	5
7	Mechanical Engg.	1	2	2	2	2	2	2	5
8	Production Engg.	12	22	1	2	4	12	7	22
9	MCA	1	1	1	1	4	4	3	3
10	MBA	2	2	0	0	1	1	2	2
11	Applied Sci. & Maths	2	3	2	4	1	2	1	3
Total		43	62	26	38	36	55	51	88

3.4.4 Provide details (if any) of research awards received by the faculty recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally incentives given to faculty for receiving state, national and international recognitions for research contributions. (Page No. 100)

Following table shows research awards received by the faculty. (Additional data for 2016-17)

Academic Year	Name of Department	Name of Faculty	Nature of Award	Award Given By
2016-17	Computer Engg.	Ms.Divya Sawant Prof. N. M Shahane	Best Paper Award	cPGCON-17, SITRC, Nashik
		Ms.Jyoti Pawar Prof. N. M Shahane	Best Paper Award	cPGCON-17, SITRC, Nashik

	Ms.Sonal Bhandare Prof.Dr.S.M. Kamalapur	Best Paper Award	cPGCON-17, SITRC, Nashik
	Miss Dipti S. Borade Prof. N. M Shahane	Best Innovation Award	Post cPGCON-17, SITRC, Nashik
	Ms.Tejashree Jagtap Prof.Dr.S.S.Sane	Best Innovation Award	Post cPGCON-17, SITRC, Nashik
	Ms.Divya Sawant Prof. N. M Shahane	Best Innovation Award	Post cPGCON-17, SITRC, Nashik

Following table shows list of faculty awarded with Ph.D. in last six years:

Sr. No.	Academic Year	Name of Faculty	Name of Department	Ph.D. awarded by
1	2017-18	Dr. M.N.Shelar	Mechanical Engg.	SPPU, Pune
2	2017-18	Dr. S.P.Dhake	MBA	NMU, Jalgaon
3	2016-17	Dr. P. M. Sonwane	Electrical Engg.	SPPU, Pune
4	2016-17	Dr. V. C. Bagal	MCA	Dr. BAMU, Aurangabad
5	2015-16	Dr. S. M. Kamalapur	Computer Engg.	SPPU, Pune
6	2015-16	Dr. D.P. Kadam	Electrical Engg.	SPPU, Pune
7	2015-16	Dr. S. B. Chandgude	Production Engg.	BATU, Lonere
8	2015-16	Dr. G. G. Waghmare	Mechanical Engg.	SVNIT, Surat
9	2015-16	Dr. P. B. Kushare	Mechanical Engg.	IIT, Roorkee
10	2015-16	Dr. S. S. Morade	E&TC Engg.	SVNIT, Surat
11	2015-16	Dr. K. S. Holkar	E&TC Engg.	SRTMU, Nanded
12	2015-16	Dr. M. R. Admane	E&TC Engg.	SPPU, Pune
13	2015-16	Dr. P.D. Dhake	Civil Engg.	SVNIT, Surat
14	2015-16	Dr. A.M.H.Ansari	Applied Sci. & Maths	IIT, Mumbai
15	2014-15	Dr. M. D. Kokate	E&TC Engg.	SRTMU, Nanded
16	2014-15	Dr. D.M. Chandwadkar	E&TC Engg.	SPPU, Pune
17	2014-15	Dr. N.D. Chaudhari	Civil Engg.	SPPU, Pune
18	2014-15	Dr. A. L. Varne	Civil Engg.	SVNIT, Surat
19	2014-15	Dr. S.N. Kadlag	Applied Sci. & Maths	SPPU, Pune
20	2014-15	Dr. A. C. Pawar	Applied Sci. & Maths	SPPU, Pune
21	2014-15	Dr. S. A. Patil	E&TC Engg.	SVNIT, Surat
22	2014-15	Dr. R. K. Munje	Electrical Engg.	SRTMU, Nanded

23	2013-14	Dr. M. P. Ray	Mechanical Engg.	IIT, Mumbai
24	2013-14	Dr. S. R. Gangurde	Production Engg.	SRTMU, Nanded
25	2013-14	Dr.P.K.Shahabadkar	TPO	Sainath Univ., Ranchi
26	2012-13	Dr. P. S. Kalos	Production Engg.	SPPU, Pune
27	2012-13	Dr. V. S. Mane	Chemical Engg	BATU, Lonere
28	2012-13	Dr. S. S. Naik	Applied Sci. & Maths	SPPU, Pune
29	2012-13	Dr. P.S. Bodke	Library	YCMOU, Nashik
30	2012-13	Dr. P.D. Bhamre	E&TC Engg.	IIT, Mumbai
31	2011-12	Dr. P. J. Pawar	Production Engg.	SVNIT, Surat

3.5 Consultancy

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years. (Page No. 104)

Name of Department	Academic Year	Revenue generated in Rs.	Area of consultancy
Electrical Engg.	2016-17	41,16,533	Energy Audit, Power Quality Audit, Electrical Installation Design
	2015-16	80,65,079	
	2014-15	1,29,38,965	
	2013-14	1,15,68,184	
	2012-13	81,22,931	
Civil Engg.	2016-17	50,97,309	Construction Material Testing, Soil investigations, Geotechnical investigations, concrete mix design, mix design for roads, Geotechnical stability analysis, Structural designs of RCC/Steel structures and water tanks, NDT and structural audit.
	2015-16	24,33,707	
	2014-15	39,68,395	
	2013-14	28,59,706	
	2012-13	17,41,841	
E&TC	2016-17	52,000	DSP & Embedded Processors

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years. (Page No. 115)

- The Institute has received **Best NSS Unit Award** at district level for the year 2016-17 from Savitribai Phule Pune University, Pune.
- Prof. N.B.Gurule has received **Best NSS Programme Officer Award** at district level for the year 2016-17 from Savitribai Phule Pune University, Pune.

CRITERIA IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student / user friendly? (Page No. 135)

Composition of the Coordination Committee is modified in the current academic year and is given below:

Sr. No.	Faculty Name	Designation	Department
1	Prof. Dr. Shirish S. Sane	Chairman	Computer Engg.
2	Prof. Dr. Prakash S. Bodke	Librarian	Library
3	Prof. Rupali S. Unhale	Member	Applied Sci. & Maths
4	Prof. Monali P. Mahajan	Member	Computer Engg.
5	Prof. I. Priyadarshani	Member	Computer Engg.
6	Prof. Nayana N. Jangle	Member	Electrical Engg.
7	Prof. Rupali V. Chothe	Member	Electronics Engg.
8	Prof. Piyush P. Joshi	Member	Chemical Engg.
9	Prof. Nikhil D. Bharavkar	Member	MCA
10	Prof. Tejal Y. Patil	Member	MBA
11	Prof. Rupali M. Bora	Member	IT
12	Prof. Abhijit J. Pawar	Member	Civil Engg.
13	Prof. Preeti R. Karmase	Member	Mechanical Engg.
14	Prof. Sneha Y. Naukarkar	Member	Mechanical Engg.
15	Prof. Mangesh Y. Khalkar	Member	Production Engg.

4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years. (Page No. 139)

Following table shows the amount spent on procuring new books, journals/periodicals and e-resources in the previous and current academic year.

Library Holding	Year 2016-17		Year 2017-18	
	No.	Total cost (Rs)	No.	Total cost (Rs) (till 18/9/17)
Books	2485	11,52,021	2175	11,20,508
Journal / periodical	256	10,28,288	5	3,450
E-resources	10498	49,50,007	-	-
News papers	13	21,241	13	7,455
E-books	2015	6,00,000	-	-

4.4 Maintenance of Campus Facilities

4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

a.Building b.Furniture c.Equipment d.Computers e.Vehicles f. Any other

(Page No. 149,150)

Available financial resources are allocated for maintenance and upkeep of the various facilities provided by the institution. Following table shows the budgeted amounts and actual utilization for last year.

Financial Year	Budget allocated maintenance and upkeep of a.Building b.Furniture c.Equipment d.Computers e.Vehicles	
	Budgeted Amount	Utilization
2016-17	64,12,000	62,12,535

CRITERIA V: STUDENT SUPPORT AND PROGRESSION

5.1.4 What are the specific support services/facilities available for (Page No. 153)

- Following table shows number of students benefitted under Earn & learn scheme.

Particulars	2012-13	2013-14	2014-15	2015-16	2016-17
No. of students enrolled in the E&L	15	21	23	23	30
Amount reimbursed by the University	14,200	54,356	48,021	67,117	80,811
Amount borne by the Institute	20,440	44,244	34,019	34,843	33,509
Total Expenditure on the Scheme	34,640	98,600	82,040	1,01,960	1,14,320

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR- NET, UGC-NET, SLET, GATE / CAT / GRE / TOFEL / GMAT / Central /State services, Defense, Civil Services, etc. (Page No. 156)

Institute always provides support and guidance to students for competitive examinations. Following table shows the number of students appeared and qualified in various competitive exams for higher education.

Academic Year	Number of Students {Appeared (A) ; Qualified (Q)}							
	GATE		CAT		TOEFL/GRE		GMAT	
	A	Q	A	Q	A	Q	A	Q
2016-17	418	33	10	5	9	7	2	0
2015-16	308	42	9	3	27	24	1	0
2014-15	260	68	20	11	44	41	0	0
2013-14	186	67	19	15	32	30	2	2
2012-13	88	28	9	6	22	19	1	1

Following table shows the number of students appeared and qualified in various competitive exams for employment.

Academic Year	Central & Civil Services (SSC, ESE(IES), etc)		State Services (MPSC, MSEB, etc)		Defence Services	
	Appeared	Qualified	Appeared	Qualified	Appeared	Qualified
2016-2017	5	0	12	1	7	0
2015-2016	11	4	9	0	3	1
2014-2015	2	0	11	4	1	0
2013-2014	2	0	8	4	0	0
2012-2013	1	0	15	5	0	0

5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If 'yes', detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of

students selected during campus interviews by different employers (list the employers and the programs). (Page No. 157)

Following table shows the Placement Summary for last three and current academic year.

Sr. No.	Branch Year	2013-14	2014-15	2015-16	2016-17
1.	Computer Engg.	70	100	91	86
2.	E & TC Engg.	27	41	48	42
3.	Production Engg.	12	09	15	03
4.	Civil Engg.	03	02	04	02
5.	Mechanical Engg.	52	106	61	50
6.	Electrical Engg.	22	62	45	29
7.	Chemical Engg.	15	15	07	15
8.	IT	33	42	38	52
9.	Electronics Engg.	10	28	24	29
10.	MCA	09	11	17	05
11.	MBA	20	27	20	17
12.	ME	--	04	03	03
Total:-		273	447	373	333

Following table shows the Internship Summary for last three and current academic year

Sr. No.	Branch Year	2013-14	2014-15	2015-16	2016-17
1.	MCA Internship	32	33	53	14
2.	ME Internship	--	--	07	03
3.	MBA Internship	--	--	--	13
4.	TE Internship	--	--	--	21
Total:-		32	33	60	51

5.2 Student Progression

5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed. (Page No. 162,163)

Following table shows the details of the number of students progressing to higher education and employment.

Academic Year	Total No. of Students					
	UG to PG (In India)	UG to PG (Abroad)	PG to Ph. D	In campus Placement	Off campus placement	Self-Employment/ Entrepreneur
2016-2017	30	7	1	274	27	6
2015-2016	43	14	0	373	45	7
2014-2015	104	23	1	447	99	15
2013-2014	108	30	1	273	124	8
2012-2013	79	26	2	219	138	28

5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (course wise/batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district. (Page No. 163)

Following table shows the programme wise completion rate for UG programmes

UG Programme	No. of Students Admitted in batch		No. of students completed the course in stipulated time	Completion Rate
	First Year	Direct Second Year		
Batch 2013-2017				
Chemical Engg.	59	16	56	74.66
Civil Engg	124	40	112	68.29
Computer Engg.	128	28	119	76.28
Electrical Engg.	123	27	118	78.67
Electronics Engg.	42	33	50	66.67
E &TC Engg.	63	20	68	81.93
IT	63	24	61	70.11
Mechanical Engg	180	36	173	80.09
Production Engg.	58	22	49	61.25

Following table shows the programme wise completion rate for PG programmes.

PG Programme	No. of Students Admitted in batch		No. of students completed the course in stipulated time	Completion Rate
	First Year	Direct Second Year		
Batch 2015-2017				
MCA (2014-2017)	13	0	11	84.61
MBA	53	0	41	77.36

Following table shows the programme wise pass percentage against the university results for academic year 2016-2017.

Programme	2016-2017	
	Passing %	Univ. Result
Chemical Engg.	94.87	80.31
Civil Engg.	93.04	93.08
Computer Engg.	98.64	97.47
Electrical Engg.	95.77	94.17
Electronics Engg.	96.77	93.75
E&TC Engg	93.51	95.23
IT	96.51	96.22
Mechanical Engg	75.33	90.46
Production Engg.	82.66	--
MCA	93.33	93.24
MBA	75.92	79.38