

Civil Engg Dept.

Prof. R. Srinivasa Kumar

ORCE

**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**

Cheeryal(V), Keesara (M), Medchal (D), Telangana state - 501 301

CED

A - 91-100.  
B - 75-90  
C - 60-74  
D - <60

**ACADEMIC AND ADMINISTRATIVE AUDIT REPORT**

\* Grade: A: Very Good, B: Good, C: Adequate, D: deficient

S. No	Criterion	Status		Grade	Exhibits observed	Remarks of Audit Team
		As assessed by department/institution	As observed by Audit Team			
I.	Vision, Mission and PEOs,					
A	1. Are vision and mission statements of the department available?	yes	yes	A	shown	
	2. Are department vision and mission statements consistent with institute statements?	yes	yes	A	shown	
	3. Are the PEOs available?	yes	yes	A	shown	
	4. Does the department follow a defined process for defining vision, mission and PEOs with the participation of all stakeholders-internal and external stake holders?	yes	yes	B	shown partially	Feed back from state holders Need more proof. for 3rd & 4th year related academic activities.

	5. Are the vision, mission and PEOs made available on college website, department notice boards, HoD's chamber, laboratories, lab manuals, course files, and curriculum books etc?	Yes	yes	A	Shown curricula sheets	
	6. Are the PEOs consistent with the mission of the department indicated in matrix form with proper justification of correlation parameters?	Yes	Need feedback Summary			2017-2020 need report
<b>Program curriculum and Teaching-Learning (T and L) Process</b>						
<b>Program Curriculum</b>						
II.	1. Does a <u>defined process</u> exist for design of program curriculum?	Yes	yes	A	Shown BOS mem.	
	2. Are the structure and components of curriculum well balanced and appropriate (as per AICTE Guidelines)?	Yes	yes	A	Shown AE-18-20	need piecharts
	3. Is a valid process followed for mapping of curriculum with PEOs and PSOs?	Yes	yes	A	Shown Need flow chart	Shown upto 2016-2017 Need 2017 onwards (PEO)
	4. Is Employability a major consideration in the overall development of the curriculum	Yes	yes	A ✓ 92	Shown c-mos lab & web page	* Antileva Transp program Perit ✓
<b>B. Teaching – Learning Process</b>						
	1. Is an Academic Calendar prepared and adhered to?	Yes	yes	A	Shown scheduled Tests T.T. Almanac	
	2. Is evidence of pedagogical initiatives taken, such as collaborative learning, ICT supported teaching etc available?	Yes	yes	A		1. Perit 2. Reliable env



3. Does a process exist to identify bright and weak students?	—	yes	A	Shown	
4. Does the department have measures to encourage bright students with more complex tasks and motivate weak students to perform better?		yes	A		1. B.S.F cheques books given 2. remedial class 3. P.B.L.
5. Does a process exist to allocate teaching load to faculty in the department?	yes	yes	A+		work load allotment
6. Do faculty in the department practice innovative TL practices such as <ul style="list-style-type: none"> <li>• Collaborative Learning <input checked="" type="checkbox"/> Yes/No</li> <li>• Interaction with student in and outside of class obtaining Feedback <input checked="" type="checkbox"/> Yes/No</li> <li>• Group Learning, Developing Professional Competences. <input checked="" type="checkbox"/> Yes/No</li> <li>• Teaching through value added courses <input checked="" type="checkbox"/> Yes/No</li> <li>• Experiential Learning that facilitates development of Problem-Solving Skills in the students through project based learning <input checked="" type="checkbox"/> Yes/No</li> <li>• Facilitating interaction with various experts in the field through Guest Lectures, Industrial Visits, Field trips thereby making them familiar with occupational awareness. <input checked="" type="checkbox"/> Yes/No</li> </ul>		yes  yes  yes  yes  yes			Revit Feedback PBL Time table  only 2 lectures 20-21-22 1 FDP 20-23
7. Is student feedback on T and L process collected and	yes	yes	A		Conciding given

to faculty  
3

acted upon?					
8. Do the experiments in laboratory support higher level of Bloom's Taxonomy?	yes	yes	A-		Root Trees exp. Antz Tanks
9. Is continuous assessment in the laboratory done systematically?	yes	yes	A+		day to day evaluation sheet
10. Is a well-defined process followed in the design and validation of question papers as well as for scheme of evaluation of mid-term and semester end examinations?	yes	yes			question papers with CO-POs
11. Are questions mapped with course outcomes, and Blooms Taxonomy levels?	yes	yes			S.P.
12. Do the assignments given to students facilitate attainment of COs as well as higher levels of Bloom's Taxonomy?	yes	yes		shown	
13. Is a well-defined process followed for identification of student projects and allocation of guide(s)?	yes	yes	A+	shown	
14. Are the projects relevant to the POs and PSOs and do they contribute to their attainments?	yes	yes	✓	✓	Prof. delimit
15. Is a well-defined process followed for monitoring and evaluation of the projects and for assessing individual and team performance?	yes	yes			Reviews Report
16. Are efforts made to encourage students to develop working prototypes based on projects and/or to	yes	yes			Kolla Bannu (T.E)

\* need more  
4



	publish papers?					1 paper shown
	17. Particulars of industry supported laboratories established, if any. Is impact analysis of industry interaction made and if, so, is action taken based on the results of the analysis?	Yes	NO			No specific lab established.
	18. Are students encouraged to undergo internships or summer training? If so, what is the minimum duration of internship?	Yes	yes	A		10 days + 1 month (Summer gap)
	19. Is student feedback taken on the internship experience?	Yes	yes	A		shown
	20. Is Impact analysis of internship made and action taken on the basis of the results of the analysis?	Yes	yes	A		Some candidates are failed if absent *
	21. Average number of days from the date of last semester-end examination till the declaration of results	1 month	yes	A		1 month
	22. Average <u>percentage</u> of student complaints / <u>grievances about evaluation against total number of students appeared in the examination during last academic year</u>	Nil				* Revaluation = ? No go Re count = ?
<b>III.</b>	<b>Course Outcomes and Program Outcomes</b>					
A	1. Are COs defined for every course?	Yes	yes.			
	2. Are COs embedded in syllabus?	Yes	yes.			
	3. Are course articulation matrix, program articulation	Yes				

	matrix tables prepared?		yes	A		given course files
	4. Is appropriate assessment process for attainment of course outcomes followed including data collection, verification, analysis and decision making?	yes	yes	A		Excellently
	5. Is a well-defined process followed for determining attainment of POs and PSOs?	yes	yes	A		Excellently
	6. Are the records of computation of attainment of POs and PSOs maintained?	yes	yes	A		shown
	<b>Students' Performance</b>					
	1. Enrollment ratio (2021-22)	36.66%	$(22/60 \times 100)$	36.66	.	22/60
	2. Percentage of students who graduate the program in four years, without repeat of any course? (2018) = 111	33.33%		33.33	.	$\frac{37}{111} \times 100 = 33.33\%$
	3. Percentage of students graduating the program with backlogs within 4 years?	45.94%		45.94		$\frac{51}{111} \times 100$ Need improvement
	4. Mean CGPA of students (who were promoted to 3 <sup>rd</sup> year) at the end of 2 <sup>nd</sup> year	4.79		4.79		* Need improvement
	5. Percentage of students placed in companies through on and off-campus recruitment.	41.4		41.4%	show	$\frac{46}{111} \times 100 = 41.44\%$
	6. Percentage of final year students admitted to higher studies	2.702		2.7%	show	$\frac{3}{111} \times 100 = 2.7$
	7. Number of students turned entrepreneurs in Engineering and Technology	1		0.9%	show	$\frac{1}{111} = 0.01$
	8. Number of Professional societies/chapters in the	nil		nil		not present



	department				
	9. Number of Engineering events organized at institute at:				
	a. Institute Level	2 EL	2 EL	B	s Brochure shown shown.
	b. State Level	1 FDP	1 FDP	A	
	c. National Level	+ 1 Bhaswara	collegiate	A	
	d. International Level				
	10. Does the department publish technical magazines and Newsletters?	Yes	Yes	A	shown
	11. Are students associated in the above publications?	Yes	Yes	A	Need improv (03 papers)
	12. Number of students who participated in inter-institute events				
	• Within state	5	5	B.	Five student only particip * Need improv.
	• Outside state	Nil	Nil		
	• Number of prizes/ awards received in the events.	3	3		
V	<b>A. Faculty Information and Contribution</b>				
* B	1. Student faculty ratio	15:1	16.63	A	(65+63+65+63+60) =316
	2. Faculty cadre proportion	P: A: M: Asst	2:3:18	0:1:18	$\frac{316}{19} = 16.63$
	3. Number of Faculty with PhD qualification	04	11+1+14		24
	4. Number of Faculty with PG Degree qualification	19	19	A	
	5. Faculty retention (%) in the Current Academic Year?	84.21	84.21	B	$\frac{2021-19}{2022-16} = \frac{16}{19} \times 100$
	6. Number of research publications of faculty in the year	01	01	D	*

(scopus)

	7. Number of faculty who participated in FDPs, and duration of the programs.	17	15			75 days
	<b>B. Research and Development</b>					
	1. Number of quality research publications in refereed/Scopus indexed journals.	01	01			Scopus
	2. Number of faculty awarded PhD during the current academic year	0	0			
	3. Sponsored research (funded) undertaken and its value in Lakhs of Rupees.	0	0			
	4. Number of development activities undertaken by faculty: • Product development • Working models	0	0			
	5. Consultancy services offered and their value in Lakhs of Rupees.	0	0			
	6. Does a well-defined faculty performance appraisal and development system exists and implemented?	Yes	yes	A		emk.
<b>VI</b>	<b>Facilities &amp; Technical Support</b>					
*	1. Are well-equipped labs and technical supporting staff available?	Yes	yes	A.		
	2. Are labs well maintained?	Yes	yes	A		
	3. Are safety measures followed in the lab?	Yes	yes	A		
	4. Is a project laboratory together with necessary	No	NIL			



	facilities available in the department?	NIL	NIL		
VII	<b>Continuous Improvement</b>				
	1. Are short falls and weaknesses in the program identified from the analysis of POs and PSOs attainment?	yes -	yes	A	Summary report of subject attainment
	2. Are action plans to <u>bridge</u> the shortfalls prepared and implemented? If so, what is the impact of the said implementation with respect to previous academic year?	yes	yes	B	1. Guest Lecture 2. Tutorial classes 3. * Need more
	3. Does a criterion exist for conducting academic and administrative audit?	yes	yes	A	shown
	4. Frequency of audit	1 year	yes	B	* 2 times is good
	5. Are actions taken based on audit report?	yes	yes*	B+	* Need models. * Res D
	6.				
	a. Percentage of placements in current Academic Year	→ Yes 20%	→ $\frac{45}{123} = 36\%$		Need Improvement
	b. Percentage of placements in the previous Academic Year	→	→ $\frac{32}{144} = 22\%$	B	
	c. Is there any improvement?	→	yes = 14%		
7.					
a. Median salary offered to students in the <u>current</u> academic year	3 lacs	3 lacs		Need Improvement Not done	
b. Median salary offered to students in the <u>previous</u> academic year	→	→ 2 lacs	B		

	c. Is there any improvement?		yes	High in average		
8.	a. Best rank of the students admitted in the current academic year	→				
	b. Best rank of the students admitted in the previous academic year	→				
	c. Is there any improvement?					

	9.					
	a. Highest rank (in the qualifying examination) of student admitted in the current Academic Year	→				
	b. Highest rank (in the qualifying examination) of student admitted in the previous Academic year?	→				
	c. Is there any improvement?					
<b>VIII</b>	<b>First Year Academics</b>					
	1. First year student faculty ratio					
	2. Number of faculty teaching first year, with PhD qualification					
	3. Number of faculty teaching first year with PG qualification					
	4. Percentage of students who qualified for promotion to 2 <sup>nd</sup> year from end examinations of first year					
	5. Mean CGPA/percentage of students (who were					



	promoted to Second year) at the end of First year.					
	6. Is a proper assessment process used for determining the attainment of course outcomes?					
	7. Is a proper assessment process used for determining the attainment of relevant POs and PSOs					
	8. Are records of computation of attainment of COs of all first-year courses available?					
	9. Are records of computation of attainment of relevant POs & PSOs of all first-year courses available?					
	10. Are actions taken based on the results of evaluation of POs and PSOs?					
<b>IX</b>	<b>Student Support Systems</b>					
	<b>A. Mentoring System</b>					
	1. Is a comprehensive mentoring system at individual level in place for professional guidance, career advancement and all-round development?		Mentoring yes		Shown	1. 1mentor/20stud. 2. 1 class meeting
	2. Is the mentoring system implemented? If yes, Number of students per mentor		yes 20/m			1hr/mentoring hr. weekly.
	3. Is the mentoring system effective?		A++			M-mentoring/candidate
	<b>B. Student feedback on faculty and facilities.</b>					
	1. Does a student feedback system exist?		yes			2 times/semester
	2. Are the records of action taken on the results of feedback (on faculty) analysis available?		yes	B++		Counseling done

3. Is the feedback system effective?					
4. Are records of action taken on feedback on facilities available?		yes		Summary shown	CRC Class Review
<b>C. Facilities for Self-Learning</b>					
1. Does the department provide scope for self-learning?		yes			NPTL, ATAL, D. Library
2. Are all required facilities, materials, for learning beyond syllabus etc. provided to the students?		yes	B		Library
3. Are the facilities effectively utilized by the students?		yes		late hours permitted	Logbook
<b>D. Career guidance, Training and Placement</b>					
<b>Career Guidance</b>					
1. Does the college have a Career Guidance or Counseling Cell?		yes			
2. If yes, how many students have been utilizing these services?		All			
3. How many Career Guidance programs have been conducted in each year?		2			
4. How many number of students attended these career guidance programs?		45 no.			
5. Are students counseled for higher studies?		yes			
6. Does the College have Academic links/ collaborations/MoU, etc with other institutes of higher learning?		yes			Canteen CAD. CAD center C-well.
<b>Training and Placements</b>					



1. Does the college conduct any pre placement training for students' placements?		yes			
2. Is effective placement policy framed and implemented?					
3. If yes, then specify the number of hours, areas in which training is imparted.					
4. Does the placement cell maintain the record of job opportunities available for students?					
5. Did the college organize any company/Industrial visits or guidance camp for students?		2 visits			
6. If yes, number of such visits/camps organized		1. C complex 2. AMC			
7. Are the students provided computers and Internet to search for job, to download application forms or to register for placements drive of the companies etc?		yes			printer or charge
8. Does the college subscribe to magazines like Employment News, Rojgar Samachar etc? If yes, give names of magazines.		yes. 1. 2. 3.			
9. Does the college have a system of registering students at the Employment office of the GoI?		?			
<b>NSS Activities/Student Clubs/Alumni Association</b>					
1. Are clubs and NSS effectively functioning?		yes			
2. Do students conduct and participate in annual co-curricular and extra-curricular activities.		yes 90			1. Robotics 2. Math club 3. after, -1

	If yes, please mention % of students participate in such activities:					
	3. Does the college have a registered and functional Alumni Association? If yes, give number of students enrolled		Yes 25 <sup>th</sup> Dec.			
	4. Specify Activities of Alumni Association		(Alumim meets yes)			
<b>X</b>	<b>Governance, Institutional Support and Financial Resources</b>					
	<b>A. Governance, Institutional Support</b>					
	1. Are vision and mission statements of Institution available on college website, Principal's Chamber, Library, Conference rooms etc?					
	2. Are the vision and mission statements appropriately defined and relevant?					
	3. Is institutional strategic plan (5 years) available?					
	4. Is there an implementation plan towards achieving the strategic objectives?					
	5. Is the strategic plan monitored effectively?					
	6. Is a Governing Body duly constituted and its meetings held regularly?					
	7. Are service rules, policies, procedures, functions and responsibilities published and uploaded on the website?					
	8. Are Minutes of Meetings of Governing Body and					



Academic council and Action taken reports available?					
9. Are organizational structure and lists of administrative heads, and committees formed with powers to take administrative decisions, available?					
10. Is there any Grievance redressal system in place and a cell constituted for this purpose?					
11. Is evidence of action taken on student/staff grievances available?					
12. Are financial powers delegated to Principal, HoDs, I/cs, documented?					
13. Is Mandatory Disclosure as per AISHE & AICTE, placed on website?					
14. What are institutional practices for integrating IT? (i)Administration (ii)Finance and Accounts (iii)Examination					
<b>B. Budget allocation and utilization</b>					
1. Does the college follow a prescribed procedure for budget formulation, finalization and approval?					
2. Is the budget allocation adequate at institutional, and program levels?					
3. What percentage of allocated funds was utilized in the previous year by the Institution and programs?					

**C. Library and Internet****i. Quality of learning resources**

1. Are learning resources procured as per the requirements provided by the academic departments, ensuring relevance to programs?

2. Are AICTE norms followed in respect of number of books & their copies procured?

3. Are these learning resources including E-Resources & digital library, easily accessible to students?

4. Is adequate support given to students for self-learning activities?

5. Is the utilization of learning resources by students and faculty satisfactory?

**ii. Internet**

1. Is the available band Width adequate?

2. Is Wi-Fi available in the college?

3. Is there internet access in labs, library, conference rooms & offices of all departments?

4. Is adequate security mechanism put in place for protecting the internet transactions?

**iii. Infrastructural facilities and ambience**

1. Is Campus ambience exemplary /Good / Satisfactory/ Unsatisfactory?



2. Is Office Space ambience exemplary/Good/Satisfactory/Unsatisfactory?					
3. Are washrooms well maintained?					
4. Is adequate parking facility available?					
5. Are individual Staff rooms available with IT facility?					
6. Are staff rooms well maintained?					
7. Is Potable Water facility available?					
8. Is Power Backup facility available? If so, specify the capacity					
9. Does the Institute have facilities for alternate sources of energy like: (i) Solar energy (ii) Wheeling to the Grid (iii) Use of LED Bulbs					
10. Does the Institute have Rain water harvesting pits?					
11. Does the institute take any Green campus initiatives such as: (i) Restricted entry of automobiles (ii) Pedestrian friendly path ways (iii) Landscaping with trees and plants					
12. Does the Institute provide any facility for Disabled/Divyangjan persons easy access to classrooms and Labs?					
13. Does the institute organize National/International					

	commemorative days, events and festivals?					
	14. Do Seminar halls have adequate ICT facilities?					
	15. Is transportation available for students and staff?					
	16. Is the Canteen maintained as per Food Safety and Standards Act?					
	17. Is Auditorium/Assembly Hall available with all ICT facilities?					

**Please mention**

**Good Practices, if any**

1. Development of Prog. Curriculum, Teach & Learning process.
2. Co-po well defined
3. Good website.
4. Routine A. Auditing.
- 5.



Strengths, if any

1. Well maintained/equipped labs., Quality of Question papers.
2. CO-PO attainment
3. Feedback system (Identified bright/weak students)  $\Rightarrow$  mentoring system.
4. Good Departmental library facility
5. Good faculty with co-operation

Weaknesses, if any

1. Student Faculty ratio.  $> 16$
2. Research & development
3. Consultancy
4. Lower quality of students (Ranks or higher)

Concerns, if any

1. No desktops given to each faculty.
2. ~~Encouragement~~ to Improvement in attendance for Tutorial/compensating classes
3. placements
4. Less no. of Admitted students in 2022.

Deficiencies, if any

1. Student's performance.
2. No professor ratified.
3. No sponsored projects/consultancy projects.

Recommendations, if any

1. R & D activities should be explored with ~~no~~ concerned Institutions/MOU's
2. 'consultancy / sponsored, projects with ATMC @ others
3. Conduct more number of guest lectures (say 1 per month); 2 Training program/yr.

Brief report, if any

I visited the Civil Engg Dept and Labs. The concerned faculty have shown docu-  
evidences for the criteria. The Summary of assigned grades for each criteria as given  
below: I=A; II=A; III=~~A~~; IV=C; V=B; VI=A; VII=B\* ; (80%)  
The no. of faculty attended FDP is good. The % placement is increasing but need atleast 75%  
The CRC practice is good. The training programs offered to the students are good.  
The process of calculation of Co-go attainment is satisfactory.  
collaborative learning with specific research institutions should be envisaged. The average  
pass percentage should be improved.

Suggestions for improvising the academic quality:

1. Paper publication / Students should be improved.
2. Establish Professional Societies / Chapters.
3. Organise National Seminars & increase participation of students / faculty.
4. Subscribe more e-journals & encourage faculty to present their research papers.

Signature of audit committee member:

R. Srinivasa Kumar 17/12/2022

Name of the audit committee member:

Prof. R. Srinivasa Kumar

Affiliation of the audit committee member:

Professor -> Director (Estab cell) Osmania University, Hyd.  
CED Ph. 949112424



EEE  
Dr. K. Rajuolu Prof & Head, BVRIT, Narsapur

EEE DEPT.  
9959599839

**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
Cheeryal(V), Keesara (M), Medchal (D), Telangana state – 501 301

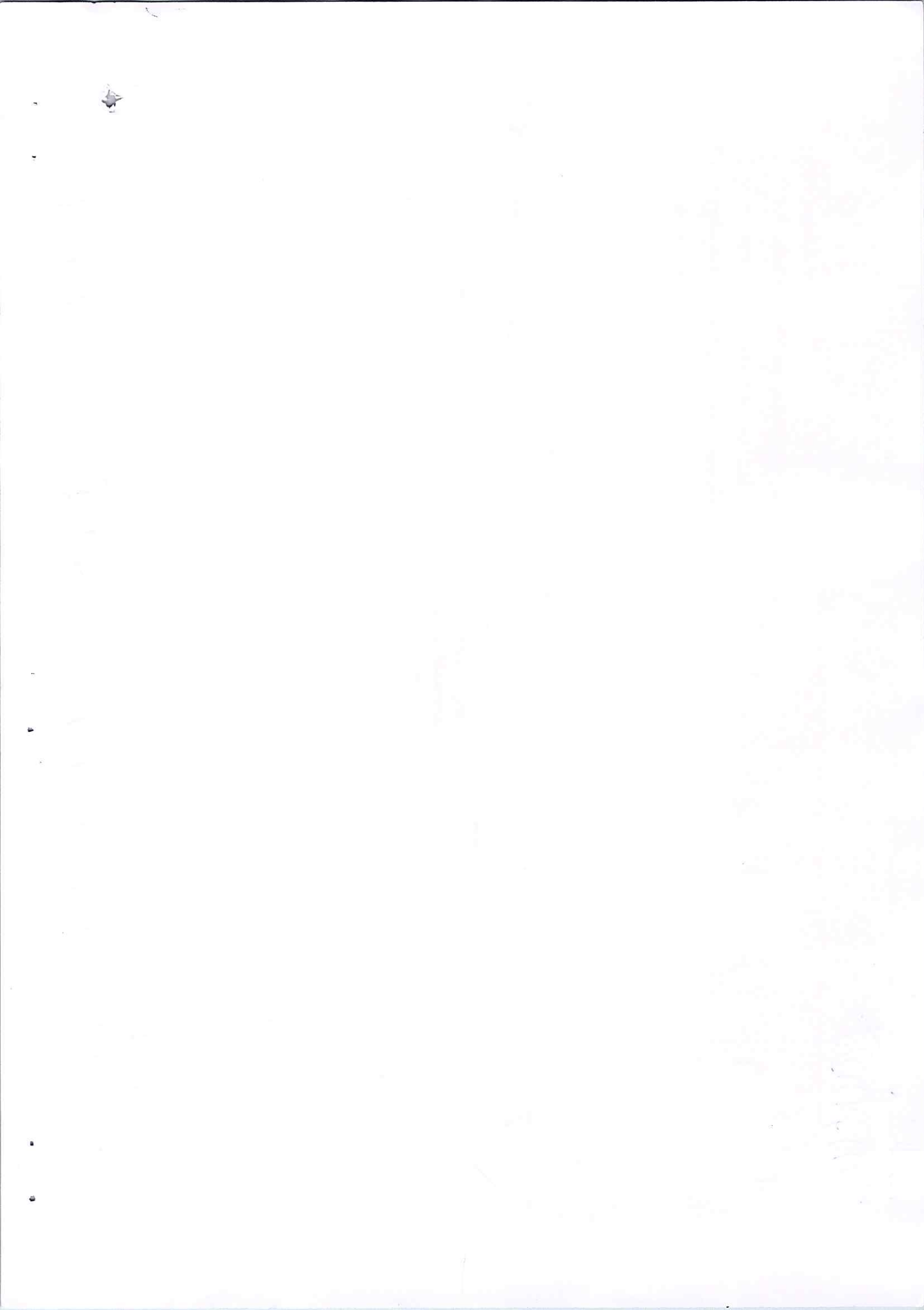
**ACADEMIC AND ADMINISTRATIVE AUDIT REPORT**

\* Grade: A: Very Good, B: Good, C: Adequate, D: deficient

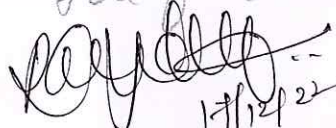
S. No	Criterion	Status		Grade	Exhibits observed	Remarks of Audit Team
		As assessed by department/ institution	As observed by Audit Team			
I.	<b>Vision, Mission and PEOs,</b>					
	1. Are vision and mission statements of the department available?	yes	yes	A	yes	-
	2. Are department vision and mission statements consistent with institute statements?	yes	yes	B	yes	-
	3. Are the PEOs available?	yes	yes	A	yes	
	4. Does the department follow a defined process for defining vision, mission and PEOs with the participation of all stakeholders-internal and external stake holders?	yes	yes	A	yes	support doc. tagged photos as proof when it is diff. like

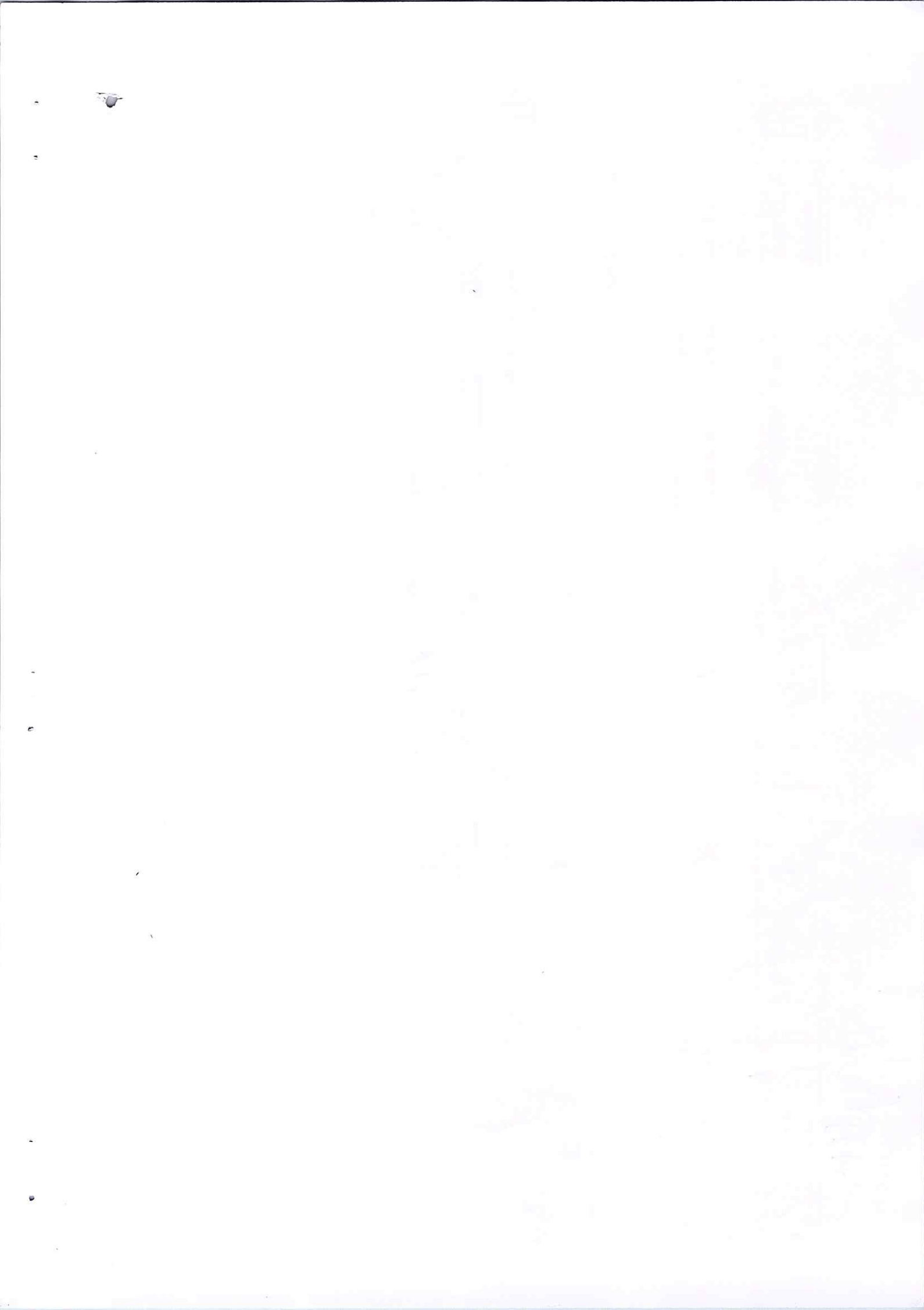
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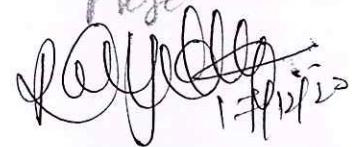
	5. Are the vision, mission and PEOs made available on college website, department notice boards, HoD's chamber, laboratories, lab manuals, course files, and curriculum books etc?	yes	yes	A	yes	well maintained —
	6. Are the PEOs consistent with the mission of the department indicated in matrix form with proper justification of correlation parameters?	yes	yes	A	yes	Need to modify the vision/mission statements.
<b>II.</b>	<b>Program curriculum and Teaching-Learning (T&amp;L) Process</b>					
	<b>Program Curriculum</b>					
	1. Does a defined process exist for design of program curriculum?	yes	yes	A	yes	- Term copies given (for curriculum)
	2. Are the structure and components of curriculum well balanced and appropriate (as per AICTE Guidelines)?	yes	yes	A	yes	OK.
	3. Is a valid process followed for mapping of curriculum with PEOs and PSOs?	yes	yes	B	yes.	More generic, but it must be specific
	<b>B. Teaching – Learning Process</b>					
	1. Is an Academic Calendar prepared and adhered to?	yes	yes	A	yes	academic calendar prepared as per calendar
	2. Is evidence of pedagogical initiatives taken, such as collaborative learning, ICT supported teaching etc available?	yes	yes	C	yes	needs to follow ICT approaches
	3. Does a process exist to identify bright and weak students?	yes	yes	B	yes.	Based on tests conducted for the faculty.

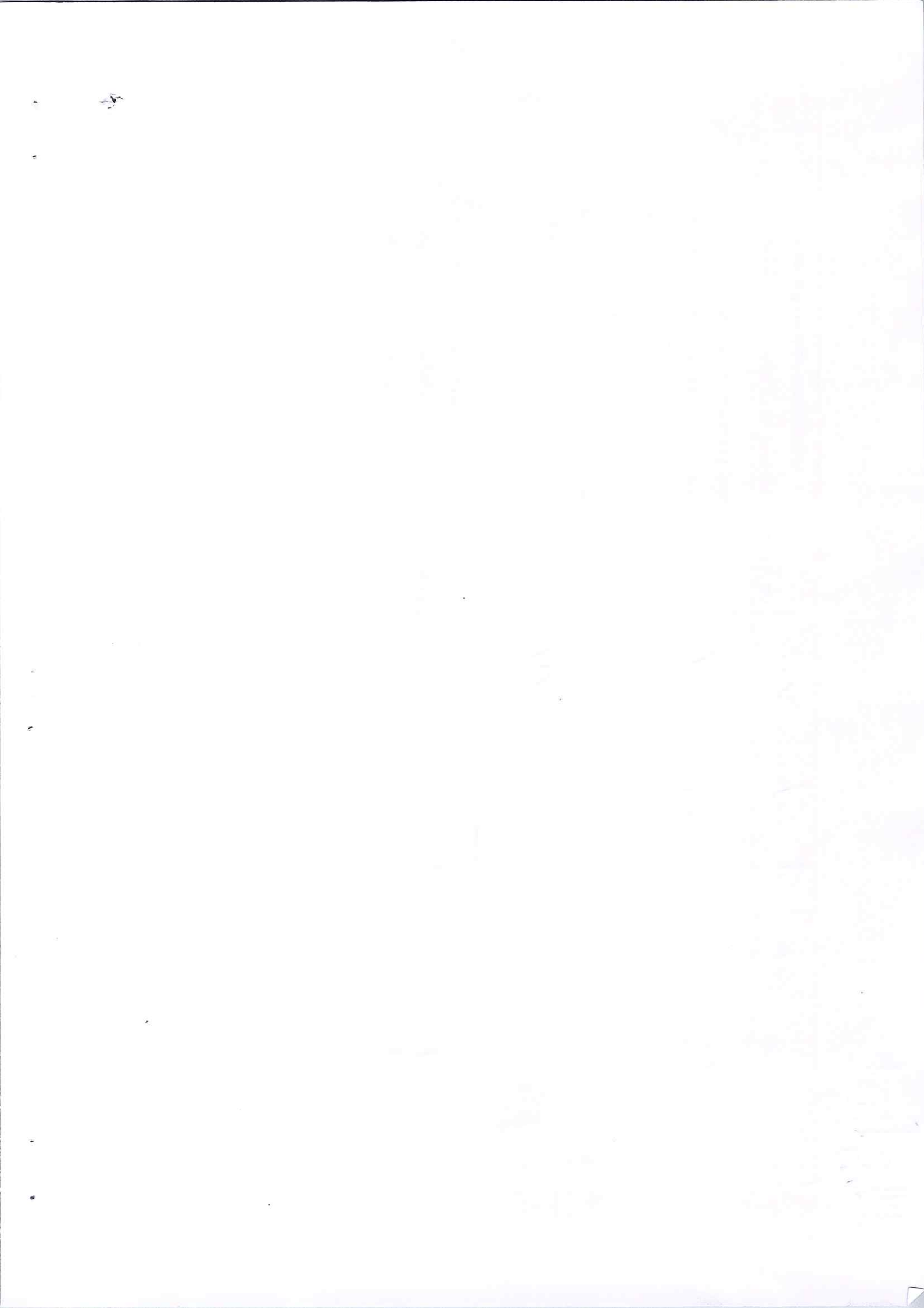
  
 17/12/22





4. Does the department have measures to encourage bright students with more complex tasks and motivate weak students to perform better?	Yes	Yes	B	Yes	- Need to prepare students for GATE
5. Is student feedback on T&L process collected and acted upon?	Yes	Yes	B	Yes	Action plans prepared
6. Do the experiments in laboratory support higher level of Bloom's Taxonomy?	Yes	Yes	A	Yes	Design level of experiments are planned
7. Is continuous assessment in the laboratory done systematically?	Yes	Yes	B	Yes	9 -
8. Is a well-defined process followed in the design and validation of question papers as well as for scheme of evaluation of mid-term and semester end examinations?	Yes	Yes	B	Yes	BTLS - not properly followed
9. Are questions mapped with course outcomes, and Blooms Taxonomy levels?	Yes	Yes	B	Yes	11 Judgments of papers
10. Do the assignments given to students facilitate attainment of COs as well as higher levels of Bloom's Taxonomy?	Yes	Yes	B	Yes	↑ need to improve
11. Is a well-defined process followed for identification of student projects and allocation of guide(s)?	Yes	Yes	A	Yes	well articulated procedure followed
12. Are the projects relevant to the POs and PSOs and do they contribute to their attainments?	Yes	Yes	B	Yes	- Need to choose students to do industry relevant project

Project  
  
 17/12/23



	13. Is a well-defined process followed for monitoring and evaluation of the projects and for assessing individual and team performance?	yes	yes	A	yes	—
	14. Are efforts made to encourage students to develop working prototypes based on projects and/or to publish papers?	yes	yes	A	yes	good no. of prototypes are developed
	15. Particulars of industry supported laboratories established, if any.	yes	yes	C	yes	No industry sponsored labs in the dept.
	16. Is impact analysis of industry interaction made and if, so, is action taken based on the results of the analysis?	yes	yes	C	yes	
	17. Are students encouraged to undergo internships or summer training? If so, what is the minimum duration of internship?	yes	yes	B	yes	- during summer vacation - max - 30 days min - 2 weeks
	18. Is student feedback taken on the internship experience?	yes	yes	A	yes	—
	19. Is Impact analysis of internship made and action taken on the basis of the results of the analysis?	yes	yes	C	yes	min - 10% max - 7%
	<b>Course outcomes &amp; Program outcomes</b>					
III.	1. Are COs defined for every course?	yes	yes	A	yes	—
	2. Are COs embedded in syllabus?	yes	yes	A	yes	—
	3. Are course articulation matrix, program articulation matrix tables prepared?	yes	yes	<del>B</del>	yes	articulation matrix of CAM and PAM needs to be modified

be modified  
*[Signature]* 11/12





	4. Is appropriate assessment process for attainment of course outcomes followed including data collection, verification, analysis and decision making?		yes	A	yes	- followed
	5. Is a well-defined process followed for determining attainment of POs and PSOs?		yes	B	yes	- 20 courses need to complete calculation
	6. Are the records of computation of attainment of POs and PSOs maintained?		yes	B	yes	-
<b>IV</b>	<b>Students' Performance</b>					
	1. Enrollment ratio 2021-22 (Adm)	51.67	yes	B	yes	Provd.
	2. Percentage of students who graduate the program in four years, without repeat of any course?	0.30 (30%)	yes	C	yes	Provd.
	3. Percentage of students graduating the program with backlogs within 4 years?	0.61 (61%)	yes	B	yes	
	4. Mean CGPA of students (who were promoted to 3 <sup>rd</sup> year) at the end of 2 <sup>nd</sup> year	5.56	yes	B	yes	(5.56/5.32) -2
	5. Percentage of students placed in companies through on and off-campus recruitment.	21-22 → 76.38% 20-21 → 54.35%	yes	A	yes	97/127
	6. Percentage of final year students admitted to higher studies	4.35%	yes	B	yes	20-21: 6/138 21-22: In Procs.
	7. Number of students turned entrepreneurs in Engineering and Technology (2)	- 2 -	yes	A	yes	2 Companies registered
	8. Number of Professional societies/chapters in the	4	yes	A	yes	Good 100% of activities are conducted

5

- 1) IEEE-PEE
- 2) IEEE-WIE/ISC
- 3) ISTE
- 4) IEEE-SS





	department					
	9. Number of Engineering events organized at institute at: a. Institute Level - 1 b. State Level - 1 c. National Level - 1 d. International Level - 0	yes	yes	B	yes	
	10. Does the department publish Technical magazines and Newsletters? (1) (1)	yes	yes	A	yes	2
	11. Are students associated in the above publications?	yes	yes	A	yes	
	12. Number of students who participated in inte-institute events • Within state - 221 • Outside state - NIL • Number of prizes/ awards received in the events. 1	yes	yes	A A	yes	
<b>AV</b>	<b>A. Faculty Information and Contribution</b>					
	1. Student faculty ratio 15	yes	yes	A	yes	
	2. Faculty cadre proportion R 2 4 (1) A (3) (1) (18)	(2)	(1)	(18)	yes	
	3. Number of Faculty with PhD qualification (4)	yes	yes	4 ✓	yes	
	4. Number of Faculty with PG Degree qualification 18	yes	yes	B	yes	
	5. Faculty retention (%) in the Current Academic Year? (95.2%) (10/10)	(95.2%)	yes	B	yes	



2021-2022 → (9/22 faculty) (03/20-21) →

Concerns

	6. Number of research publications of faculty in the year	YES	YES	C	YES	- Concerns
	7. Number of faculty who participated in FDPs, and duration of the programs.	22 participated	YES	C	YES	
	<b>B. Research and Development</b>	SCI - 0				
	1. Number of quality research publications in refereed/Scopus indexed journals.	COPY	YES	C	YES	
	2. Number of faculty awarded PhD during the current academic year	NIL	-	D	YES	
	3. Sponsored research (funded) undertaken and its value in Lakhs of Rupees.	21-22 - NIL	20-21 3L	C	YES	
	4. Number of development activities undertaken by faculty: • Product development • Working models	- 0 - NIL	YES	D	YES	
	5. Consultancy services offered and their value in Lakhs of Rupees.	- 0 - NIL	YES	D	YES	
	6. Does a well-defined faculty performance appraisal and development system exists and implemented?	YES	YES	A	YES	-
<b>VI</b>	<b>Facilities &amp; Technical Support</b>					
	1. Are well-equipped labs and technical supporting staff available?	YES	YES	A	YES	
	2. Are labs well maintained?	YES	YES	A	YES	





	3. Are safety measures followed in the lab?	yes	yes	A	yes	
	4. Is a project laboratory together with necessary facilities available in the department?	NO	NO	—	NO	Project Lab needs to be developed.
<b>VII</b>	<b>Continuous Improvement</b>					
	1. Are short falls and weaknesses in the program identified from the analysis of POs and PSOs attainment?	20-21 yes	yes	B	yes	All pos-attained mean - weak correlation.
	2. Are action plans to bridge the shortfalls prepared and implemented? If so, what is the impact of the said implementation with respect to previous academic year?	2020-21 passed out. yes	yes	B	yes.	- For next batch (done)
	3. Does a criterion exist for conducting academic and administrative audit?	yes	yes	A	yes	- etc.
	4. Frequency of audit	INTERNAL - 11sem (2/11) EXTERNAL (4/41)	yes	yes	A	yes.
	5. Are actions taken based on audit report?	yes	yes	A	yes	ok
	6. a. Percentage of placements in current Academic Year b. Percentage of placements in the previous Academic Year c. Is there any improvement?	2021-22 → 76.35% 2020-21 → 54.35% yes	yes	A	(22%) ↑ yes.	improvement in placements
	7. a. Median salary offered to students in the current academic year	20-21 - 3 LAKH (21-22 - ongoing) 3 LAKH yes.	yes	B	yes	need to improve median





	b. Median salary offered to students in the previous academic year	19 - 2020 → 20157 2021 → 3106			B	
	c. Is there any improvement?					
8.	a. Best rank of the students admitted in the current academic year	2021-22 - 45,585				
	b. Best rank of the students admitted in the previous academic year	2020-21 - 28,046				
	c. Is there any improvement?	Yes	Yes	B	Yes	
9.	a. Last rank (in the qualifying examination) of student admitted in the current Academic Year	2021-22 - 73,241				
	b. Last rank (in the qualifying examination) of student admitted in the previous Academic year?	2020-21 37,260				
	c. Is there any improvement?	Yes	Yes	B	Yes	
<b>VIII</b>	<b>First Year Academics</b>					
	1. First year student faculty ratio					
	2. Number of faculty teaching first year, with PhD qualification					
	3. Number of faculty teaching first year with PG qualification					
	4. Percentage of students who qualified for promotion to 2 <sup>nd</sup> year from end examinations of first year					

~~Dr. K. Raju~~  
 Dr. K. Raju  
 Prof. & Head,  
 EEE Dept,  
 BVRIT,  
 9959599839



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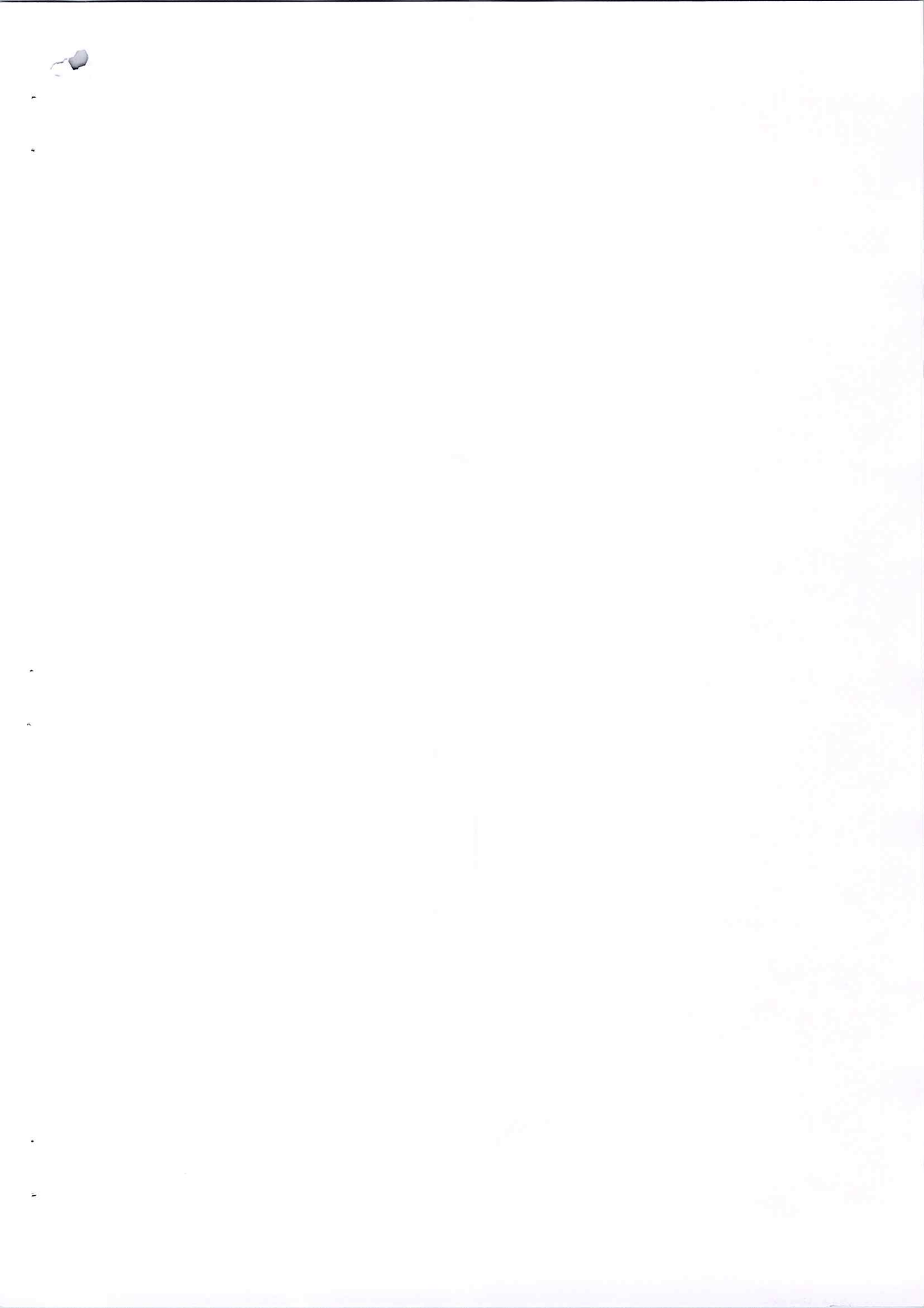
	5. Mean CGPA/percentage of students (who were promoted to Second year) at the end of First year.					
	6. Is a proper assessment process used for determining the attainment of course outcomes?					
	7. Is a proper assessment process used for determining the attainment of relevant POs and PSOs					
	8. Are records of computation of attainment of COs of all first-year courses available?					
	9. Are records of computation of attainment of relevant POs & PSOs of all first-year courses available?					
	10. Are actions taken based on the results of evaluation of POs and PSOs?					
<b>IX</b>	<b>Student Support Systems</b>					
	<b>A. Mentoring System</b>					
	1. Is a comprehensive mentoring system at individual level in place for professional guidance, career advancement and all-round development?					
	2. Is the mentoring system implemented?					
	3. Is the mentoring system effective?					
	<b>B. Student feedback on faculty and facilities.</b>					
	1. Does a student feedback system exist?					
	2. Are the records of action taken on the results of					





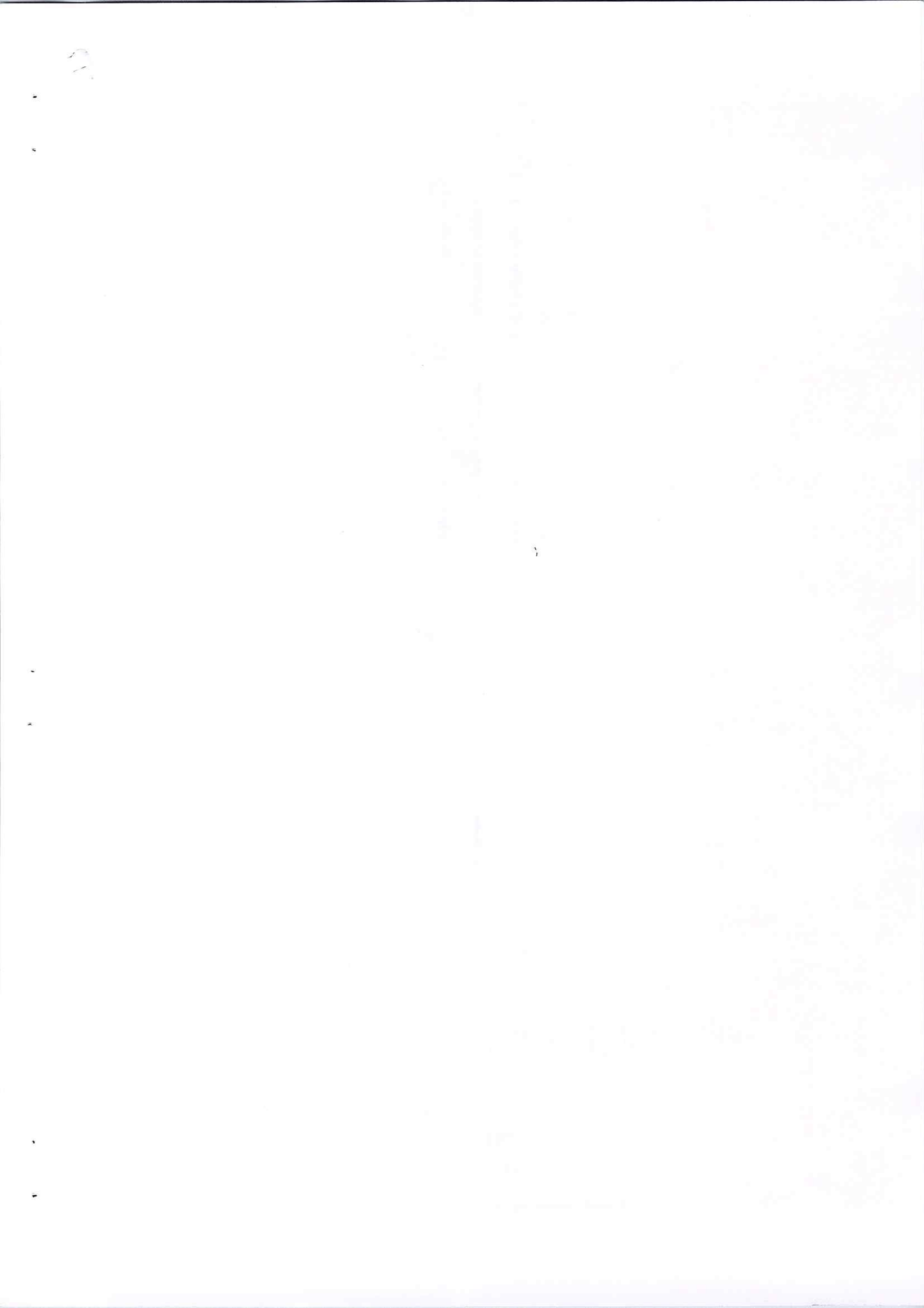
	feedback (on faculty) analysis available?					
	3. Is the feedback system effective?					
	4. Are records of action taken on feedback on facilities available?					
<b>C. Facilities for Self-Learning</b>						
	1. Does the department provide scope for self-learning?					
	2. Are all required facilities, materials, for learning beyond syllabus etc. provided to the students?					
	3. Are the facilities effectively utilized by the students?					

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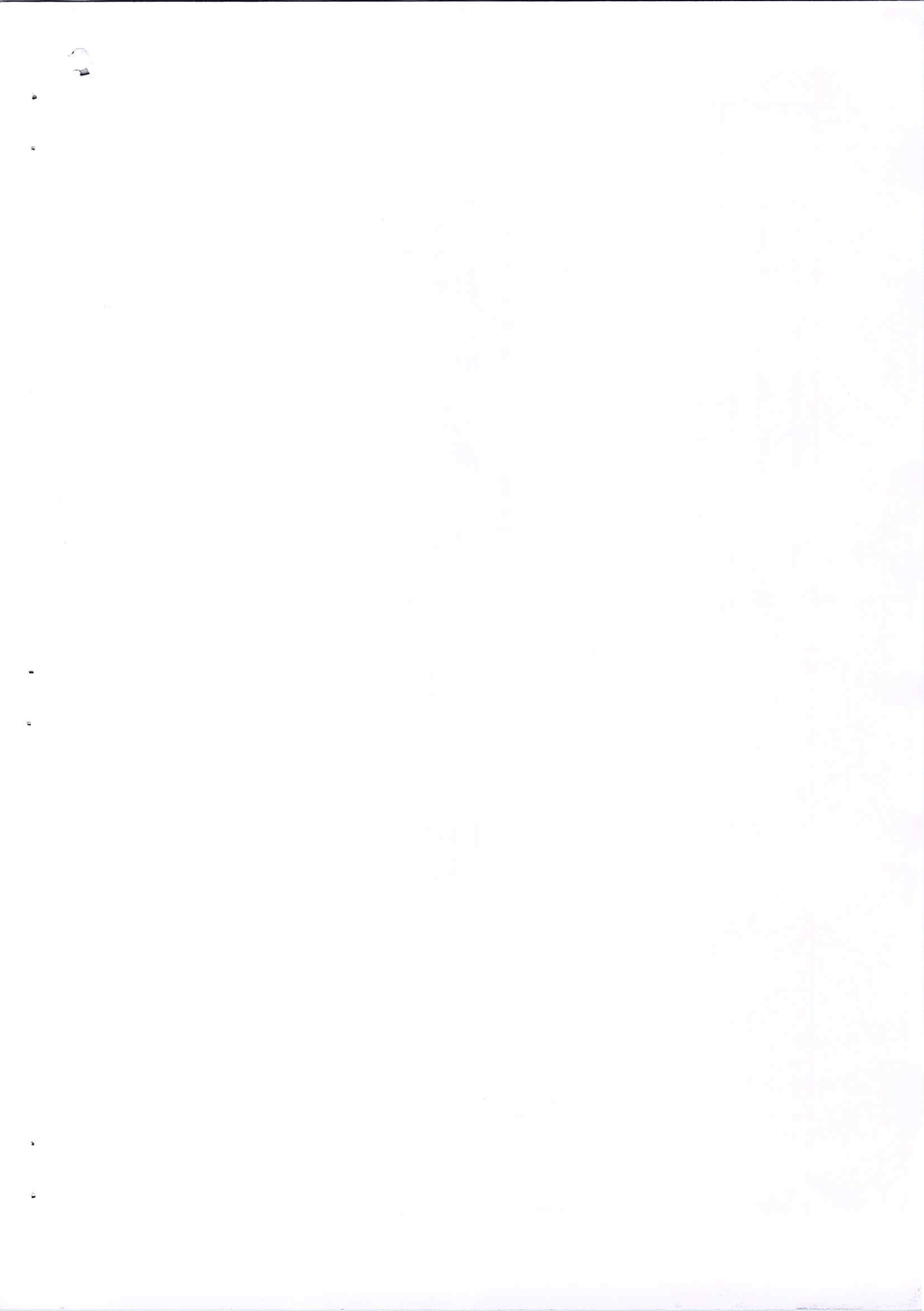




<b>D. Career guidance, training placement</b>						
1. Are career guidance facilities available?						
2. Are students counseled for higher studies?						
3. Is pre-placement training offered?						
4. Is effective placement policy framed and implemented?						
<b>E. Entrepreneurship development</b>						
1. Are initiatives for entrepreneurship development taken in the department?						
2. Number of students who benefited from entrepreneurship Development initiatives.						
<b>F. Co-curricular &amp; Extra-Curricular activities</b>						
1. Are facilities for sports and cultural activities, NCC, NSS & other clubs available?						
2. Are clubs and NSS effectively functioning?						
3. Do students conduct and participate in annual activities, like Alphamatica, Bhaswara, Vibes, Mathematical etc.						

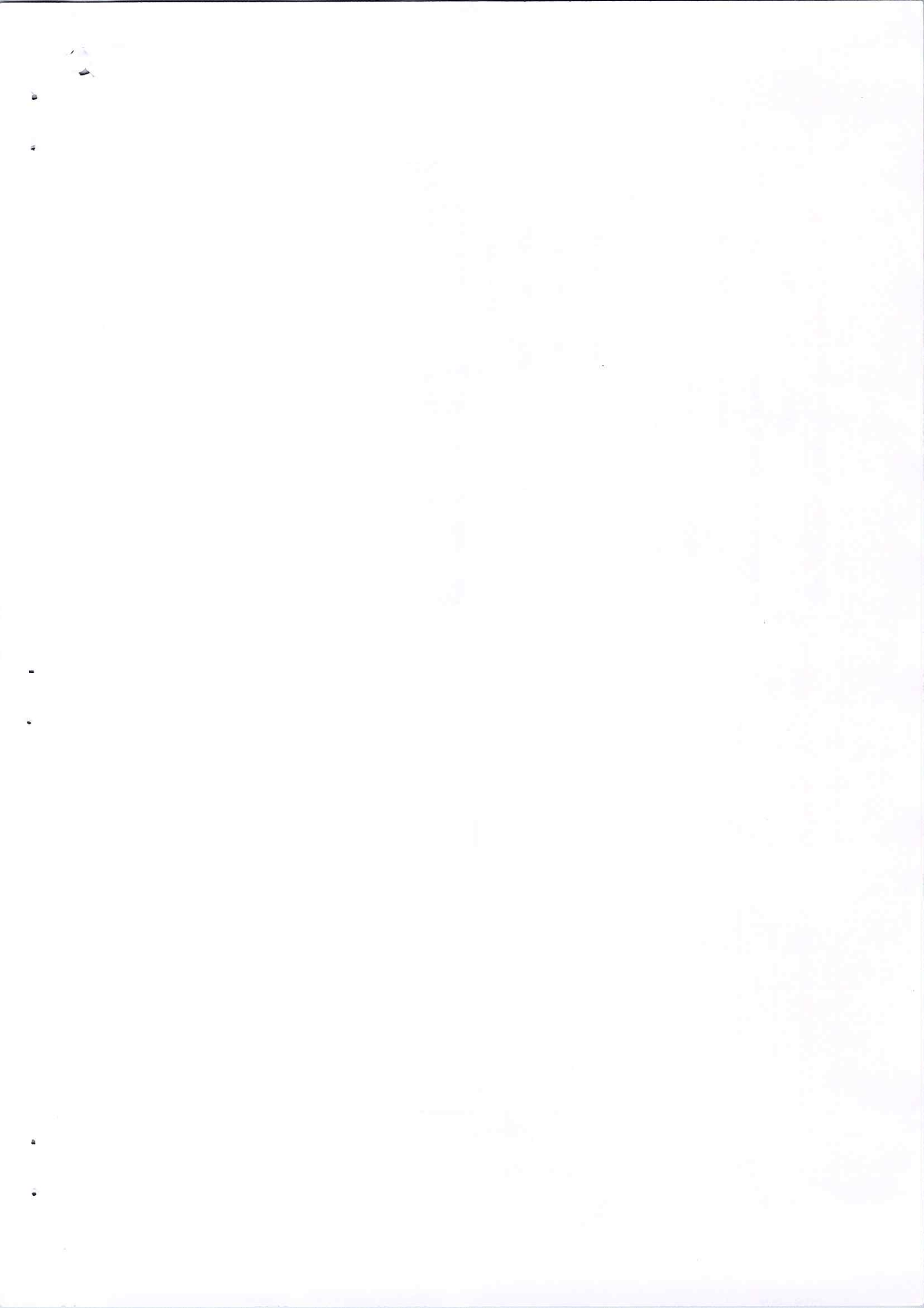


<b>X</b>	<b>Governance, Institutional Support and Financial Resources</b>					
	<b>A. Governance, Institutional Support</b>					
	1. Are vision and mission statements of Institution available on college website, Principal's Chamber, Library, Conference rooms etc?					
	2. Are the vision and mission statements appropriately defined and relevant?					
	3. Is institutional strategic plan (5 years) available?					
	4. Is there an implementation plan towards achieving the strategic objectives?					
	5. Is the strategic plan monitored effectively?					
	6. Is a Governing Body duly constituted and its meetings held regularly?					
	7. Are service rules, policies, procedures, functions and responsibilities published and uploaded on the website?					
	8. Are Minutes of Meetings of Governing Body and Academic council and Action taken reports available?					
	9. Are organizational structure and lists of administrative heads, and committees formed with powers to take administrative decisions, available?					

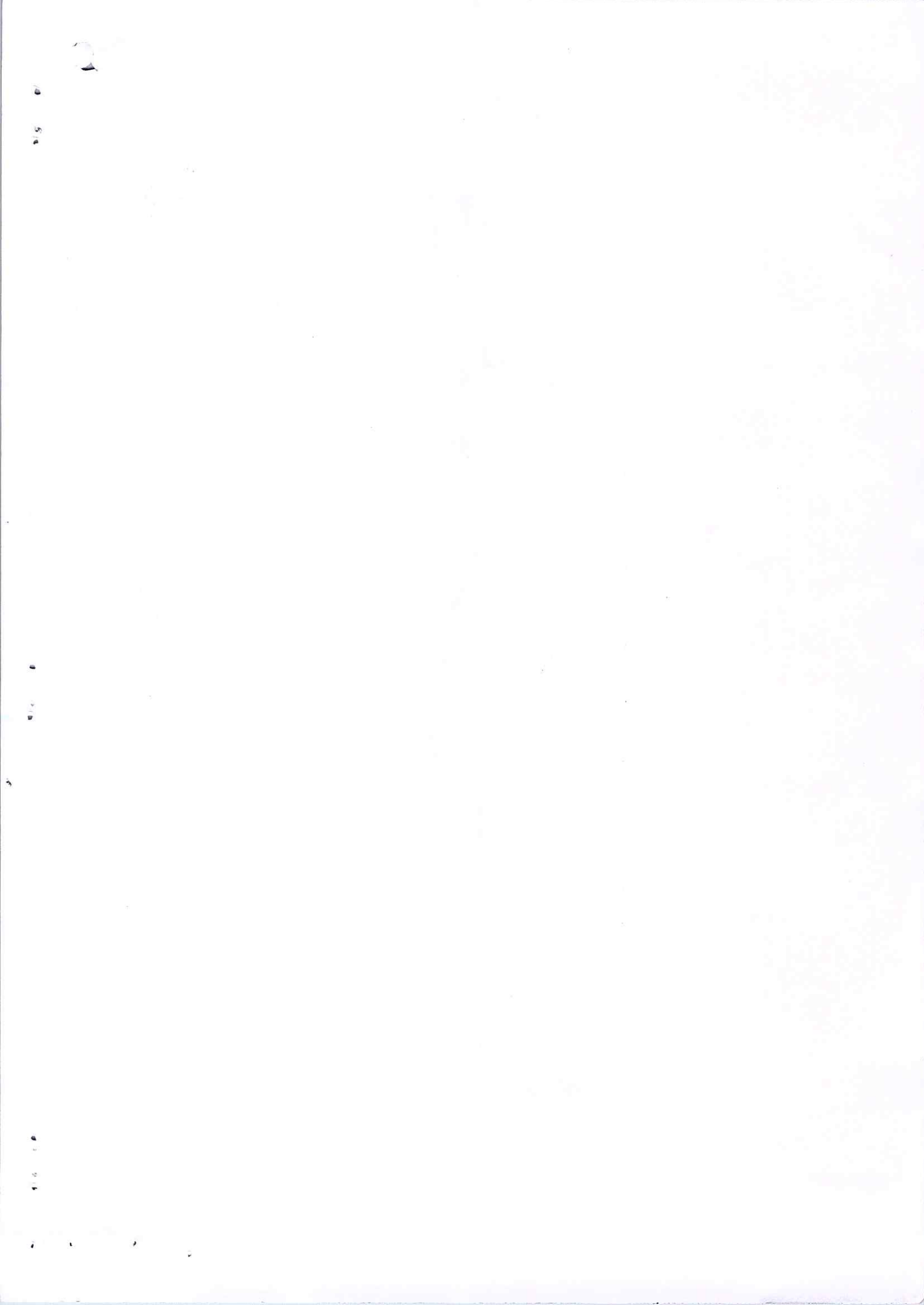




	10. Is there any Grievance redressal system in place and a cell constituted for this purpose?					
	11. Is evidence of action taken on student/staff grievances available?					
	12. Are financial powers delegated to Principal, HoDs, I/cs, documented?					
	13. Is Mandatory Disclosure as per AISHE & AICTE, placed on website?					
<b>B. Budget allocation and utilization</b>						
	1. Does the college follow a prescribed procedure for budget formulation, finalization and approval?					
	2. Is the budget allocation adequate at institutional, and program levels?					
	3. What percentage of allocated funds was utilized in the previous year by the Institution and programs?					
<b>C. Library and Internet</b>						
<b>i. Quality of learning resources</b>						
	1. Are learning resources procured as per the requirements provided by the academic departments, ensuring relevance to programs?					
	2. Are AICTE norms followed in respect of number of books & their copies procured?					
	3. Are these learning resources including E-Resources &					



	digital library, easily accessible to students?					
4.	Is adequate support given to students for self-learning activities?					
5.	Is the utilization of learning resources by students and faculty satisfactory?					
<b>ii. Internet</b>						
1.	Is the available band Width adequate?					
2.	Is Wi-Fi available in the college?					
3.	Is there internet access in labs, library, conference rooms & offices of all departments?					
4.	Is adequate security mechanism put in place for protecting the internet transactions?					





**Strengths, if any**

1. Good no. of prototypes are developed by students.
2. Good faculty retention is maintained for 2021-22.
3. Good faculty retention in the dept (Academic).
4. Good professional activities.

**Weaknesses, if any**

1. Co-~~re~~relation of CAM and PAM.
2. Industry institute interaction.
3. Quality of input students / rank.

**Concerns, if any**

1. No. of students graduated, with out backlogs must be improved.
2. Motivate students to join in higher studies.
3. Impact analysis for criterion wherever required - must be done.

**Deficiencies, if any**

1. Consultancy must be improved
2. Sponsored research must be initiated
3. Quality of Publication must be improved.

	ICT facilities?					
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Please mention

Good Practices, if any

1. Mentoring and counselling of students.
2. Good no. of Prototypes are developed by the student.
3. Well-maintained labs in the dept.
4. better safety measures in the labs.
5. Student Project allocation given is good.
6. placements are satisfactory.
7. Good no. of Professional activities.
8. Good faculty retention.
9. Good auditing process followed.

**Recommendations, if any**

1. Project lab must be provided.
2. Consultancy must be initiated.
3. R and D activities must be improved, with good R&D Policy.
4. Develop R&D lab in the dept

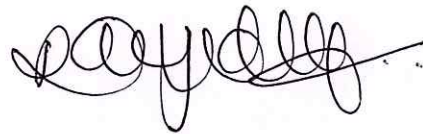
**Brief report, if any**

- pso' - must be specifically designed.
- Articulation matrix (CAM and PAM) must be improved in co-relation.
- Industry - institute interaction must be initiated and improved.
- Publications must be improved in Quality Journals.
- ratification of faculty must be taken at higher levels (like Associate / Professor).

**Suggestions for improvising the academic quality:**

1. Quality selection papers must be improved
2. Bloom taxonomy levels must be followed.
3. Mob' must be improved.
4. Bright students must be encouraged.

Signature of audit committee member:

 17/12/22

(Dr. K. Rajuulu)  
Prof. in EEE and I.T.  
SVRIT - Narsapur.

Name of the audit committee member:

Affiliation of the audit committee member:



*[Faint, illegible handwriting covering the majority of the page, possibly bleed-through from the reverse side.]*



Mech

Prof. K. Sivaramakrishna  
Mech Dept, O-21 E-C

**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
Cheeryal(V), Keesara (M), Medchal (D), Telangana state – 501 301

**ACADEMIC AND ADMINISTRATIVE AUDIT REPORT** (Mech. Engrg. Dept.)

\* Grade: A: Very Good, B: Good, C: Adequate, D: deficient

S. No	Criterion	Status		Grade	Exhibits observed	Remarks of Audit Team
		As assessed by department/institution	As observed by Audit Team			
	<b>Vision, Mission and PEOs,</b>					
I.	1. Are vision and mission statements of the department available?	Yes	Yes	A	The display boards the mission & vision to be modified as per website	
	2. Are department vision and mission statements consistent with institute statements?	Yes	Yes (70%)	B		But it can be further refined
	3. Are the PEOs available?	Yes	Yes	A	To be modified on display boards.	
	4. Does the department follow a defined process for defining vision, mission and PEOs with the participation of all stakeholders-internal and external stake holders?	Yes	Yes	B	—	Based on the feedback of Parents, External Faculty, Alumni etc.



	5. Are the vision, mission and PEOs made available on college website, department notice boards, HoD's chamber, laboratories, lab manuals, course files, and curriculum books etc?	Yes	yes	B		The new mission, vision & PEO's to be modified on display board.
	6. Are the PEOs consistent with the mission of the department indicated in matrix form with proper justification of correlation parameters?	Yes	yes	A		Proof of correlation parameters can be improved.
II.	<b>Program curriculum and Teaching-Learning (T and L) Process</b>					
	<b>Program Curriculum</b>					
	1. Does a defined process exist for design of program curriculum?	Yes	yes	A		BOS meeting
	2. Are the structure and components of curriculum well balanced and appropriate (as per AICTE Guidelines)?	Yes	yes	A		No. of credits as per AICTE and approved by BOS
	3. Is a valid process followed for mapping of curriculum with POs and PSOs?	Yes	yes	A		
	4. Is Employability a major consideration in the overall development of the curriculum	Yes	yes	B		
	<b>B. Teaching – Learning Process</b>					
	1. Is an Academic Calendar prepared and adhered to?	Yes	yes	A		
	2. Is evidence of pedagogical initiatives taken, such as collaborative learning, ICT supported teaching etc available?	Yes	yes	B		





3. Does a process exist to identify bright and weak students?	Yes	Yes	A	—	For students who score < 10 marks in internals & medical classes
4. Does the department have measures to encourage bright students with more complex tasks and motivate weak students to perform better?	Yes	Yes	A	—	Value added courses conducted
5. Does a process exist to allocate teaching load to faculty in the department?	Yes	Yes	A	—	Subject already based on edupark / design / sports
6. Do faculty in the department practice innovative TL practices such as <ul style="list-style-type: none"> <li>• Collaborative Learning Yes/No</li> <li>• Interaction with student in and outside of class obtaining Feedback Yes/No</li> <li>• Group Learning, Developing Professional Competences. Yes/No</li> <li>• Teaching through value added courses Yes/No</li> <li>• Experiential Learning that facilitates development of Problem-Solving Skills in the students through project based learning Yes/No</li> <li>• Facilitating interaction with various experts in the field through Guest Lectures; Industrial Visits, Field trips thereby making them familiar with occupational awareness. Yes/No</li> </ul>	<p>Yes</p> <p>—</p> <p>—</p> <p>Yes</p> <p>—</p> <p>—</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>	<p>B</p> <p>A</p> <p>B</p> <p><del>A</del></p> <p>C</p> <p>B</p>	<p>—</p> <p>—</p> <p>—</p> <p>—</p> <p>—</p> <p>—</p>	<p>More Collaboration with Industry / R&amp;D organizations.</p> <p>Need to be improved</p> <p>CATIA, PROE, with Industry.</p> <p>To be improved.</p> <p>More Guest lectures &amp; Industrial visits can be arranged.</p>



The following table shows the results of the experiment. The data is presented in a clear and concise manner, allowing for easy interpretation of the findings. The results are as follows:

Parameter	Value
Parameter 1	Value 1
Parameter 2	Value 2
Parameter 3	Value 3
Parameter 4	Value 4
Parameter 5	Value 5
Parameter 6	Value 6
Parameter 7	Value 7
Parameter 8	Value 8
Parameter 9	Value 9
Parameter 10	Value 10

The results of the experiment are consistent with the theoretical predictions. The data shows a clear trend, indicating that the system behaves as expected. The findings are significant and provide valuable insights into the underlying mechanisms.

7. Is student feedback on T and L process collected and acted upon?	Yes	Yes	A		Counselling to faculty who get less than 10% is taken
8. Do the experiments in laboratory support higher level of Bloom's Taxonomy?	Partially. Through PBL	To confirm extent	C		can be further improved
9. Is continuous assessment in the laboratory done systematically?	Yes	Yes	A		Every lab report is graded.
10. Is a well-defined process followed in the design and validation of question papers as well as for scheme of evaluation of mid-term and semester end examinations?	Yes	Yes	A		
11. Are questions mapped with course outcomes, and Blooms Taxonomy levels?	Yes	Yes	A		
12. Do the assignments given to students facilitate attainment of COs as well as higher levels of Bloom's Taxonomy?	Yes	Yes	A		
13. Is a well-defined process followed for identification of student projects and allocation of guide(s)?	Yes	Yes	A		A circular is issued based on specific guidelines
14. Are the projects relevant to the POs and PSOs and do they contribute to their attainments?	Yes	Yes	B		To be improved.
15. Is a well-defined process followed for monitoring and evaluation of the projects and for assessing individual and team performance?	Yes	Yes	A		Three projects review seminars are conducted.





	16. Are efforts made to encourage students to develop working prototypes based on projects and/or to publish papers?	Yes	Yes	B		3D printing prototypes to be increased. Paper publications
	17. Particulars of industry supported laboratories established, if any. Is impact analysis of industry interaction made and if, so, is action taken based on the results of the analysis?	No	NO	-		←
	18. Are students encouraged to undergo internships or summer training? If so, what is the minimum duration of internship?	Yes. 45 days	Yes 45 days	A	-	45 days including summer training
	19. Is student feedback taken on the internship experience?	Yes	Yes.	A		online feedback
	20. Is Impact analysis of internship made and action taken on the basis of the results of the analysis?		Yes	B.		Best feedback analysis to be taken
	21. Average number of days from the date of last semester-end examination till the declaration of results	About one month	Yes (college level)	A	-	Approximately 1 month to be improved.
	22. Average percentage of student complaints / grievances about evaluation against total number of students appeared in the examination during last academic year	71%	Yes	A		Students apply for reevaluation
III.	Course Outcomes and Program Outcomes					

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	1. Are COs defined for every course?	Yes	Yes	A		COs are approved through BOS meeting Based on BTL A PO-CO attainment committee formed
	2. Are COs embedded in syllabus?	Yes	Yes	A		
	3. Are course articulation matrix, program articulation matrix tables prepared?	Yes	Yes	A		
	4. Is appropriate assessment process for attainment of course outcomes followed including data collection, verification, analysis and decision making?	Yes	Yes	A		
	5. Is a well-defined process followed for determining attainment of POs and PSOs?	Yes	Yes	A		
	6. Are the records of computation of attainment of POs and PSOs maintained?	Yes	Yes	A		
	<b>Students' Performance</b>					
IV	1. Enrollment ratio		16.60-27%	—	—	—
	2. Percentage of students who graduate the program in four years, without repeat of any course?		$\frac{42}{130} = 33\%$		C	From exam all data
	3. Percentage of students graduating the program with backlogs within 4 years?		53.85%		C	From Exam all data
	4. Mean CGPA of students (who were promoted to 3 <sup>rd</sup> year) at the end of 2 <sup>nd</sup> year		5.48%		B	11
	5. Percentage of students placed in companies through on and off-campus recruitment.		$\frac{94}{100} = 94\%$ (2021-22)	Yes	A	Based on the offer letter given to students by companies



The following is a list of the names of the persons who have been  
 named in the report of the committee on the subject of the  
 proposed amendment to the constitution of the State of New York.  
 The names are listed in alphabetical order of their surnames.  
 The names of the persons who have been named in the report of the  
 committee on the subject of the proposed amendment to the constitution  
 of the State of New York are as follows:



6. Percentage of final year students admitted to higher studies	7-69.7		D.		M-S & MBA Based on the Admission letter given by university
7. Number of students turned entrepreneurs in Engineering and Technology	Nil.		D.		
8. Number of Professional societies/chapters in the department	One + 1/2	2	B		SAE
9. Number of Engineering events organized at institute at: a. Institute Level b. State Level c. National Level d. International Level	→ YES — — —	Bhaswanth (National level)			organized at college level. National
10. Does the department publish technical magazines and Newsletters?	News letter	YES.	B.		Tech Syloze
11. Are students associated in the above publications?	No	NO.	D		—
12. Number of students who participated in inter-institute events • Within state • Outside state • Number of prizes/ awards received in the events.	— —	58. 07 Nil.	A B D.		Proofs & certificates participated
<b>V</b>	<b>A. Faculty Information and Contribution</b>				
1. Student faculty ratio	1:15	122	—	A	Faculty: 27 Student: 330 (2021-22)

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2. Faculty cadre proportion	4:3:20	4:3:20	A		
3. Number of Faculty with PhD qualification	4	4	A		
4. Number of Faculty with PG Degree qualification	23	23	A		
5. Faculty retention (%) in the Current Academic Year?	77.42	77.42	A		Based on roll list & Salary sheet
6. Number of research publications of faculty in the year	02	02	D.		Scopus Indexed
7. Number of faculty who participated in FDPs, and duration of the programs.	15	15	B		Total 23 FDPs & workshops attended by above faculty.
<b>B. Research and Development</b>					
1. Number of quality research publications in refereed/Scopus indexed journals.	02	02	D		I.F - 0.72 R 2.588.
2. Number of faculty awarded PhD during the current academic year	00	00	D.		
3. Sponsored research (funded) undertaken and its value in Lakhs of Rupees.	Nil	Nil	D.		
4. Number of development activities undertaken by faculty: • Product development • Working models	Nil. 07				Fabricated during project work
5. Consultancy services offered and their value in Lakhs of Rupees.	Nil	Nil	D		
6. Does a well-defined faculty performance appraisal and development system exists and implemented?	Yes	Yes	A		Faculty self appraisal Group used Appraisal. HOD & Principal



The following table shows the results of the experiment. The data is presented in a table with columns for Time (min), Distance (m), and Velocity (m/s). The velocity is calculated as the distance divided by the time.

Time (min)	Distance (m)	Velocity (m/s)
1.0	0.5	0.5
2.0	1.0	0.5
3.0	1.5	0.5
4.0	2.0	0.5
5.0	2.5	0.5
6.0	3.0	0.5
7.0	3.5	0.5
8.0	4.0	0.5
9.0	4.5	0.5
10.0	5.0	0.5

The graph shows a linear relationship between time and distance, indicating constant velocity. The slope of the line is 0.5 m/s.



Facilities & Technical Support						
VI	1. Are well-equipped labs and technical supporting staff available?	yes				
	2. Are labs well maintained?	Yes				
	3. Are safety measures followed in the lab?	Yes				
	4. Is a project laboratory together with necessary facilities available in the department?	Yes				
Continuous Improvement						
VII	1. Are short falls and weaknesses in the program identified from the analysis of POs and PSOs attainment?	Yes	Yes	A		For 2017-2018 2018-2019
	2. Are action plans to bridge the shortfalls prepared and implemented? If so, what is the impact of the said implementation with respect to previous academic year?	Yes	Yes	A		Remedial classes and mentorship
	3. Does a criterion exist for conducting academic and administrative audit?	Yes	Yes	A		Academic Audit is done by External members
	4. Frequency of audit	Once every year	Once every year	A		
	5. Are actions taken based on audit report?	Yes	Yes	A		Based on the last yr. academic audit report
	6. a. Percentage of placements in current Academic Year b. Percentage of placements in the previous Academic		94.6% (123/130) 65% (78/120)	A		



	Year					Based on continuous training by TPO.
	c. Is there any improvement?		YES (30%)	A		
	7.					
	a. Median salary offered to students in the current academic year		Rs 3.75 lacs			
	b. Median salary offered to students in the previous academic year		Rs 5.9 lacs	D		NO Improvement Majoring in IT jobs
	c. Is there any improvement?		-2.15 lacs			
	8.					
	a. Best rank of the students admitted in the current academic year		30,130			
	b. Best rank of the students admitted in the previous academic year		38,091	B		Based on EAMCET admits
	c. Is there any improvement?		YES			Data from Adm. Office
	9.					
	a. Highest rank (in the qualifying examination) of student admitted in the current Academic Year		1,18,944			
	b. Highest rank (in the qualifying examination) of student admitted in the previous Academic year?		85,857	C		
	c. Is there any improvement?		NO			
<b>VIII</b>	<b>First Year Academics</b>					





	1. First year student faculty ratio					
	2. Number of faculty teaching first year, with PhD qualification					
	3. Number of faculty teaching first year with PG qualification					
	4. Percentage of students who qualified for promotion to 2 <sup>nd</sup> year from end examinations of first year					
	5. Mean CGPA/percentage of students (who were promoted to Second year) at the end of First year.					
	6. Is a proper assessment process used for determining the attainment of course outcomes?					
	7. Is a proper assessment process used for determining the attainment of relevant POs and PSOs					
	8. Are records of computation of attainment of COs of all first-year courses available?					
	9. Are records of computation of attainment of relevant POs & PSOs of all first-year courses available?					
	10. Are actions taken based on the results of evaluation of POs and PSOs?					
<b>IX</b>	<b>Student Support Systems</b>					
	<b>A. Mentoring System</b>					
	1. Is a comprehensive mentoring system at individual	Yes	Yes	A		

*RISDAH*  
*Weekly Mentoring*  
*Mentor's report*



level in place for professional guidance, career advancement and all-round development?	-	-	-	-	-
2. Is the mentoring system implemented? If yes, Number of students per mentor	Yes 10-20	Yes 10-20	A		Faculty All subject circulars for mentoring
3. Is the mentoring system effective?	Yes	Yes	A		Mentoring during
<b>B. Student feedback on faculty and facilities.</b>					
1. Does a student feedback system exist?	Yes	Yes	A		online & offline CRC
2. Are the records of action taken on the results of feedback (on faculty) analysis available?	Yes	Yes	A		
3. Is the feedback system effective?	Yes	Yes	A		
4. Are records of action taken on feedback on facilities available?	Yes	Yes			Counseling given by HOD & group heads
<b>C. Facilities for Self-Learning</b>					
1. Does the department provide scope for self-learning?	Yes	Yes	A		NPTEL & MOOC'S videos
2. Are all required facilities, materials, for learning beyond syllabus etc. provided to the students?	Yes	Yes	A		Digital library, Department Library
3. Are the facilities effectively utilized by the students?	Partially	Not <del>utilized</del> effectively	C		Students to be motivated.
<b>D. Career guidance, Training and Placement</b>					
<b>Career Guidance</b>					
1. Does the college have a Career Guidance or Counseling Cell?		Yes	B		TCS team etc.
2. If yes, how many students have been utilizing these		63	B		



*[Faint, illegible handwriting visible through the paper, likely bleed-through from the reverse side.]*



services?					
3. How many Career Guidance programs have been conducted in each year?		4			
4. How many number of students attended these career guidance programs?		70			CE Java, verbal, TCS Aptitude.
5. Are students counseled for higher studies?		Yes			Mentorship
6. Does the College have Academic links/ collaborations/MoU, etc with other institutes of higher learning?		Yes			IIT JAM skills, CENTER-CADD Debraj kumar
<b>Training and Placements</b>					
1. Does the college conduct any pre placement training for students' placements?		Yes			FROM 5th BY TPO.
2. Is effective placement policy framed and implemented?					
3. If yes, then specify the number of hours, areas in which training is imparted.					
4. Does the placement cell maintain the record of job opportunities available for students?					
5. Did the college organize any company/Industrial visits or guidance camp for students?					
6. If yes, number of such visits/camps organized					
7. Are the students provided computers and Internet to					



	search for job, to download application forms or to register for placements drive of the companies etc?					
	8. Does the college subscribe to magazines like Employment News, Rojgar Samachar etc? If yes, give names of magazines.					
	9. Does the college have a system of registering students at the Employment office of the GoI?					
	<b>NSS Activities/Student Clubs/Alumni Association</b>					
	1. Are clubs and NSS effectively functioning?					
	2. Do students conduct and participate in annual co-curricular and extra-curricular activities. If yes, please mention % of students participate in such activities:					
	3. Does the college have a registered and functional Alumni Association? If yes, give number of students enrolled					
	4. Specify Activities of Alumni Association					
	<b>Governance, Institutional Support and Financial Resources</b>					
	<b>A. Governance, Institutional Support</b>					
X	1. Are vision and mission statements of Institution available on college website, Principal's Chamber, Library, Conference rooms etc?					





2. Are the vision and mission statements appropriately defined and relevant?					
3. Is institutional strategic plan (5 years) available?					
4. Is there an implementation plan towards achieving the strategic objectives?					
5. Is the strategic plan monitored effectively?					
6. Is a Governing Body duly constituted and its meetings held regularly?					
7. Are service rules, policies, procedures, functions and responsibilities published and uploaded on the website?					
8. Are Minutes of Meetings of Governing Body and Academic council and Action taken reports available?					
9. Are organizational structure and lists of administrative heads, and committees formed with powers to take administrative decisions, available?					
10. Is there any Grievance redressal system in place and a cell constituted for this purpose?					
11. Is evidence of action taken on student/staff grievances available?					
12. Are financial powers delegated to Principal, HoDs, I/cs, documented?					



13. Is Mandatory Disclosure as per AISHE & AICTE, placed on website?					
14. What are institutional practices for integrating IT? (i)Administration (ii)Finance and Accounts (iii)Examination					
<b>B. Budget allocation and utilization</b>					
1. Does the college follow a prescribed procedure for budget formulation, finalization and approval?					
2. Is the budget allocation adequate at institutional, and program levels?					
3. What percentage of allocated funds was utilized in the previous year by the Institution and programs?					
<b>C. Library and Internet</b>					
<b>i. Quality of learning resources</b>					
1. Are learning resources procured as per the requirements provided by the academic departments, ensuring relevance to programs?					
2. Are AICTE norms followed in respect of number of books & their copies procured?					
3. Are these learning resources including E-Resources & digital library, easily accessible to students?					





4. Is adequate support given to students for self-learning activities?					
5. Is the utilization of learning resources by students and faculty satisfactory?					
<b>ii. Internet</b>					
1. Is the available band Width adequate?					
2. Is Wi-Fi available in the college?					
3. Is there internet access in labs, library, conference rooms & offices of all departments?					
4. Is adequate security mechanism put in place for protecting the internet transactions?					
<b>iii. Infrastructural facilities and ambience</b>					
1. Is Campus ambience exemplary /Good / Satisfactory/ Unsatisfactory?		GOOD	A		
2. Is Office Space ambience exemplary/Good/ Satisfactory/Unsatisfactory?		YES	A		
3. Are washrooms well maintained?		YES	A		
4. Is adequate parking facility available?		YES	A		
5. Are individual Staff rooms available with IT facility?		SEPARATE COUNSELING	A		
6. Are staff rooms well maintained?		YES	A		
7. Is Potable Water facility available?		YES	A		
8. Is Power Backup facility available?		YES	A		



If so, specify the capacity					
9. Does the Institute have facilities for alternate sources of energy like: (i) Solar energy (ii) Wheeling to the Grid (iii) Use of LED Bulbs					
10. Does the Institute have Rain water harvesting pits?					
11. Does the institute take any Green campus initiatives such as: (i) Restricted entry of automobiles (ii) Pedestrian friendly path ways (iii) Landscaping with trees and plants					
12. Does the Institute provide any facility for Disabled/Divyangjan persons easy access to classrooms and Labs?					
13. Does the institute organize National/International commemorative days, events and festivals?					
14. Do Seminar halls have adequate ICT facilities?					
15. Is transportation available for students and staff?					
16. Is the Canteen maintained as per Food Safety and Standards Act?					
17. Is Auditorium/Assembly Hall available with all ICT facilities?					





Please mention

Good Practices, if any

1. Every year regular Academic Audit
2. Good campus & Department Ambience
3. Good usage of ICT technology for teaching
4. Student Mentoring ~~to be improved~~ is good but can be improved further.

↓  
CAZSM



1

**Strengths, if any**

1. Good qualified faculty. Average experience of faculty 19 Yrs.
2. Documentation of various activities.
3. Labs are equipped well.
4. Faculty student ratio adequate

**Weaknesses, if any**

1. Results of passing out students is less
2. Very less research paper publications.
3. Less Industry Institute interaction

**Concerns, if any**

1. Less number of students joining the course.
2. Project based learning to be improved
3. Average package offered to students is less.
- ④ Rehabilitation of Faculty at all levels to be done by university.

**Deficiencies, if any**

1. NO R & D and consultancy work.
2. ~~Less~~ less no. of continuous training programmes / workshops / conferences are done by dept.
3. NO PG programmes. ⑤ Question paper and ⑥ credit transfer for Swayam - MOOC's courses can be allowed.
- ④ Open electives can be improved. ⑤ NO incubation centre for startups



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**Recommendations, if any**

1. Research paper publications & R&D activities to be improved.
2. The dept. need to conduct workshops and organize guest lecture
3. to improve collaboration with other ~~to~~ Institutes and Industry.

**Brief report, if any**


① Overall the department has good infrastructure and qualified faculty ② The documentation is good and labs are maintained well ③ Best necessary steps to be taken for improving the pass percentage, ~~the~~ average package & placements. ④ R&D projects to be improved.

**Suggestions for improving the academic quality:**

- ① The facilities in the lab can be used for generating
  2. IRG like offering CAD lab and digital manufacturing lab
  3. for ~~product~~ based services ② Mentoring of students to be improved. ③ Professional society affiliation to be improved.
- Overall rating — 85% for dept.

Signature of audit committee member:

Name of the audit committee member:

  
Dr. L. Siva Rama Krishna, Professor  
Dept. of Mech. Engg., UCE, OU.



Affiliation of the audit committee member:

Dept. of Mechanical Engineering,  
University College of Engineering,  
Osmania University, Hyd-7.





FCE

Prof. B.K. Nallakurani  
PRL, Sarder's Women's College

**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
Cheeryal(V), Keesara (M), Medchal (D), Telangana state – 501 301

**ACADEMIC AND ADMINISTRATIVE AUDIT REPORT**

Over all 85% up to  
7<sup>th</sup> criteria

\* Grade: A: Very Good, B: Good, C: Adequate, D: deficient

S. No	Criterion	Status		Grade	Exhibits observed	Remarks of Audit Team
		As assessed by department/institution	As observed by Audit Team			
I.	<b>Vision, Mission and PEOs,</b>				✓	
	1. Are vision and mission statements of the department available?	✓			✓	
	2. Are department vision and mission statements consistent with institute statements?	✓	✓		✓	all stakeholders
	3. Are the PEOs available?	✓	✓		✓	
	4. Does the department follow a defined process for defining vision, mission and PEOs with the participation of all stakeholders-internal and external stake holders?				✓	

	5. Are the vision, mission and PEOs made available on college website, department notice boards, HoD's chamber, laboratories, lab manuals, course files, and curriculum books etc?				✓	
	6. Are the PEOs consistent with the mission of the department indicated in matrix form with proper justification of correlation parameters?	<del>A</del>			✓ A	
<b>Program curriculum and Teaching-Learning (T and L) Process</b>						
<b>Program Curriculum</b>						
II.	1. Does a defined process exist for design of program curriculum?				✓	
	2. Are the structure and components of curriculum well balanced and appropriate (as per AICTE Guidelines)?				✓	
	3. Is a valid process followed for mapping of curriculum with PEOs and PSOs?				✓	
	4. Is Employability a major consideration in the overall development of the curriculum				✓	
<b>B. Teaching – Learning Process</b>						
	1. Is an Academic Calendar prepared and adhered to?				✓	
	2. Is evidence of pedagogical initiatives taken, such as collaborative learning, ICT supported teaching etc available?				✓	

Result → performance  
 No - FB  
 Explanation.

3. Does a process exist to identify bright and weak students?				✓	
4. Does the department have measures to encourage bright students with more complex tasks and motivate weak students to perform better?				✓	
5. Does a process exist to allocate teaching load to faculty in the department?				✓	
6. Do faculty in the department practice innovative TL practices such as <ul style="list-style-type: none"> <li>• Collaborative Learning Yes/No</li> <li>• Interaction with student in and outside of class obtaining Feedback Yes/No</li> <li>• Group Learning, Developing Professional Competences. Yes/No</li> <li>• Teaching through value added courses Yes/No</li> <li>• Experiential Learning that facilitates development of Problem-Solving Skills in the students through project based learning Yes/No</li> <li>• Facilitating interaction with various experts in the field through Guest Lectures, Industrial Visits, Field trips thereby making them familiar with occupational awareness. Yes/No</li> </ul>				✓ ✓ ✓ ✓ ✓ ✓	



Internships → VAC

7. Is student feedback on T and L process collected and acted upon?				✓	
8. Do the experiments in laboratory support higher level of Bloom's Taxonomy?				✓	
9. Is continuous assessment in the laboratory done systematically?				✓	
10. Is a well-defined process followed in the design and validation of question papers as well as for scheme of evaluation of mid-term and semester end examinations?				EP Section No.	
11. Are questions mapped with course outcomes, and Blooms Taxonomy levels?				✓	
12. Do the assignments given to students facilitate attainment of COs as well as higher levels of Bloom's Taxonomy?				NO =	
13. Is a well-defined process followed for identification of student projects and allocation of guide(s)?				✓	
14. Are the projects relevant to the POs and PSOs and do they contribute to their attainments?				✓	
15. Is a well-defined process followed for monitoring and evaluation of the projects and for assessing individual and team performance?				✓	

In Team  
Individual  
assessment



B

16. Are efforts made to encourage students to develop working prototypes based on projects and/or to publish papers?		Working/males Project	15% publish	
17. Particulars of industry supported laboratories established, if any. Is impact analysis of industry interaction made and if so, is action taken based on the results of the analysis?	—	—	—	<u>no</u>
18. Are students encouraged to undergo internships or summer training? If so, what is the minimum duration of internship?			✓ 4 weeks.	
19. Is student feedback taken on the internship experience?			✓	
20. Is Impact analysis of internship made and action taken on the basis of the results of the analysis?			✓	
21. Average number of days from the date of last semester-end examination till the declaration of results			I sem 46 days II sem 58 days	
22. Average percentage of student complaints / grievances about evaluation against total number of students appeared in the examination during last academic year	<del>B</del>		I - 10.2% II - 4.1%	<u>RERV</u> — challenge reevaluation
<b>III. Course Outcomes and Program Outcomes</b>				
1. Are COs defined for every course?			✓	

~~B~~

?

5 Dec 21

A

	2. Are COs embedded in syllabus?				✓	
	3. Are course articulation matrix, program articulation matrix tables prepared?				✓	
	4. Is appropriate assessment process for attainment of course outcomes followed including data collection, verification, analysis and decision making?				✓	
	5. Is a well-defined process followed for determining attainment of POs and PSOs?				✓	
	6. Are the records of computation of attainment of POs and PSOs maintained?		A		✓	
<b>Students' Performance</b>						
IV	1. Enrollment ratio				257/258	2021-22
	2. Percentage of students who graduate the program in four years, without repeat of any course?				97/264	2018-22 <i>8 yk attend</i>
	3. Percentage of students graduating the program with backlogs within 4 years?		<i>51 yk to</i>		116/264	213/264
	4. Mean CGPA of students (who were promoted to 3 <sup>rd</sup> year) at the end of 2 <sup>nd</sup> year				6.07.	
	5. Percentage of students placed in companies through on and off-campus recruitment.			<i>on off</i>	225/264	<i>single off in Airport</i>
	6. Percentage of final year students admitted to higher studies				26/264.	

264  
6 97  
167  
416  
11

97/264  
116/167

116  
97  
213



7. Number of students turned entrepreneurs in Engineering and Technology	—	—	—	—	
8. Number of Professional societies/chapters in the department	KECC ICTE	ISTE	—	less.	
9. Number of Engineering events organized at institute at:		→ project		expo	
a. Institute Level	— 4				
b. State Level	—				
c. National Level	— } 19				
d. International Level	— 01				
10. Does the department publish technical magazines and Newsletters?		✓ In Technical Magazines year is not mentioned			Newsletters semester wise
11. Are students associated in the above publications?	8 (Edi (onid based)			- 25 -	
12. Number of students who participated in inter-institute events					
• Within state	1200 (P)				
• Outside state	23 (P)				
• Number of prizes/ awards received in the events.	120				
<b>V A. Faculty Information and Contribution</b>					
1. Student faculty ratio	16.18:1				
2. Faculty cadre proportion	4:7:38				
3. Number of Faculty with Ph.D qualification	12				

B

B

4. Number of Faculty with PG Degree qualification	37				
5. Faculty retention (%) in the Current Academic Year?	41/48	85.41			
6. Number of research publications of faculty in the year	40(J)	3(C)			
7. Number of faculty who participated in FDPs, and duration of the programs.	40.	min	3days	—	8days
<b>B. Research and Development</b>					
1. Number of quality research publications in refereed/Scopus indexed journals.	36 (Scopus) 2 SCI	4 (UGC)			
2. Number of faculty awarded PhD during the current academic year	—				
3. Sponsored research (funded) undertaken and its value in Lakhs of Rupees.	1 (DRDO)	45.81L	PI SVK	co I Siv Kumar	} April - 2018. 3Y PM Scopus 2022
4. Number of development activities undertaken by faculty: • Product development • Working models	10 20				
5. Consultancy services offered and their value in Lakhs of Rupees.	1	4L	2021 - June	2022 - May	} comp-
6. Does a well-defined faculty performance appraisal and development system exists and implemented?	evaluated in completed Proforma.				
<b>VI Facilities &amp; Technical Support</b>					
1. Are well-equipped labs and technical supporting staff	9-labtech				

3/3



A

	available?					
	2. Are labs well maintained?					
	3. Are safety measures followed in the lab?				✓	
	4. Is a project laboratory together with necessary facilities available in the department?				✓	
	<b>Continuous Improvement</b>					
VII	1. Are short falls and weaknesses in the program identified from the analysis of POs and PSOs attainment?				✓	
	2. Are action plans to bridge the shortfalls prepared and implemented? If so, what is the impact of the said implementation with respect to previous academic year?				✓	
	3. Does a criterion exist for conducting academic and administrative audit?				✓	
	4. Frequency of audit					once in year
	5. Are actions taken based on audit report?				✓	
	6.					
	a. Percentage of placements in current Academic Year				226/264	85.6% Single affw
b. Percentage of placements in the previous Academic Year				197/259	76.06%	
c. Is there any improvement?				yes		

A

7.	a. Median salary offered to students in the current academic year	2021-22	4		
	b. Median salary offered to students in the previous academic year	2020-21	3.6		
	c. Is there any improvement?		✓		
8.	a. Best rank of the students admitted in the current academic year	2021-22	9499		
	b. Best rank of the students admitted in the previous academic year	2020-21	9485		diff 14
	c. Is there any improvement?		✓ almost same		

9.	a. Highest rank (in the qualifying examination) of student admitted in the current Academic Year	2021-22	69,734		
	b. Highest rank (in the qualifying examination) of student admitted in the previous Academic year?	2020-21	28,105		
	c. Is there any improvement?		✓	too much diff	

VIII	<b>First Year Academics</b>				
	1. First year student faculty ratio				
	2. Number of faculty teaching first year, with PhD qualification				

	3. Number of faculty teaching first year with PG qualification					
	4. Percentage of students who qualified for promotion to 2 <sup>nd</sup> year from end examinations of first year					
	5. Mean CGPA/percentage of students (who were promoted to Second year) at the end of First year.					
	6. Is a proper assessment process used for determining the attainment of course outcomes?					
	7. Is a proper assessment process used for determining the attainment of relevant POs and PSOs					
	8. Are records of computation of attainment of COs of all first-year courses available?					
	9. Are records of computation of attainment of relevant POs & PSOs of all first-year courses available?					
	10. Are actions taken based on the results of evaluation of POs and PSOs?					
	<b>Student Support Systems</b>					
	<b>A. Mentoring System</b>					
<b>IX</b>	1. Is a comprehensive mentoring system at individual level in place for professional guidance, career advancement and all-round development?					
	2. Is the mentoring system implemented? If yes, Number of students per mentor					



3. Is the mentoring system effective?					
<b>B. Student feedback on faculty and facilities.</b>					
1. Does a student feedback system exist?					
2. Are the records of action taken on the results of feedback (on faculty) analysis available?					
3. Is the feedback system effective?					
4. Are records of action taken on feedback on facilities available?					
<b>C. Facilities for Self-Learning</b>					
1. Does the department provide scope for self-learning?					
2. Are all required facilities, materials, for learning beyond syllabus etc. provided to the students?					
3. Are the facilities effectively utilized by the students?					
<b>D. Career guidance, Training and Placement</b>					
<b>Career Guidance</b>					
1. Does the college have a Career Guidance or Counseling Cell?					
2. If yes, how many students have been utilizing these services?					
3. How many Career Guidance programs have been conducted in each year?					
4. How many number of students attended these career					



guidance programs?					
5. Are students counseled for higher studies?					
6. Does the College have Academic links/ collaborations/MoU, etc with other institutes of higher learning?					
<b>Training and Placements</b>					
1. Does the college conduct any pre placement training for students' placements?					
2. Is effective placement policy framed and implemented?					
3. If yes, then specify the number of hours, areas in which training is imparted.					
4. Does the placement cell maintain the record of job opportunities available for students?					
5. Did the college organize any company/Industrial visits or guidance camp for students?					
6. If yes, number of such visits/camps organized					
7. Are the students provided computers and Internet to search for job, to download application forms or to register for placements drive of the companies etc?					
8. Does the college subscribe to magazines like Employment News, Rojgar Samachar etc? If yes, give names of magazines.					

	9. Does the college have a system of registering students at the Employment office of the GoI?					
	<b>NSS Activities/Student Clubs/Alumni Association</b>					
	1. Are clubs and NSS effectively functioning?					
	2. Do students conduct and participate in annual co-curricular and extra-curricular activities. If yes, please mention % of students participate in such activities:					
	3. Does the college have a registered and functional Alumni Association? If yes, give number of students enrolled					
	4. Specify Activities of Alumni Association					
	<b>Governance, Institutional Support and Financial Resources</b>					
	<b>A. Governance, Institutional Support</b>					
X	1. Are vision and mission statements of Institution available on college website, Principal's Chamber, Library, Conference rooms etc?					
	2. Are the vision and mission statements appropriately defined and relevant?					
	3. Is institutional strategic plan (5 years) available?					
	4. Is there an implementation plan towards achieving the strategic objectives?					

5. Is the strategic plan monitored effectively?					
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7. Are service rules, policies, procedures, functions and responsibilities published and uploaded on the website?					
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9. Are organizational structure and lists of administrative heads, and committees formed with powers to take administrative decisions, available?					
10. Is there any Grievance redressal system in place and a cell constituted for this purpose?					
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12. Are financial powers delegated to Principal, HoDs, I/cs, documented?					
13. Is Mandatory Disclosure as per AISHE & AICTE, placed on website?					
14. What are institutional practices for integrating IT? (i)Administration (ii)Finance and Accounts (iii)Examination					



**B. Budget allocation and utilization**

1. Does the college follow a prescribed procedure for budget formulation, finalization and approval?					
2. Is the budget allocation adequate at institutional, and program levels?					
3. What percentage of allocated funds was utilized in the previous year by the Institution and programs?					

**C. Library and Internet****i. Quality of learning resources**

1. Are learning resources procured as per the requirements provided by the academic departments, ensuring relevance to programs?					
2. Are AICTE norms followed in respect of number of books & their copies procured?					
3. Are these learning resources including E-Resources & digital library, easily accessible to students?					
4. Is adequate support given to students for self-learning activities?					
5. Is the utilization of learning resources by students and faculty satisfactory?					

**ii. Internet**

1. Is the available band Width adequate?					
--	--	--	--	--	--



2. Is Wi-Fi available in the college?					
3. Is there internet access in labs, library, conference rooms & offices of all departments?					
4. Is adequate security mechanism put in place for protecting the internet transactions?					
<b>iii. Infrastructural facilities and ambience</b>					
1. Is Campus ambience exemplary /Good / Satisfactory/ Unsatisfactory?					
2. Is Office Space ambience exemplary/Good/ Satisfactory/Unsatisfactory?					
3. Are washrooms well maintained?					
4. Is adequate parking facility available?					
5. Are individual Staff rooms available with IT facility?					
6. Are staff rooms well maintained?					
7. Is Potable Water facility available?					
8. Is Power Backup facility available? If so, specify the capacity					
9. Does the Institute have facilities for alternate sources of energy like: (i) Solar energy (ii) Wheeling to the Grid (iii) Use of LED Bulbs					

10. Does the Institute have Rain water harvesting pits?					
11. Does the institute take any Green campus initiatives such as: (i)Restricted entry of automobiles (ii)Pedestrian friendly path ways (iii)Landscaping with trees and plants					
12. Does the Institute provide any facility for Disabled/Divyangjan persons easy access to classrooms and Labs?					
13. Does the institute organize National/International commemorative days, events and festivals?					
14. Do Seminar halls have adequate ICT facilities?					
15. Is transportation available for students and staff?					
16. Is the Canteen maintained as per Food Safety and Standards Act?					
17. Is Auditorium/Assembly Hall available with all ICT facilities?					

Please mention

Good Practices, if any

1. C1 - A

2. C2 - B

3. C3 - A

4. C4 - B

5. C5 - B

6. C6 - A

C7 - A

Best practices:

→ Lab manuals

→ Website

→ Academic audit

C1 → Poor involvement of stakeholders. NO NO

C2 - Result ~~and~~ analysis - FB - Explanation for Poor result - No Explanation - Not maintained -

- need improvement in QP, setting & Assignment with BT levels. 18

- Identification of poor & weak students is to be improved.

**Strengths, if any**

1. Well maintained Labs
2. Good IEEE Participation
3. Good CO-PO attainment.

4. Good placements (Needs Improvement in Package)
5. Good Mentor Mentee procedure for faculty. But Not for Students.

**Weaknesses, if any**

1. ISTE membership is less.
2. IETE Events organisation is poor
3. Internship files can be maintained in a better way with offer letters / impact analysis

5. eJournals.

**Concerns, if any**

1. challenge reevaluation can be included.
2. QP/Assignments setting can be better
3. Performance Appraisal <sup>Evaluation</sup> can be improved

4. Contribution of Stakeholders.
5. well diff defined measures for the improvisation of Concerns.
6. poor pass percentage in single attempt

**Deficiencies, if any**

1. No industry supported Labs.
2. poor Consultancy projects (Sponsored)
3. Entrepreneurs - ~~Nil~~ NIL.
4. R&D - poor.

M. Mallu



**Recommendations, if any**

1. Question paper and ~~and~~ Assignment setting evaluation
2. Industry Supported Labs.
- 3.

**Brief report, if any**

upto 7<sup>th</sup> criteria — 85%.

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**Suggestions for improvising the academic quality:**

1. Evaluation of VAE
2. Evaluation of Performance appraisal
3. TASK Registration.

**Signature of audit committee member:**

M. Mallik 17/12/2022

**Name of the audit committee member:**

Dr. B. L. Malleswari

**Affiliation of the audit committee member:**

Principal of Sridevi Women's Engg college, Hyderabad.



CSE

Dr. Aruna Varanasi  
PCSE, SNIST

GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY  
Cheeryal(V), Keesara (M), Medchal (D), Telangana state – 501 301

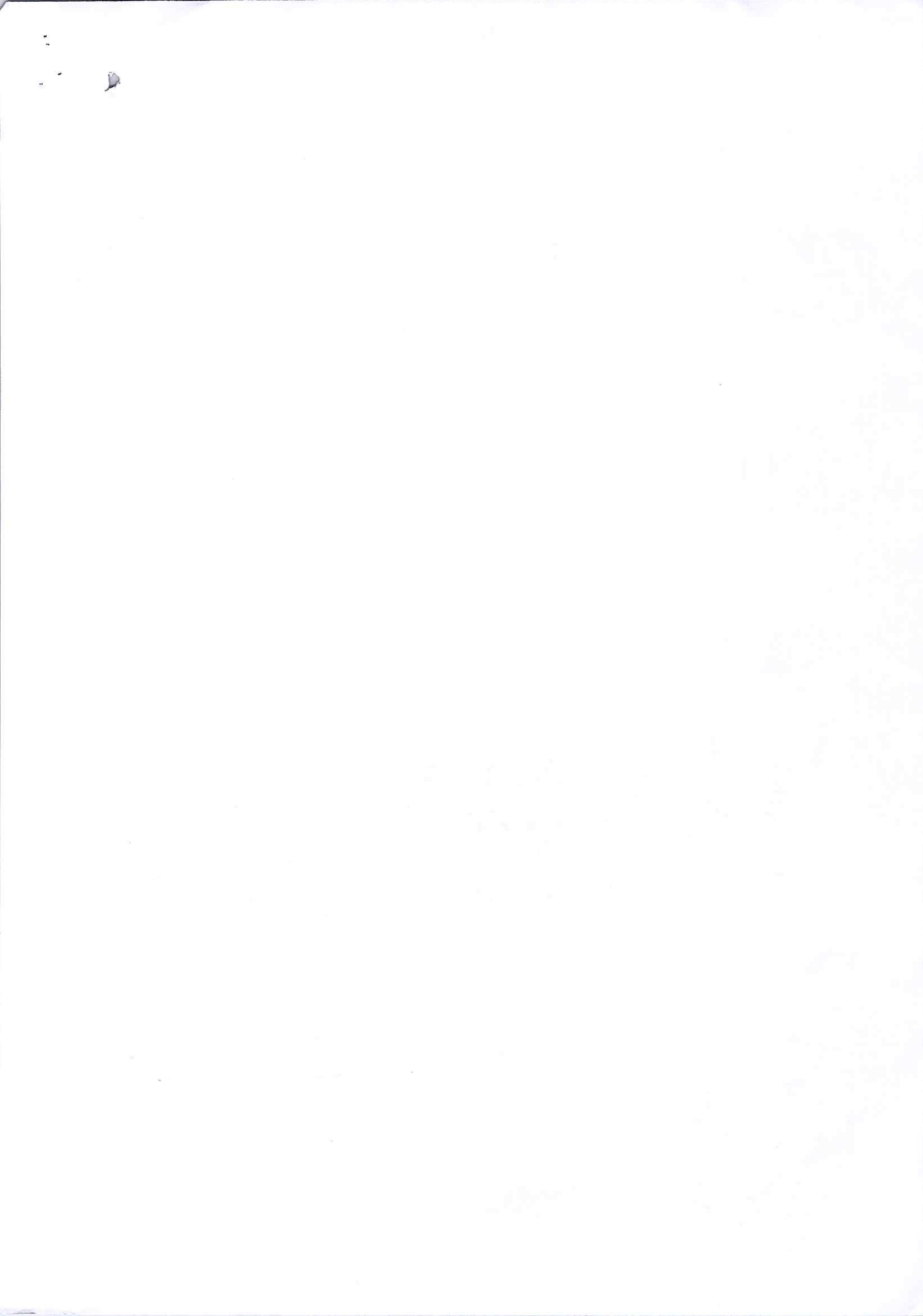
ACADEMIC AND ADMINISTRATIVE AUDIT REPORT OF A. Y.-2021-22

\* Grade: A: Very Good, B: Good, C: Adequate, D: deficient

S. No	Criterion	Status		Grade	Exhibits observed	Remarks of Audit Team
		As assessed by department/ institution	As observed by Audit Team			
I.	Vision, Mission and PEOs,					
	1. Are vision and mission statements of the department available?	Yes	yes	A		
	2. Are department vision and mission statements consistent with institute statements?	Yes	yes	A		
	3. Are the PEOs available?	Yes	yes	B		
	4. Does the department follow a defined process for defining vision, mission and PEOs with the participation of all stakeholders-internal and external stake holders?	Yes	partial	C		Stake holder involvement is partial.

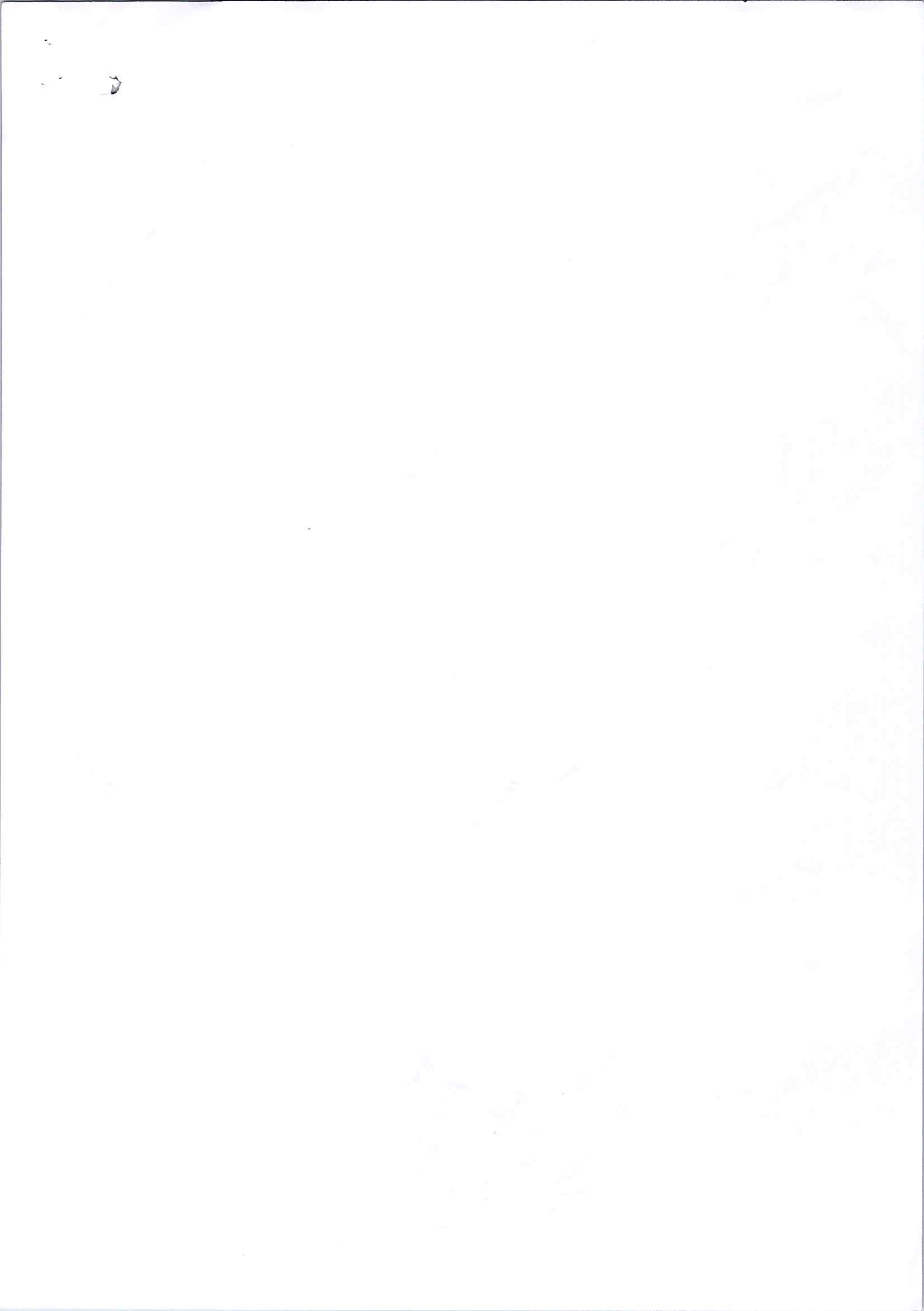


	5. Are the vision, mission and PEOs made available on college website, department notice boards, HoD's chamber, laboratories, lab manuals, course files, and curriculum books etc?	Yes	Yes	A		college website lab manuals are good
	6. Are the PEOs consistent with the mission of the department indicated in matrix form with proper justification of correlation parameters?	Yes	Justification is missing It is not in the form	C		
<b>Program curriculum and Teaching-Learning (T and L) Process</b>		Overall :- <b>B</b>				
<b>Program Curriculum</b>						
II.	1. Does a defined process exist for design of program curriculum?	Yes	partial	C		
	2. Are the structure and components of curriculum well balanced and appropriate (as per AICTE Guidelines)?	Yes	yes, etc. tests	C		
	3. Is a valid process followed for mapping of curriculum with PEOs and PSOs?	Yes	mapping exists no best practices	C		
	4. Is Employability a major consideration in the overall development of the curriculum	Yes	Re-map - partial	C		
<b>B. Teaching - Learning Process</b>						
	1. Is an Academic Calendar prepared and adhered to?	Yes	yes prepared later	B		Some deviation are there in mid exam
	2. Is evidence of pedagogical initiatives taken, such as collaborative learning, ICT supported teaching etc available?	Yes	yes	A		ICT enabled class rooms are available

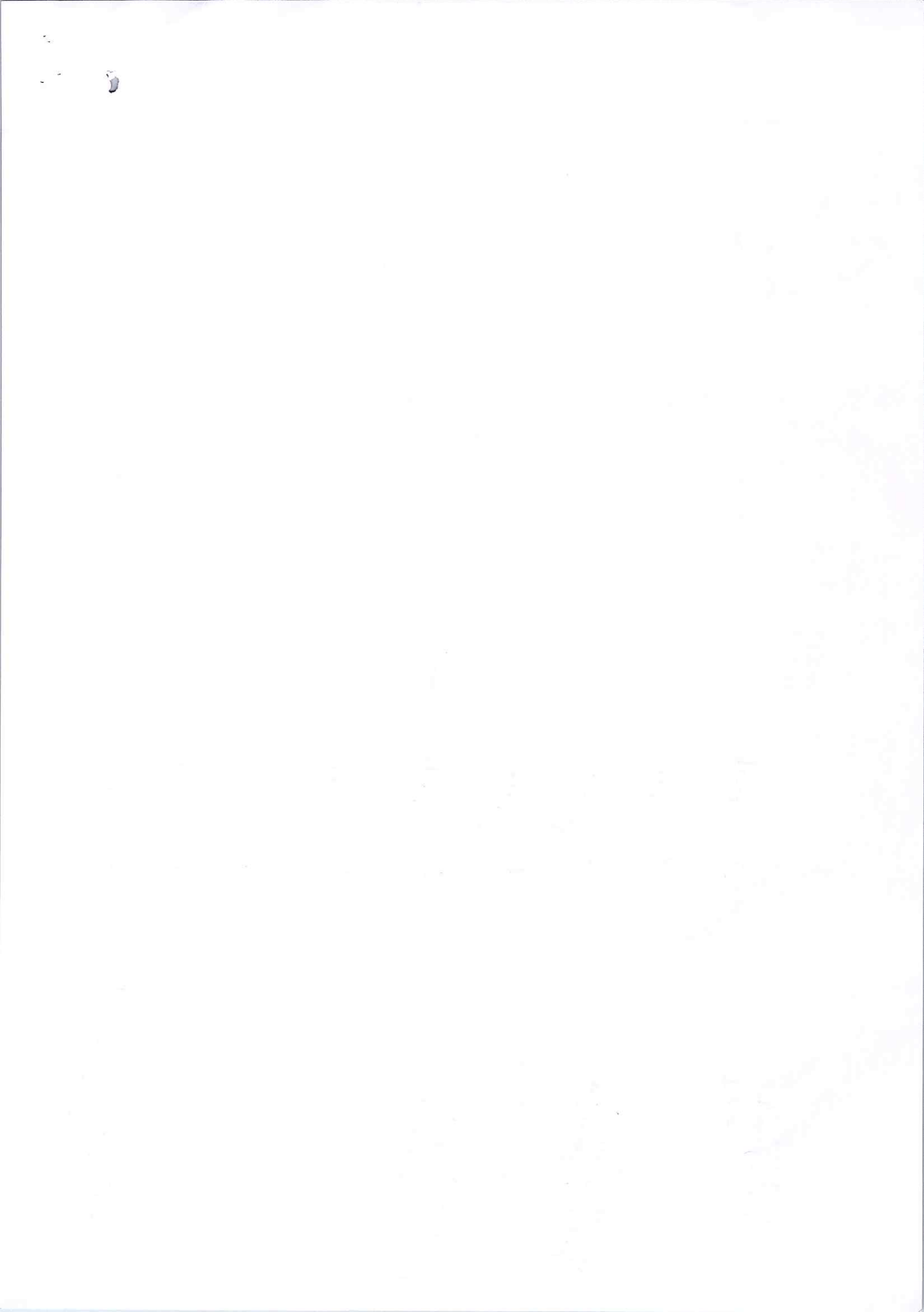




3. Does a process exist to identify bright and weak students?	Yes	Yes for weak students No for bright	C		
4. Does the department have measures to encourage bright students with more complex tasks and motivate weak students to perform better?	Yes	yes	B		
5. Does a process exist to allocate teaching load to faculty in the department?	Yes	yes	A		Records are available and good
6. Do faculty in the department practice innovative TL practices such as <ul style="list-style-type: none"> <li>• Collaborative Learning Yes/No</li> <li>• Interaction with student in and outside of class obtaining Feedback Yes/No</li> <li>• Group Learning, Developing Professional Competences. Yes/No</li> <li>• Teaching through value added courses Yes/No</li> <li>• Experiential Learning that facilitates development of Problem-Solving Skills in the students through project based learning Yes/No</li> <li>• Facilitating interaction with various experts in the field through Guest Lectures, Industrial Visits, Field trips thereby making them familiar with occupational awareness. Yes/No</li> </ul>	Yes  Yes  Yes  Yes  Yes  Yes	.   yes  <del>no</del>	C		not innovative assignments not interactive innovative in teaching learning



7. Is student feedback on T and L. process collected and acted upon?	Yes	yes	A	Available and action taken
8. Do the experiments in laboratory support higher level of Bloom's Taxonomy?	Yes	partial	C	
9. Is continuous assessment in the laboratory done systematically?	Yes	yes	B	
10. Is a well-defined process followed in the design and validation of question papers as well as for scheme of evaluation of mid-term and semester end examinations?	Yes	yes	B	
11. Are questions mapped with course outcomes, and Blooms Taxonomy levels?	Yes	yes	B	Quality of questions is not good
12. Do the assignments given to students facilitate attainment of COs as well as higher levels of Bloom's Taxonomy?	Yes	yes	B	
13. Is a well-defined process followed for identification of student projects and allocation of guide(s)?	Yes	partial	C	Allocation of guides based on domain
14. Are the projects relevant to the POs and PSOs and do they contribute to their attainments?	Yes	yes	B	
15. Is a well-defined process followed for monitoring and evaluation of the projects and for assessing individual and team performance?	Yes	partial	C	Team performance rubric





16. Are efforts made to encourage students to develop working prototypes based on projects and/or to publish papers?	Yes	yes	C	only one paper in mini & main project
17. Particulars of industry supported laboratories established, if any. Is impact analysis of industry interaction made and if, so, is action taken based on the results of the analysis?	Yes	no	D	
18. Are students encouraged to undergo internships or summer training? If so, what is the minimum duration of internship?	Yes 4 Weeks	yes	B	need of Improvement
19. Is student feedback taken on the internship experience?	Yes	yes	B	Analysis and action taken
20. Is Impact analysis of internship made and action taken on the basis of the results of the analysis?	Yes	partial	C	
21. Average number of days from the date of last semester-end examination till the declaration of results	I-Sem: 189 Days II-sem: 140 Days			College related point
22. Average percentage of student complaints / grievances about evaluation against total number of students appeared in the examination during last academic year	I-Sem: 338 Candidates are applied for Revaluation. II-Sem: 156 Candidates are applied for			College related point

overall = C



		Revaluation					
III.	<b>Course Outcomes and Program Outcomes</b>						
	1. Are COs defined for every course?	Yes	yes	C			some subjects COs to be redefined
	2. Are COs embedded in syllabus?	Yes	yes	A		A available	
	3. Are course articulation matrix, program articulation matrix tables prepared?	Yes	yes	A			
	4. Is appropriate assessment process for attainment of course outcomes followed including data collection, verification, analysis and decision making?	Yes	partial	B			Decision making to be discussed in subsequent semester with faculty
	5. Is a well-defined process followed for determining attainment of POs and PSOs?	Yes	yes	C			Attainment values are to be properly set for CO & PO.
6. Are the records of computation of attainment of POs and PSOs maintained?	Yes	yes	A				
<b>Students' Performance</b>							over all :- <b>B</b>
IV	1. Enrollment ratio	100% (With Out EWS) 99.229 (With EWS)	yes 100%	A			Excellent
	2. Percentage of students who graduate the program in four years, without repeat of any course?	98/273=0.35	yes 35%	C			<del>poor</del> percentage is very poor
	3. Percentage of students graduating the program with backlogs within 4 years?	<u>101/273=0.36</u> 73%	yes 73%	C			There is no improvement

198/273



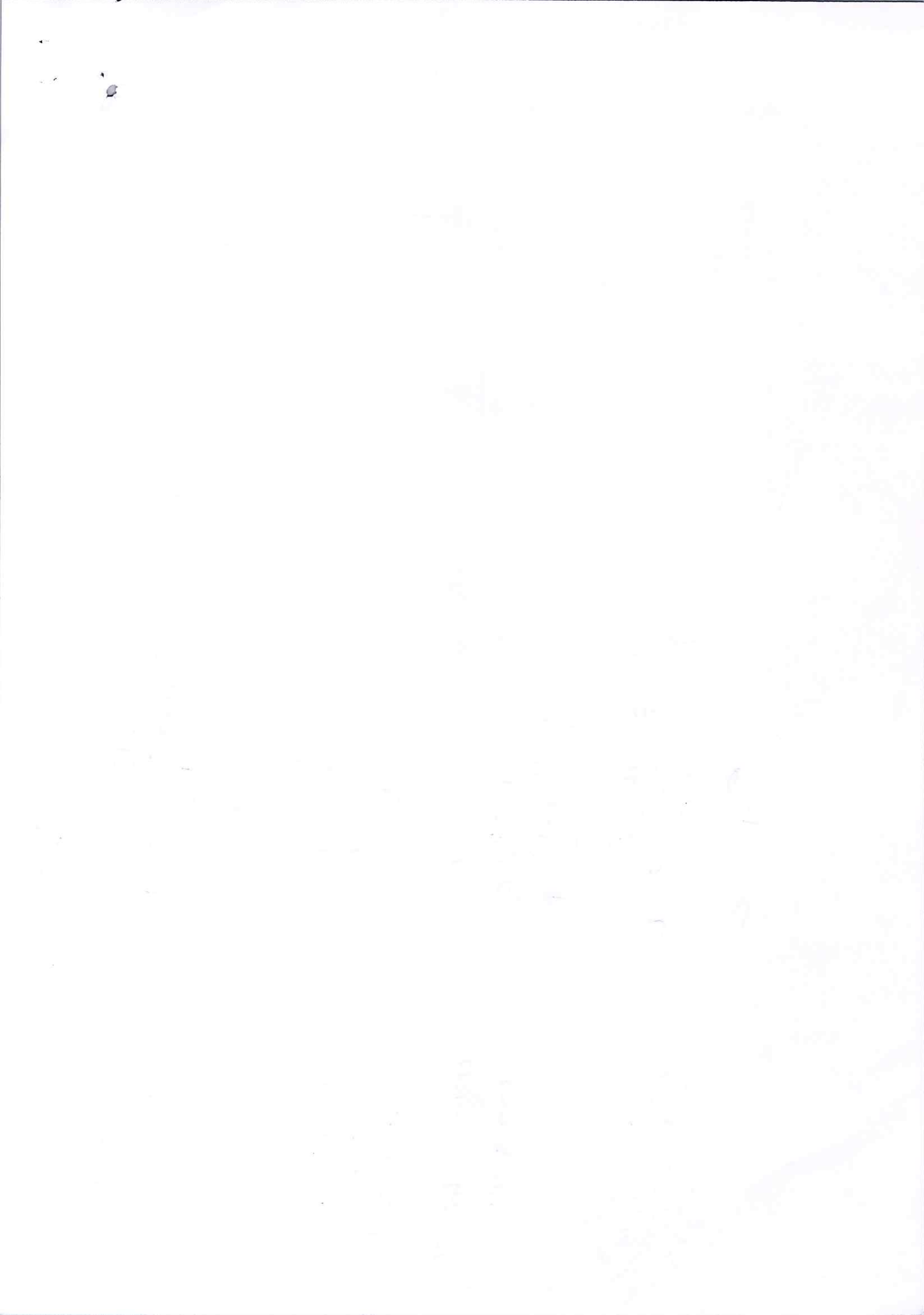


4. Mean CGPA of students (who were promoted to 3 <sup>rd</sup> year) at the end of 2 <sup>nd</sup> year	6.21	Yes 6.21	B		
5. Percentage of students placed in companies through on and off-campus recruitment.	76.15%	76.15%	A		Good
6. Percentage of final year students admitted to higher studies	11.15%	11.15%	B		Good
7. Number of students turned entrepreneurs in Engineering and Technology	Nil	nil	D		
8. Number of Professional societies/chapters in the department	3	3	B		
9. Number of Engineering events organized at institute at:					
a. Institute Level	15	15	B		
b. State Level					
c. National Level	7	7			
d. International Level		0			
10. Does the department publish technical magazines and Newsletters?	Yes	yes	A		Student name in editorial board in next letter is mine
11. Are students associated in the above publications?	Yes	nil	D		

overall: B

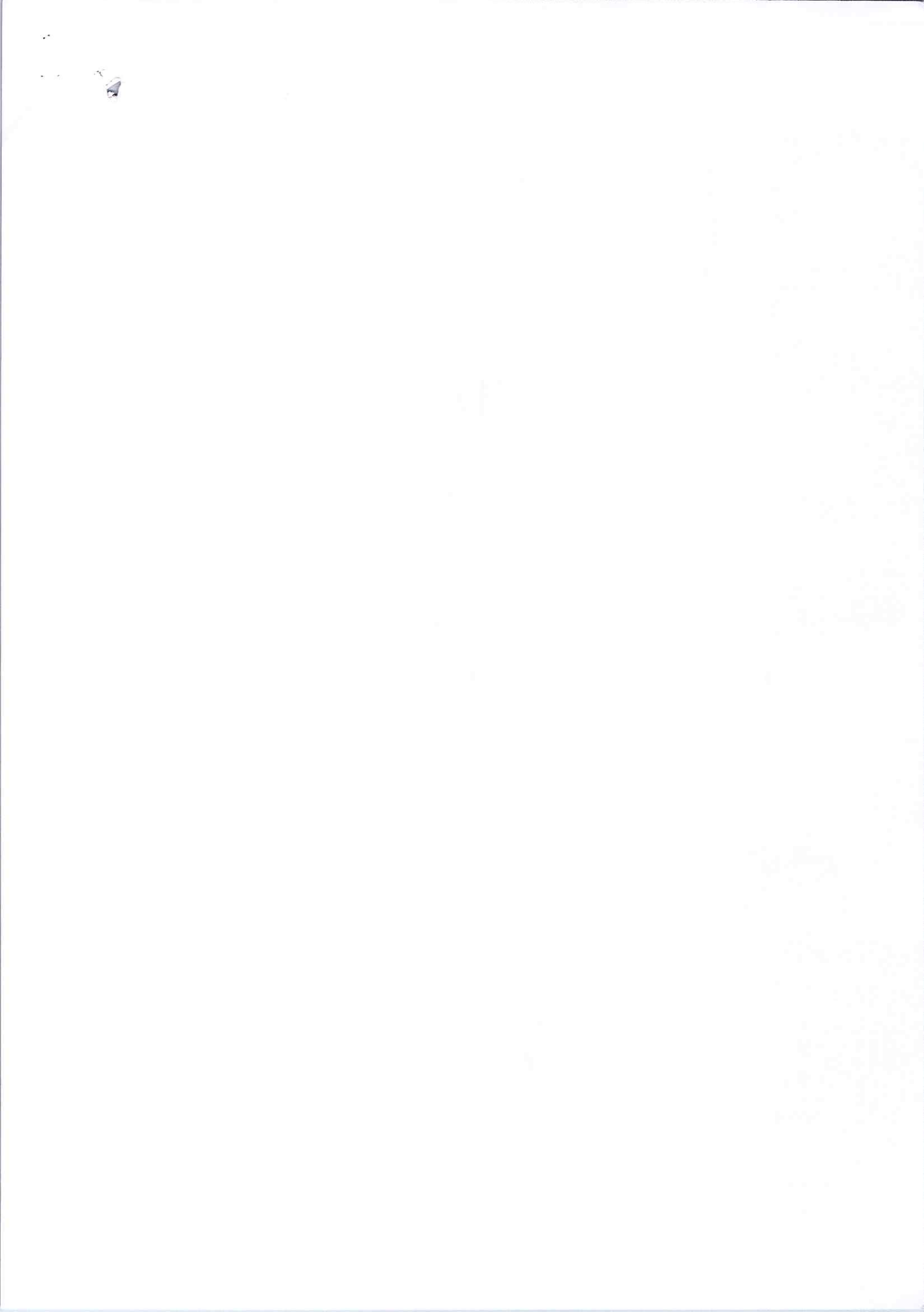


?	12. Number of students who participated in inter-institute events	Co-Curricular/ Extra Curricular	198 / 47	participated / won prize		Students participation outside college to be improved	
	• Within state	261	198 + 359	college / outside			
	• Outside state	1	359 / 12 + 39 / 1				
	• Number of prizes/ awards received in the events.	1	1 / 0				
<b>A. Faculty Information and Contribution</b>							
V	1. Student faculty ratio	12.33%	15.33%			Excellent	
	2. Faculty cadre proportion	25.42%	<del>12.33%</del> 22.71%	A		Excellent	
	3. Number of Faculty with PhD qualification	15	13.62%	B		very good	
	4. Number of Faculty with PG Degree qualification	52	33	B			
	5. Faculty retention (%) in the Current Academic Year?	85.93	85%	B		RAYM2 → 48.21% recent	
	6. Number of research publications of faculty in the year	16+2	18 (16+2 conf)	C		poor publications	
	7. Number of faculty who participated in FDPs, and duration of the programs.	203	more than 1 week - 176 less than 1 week - 27	A			
<b>B. Research and Development</b>							
	1. Number of quality research publications in refereed/Scopus indexed journals.	16+2 (SC1-3 Scopus-5 UGC-8)	8	16 - total 3 Scopus 5 Scopus	8	E	very poor in publications. Total - 16 papers out of 67 str 3
	2. Number of faculty awarded PhD during the current academic year	Nil	01			C	

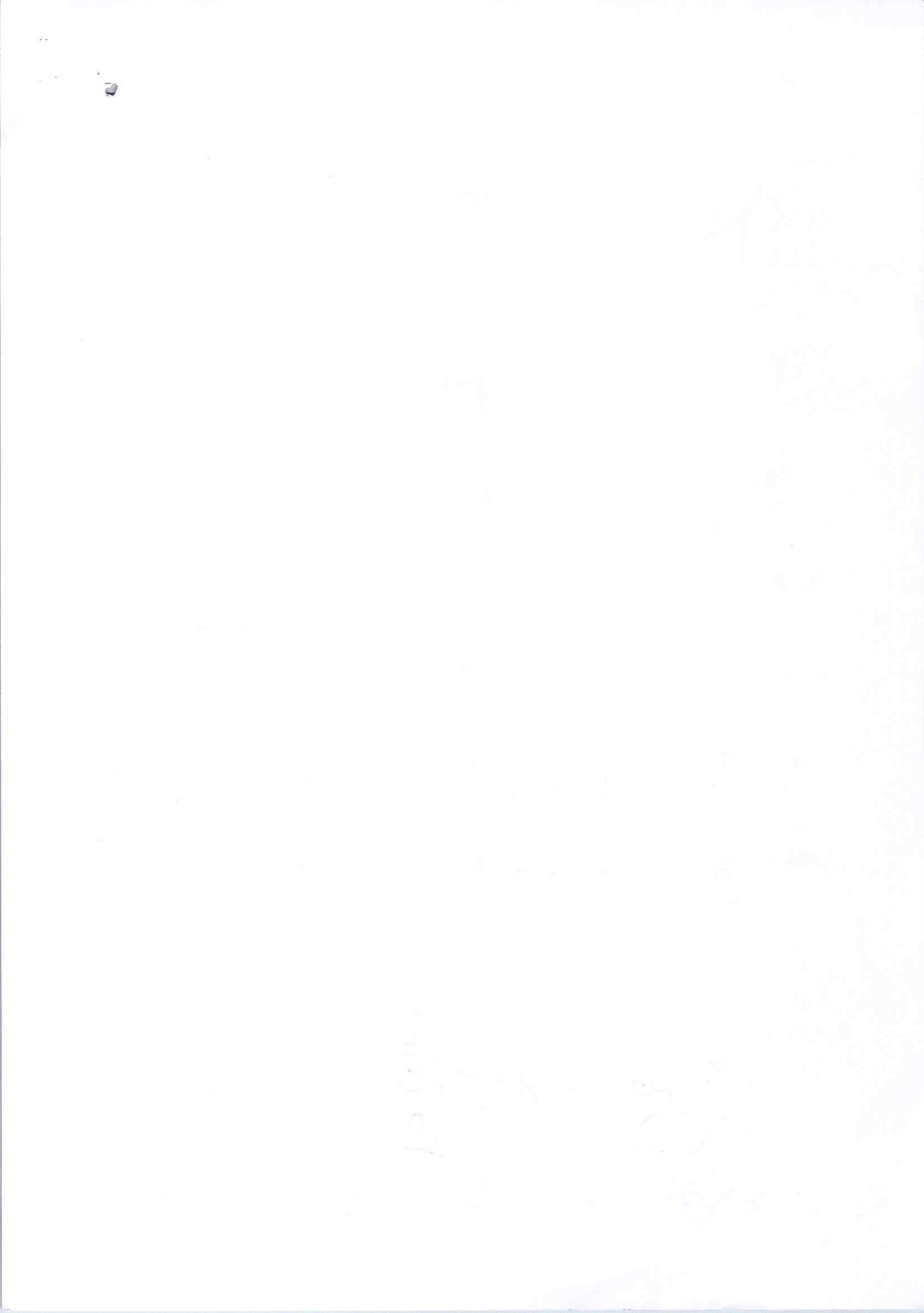




<b>C. Facilities for Self-Learning</b>					
1. Does the department provide scope for self-learning?	Yes				
2. Are all required facilities, materials, for learning beyond syllabus etc. provided to the students?	Yes				
3. Are the facilities effectively utilized by the students?	Yes				
<b>D. Career guidance, Training and Placement</b>					
<b>Career Guidance</b>					
1. Does the college have a Career Guidance or Counseling Cell?	Yes				
2. If yes, how many students have been utilizing these services?	500				
3. How many Career Guidance programs have been conducted in each year?	8				
4. How many number of students attended these career guidance programs?	840				
5. Are students counseled for higher studies?	Yes				
6. Does the College have Academic links/ collaborations/MoU, etc with other institutes of higher learning?	No				
<b>Training and Placements</b>					
1. Does the college conduct any pre placement training for students' placements?	Yes				



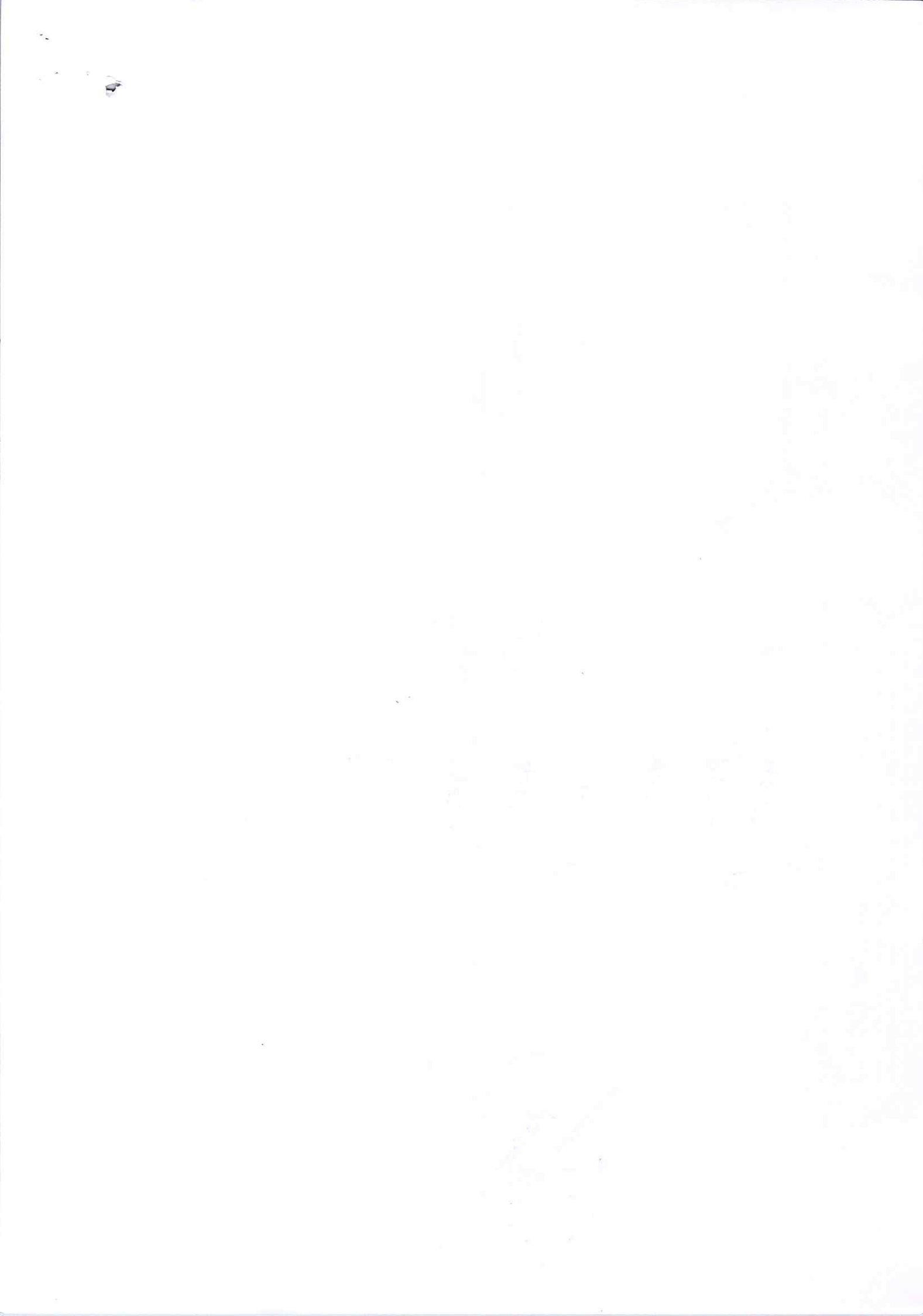
	3. Sponsored research (funded) undertaken and its value in Lakhs of Rupees.	Nil	nil	D	
	4. Number of development activities undertaken by faculty: • Product development • Working models	6 18	6 18	B	Software Apps and prototypes to be improved
	5. Consultancy services offered and their value in Lakhs of Rupees.	No	nil	D	
	6. Does a well-defined faculty performance appraisal and development system exist and implemented?	Yes			College related
	<b>Facilities &amp; Technical Support</b>				Overall: <b>C</b>
VI	1. Are well-equipped labs and technical supporting staff available?	Yes	yes	A C	technical supporting staff numbers is less.
	2. Are labs well maintained?	Yes	yes	A	
	3. Are safety measures followed in the lab?	Yes	yes	A	
	4. Is a project laboratory together with necessary facilities available in the department?	Yes	yes	A	
	<b>Continuous Improvement</b>				Overall: <b>A</b>
VII	1. Are short falls and weaknesses in the program identified from the analysis of POs and PSOs attainment?	Yes	yes	C	All POs are attained some whereas some COs are not attained. There is contradiction.
	2. Are action plans to bridge the shortfalls prepared and	Yes	no	D	





implemented? If so, what is the impact of the said implementation with respect to previous academic year?					
3. Does a criterion exist for conducting academic and administrative audit?	Yes	yes	A		
4. Frequency of audit	1	every 1 year	A		
5. Are actions taken based on audit report?	Yes	partial	C		
6.					
a. Percentage of placements in current Academic Year	94%	76.2% <del>76.2%</del>			
b. Percentage of placements in the previous Academic Year	87%	56%	A		
c. Is there any improvement?	Yes	yes			
7.					
a. Median salary offered to students in the current academic year	5 Lpa	4.01			
b. Median salary offered to students in the previous academic year	3.5lps	3.6	A		
c. Is there any improvement?	Yes	yes			
8.					
a. Best rank of the students admitted in the current academic year	8802	8802			
b. Best rank of the students admitted in the previous	9810	9810	A		

Placement median  
~~average~~ salary  
per annum to  
be improved



academic year	Yes	yes			
e. Is there any improvement?					

9.					
a. Highest rank (in the qualifying examination) of student admitted in the current Academic Year	120997	120997			
b. Highest rank (in the qualifying examination) of student admitted in the previous Academic year?	96671	96671	D		
c. Is there any improvement?	No	no			

VIII	<b>First Year Academics</b>	overall: <b>B.</b>			
	1. First year student faculty ratio				
	2. Number of faculty teaching first year, with PhD qualification				
	3. Number of faculty teaching first year with PG qualification				
	4. Percentage of students who qualified for promotion to 2 <sup>nd</sup> year from end examinations of first year				
	5. Mean CGPA/percentage of students (who were promoted to Second year) at the end of First year.				
	6. Is a proper assessment process used for determining the attainment of course outcomes?				
	7. Is a proper assessment process used for determining				

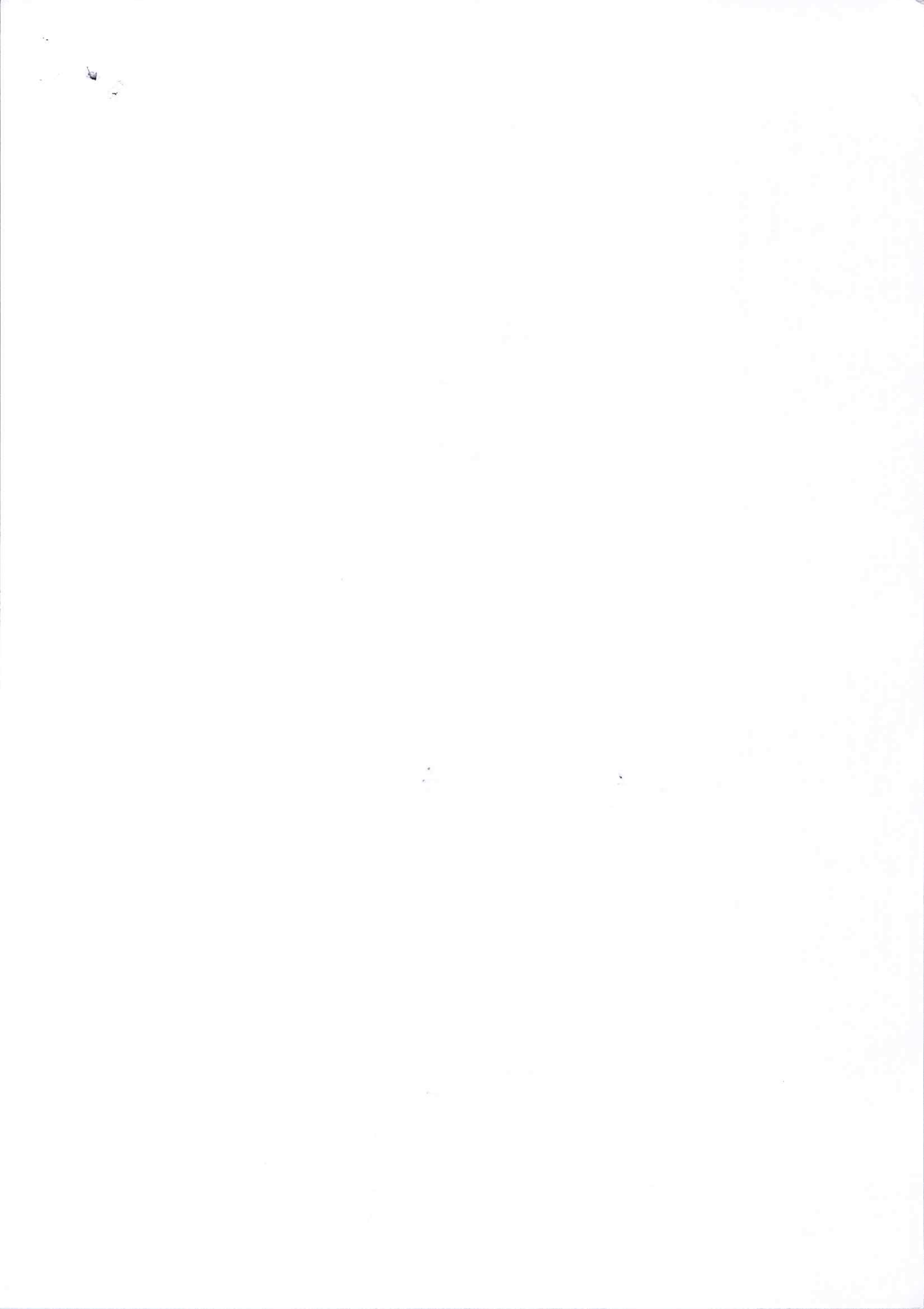




2. Is effective placement policy framed and implemented?	Yes				
3. If yes, then specify the number of hours, areas in which training is imparted.	410				
4. Does the placement cell maintain the record of job opportunities available for students?	Aptitude, Basic Programming Skills  Yes				
5. Did the college organize any company/Industrial visits or guidance camp for students?	Yes				
6. If yes, number of such visits/camps organized	1				
7. Are the students provided computers and Internet to search for job, to download application forms or to register for placements drive of the companies etc?	Yes				
8. Does the college subscribe to magazines like Employment News, Rojgar Samachar etc? If yes, give names of magazines.	Yes • Employment News • Kurukshetra • Competition Success Review • Yoyana				
9. Does the college have a system of registering students at the Employment office of the Gol?	No				
<b>NSS Activities/Student Clubs/Alumni Association</b>					
1. Are clubs and NSS effectively functioning?	Yes				

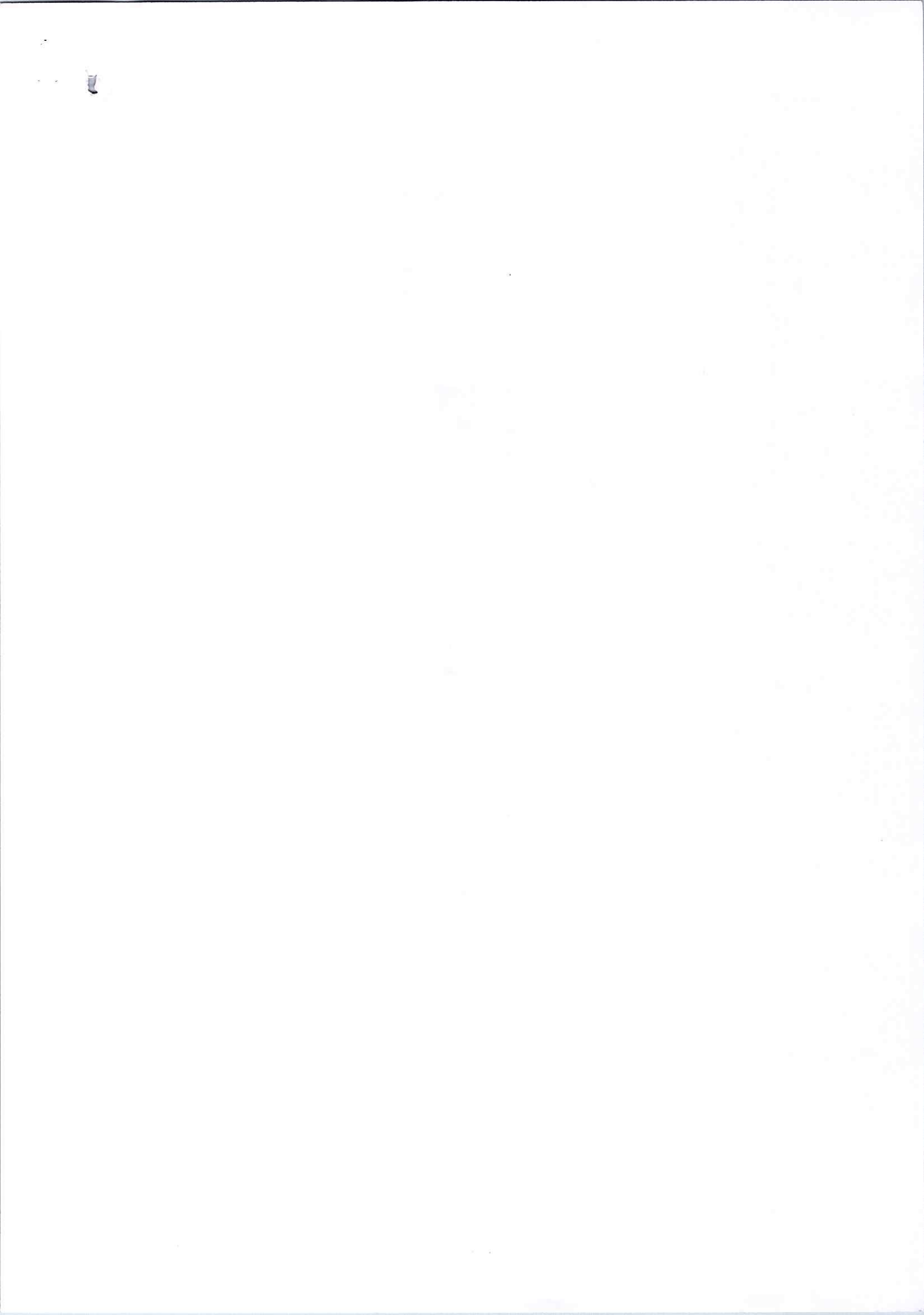


	the attainment of relevant POs and PSOs					
	8. Are records of computation of attainment of COs of all first-year courses available?					
	9. Are records of computation of attainment of relevant POs & PSOs of all first-year courses available?					
	10. Are actions taken based on the results of evaluation of POs and PSOs?					
<b>Student Support Systems</b>						
<b>A. Mentoring System</b>						
IX	1. Is a comprehensive mentoring system at individual level in place for professional guidance, career advancement and all-round development?	Yes	yes			Excellent
	2. Is the mentoring system implemented? If yes. Number of students per mentor	Yes				
	3. Is the mentoring system effective?	Yes				
<b>B. Student feedback on faculty and facilities.</b>						
	1. Does a student feedback system exist?	Yes	yes			
	2. Are the records of action taken on the results of feedback (on faculty) analysis available?	Yes	yes			Good.
	3. Is the feedback system effective?	Yes	yes			
	4. Are records of action taken on feedback on facilities available?	Yes				

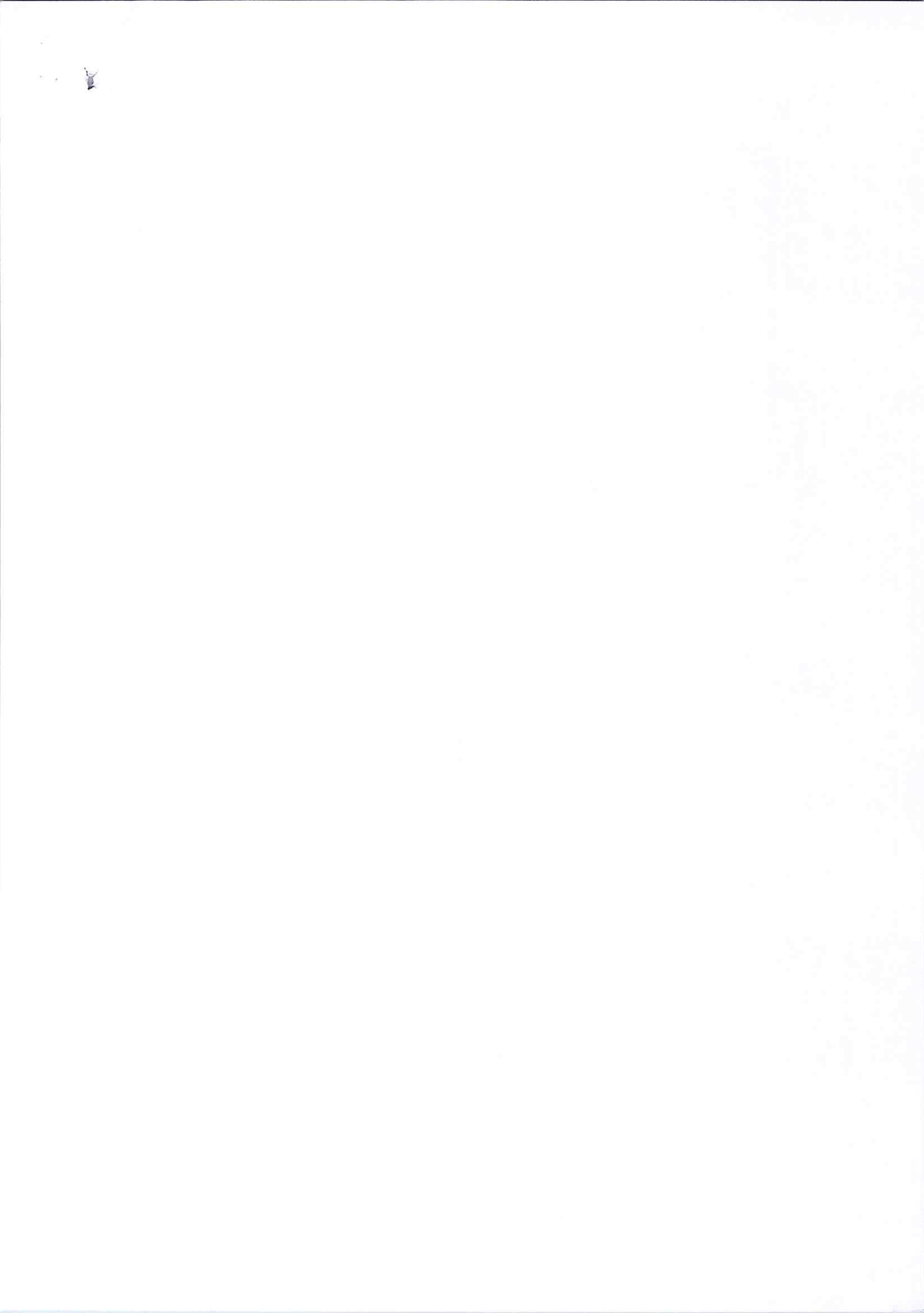




	2. Do students conduct and participate in annual co-curricular and extra-curricular activities. If yes, please mention % of students participate in such activities:	Yes				
	3. Does the college have a registered and functional Alumni Association? If yes, give number of students enrolled	Yes				
	4. Specify Activities of Alumni Association					
	<b>Governance, Institutional Support and Financial Resources</b>					
	<b>A. Governance, Institutional Support</b>					
X	1. Are vision and mission statements of Institution available on college website, Principal's Chamber, Library, Conference rooms etc?	Yes				
	2. Are the vision and mission statements appropriately defined and relevant?	Yes				
	3. Is institutional strategic plan (5 years) available?	Yes				
	4. Is there an implementation plan towards achieving the strategic objectives?	Yes				
	5. Is the strategic plan monitored effectively?	Yes				
	6. Is a Governing Body duly constituted and its meetings held regularly?	Yes				
	7. Are service rules, policies, procedures, functions and	Yes				

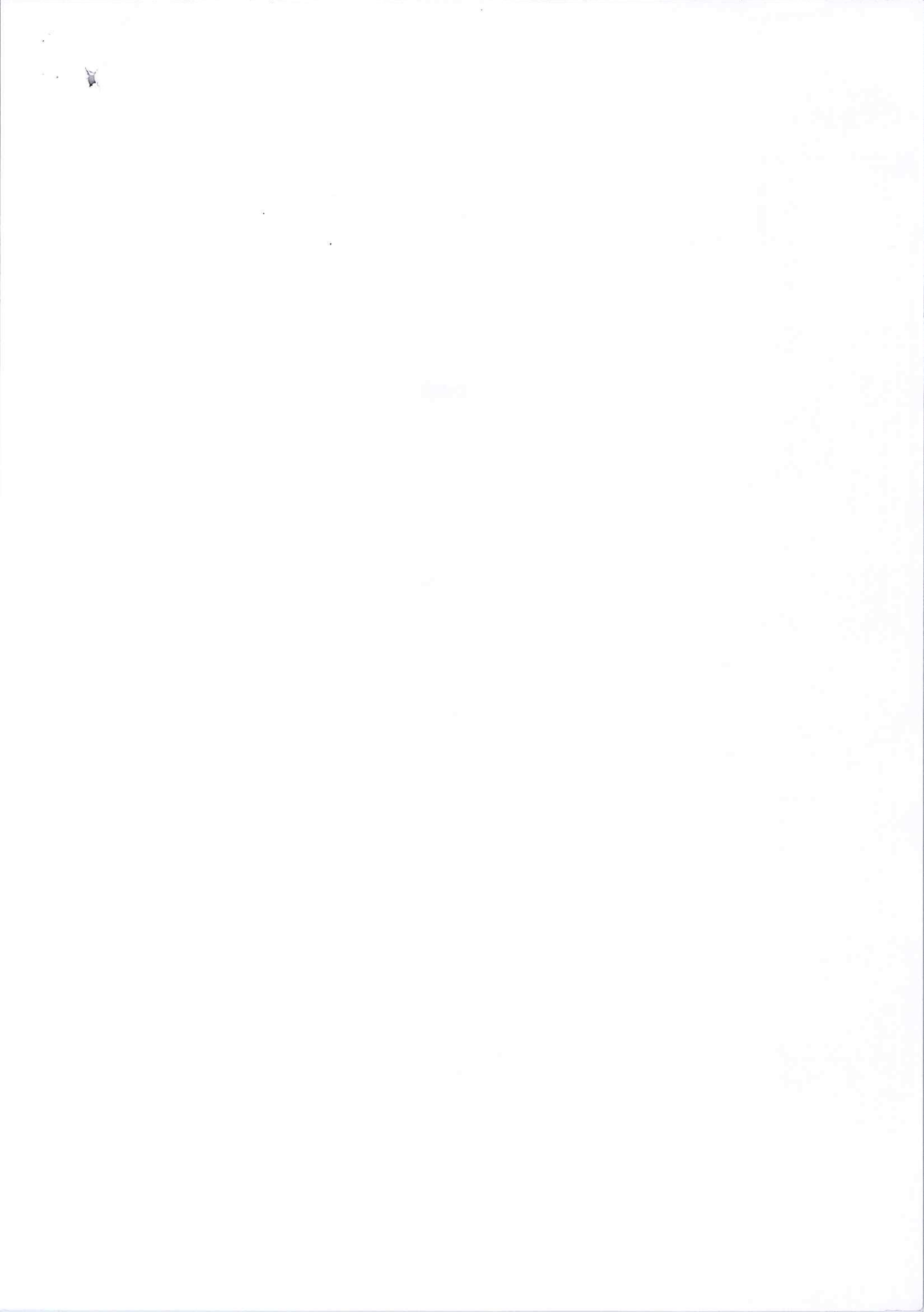


responsibilities published and uploaded on the website?					
8. Are Minutes of Meetings of Governing Body and Academic council and Action taken reports available?	Yes				
9. Are organizational structure and lists of administrative heads, and committees formed with powers to take administrative decisions. available?	Yes				
10. Is there any Grievance redressal system in place and a cell constituted for this purpose?	Yes				
11. Is evidence of action taken on student/staff grievances available?	Yes				
12. Are financial powers delegated to Principal, HoDs, I/cs. documented?	Yes				
13. Is Mandatory Disclosure as per AISHE & AICTE. placed on website?	Yes				
14. What are institutional practices for integrating IT? (i)Administration (ii)Finance and Accounts (iii)Examination	Yes				
<b>B. Budget allocation and utilization</b>					
1. Does the college follow a prescribed procedure for	Yes				

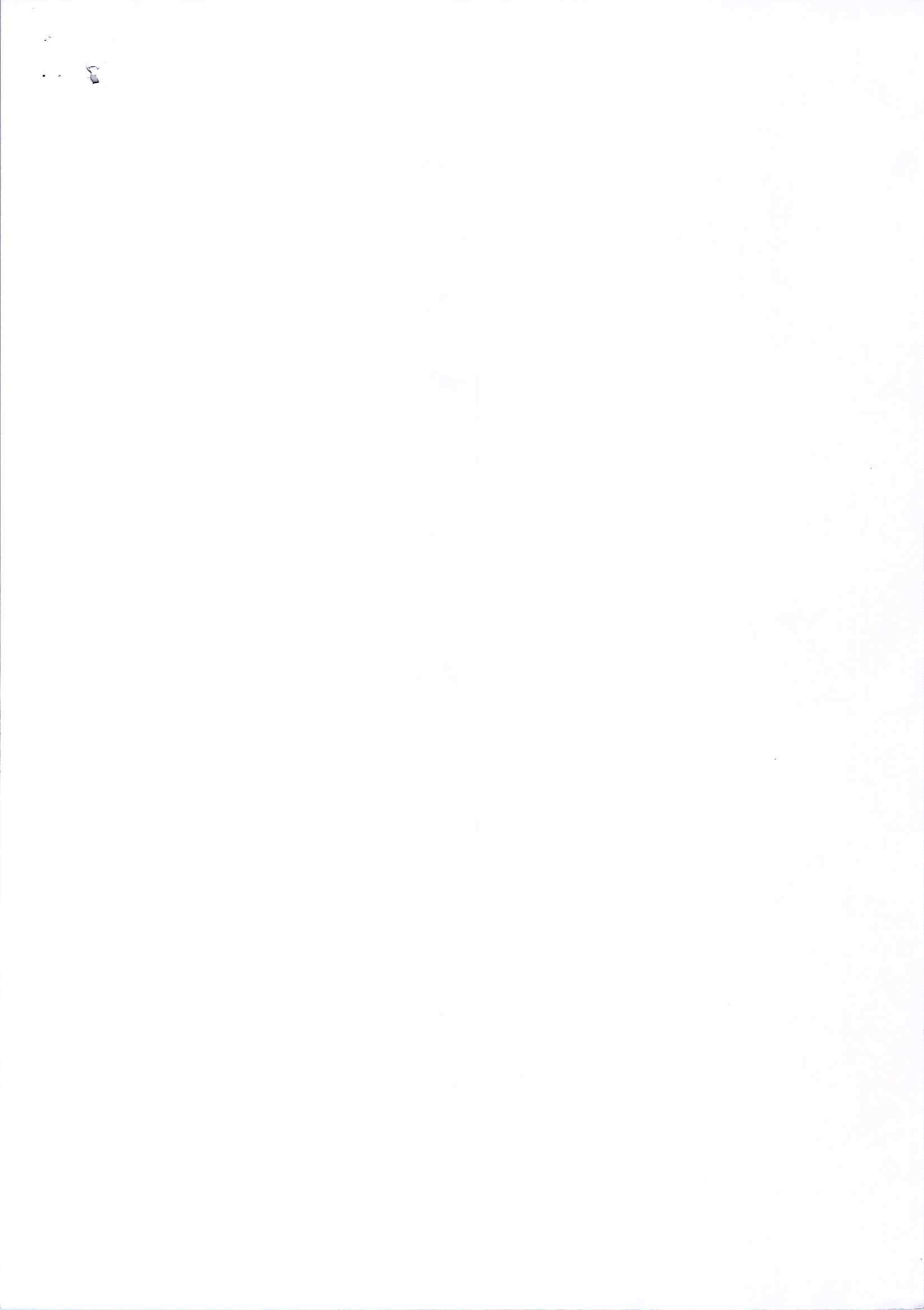




budget formulation, finalization and approval?					
2. Is the budget allocation adequate at institutional, and program levels?	Yes				
3. What percentage of allocated funds was utilized in the previous year by the Institution and programs?	CSE: Ap:205Lakhs Uti.:208.51Lakhs  Institute: BA:4927.80Lakhs util.:505.60Lakhs				
<b>C. Library and Internet</b>					
<b>i. Quality of learning resources</b>					
1. Are learning resources procured as per the requirements provided by the academic departments, ensuring relevance to programs?	Yes				
2. Are AICTE norms followed in respect of number of books & their copies procured?	Yes				
3. Are these learning resources including E-Resources & digital library, easily accessible to students?	Yes				
4. Is adequate support given to students for self-learning activities?	Yes				
5. Is the utilization of learning resources by students and faculty satisfactory?	Yes				
<b>ii. Internet</b>					
1. Is the available band Width adequate?	Yes				



2. Is Wi-Fi available in the college?	Yes				
3. Is there internet access in labs, library, conference rooms & offices of all departments?	Yes				
4. Is adequate security mechanism put in place for protecting the internet transactions?	Yes				
<b>iii. Infrastructural facilities and ambience</b>					
1. Is Campus ambience exemplary /Good / Satisfactory/ Unsatisfactory?	Exemplary				
2. Is Office Space ambience exemplary/Good/ Satisfactory/Unsatisfactory?	Exemplary				
3. Are washrooms well maintained?	Yes				
4. Is adequate parking facility available?	Yes				
5. Are individual Staff rooms available with IT facility?	Yes				
6. Are staff rooms well maintained?	Yes				
7. Is Potable Water facility available?	Yes				
8. Is Power Backup facility available? If so, specify the capacity	Yes				
9. Does the Institute have facilities for alternate sources of energy like: (i) Solar energy (ii) Wheeling to the Grid	Yes				



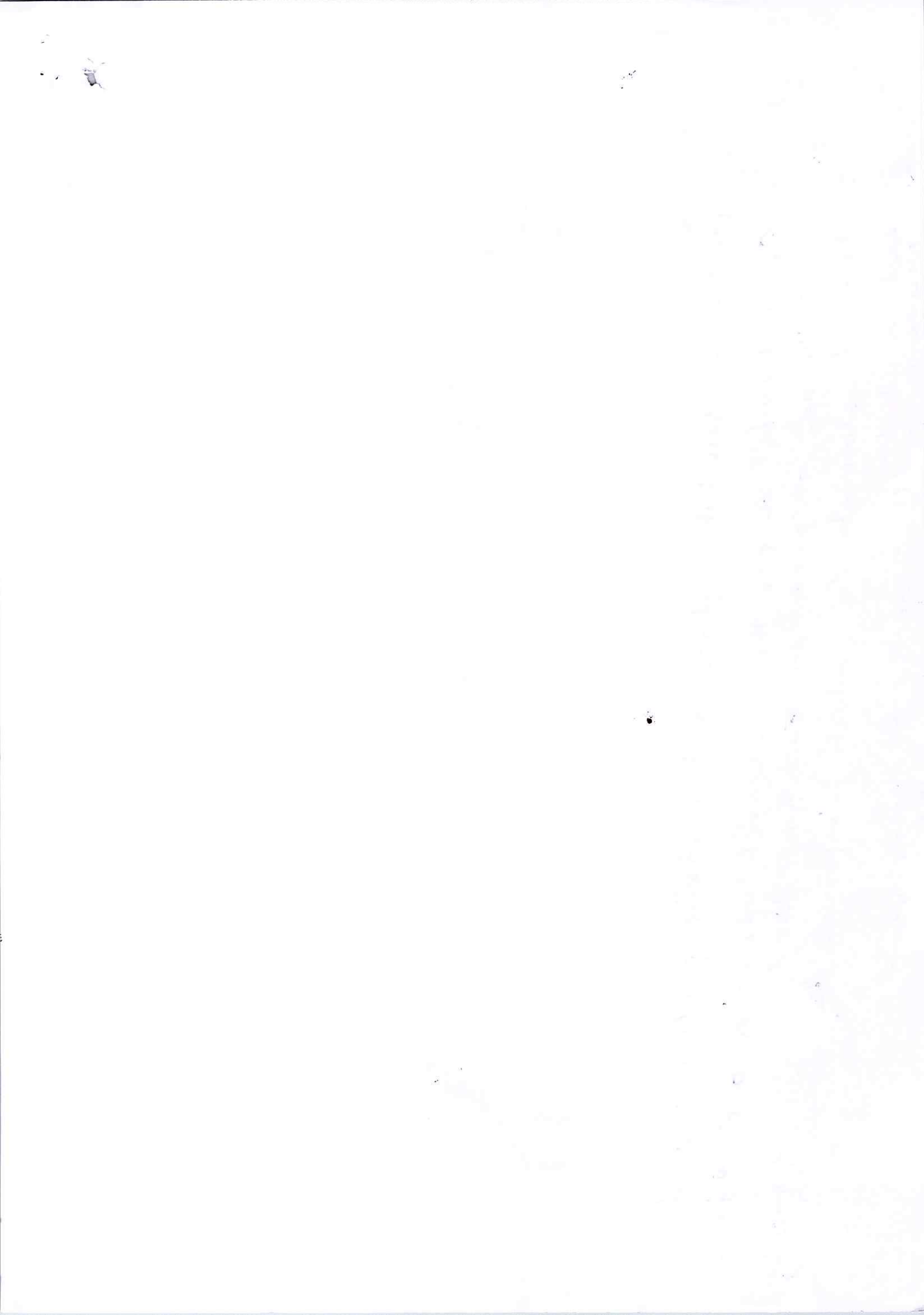


(iii) Use of LED Bulbs					
10. Does the Institute have Rain water harvesting pits?	Yes				
11. Does the institute take any Green campus initiatives such as: (i)Restricted entry of automobiles (ii)Pedestrian friendly path ways (iii)Landscaping with trees and plants	Yes				
12. Does the Institute provide any facility for Disabled/Divyangjan persons easy access to classrooms and Labs?	Yes				
13. Does the institute organize National/International commemorative days, events and festivals?	Yes				
14. Do Seminar halls have adequate ICT facilities?	Yes				
15. Is transportation available for students and staff?	Yes				
16. Is the Canteen maintained as per Food Safety and Standards Act?	Yes				
17. Is Auditorium/Assembly Hall available with all ICT facilities?	Yes				

Please mention

Good Practices, if any

1. Mentor - mentee list in place and mentoring practice is good
2. Group Heads as per the research domain and a junior faculty are assigned to each group head
3. Reduced class strength which improves focus on each student
4. Academic Audit conducted for every year



Strengths:-

- ① Enrollment Ratio is good
  - ② Faculty student Ratio is good, and also Faculty Code Ratio.
  - ③ class strength is reduced,
  - ④ well established labr and ICT class rooms are there
- Weakness if any ⑤ and number of faculty attended FDPs.
- ① Industry supported laboratories are not there
  - ② Innovative assignments and teacher learning process

are missing

③ Percentage of students success feel are very poor.

④ Faculty completed PhD in this year is only one(1).

Concerns if any

- ④ Ratification of Associate Professors by NTUH & are the
- ① Faculty involvement criteria wise is good, but analysis and action ~~to~~ to be taken is missing
  - ② stake holder involvement in curriculum design is not available and worker's model to be demonstrated in the form of wide spread types of any
  - ③ Deficiency
    - ① No sponsored project and consultancy activity
    - ② Number of Research publications in number is less & quality of faculty is poor
    - ③ Quality of intake is High Rank ~~at~~ ~~one~~ ~~joining~~





Recommendations, if any

1. Encourage students to participate in inter college event and also outside state
2. Faculty should be encouraged by giving research incentives to publish quality research papers.
3. Student start ups to be encouraged through Incubation Centre

Brief report, if any

1. Infrastructure is good,
2. Enrollment of students is good,
3. Faculty student ratio is good, and also cadre ratio.
4. Student involvement in building prototypes, papers publications, Editorial board member in their news letter and magazines
5. Mentoring is in place and well mentoring process,
6. Faculty should apply research proposals and should take up Consultancy work.

Suggestions for improvising the academic quality:

1. Innovative teaching learning methods and innovative assignments.
2. papers publication by faculty with students to be improved.
3. value added courses to be included in the curriculum,
4. Inter discipline projects to be carried out by students

Signature of audit committee member:

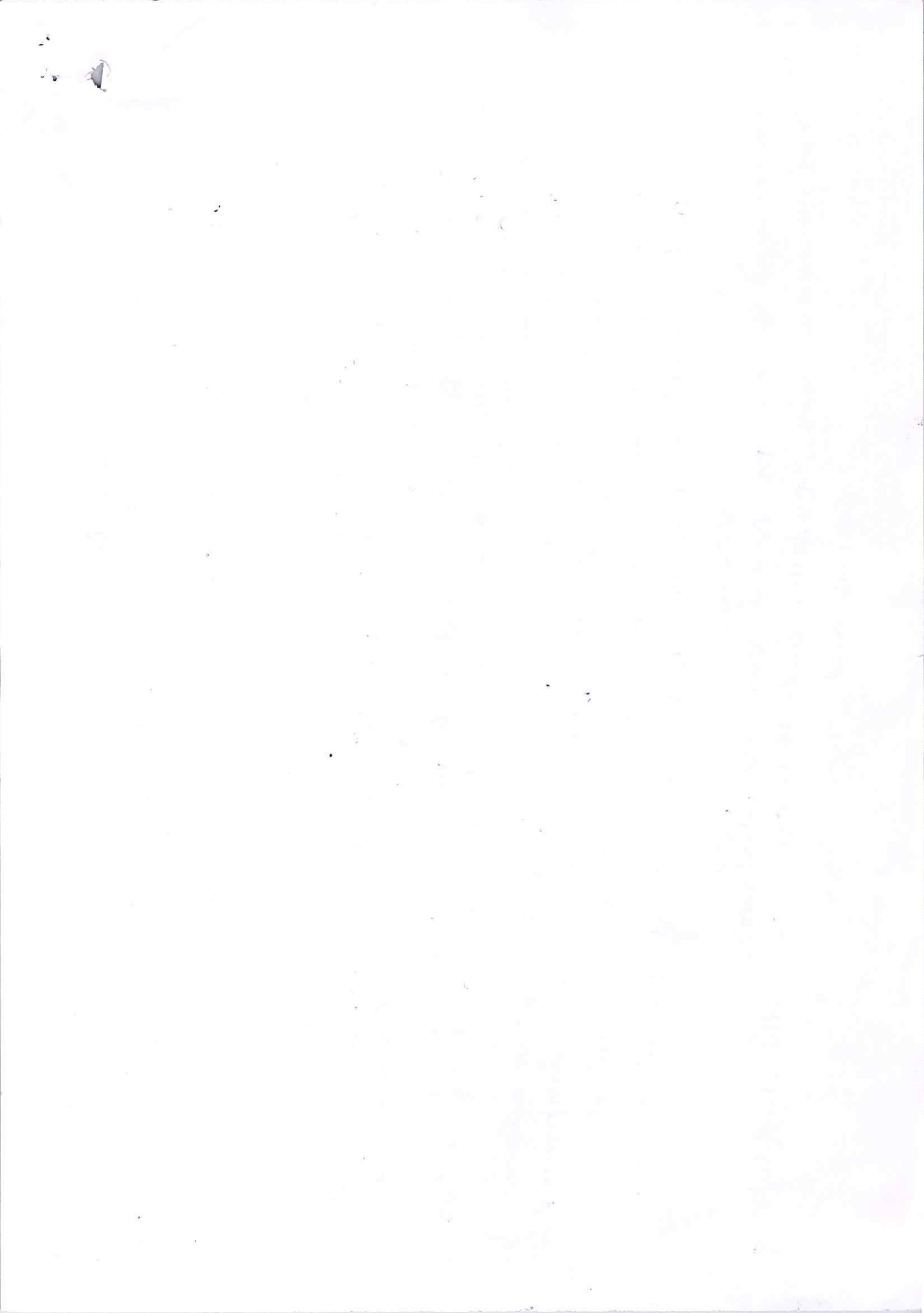
V Anura

Name of the audit committee member:

Dr. Anura Varanasi 17/12/2022.

Affiliation of the audit committee member:

professor and HoD CSE, Sreenidhi Institute of  
SciencE and Technology.



IT

**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
Cheeryal(V), Keesara (M), Medchal (D), Telangana state – 501 301

**ACADEMIC AND ADMINISTRATIVE AUDIT REPORT**

\* Grade: A: Very Good, B: Good, C: Adequate, D: deficient

S. No	Criterion	Status		Grade	Exhibits observed	Remarks of Audit Team
		As assessed by department/ institution	As observed by Audit Team			
I.	<b>Vision, Mission and PEOs,</b>					
	1. Are vision and mission statements of the department available?		yes	A		
	2. Are department vision and mission statements consistent with institute statements?		yes	A		
	3. Are the PEOs available?		yes	A		
	4. Does the department follow a defined process for defining vision, mission and PEOs with the participation of all stakeholders-internal and external stake holders?		yes	A		

# THE HISTORY OF THE UNITED STATES

## CHAPTER I

The first part of the book is devoted to the history of the United States from the beginning of the world to the present time.

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	5. Are the vision, mission and PEOs made available on college website, department notice boards, HoD's chamber, laboratories, lab manuals, course files, and curriculum books etc?	Yes	yes	A		
	6. Are the PEOs consistent with the mission of the department indicated in matrix form with proper justification of correlation parameters?	Yes	yes	A		
<b>Program curriculum and Teaching-Learning (T and L) Process</b>						
<b>Program Curriculum</b>						
II.	1. Does a defined process exist for design of program curriculum?	Yes	yes	A		
	2. Are the structure and components of curriculum well balanced and appropriate (as per AICTE Guidelines)?	Yes	yes	A		
	3. Is a valid process followed for mapping of curriculum with PEOs and PSOs?	Yes	yes	A		
	4. Is Employability a major consideration in the overall development of the curriculum	Yes	yes	A		
<b>B. Teaching – Learning Process</b>						
	1. Is an Academic Calendar prepared and adhered to?	Yes	yes	A		
	2. Is evidence of pedagogical initiatives taken, such as collaborative learning, ICT supported teaching etc available?	Yes	yes	B		NO LCD projector in class rooms

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3. Does a process exist to identify bright and weak students?	Yes	yes	A		
4. Does the department have measures to encourage bright students with more complex tasks and motivate weak students to perform better?	Yes	yes	A		
5. Does a process exist to allocate teaching load to faculty in the department?	Yes	yes	A		
6. Do faculty in the department practice innovative TL practices such as <ul style="list-style-type: none"> <li>• Collaborative Learning <input checked="" type="checkbox"/> Yes/No</li> <li>• Interaction with student in and outside of class obtaining Feedback <input checked="" type="checkbox"/> Yes/No</li> <li>• Group Learning, Developing Professional Competences. <input checked="" type="checkbox"/> Yes/No</li> <li>• Teaching through value added courses <input checked="" type="checkbox"/> Yes/No</li> <li>• Experiential Learning that facilitates development of Problem-Solving Skills in the students through project based learning <input checked="" type="checkbox"/> Yes/No</li> <li>• Facilitating interaction with various experts in the field through Guest Lectures, Industrial Visits, Field trips thereby making them familiar with occupational awareness. <input checked="" type="checkbox"/> Yes/No</li> </ul>	Yes	yes	A		

The first part of the paper discusses the importance of understanding the user's needs and expectations. This is followed by a detailed description of the system architecture and the implementation of the various components. The final part of the paper discusses the results of the user testing and the conclusions drawn from the study.

Component	Description
User Interface	Provides a simple and intuitive way for users to interact with the system.
Database	Stores user data and system logs for future reference.
Reporting Module	Generates reports and analytics to help users understand their usage patterns.
Security	Implements robust security measures to protect user data and system integrity.
Performance	Optimizes the system for fast and reliable operation.
Integration	Connects with external services and APIs to enhance system functionality.
Deployment	Provides a clear and concise guide for installing and maintaining the system.
Support	Offers comprehensive support resources, including FAQs and troubleshooting guides.
Documentation	Provides detailed documentation for developers and users alike.
Testing	Includes unit tests, integration tests, and user acceptance testing to ensure quality.
Future Work	Discusses potential areas for improvement and future development plans.

In conclusion, this paper has presented a comprehensive overview of the system's design, implementation, and testing. The results of the user testing indicate that the system meets the needs and expectations of the target audience. Future work will focus on enhancing the system's performance and adding new features to improve the user experience.



7. Is student feedback on T and L process collected and acted upon?	Yes	yes	A		
8. Do the experiments in laboratory support higher level of Bloom's Taxonomy?	Yes	yes	B		Left to BTL 4
9. Is continuous assessment in the laboratory done systematically?	Yes	yes	A		
10. Is a well-defined process followed in the design and validation of question papers as well as for scheme of evaluation of mid-term and semester end examinations?	Yes	yes	A		
11. Are questions mapped with course outcomes, and Blooms Taxonomy levels?	Yes	yes	A		
12. Do the assignments given to students facilitate attainment of COs as well as higher levels of Bloom's Taxonomy?	Yes	yes	B		
13. Is a well-defined process followed for identification of student projects and allocation of guide(s)?	Yes	—			
14. Are the projects relevant to the POs and PSOs and do they contribute to their attainments?	Yes	—			
15. Is a well-defined process followed for monitoring and evaluation of the projects and for assessing individual and team performance?	Yes	—			

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1. 1870

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	16. Are efforts made to encourage students to develop working prototypes based on projects and/or to publish papers?	Yes	—			
	17. Particulars of industry supported laboratories established, if any. Is impact analysis of industry interaction made and if, so, is action taken based on the results of the analysis?	Yes	—			
	18. Are students encouraged to undergo internships or summer training? If so, what is the minimum duration of internship?	Yes	—			
	19. Is student feedback taken on the internship experience?	Yes	—			
	20. Is Impact analysis of internship made and action taken on the basis of the results of the analysis?	Yes	—			
	21. Average number of days from the date of last semester-end examination till the declaration of results	2 months Yes	—			
	22. Average percentage of student complaints / grievances about evaluation against total number of students appeared in the examination during last academic year		—			
<b>III.</b>	<b>Course Outcomes and Program Outcomes</b>					
	1. Are COs defined for every course?	Yes	Yes	A		

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	2. Are COs embedded in syllabus?	yes	yes	A		
	3. Are course articulation matrix, program articulation matrix tables prepared?	yes	yes	A		
	4. Is appropriate assessment process for attainment of course outcomes followed including data collection, verification, analysis and decision making?	yes	yes	A		
	5. Is a well-defined process followed for determining attainment of POs and PSOs?	yes	yes	B		process yet to be verified.
	6. Are the records of computation of attainment of POs and PSOs maintained?	yes	—			
	<b>Students' Performance</b>					
IV	1. Enrollment ratio	100	98.3%	A		98.3%
	2. Percentage of students who graduate the program in four years, without repeat of any course?	NA	—			
	3. Percentage of students graduating the program with backlogs within 4 years?		—			
	4. Mean CGPA of students (who were promoted to 3 <sup>rd</sup> year) at the end of 2 <sup>nd</sup> year	6.65	6.65	B		Can be improved.
	5. Percentage of students placed in companies through on and off-campus recruitment.	NA	—			
	6. Percentage of final year students admitted to higher studies		—			

1. The first part of the paper is devoted to a general discussion of the problem.

2. In the second part we shall consider the case of a homogeneous medium.

3. The third part is devoted to the study of the properties of the solutions.

4. In the fourth part we shall discuss the asymptotic behavior of the solutions.

5. The fifth part is devoted to the study of the stability of the solutions.

6. In the sixth part we shall consider the case of an inhomogeneous medium.

7. The seventh part is devoted to the study of the properties of the solutions.

8. In the eighth part we shall discuss the asymptotic behavior of the solutions.

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15. The fifteenth part is devoted to the study of the properties of the solutions.

16. In the sixteenth part we shall discuss the asymptotic behavior of the solutions.

17. The seventeenth part is devoted to the study of the stability of the solutions.

18. In the eighteenth part we shall consider the case of an inhomogeneous medium.

	7. Number of students turned entrepreneurs in Engineering and Technology		—			
	8. Number of Professional societies/chapters in the department	20	1	B		Can be improved
	9. Number of Engineering events organized at institute at: a. Institute Level b. State Level c. National Level d. International Level	1	2	B		Can be improved
	10. Does the department publish technical magazines and Newsletters?	—	NO			
	11. Are students associated in the above publications?	—	NO			
	12. Number of students who participated in inter-institute events • Within state 5 • Outside state • Number of prizes/ awards received in the events. 5		5	A		
V	<b>A. Faculty Information and Contribution</b>					
	1. Student faculty ratio	1:20	20:1	C		
	2. Faculty cadre proportion Prof: Assoc Prof: Asst Prof	22	1:1:1	A		
	3. Number of Faculty with PhD qualification	1	1	B		

1. The first part of the document is a list of the names of the authors of the papers included in the volume. The names are listed in alphabetical order of the last name.

2. The second part of the document is a list of the titles of the papers. The titles are listed in alphabetical order of the first word.

3. The third part of the document is a list of the authors of the papers. The authors are listed in alphabetical order of the last name.

4. The fourth part of the document is a list of the titles of the papers. The titles are listed in alphabetical order of the first word.

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6. The sixth part of the document is a list of the titles of the papers. The titles are listed in alphabetical order of the first word.



4. Number of Faculty with PG Degree qualification	13	13	A		
5. Faculty retention (%) in the Current Academic Year?		100%	A		
6. Number of research publications of faculty in the year	6	6	B		Can be improved
7. Number of faculty who participated in FDPs, and duration of the programs.	6	6 1 week	A		one faculty participated in 2 weeks FDP
<b>B. Research and Development</b>					
1. Number of quality research publications in refereed/Scopus indexed journals.	6	6	B		Can be improved
2. Number of faculty awarded PhD during the current academic year	-	NIL			
3. Sponsored research (funded) undertaken and its value in Lakhs of Rupees.		NIL			
4. Number of development activities undertaken by faculty: • Product development • Working models	nil	NIL			
5. Consultancy services offered and their value in Lakhs of Rupees.	-	NIL			
6. Does a well-defined faculty performance appraisal and development system exists and implemented?	Yes	Yes	A		
<b>VI Facilities &amp; Technical Support</b>					
1. Are well-equipped labs and technical supporting staff	Yes	Yes	A		

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	available?	yes				
	2. Are labs well maintained?	yes	yes	A		
	3. Are safety measures followed in the lab?	yes	yes	A		
	4. Is a project laboratory together with necessary facilities available in the department?	yes	<del>yes</del> NO	D		
VII	<b>Continuous Improvement</b>					
	1. Are short falls and weaknesses in the program identified from the analysis of POs and PSOs attainment?	yes	NA			
	2. Are action plans to bridge the shortfalls prepared and implemented? If so, what is the impact of the said implementation with respect to previous academic year?	yes	NA			
	3. Does a criterion exist for conducting academic and administrative audit?	yes	yes	A		
	4. Frequency of audit	once in year	yearly	A		
	5. Are actions taken based on audit report?	yes	yes	A		
	6. a. Percentage of placements in current Academic Year b. Percentage of placements in the previous Academic Year c. Is there any improvement?	NA	NA			

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2. In the second part we shall consider the case of a homogeneous medium.

3. The third part is devoted to the study of the properties of the solutions.

4. Finally, in the fourth part we shall discuss the numerical results.

5. The paper concludes with a summary of the main results.

6. The authors are grateful to the referee for his valuable suggestions.

7. The work was supported by the National Science Foundation.

8. The authors wish to thank the members of the staff for their assistance.

9. The authors are indebted to the referee for his constructive criticism.

10. The authors are also indebted to the referee for his helpful comments.

11. The authors are very grateful to the referee for his kind remarks.

12. The authors are most indebted to the referee for his valuable suggestions.

13. The authors are very grateful to the referee for his kind remarks.

	<p>7.</p> <p>a. Median salary offered to students in the current academic year</p> <p>b. Median salary offered to students in the previous academic year</p> <p>c. Is there any improvement?</p>	NA	NA			
	<p>8.</p> <p>a. Best rank of the students admitted in the current academic year</p> <p>b. Best rank of the students admitted in the previous academic year</p> <p>c. Is there any improvement?</p>	16711 15592	16711 15592 NO	C		

	<p>9.</p> <p>a. Highest rank (in the qualifying examination) of student admitted in the current Academic Year</p> <p>b. Highest rank (in the qualifying examination) of student admitted in the previous Academic year?</p> <p>c. Is there any improvement?</p>	102800 75134	102800 75134 NO	C		
<b>VIII</b>	<b>First Year Academics</b>					
	1. First year student faculty ratio	1:15				
	2. Number of faculty teaching first year, with PhD qualification					



1. The first step in the process of the formation of a new species is the isolation of a population from the rest of the population. This can be achieved by geographical isolation, such as a mountain range or a body of water, or by behavioral isolation, such as a change in mating habits.

2. Once a population is isolated, it can undergo genetic drift, which is a random change in the frequency of alleles in a population. This can lead to the fixation of a particular allele, which is a change in the genetic makeup of the population.

3. Another mechanism of speciation is natural selection, which is the process by which certain traits are favored over others, leading to the evolution of a new species.

4. Speciation can also occur through polyploidization, which is the process by which a cell acquires more than two sets of chromosomes. This can lead to the formation of a new species that is reproductively isolated from the parent species.

5. In conclusion, speciation is a complex process that can occur through various mechanisms, including geographical isolation, genetic drift, natural selection, and polyploidization. Understanding the mechanisms of speciation is essential for understanding the diversity of life on Earth.

	3. Number of faculty teaching first year with PG qualification					
	4. Percentage of students who qualified for promotion to 2 <sup>nd</sup> year from end examinations of first year					
	5. Mean CGPA/percentage of students (who were promoted to Second year) at the end of First year.					
	6. Is a proper assessment process used for determining the attainment of course outcomes?					
	7. Is a proper assessment process used for determining the attainment of relevant POs and PSOs					
	8. Are records of computation of attainment of COs of all first-year courses available?					
	9. Are records of computation of attainment of relevant POs & PSOs of all first-year courses available?					
	10. Are actions taken based on the results of evaluation of POs and PSOs?					
	<b>Student Support Systems</b>					
	<b>A. Mentoring System</b>					
IX	1. Is a comprehensive mentoring system at individual level in place for professional guidance, career advancement and all-round development?	Yes	yes	A		
	2. Is the mentoring system implemented? If yes, Number of students per mentor	Yes, 22	yes	A		1:20 ratio faculty: student

1. The first part of the paper is devoted to the

study of the properties of the

operator  $T$  defined by

$Tf(x) = \int_0^x f(t) dt$

on the space  $L^p$ .

It is shown that  $T$  is a bounded

operator and that its norm is

equal to 1.

In the second part of the paper

we study the properties of the

operator  $S$  defined by

$Sf(x) = \int_0^x f(t) dt$

on the space  $L^p$ .

It is shown that  $S$  is a bounded

operator and that its norm is

equal to 1.

In the third part of the paper

we study the properties of the

operator  $R$  defined by

$Rf(x) = \int_0^x f(t) dt$

on the space  $L^p$ .

It is shown that  $R$  is a bounded

operator and that its norm is

equal to 1.

In the fourth part of the paper

we study the properties of the

operator  $T$  defined by

$Tf(x) = \int_0^x f(t) dt$

on the space  $L^p$ .

It is shown that  $T$  is a bounded

operator and that its norm is

equal to 1.

In the fifth part of the paper

we study the properties of the

operator  $S$  defined by

$Sf(x) = \int_0^x f(t) dt$

on the space  $L^p$ .

It is shown that  $S$  is a bounded

operator and that its norm is

equal to 1.

In the sixth part of the paper

we study the properties of the

operator  $R$  defined by

$Rf(x) = \int_0^x f(t) dt$

on the space  $L^p$ .

It is shown that  $R$  is a bounded

3. Is the mentoring system effective?	Yes	Yes	A		
<b>B. Student feedback on faculty and facilities.</b>					
1. Does a student feedback system exist?	Yes	yes	A		
2. Are the records of action taken on the results of feedback (on faculty) analysis available?	Yes	yes	.		
3. Is the feedback system effective?	Yes	yes	.		
4. Are records of action taken on feedback on facilities available?	Yes	yes	.		
<b>C. Facilities for Self-Learning</b>					
1. Does the department provide scope for self-learning?	Yes	yes	B		Can be improved
2. Are all required facilities, materials, for learning beyond syllabus etc. provided to the students?	Yes	yes	B		Can be improved
3. Are the facilities effectively utilized by the students?	Yes	yes	B		Can be improved
<b>D. Career guidance, Training and Placement</b>					
<b>Career Guidance</b>					
1. Does the college have a Career Guidance or Counseling Cell?	Yes	yes.			
2. If yes, how many students have been utilizing these services?	40	40			
3. How many Career Guidance programs have been conducted in each year?	10	10			
4. How many number of students attended these career	70				

<p>1. The first step in the process of identifying a problem is to define the problem clearly. This involves identifying the symptoms of the problem and determining the scope of the problem.</p>			
<p>2. The second step is to identify the causes of the problem. This involves looking for the underlying factors that are contributing to the problem.</p>			
<p>3. The third step is to identify the stakeholders who are affected by the problem. This involves identifying the individuals, groups, and organizations that are impacted by the problem.</p>			
<p>4. The fourth step is to identify the resources that are available to address the problem. This involves identifying the people, money, and other resources that can be used to solve the problem.</p>			
<p>5. The fifth step is to develop a plan of action. This involves identifying the specific steps that need to be taken to address the problem.</p>			
<p>6. The sixth step is to implement the plan of action. This involves putting the plan into practice and monitoring progress.</p>			
<p>7. The seventh step is to evaluate the results of the plan of action. This involves assessing the effectiveness of the plan and making adjustments as needed.</p>			
<p>8. The eighth step is to document the process. This involves recording the steps that were taken and the results that were achieved.</p>			



guidance programs?					
5. Are students counseled for higher studies?	Yes	yes			
6. Does the College have Academic links/collaborations/MoU, etc with other institutes of higher learning?	Yes	yes			
<b>Training and Placements</b>					
1. Does the college conduct any pre placement training for students' placements?	Yes	yes			
2. Is effective placement policy framed and implemented?	Yes				
3. If yes, then specify the number of hours, areas in which training is imparted.					
4. Does the placement cell maintain the record of job opportunities available for students?	Yes				
5. Did the college organize any company/Industrial visits or guidance camp for students?	—				
6. If yes, number of such visits/camps organized					
7. Are the students provided computers and Internet to search for job, to download application forms or to register for placements drive of the companies etc?	Yes				
8. Does the college subscribe to magazines like Employment News, Rojgar Samachar etc? If yes, give names of magazines.	Yes.				

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The following is a list of the  
 names of the persons who were  
 present at the meeting held at  
 the residence of Mr. J. H.

[Illegible text]

[Illegible text]

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[Illegible text]

[Illegible text]

[Illegible text]

	9. Does the college have a system of registering students at the Employment office of the GoI?	-				
	<b>NSS Activities/Student Clubs/Alumni Association</b>					
	1. Are clubs and NSS effectively functioning?	Yes				
	2. Do students conduct and participate in annual co-curricular and extra-curricular activities. If yes, please mention % of students participate in such activities:	Yes. 60.1.				
	3. Does the college have a registered and functional Alumni Association? If yes, give number of students enrolled	Yes				
	4. Specify Activities of Alumni Association	-				
	<b>Governance, Institutional Support and Financial Resources</b>					
	<b>A. Governance, Institutional Support</b>					
X	1. Are vision and mission statements of Institution available on college website, Principal's Chamber, Library, Conference rooms etc?	Yes				
	2. Are the vision and mission statements appropriately defined and relevant?	Yes				
	3. Is institutional strategic plan (5 years) available?	Yes				
	4. Is there an implementation plan towards achieving the strategic objectives?	Yes				

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5. Is the strategic plan monitored effectively?	Yes.				
6. Is a Governing Body duly constituted and its meetings held regularly?	Yes				
7. Are service rules, policies, procedures, functions and responsibilities published and uploaded on the website?	Yes				
8. Are Minutes of Meetings of Governing Body and Academic council and Action taken reports available?	Yes				
9. Are organizational structure and lists of administrative heads, and committees formed with powers to take administrative decisions, available?	Yes				
10. Is there any Grievance redressal system in place and a cell constituted for this purpose?	Yes				
11. Is evidence of action taken on student/staff grievances available?	Yes				
12. Are financial powers delegated to Principal, HoDs, I/cs, documented?	Yes				
13. Is Mandatory Disclosure as per AISHE & AICTE, placed on website?	Yes				
14. What are institutional practices for integrating IT? (i)Administration (ii)Finance and Accounts (iii)Examination	Yes				





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**B. Budget allocation and utilization**

1. Does the college follow a prescribed procedure for budget formulation, finalization and approval?	Yes				
2. Is the budget allocation adequate at institutional, and program levels?	Yes				
3. What percentage of allocated funds was utilized in the previous year by the Institution and programs?	Yes				

**C. Library and Internet****i. Quality of learning resources**

1. Are learning resources procured as per the requirements provided by the academic departments, ensuring relevance to programs?	Yes				
2. Are AICTE norms followed in respect of number of books & their copies procured?	Yes				
3. Are these learning resources including E-Resources & digital library, easily accessible to students?	Yes				
4. Is adequate support given to students for self-learning activities?	Yes				
5. Is the utilization of learning resources by students and faculty satisfactory?	Yes				

**ii. Internet**

1. Is the available band Width adequate?	Yes				
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relationship between the two

1. From the graph, we can see that the

relationship between the two variables is

2. The graph shows a positive correlation between the

two variables

3. The graph shows a negative correlation between the

two variables

4. The graph shows no correlation between the

two variables

5. The graph shows a positive correlation between the

two variables

6. The graph shows a negative correlation between the

two variables

7. The graph shows no correlation between the

two variables

8. The graph shows a positive correlation between the

two variables

9. The graph shows a negative correlation between the

two variables

10. The graph shows no correlation between the

two variables

11. The graph shows a positive correlation between the

two variables

12. The graph shows a negative correlation between the

two variables

13. The graph shows no correlation between the

two variables

2. Is Wi-Fi available in the college?	Yes				
3. Is there internet access in labs, library, conference rooms & offices of all departments?	Yes				
4. Is adequate security mechanism put in place for protecting the internet transactions?	Yes				
<b>iii. Infrastructural facilities and ambience</b>					
1. Is Campus ambience exemplary /Good / Satisfactory/ Unsatisfactory?	Exemplary				
2. Is Office Space ambience exemplary/Good/ Satisfactory/Unsatisfactory?	Exemplary				
3. Are washrooms well maintained?	Yes				
4. Is adequate parking facility available?	Yes				
5. Are individual Staff rooms available with IT facility?	Yes				
6. Are staff rooms well maintained?	Yes				
7. Is Potable Water facility available?	Yes				
8. Is Power Backup facility available? If so, specify the capacity	Yes				
9. Does the Institute have facilities for alternate sources of energy like: (i) Solar energy (ii) Wheeling to the Grid (iii) Use of LED Bulbs	Yes				



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10. Does the Institute have Rain water harvesting pits?	Yes				
11. Does the institute take any Green campus initiatives such as: (i)Restricted entry of automobiles (ii)Pedestrian friendly path ways (iii)Landscaping with trees and plants	Yes				
12. Does the Institute provide any facility for Disabled/Divyangjan persons easy access to classrooms and Labs?	Yes				
13. Does the institute organize National/International commemorative days, events and festivals?	Yes				
14. Do Seminar halls have adequate ICT facilities?	Yes				
15. Is transportation available for students and staff?	Yes				
16. Is the Canteen maintained as per Food Safety and Standards Act?	Yes				
17. Is Auditorium/Assembly Hall available with all ICT facilities?	Yes				

**Please mention**

**Good Practices, if any**

1. Number of students in each class is reduced
2. Mentoring system is well planned and bound to give best results
- 3.



<p>1. The first step is to identify the problem. In this case, the problem is that the company is not making enough profit.</p>	
<p>2. The next step is to analyze the problem. This involves looking at the data and identifying the causes of the problem.</p>	
<p>3. The third step is to develop a solution. This involves brainstorming ideas and selecting the best one.</p>	
<p>4. The fourth step is to implement the solution. This involves putting the plan into action.</p>	
<p>5. The final step is to evaluate the results. This involves monitoring the progress and making adjustments as needed.</p>	

George Washington

George Washington was the first President of the United States. He was born on February 22, 1732, in Westmoreland County, Virginia. He served as the Commander in Chief of the Continental Army during the American Revolutionary War. He was elected President in 1789 and served two terms until 1797. He is widely regarded as one of the greatest leaders in American history.

**Strengths, if any**

1. Labs are well equipped.
2. Value added Courses such as PFT are conducted.
3. Adequate number of faculty available.

**Weaknesses, if any**

1. Number of publications are less.
2. No R & D projects available.
- 3.

**Concerns, if any**

1. Research need to be strengthened.
2. Department seminar hall is not available.
- 3.

**Deficiencies, if any**

1. Projects lab is not available.
2. Class rooms are not equipped with LCD projects.
- 3.

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**Recommendations, if any**

1. Department library can be provided.
2. Provide laptop/desktop system to every faculty members.
3. Department need to start Technical magazine and news letter.

**Brief report, if any**

1. I visited all the labs. Good number of systems with high end configuration are available to fulfill curriculum requirements.
2. This Audit is very elaborative to expose strengths and weaknesses in terms of faculty, research, publication, laboratory equipment, teaching and learning processes.

**Suggestions for improvising the academic quality:**

1. Provide LCD projector in each class room.
2. Implement project based learning
3. Improve interaction of faculty members with industry through MOUs.

Signature of audit committee member:

K Venkateswara Rao → 11/12/2022

Name of the audit committee member:

Dr. K. VENKATESWARA RAO

Affiliation of the audit committee member:

Professor, CVR College of Engineering,



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**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
Cheeryal(V), Keesara (M), Medchal (D), Telangana state – 501 301

**ACADEMIC AND ADMINISTRATIVE AUDIT REPORT**

\* Grade: A: Very Good, B: Good, C: Adequate, D: deficient

S. No	Criterion	Status		Grade	Exhibits observed	Remarks of Audit Team
		As assessed by department/ institution	As observed by Audit Team			
I.	<b>Vision, Mission and PEOs,</b>		yes			
	1. Are vision and mission statements of the department available?	yes	yes	A		
	2. Are department vision and mission statements consistent with institute statements?	yes	yes	A		
	3. Are the PEOs available?	yes	yes	A		
	4. Does the department follow a defined process for defining vision, mission and PEOs with the participation of all stakeholders-internal and external stake holders?	yes	yes	A		

# UNIT 10: THE HISTORY OF THE UNITED STATES

## LESSON 1: THE EARLY YEARS

Topic: The early years of the United States

Topic	Sub-topics	Key Dates	Key Figures	Key Events	Key Documents
The early years of the United States	1. The first colonies	1607	John Rolfe	Establishment of Jamestown	None
	2. The Pilgrims	1620	William Bradford	Establishment of Plymouth	Mayflower Compact
	3. The Puritans	1630	John Winthrop	Establishment of the Massachusetts Bay Colony	None
	4. The Southern Colonies	1633	None	Establishment of the first plantation	None
The American Revolution	1. The Declaration of Independence	1776	Thomas Jefferson	Declaration of Independence	Declaration of Independence
	2. The Battle of Bunker Hill	1775	None	Battle of Bunker Hill	None
	3. The Battle of the Clouds	1777	None	Battle of the Clouds	None
	4. The Battle of the Clouds	1777	None	Battle of the Clouds	None

*Handwritten notes:*  
The early years of the United States were marked by the establishment of the first colonies and the American Revolution.

	5. Are the vision, mission and PEOs made available on college website, department notice boards, HoD's chamber, laboratories, lab manuals, course files, and curriculum books etc?	Yes	yes	A		
	6. Are the PEOs consistent with the mission of the department indicated in matrix form with proper justification of correlation parameters?	Yes	yes	A		
	<b>Program curriculum and Teaching-Learning (T and L) Process</b>					
	<b>Program Curriculum</b>					
II.	1. Does a defined process exist for design of program curriculum?	Yes	yes	A		
	2. Are the structure and components of curriculum well balanced and appropriate (as per AICTE Guidelines)?	Yes	yes	A		
	3. Is a valid process followed for mapping of curriculum with PEOs and PSOs?	Yes	yes	A		
	4. Is Employability a major consideration in the overall development of the curriculum	Yes	yes	A		
	<b>B. Teaching – Learning Process</b>					
	1. Is an Academic Calendar prepared and adhered to?	Yes	yes	A		
	2. Is evidence of pedagogical initiatives taken, such as collaborative learning, ICT supported teaching etc available?	Yes	yes	B		LED projects not available in class rooms.

1.  $\frac{1}{x^2} = x^{-2}$   
 $\frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}$

**Problem 10**

Find the derivative of  $y = \ln(x^2 + 1)$

$\frac{d}{dx} \ln(x^2 + 1) = \frac{1}{x^2 + 1} \cdot 2x = \frac{2x}{x^2 + 1}$

The derivative of  $\ln(x^2 + 1)$  is  $\frac{2x}{x^2 + 1}$

The derivative of  $\ln(x^2 + 1)$  is  $\frac{2x}{x^2 + 1}$

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The derivative of  $\ln(x^2 + 1)$  is  $\frac{2x}{x^2 + 1}$



3. Does a process exist to identify bright and weak students?	Yes	yes	A		
4. Does the department have measures to encourage bright students with more complex tasks and motivate weak students to perform better?	Yes	yes	A		
5. Does a process exist to allocate teaching load to faculty in the department?	Yes	yes	A		
6. Do faculty in the department practice innovative TL practices such as <ul style="list-style-type: none"> <li>• Collaborative Learning <input checked="" type="checkbox"/> Yes/No</li> <li>• Interaction with student in and <u>outside</u> of class obtaining Feedback <input checked="" type="checkbox"/> Yes/No</li> <li>• Group Learning, Developing Professional Competences. <input checked="" type="checkbox"/> Yes/No</li> <li>• Teaching through value added courses <input checked="" type="checkbox"/> Yes/No</li> <li>• Experiential Learning that facilitates development of Problem-Solving Skills in the <u>students</u> through project based learning <input checked="" type="checkbox"/> Yes/No</li> <li>• Facilitating interaction with various experts in the field through Guest Lectures, Industrial Visits, Field trips thereby making them familiar with occupational awareness. <input checked="" type="checkbox"/> Yes/No</li> </ul>	Yes	yes	A		

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7. Is student feedback on T and L process collected and acted upon?	Yes	yes	A		
8. Do the experiments in laboratory support higher level of Bloom's Taxonomy?	Yes	yes	B		BTL upto 4
9. Is continuous assessment in the laboratory done systematically?	Yes	yes	A		
10. Is a well-defined process followed in the design and validation of question papers as well as for scheme of evaluation of mid-term and semester end examinations?	Yes	yes	A		
11. Are questions mapped with course outcomes, and Blooms Taxonomy levels?	Yes	yes	A		
12. Do the assignments given to students facilitate attainment of COs as well as higher levels of Bloom's Taxonomy?	Yes	yes	B		
13. Is a well-defined process followed for identification of student projects and allocation of guide(s)?	N/A	—			
14. Are the projects relevant to the POs and PSOs and do they contribute to their attainments?	N/A	—			
15. Is a well-defined process followed for monitoring and evaluation of the projects and for assessing individual and team performance?	N/A	—			



	16. Are efforts made to encourage students to develop working prototypes based on projects and/or to publish papers?	Yes	<del>Yes</del> —			
	17. Particulars of industry supported laboratories established, if any. Is impact analysis of industry interaction made and if, so, is action taken based on the results of the analysis?	Yes	<del>Yes</del> —			
	18. Are students encouraged to undergo internships or summer training? If so, what is the minimum duration of internship?	Yes	<del>Yes</del> —			
	19. Is student feedback taken on the internship experience?	Yes	<del>Yes</del> —			
	20. Is Impact analysis of internship made and action taken on the basis of the results of the analysis?	Yes	<del>Yes</del> —			
	21. Average number of days from the date of last semester-end examination till the declaration of results	Yes	<del>Yes</del> —			
	22. Average percentage of student complaints / grievances about evaluation against total number of students appeared in the examination during last academic year	Yes	<del>Yes</del> —			
<b>III.</b>	<b>Course Outcomes and Program Outcomes</b>					
	1. Are COs defined for every course?	Yes	Yes	A		





	2. Are COs embedded in syllabus?	Yes	yes	A		
	3. Are course articulation matrix, program articulation matrix tables prepared?	Yes	yes	A		
	4. Is appropriate assessment process for attainment of course outcomes followed including data collection, verification, analysis and decision making?	Yes	yes	A		
	5. Is a well-defined process followed for determining attainment of POs and PSOs?	Yes	yes	B		
	6. Are the records of computation of attainment of POs and PSOs maintained?	N/A	—			
	<b>Students' Performance</b>					
IV	1. Enrollment ratio	100%	100%	A		
	2. Percentage of students who graduate the program in four years, without repeat of any course?	N/A	—			
	3. Percentage of students graduating the program with backlogs within 4 years?	N/A	—			
	4. Mean CGPA of students (who were promoted to 3 <sup>rd</sup> year) at the end of 2 <sup>nd</sup> year	5.79	5.79	B		Can be improved.
	5. Percentage of students placed in companies through on and off-campus recruitment.	N/A	—			
	6. Percentage of final year students admitted to higher studies	N/A	—			

Chemical Equilibrium

1.  $2\text{SO}_2(g) + \text{O}_2(g) \rightleftharpoons 2\text{SO}_3(g)$   
 At equilibrium, the concentration of  $\text{SO}_2$  is  $0.4 \text{ mol/L}$ , the concentration of  $\text{O}_2$  is  $0.2 \text{ mol/L}$ , and the concentration of  $\text{SO}_3$  is  $0.8 \text{ mol/L}$ . Calculate the equilibrium constant  $K_c$ .

2.  $\text{N}_2(g) + 3\text{H}_2(g) \rightleftharpoons 2\text{NH}_3(g)$   
 At equilibrium, the concentration of  $\text{N}_2$  is  $0.1 \text{ mol/L}$ , the concentration of  $\text{H}_2$  is  $0.3 \text{ mol/L}$ , and the concentration of  $\text{NH}_3$  is  $0.2 \text{ mol/L}$ . Calculate the equilibrium constant  $K_c$ .

3.  $\text{PCl}_5(g) \rightleftharpoons \text{PCl}_3(g) + \text{Cl}_2(g)$   
 At equilibrium, the concentration of  $\text{PCl}_5$  is  $0.1 \text{ mol/L}$ , the concentration of  $\text{PCl}_3$  is  $0.2 \text{ mol/L}$ , and the concentration of  $\text{Cl}_2$  is  $0.2 \text{ mol/L}$ . Calculate the equilibrium constant  $K_c$ .

4.  $\text{H}_2(g) + \text{I}_2(g) \rightleftharpoons 2\text{HI}(g)$   
 At equilibrium, the concentration of  $\text{H}_2$  is  $0.1 \text{ mol/L}$ , the concentration of  $\text{I}_2$  is  $0.1 \text{ mol/L}$ , and the concentration of  $\text{HI}$  is  $0.2 \text{ mol/L}$ . Calculate the equilibrium constant  $K_c$ .

5.  $\text{CO}(g) + \text{H}_2\text{O}(g) \rightleftharpoons \text{CO}_2(g) + \text{H}_2(g)$   
 At equilibrium, the concentration of  $\text{CO}$  is  $0.1 \text{ mol/L}$ , the concentration of  $\text{H}_2\text{O}$  is  $0.1 \text{ mol/L}$ , the concentration of  $\text{CO}_2$  is  $0.1 \text{ mol/L}$ , and the concentration of  $\text{H}_2$  is  $0.1 \text{ mol/L}$ . Calculate the equilibrium constant  $K_c$ .

6.  $\text{N}_2(g) + \text{O}_2(g) \rightleftharpoons 2\text{NO}(g)$   
 At equilibrium, the concentration of  $\text{N}_2$  is  $0.1 \text{ mol/L}$ , the concentration of  $\text{O}_2$  is  $0.1 \text{ mol/L}$ , and the concentration of  $\text{NO}$  is  $0.2 \text{ mol/L}$ . Calculate the equilibrium constant  $K_c$ .

7.  $\text{CH}_4(g) + \text{H}_2\text{O}(g) \rightleftharpoons \text{CO}(g) + 3\text{H}_2(g)$   
 At equilibrium, the concentration of  $\text{CH}_4$  is  $0.1 \text{ mol/L}$ , the concentration of  $\text{H}_2\text{O}$  is  $0.1 \text{ mol/L}$ , the concentration of  $\text{CO}$  is  $0.1 \text{ mol/L}$ , and the concentration of  $\text{H}_2$  is  $0.3 \text{ mol/L}$ . Calculate the equilibrium constant  $K_c$ .

8.  $\text{C}_2\text{H}_6(g) \rightleftharpoons \text{C}_2\text{H}_4(g) + \text{H}_2(g)$   
 At equilibrium, the concentration of  $\text{C}_2\text{H}_6$  is  $0.1 \text{ mol/L}$ , the concentration of  $\text{C}_2\text{H}_4$  is  $0.1 \text{ mol/L}$ , and the concentration of  $\text{H}_2$  is  $0.1 \text{ mol/L}$ . Calculate the equilibrium constant  $K_c$ .

9.  $\text{H}_2(g) + \text{Cl}_2(g) \rightleftharpoons 2\text{HCl}(g)$   
 At equilibrium, the concentration of  $\text{H}_2$  is  $0.1 \text{ mol/L}$ , the concentration of  $\text{Cl}_2$  is  $0.1 \text{ mol/L}$ , and the concentration of  $\text{HCl}$  is  $0.2 \text{ mol/L}$ . Calculate the equilibrium constant  $K_c$ .

10.  $\text{N}_2(g) + 3\text{H}_2(g) \rightleftharpoons 2\text{NH}_3(g)$   
 At equilibrium, the concentration of  $\text{N}_2$  is  $0.1 \text{ mol/L}$ , the concentration of  $\text{H}_2$  is  $0.3 \text{ mol/L}$ , and the concentration of  $\text{NH}_3$  is  $0.2 \text{ mol/L}$ . Calculate the equilibrium constant  $K_c$ .

11.  $\text{CO}(g) + \text{H}_2\text{O}(g) \rightleftharpoons \text{CO}_2(g) + \text{H}_2(g)$   
 At equilibrium, the concentration of  $\text{CO}$  is  $0.1 \text{ mol/L}$ , the concentration of  $\text{H}_2\text{O}$  is  $0.1 \text{ mol/L}$ , the concentration of  $\text{CO}_2$  is  $0.1 \text{ mol/L}$ , and the concentration of  $\text{H}_2$  is  $0.1 \text{ mol/L}$ . Calculate the equilibrium constant  $K_c$ .

12.  $\text{N}_2(g) + \text{O}_2(g) \rightleftharpoons 2\text{NO}(g)$   
 At equilibrium, the concentration of  $\text{N}_2$  is  $0.1 \text{ mol/L}$ , the concentration of  $\text{O}_2$  is  $0.1 \text{ mol/L}$ , and the concentration of  $\text{NO}$  is  $0.2 \text{ mol/L}$ . Calculate the equilibrium constant  $K_c$ .

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	7. Number of students turned entrepreneurs in Engineering and Technology	N/A	-			
	8. Number of Professional societies/chapters in the department	N/A	NFL	B		Can be created
	9. Number of Engineering events organized at institute at: a. Institute Level b. State Level c. National Level d. International Level	2	2	B		Can be improved
	10. Does the department publish technical magazines and Newsletters?	No	No			
	11. Are students associated in the above publications?	No	No			
	12. Number of students who participated in inter-institute events • Within state • Outside state • Number of prizes/ awards received in the events.	0	0	C		
<b>V</b>	<b>A. Faculty Information and Contribution</b>					
	1. Student faculty ratio	20:1	20:1	C		
	2. Faculty cadre proportion prof: asst prof: asst prof	0:0:4	0:0:4	C		
	3. Number of Faculty with PhD qualification	0	0	C		

1. From the above, we have to see the  
 conditions of equilibrium

(a)  $\Sigma F_x = 0$   
 $\Sigma F_y = 0$   
 $\Sigma M = 0$

(b) From the above, we have to see the  
 conditions of equilibrium

(a)  $\Sigma F_x = 0$   
 $\Sigma F_y = 0$   
 $\Sigma M = 0$

(b) From the above, we have to see the  
 conditions of equilibrium



4. Number of Faculty with PG Degree qualification	2	4	A		
5. Faculty retention (%) in the Current Academic Year?	100%	100%	A		
6. Number of research publications of faculty in the year	1	1	C		
7. Number of faculty who participated in FDPs, and duration of the programs.	1	4 week -	A		
<b>B. Research and Development</b>					
1. Number of quality research publications in refereed/Scopus indexed journals.		1	C		
2. Number of faculty awarded PhD during the current academic year	NIL	NIL			
3. Sponsored research (funded) undertaken and its value in Lakhs of Rupees.	NIL	NIL			
4. Number of development activities undertaken by faculty: • Product development • Working models	NIL	NIL			
5. Consultancy services offered and their value in Lakhs of Rupees.	NIL	NIL			
6. Does a well-defined faculty performance appraisal and development system exists and implemented?	Yes	Yes	A		
<b>VI Facilities &amp; Technical Support</b>					
1. Are well-equipped labs and technical supporting staff					

1. *Staphylococcus aureus*

2. *Streptococcus pneumoniae*

3. *Escherichia coli*

4. *Salmonella typhi*

5. *Shigella flexneri*

6. *Yersinia pestis*

7. *Clostridium botulinum*

8. *Legionella pneumophila*

9. *Mycobacterium tuberculosis*

10. *Haemophilus influenzae*

11. *Neisseria meningitidis*

12. *Campylobacter jejuni*

13. *Brucella abortus*

14. *Coccidioides immitis*

15. *Histoplasma capsulatum*

16. *Cryptosporidium parvum*

17. *Toxoplasma gondii*

18. *Giardia lamblia*

19. *Microsporidium*

20. *Plasmodium falciparum*

21. *Trypanosoma brucei*

22. *Leishmania donovani*

23. *Amoeba*

24. *Parasitology*

25. *Microbiology*

26. *Bacteriology*

27. *Immunology*

28. *Cell Biology*

29. *Molecular Biology*

30. *Genetics*

31. *Developmental Biology*

32. *Plant Biology*

33. *Zoology*

34. *Physiology*

35. *Ecology*

36. *Evolutionary Biology*

37. *Systematics*

38. *Biotechnology*

39. *Biophysics*

40. *Biostatistics*

41. *Public Health*

42. *Environmental Health*

43. *Occupational Health*

44. *Forensic Microbiology*

45. *Food Microbiology*

46. *Water Microbiology*

47. *Antimicrobial Pharmacology*

48. *Vaccinology*

49. *Immunization*

50. *Antigen Presentation*

51. *Cell Signaling*

52. *Gene Expression*

53. *Protein Synthesis*

54. *Metabolism*

55. *Energy Metabolism*

56. *Photosynthesis*

57. *Respiration*

58. *Cellular Respiration*

59. *Cellular Metabolism*

60. *Enzymology*

61. *Enzyme Kinetics*

62. *Enzyme Regulation*

63. *Enzyme Mechanism*

64. *Enzyme Evolution*

65. *Enzyme Biotechnology*

66. *Enzyme Purification*

67. *Enzyme Characterization*

68. *Enzyme Assays*

69. *Enzyme Immobilization*

70. *Enzyme Engineering*

71. *Enzyme Design*

72. *Enzyme Mimicry*

73. *Enzyme Inhibition*

74. *Enzyme Activation*

75. *Enzyme Stability*

76. *Enzyme Storage*

77. *Enzyme Transport*

78. *Enzyme Localization*

79. *Enzyme Trafficking*

80. *Enzyme Signaling*

81. *Enzyme Regulation*

82. *Enzyme Activity*

83. *Enzyme Kinetics*

84. *Enzyme Mechanism*

85. *Enzyme Evolution*

86. *Enzyme Biotechnology*

87. *Enzyme Purification*

88. *Enzyme Characterization*

89. *Enzyme Assays*

90. *Enzyme Immobilization*

91. *Enzyme Engineering*

92. *Enzyme Design*

	available?	yes	yes	A		
	2. Are labs well maintained?	yes	yes	A		
	3. Are safety measures followed in the lab?	yes	yes	A		
	4. Is a project laboratory together with necessary facilities available in the department?	yes	yes	D		
VII	<b>Continuous Improvement</b>					
	1. Are short falls and weaknesses in the program identified from the analysis of POs and PSOs attainment?	n/a	NA			
	2. Are action plans to bridge the shortfalls prepared and implemented? If so, what is the impact of the said implementation with respect to previous academic year?	n/a	NA			
	3. Does a criterion exist for conducting academic and administrative audit?	yes	yes	A		
	4. Frequency of audit		yearly	A		
	5. Are actions taken based on audit report?		NA	-		It is just time AAA.
	6.					
a. Percentage of placements in current Academic Year	n/a	NA				
b. Percentage of placements in the previous Academic Year		NA				
c. Is there any improvement?		NA				

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	<p>7.</p> <p>a. Median salary offered to students in the current academic year</p> <p>b. Median salary offered to students in the previous academic year</p> <p>c. Is there any improvement?</p>	<p>NA</p>	<p>NA</p>			
	<p>8.</p> <p>a. Best rank of the students admitted in the current academic year</p> <p>b. Best rank of the students admitted in the previous academic year</p> <p>c. Is there any improvement?</p>	<p>22084</p> <p>13916</p> <p>no</p>	<p>22084</p> <p>13916</p> <p>NO</p>	<p>C</p>		

	<p>9.</p> <p>a. Highest rank (in the qualifying examination) of student admitted in the current Academic Year</p> <p>b. Highest rank (in the qualifying examination) of student admitted in the previous Academic year?</p> <p>c. Is there any improvement?</p>	<p>36925</p> <p>29937</p> <p>no</p>	<p>36975</p> <p>29937</p> <p>NO</p>	<p>C</p>		
<p><b>VIII</b></p>	<p><b>First Year Academics</b></p>					
	<p>1. First year student faculty ratio</p>					
	<p>2. Number of faculty teaching first year, with PhD qualification</p>					



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64. The sixty-fourth part is a list of methods.

65. The sixty-fifth part is a list of techniques.

66. The sixty-sixth part is a list of procedures.

	3. Number of faculty teaching first year with PG qualification					
	4. Percentage of students who qualified for promotion to 2 <sup>nd</sup> year from end examinations of first year					
	5. Mean CGPA/percentage of students (who were promoted to Second year) at the end of First year.					
	6. Is a proper assessment process used for determining the attainment of course outcomes?					
	7. Is a proper assessment process used for determining the attainment of relevant POs and PSOs					
	8. Are records of computation of attainment of COs of all first-year courses available?					
	9. Are records of computation of attainment of relevant POs & PSOs of all first-year courses available?					
	10. Are actions taken based on the results of evaluation of POs and PSOs?					
	<b>Student Support Systems</b>					
	<b>A. Mentoring System</b>					
<b>IX</b>	1. Is a comprehensive mentoring system at individual level in place for professional guidance, career advancement and all-round development?	Yes	yes	A		
	2. Is the mentoring system implemented? If yes, Number of students per mentor	Yes	yes	A		

The first step is to identify the variables in the model. In this case, the variables are the number of hours worked (H), the wage rate (W), and the non-labor income (Y). The production function is given by  $Y = WH$ , where  $Y$  is the output,  $W$  is the wage rate, and  $H$  is the number of hours worked. The budget constraint is given by  $Y + Y_0 = WH + Y_0$ , where  $Y_0$  is the non-labor income. The utility function is given by  $U = Y + Y_0$ , where  $U$  is the utility and  $Y$  is the output.

The second step is to derive the first-order conditions for the utility maximization problem. The Lagrangian function is given by  $\mathcal{L} = Y + Y_0 - \lambda(Y - WH) - \mu(Y + Y_0 - WH - Y_0)$ . The first-order conditions are given by  $\frac{\partial \mathcal{L}}{\partial H} = W - \lambda = 0$ ,  $\frac{\partial \mathcal{L}}{\partial Y} = 1 - \lambda - \mu = 0$ ,  $\frac{\partial \mathcal{L}}{\partial \lambda} = Y - WH = 0$ , and  $\frac{\partial \mathcal{L}}{\partial \mu} = Y + Y_0 - WH - Y_0 = 0$ .

The third step is to solve the first-order conditions for the optimal values of the variables. From the first-order conditions, we can derive the optimal values of the variables. The optimal number of hours worked is given by  $H = \frac{W}{W} = 1$ . The optimal output is given by  $Y = WH = 1 \cdot W = W$ . The optimal utility is given by  $U = Y + Y_0 = W + Y_0$ .

The fourth step is to interpret the results. The optimal number of hours worked is 1, which is independent of the wage rate. The optimal output is equal to the wage rate, and the optimal utility is equal to the wage rate plus the non-labor income.

The fifth step is to discuss the implications of the results. The results show that the optimal number of hours worked is 1, which is independent of the wage rate. This is because the utility function is linear in the output, and the production function is linear in the number of hours worked.

The sixth step is to conclude the analysis. The analysis shows that the optimal number of hours worked is 1, the optimal output is equal to the wage rate, and the optimal utility is equal to the wage rate plus the non-labor income.

The seventh step is to provide a final summary. The summary states that the optimal number of hours worked is 1, the optimal output is equal to the wage rate, and the optimal utility is equal to the wage rate plus the non-labor income.

The eighth step is to provide a final conclusion. The conclusion states that the optimal number of hours worked is 1, the optimal output is equal to the wage rate, and the optimal utility is equal to the wage rate plus the non-labor income.

3. Is the mentoring system effective?	Yes	yes	A		
<b>B. Student feedback on faculty and facilities.</b>					
1. Does a student feedback system exist?	Yes	yes	A		
2. Are the records of action taken on the results of feedback (on faculty) analysis available?	Yes	yes	-		
3. Is the feedback system effective?	Yes	yes	-		
4. Are records of action taken on feedback on facilities available?	Yes	yes	-		
<b>C. Facilities for Self-Learning</b>					
1. Does the department provide scope for self-learning?	Yes	yes	B		Can be improved
2. Are all required facilities, materials, for learning beyond syllabus etc. provided to the students?	Yes	yes	B		"
3. Are the facilities effectively utilized by the students?	Yes	yes	B		"
<b>D. Career guidance, Training and Placement</b>					
<b>Career Guidance</b>					
1. Does the college have a Career Guidance or Counseling Cell?	Yes	yes			
2. If yes, how many students have been utilizing these services?					
3. How many Career Guidance programs have been conducted in each year?					
4. How many number of students attended these career					

Good morning

Good afternoon

Good evening

Good night

Goodbye

Good luck

Good work

Good idea

Good plan

Good result

Good progress

Good communication

Good teamwork

Good leadership

Good example

Good practice

Good habit

Good attitude

Good character

Good values

Good principles

Good standards

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guidance programs?					
5. Are students counseled for higher studies?					
6. Does the College have Academic links/ collaborations/MoU, etc with other institutes of higher learning?					
<b>Training and Placements</b>					
1. Does the college conduct any pre placement training for students' placements?		yes			
2. Is effective placement policy framed and implemented?					
3. If yes, then specify the number of hours, areas in which training is imparted.					
4. Does the placement cell maintain the record of job opportunities available for students?					
5. Did the college organize any company/Industrial visits or guidance camp for students?					
6. If yes, number of such visits/camps organized					
7. Are the students provided computers and Internet to search for job, to download application forms or to register for placements drive of the companies etc?					
8. Does the college subscribe to magazines like Employment News, Rojgar Samachar etc? If yes, give names of magazines.					

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	9. Does the college have a system of registering students at the Employment office of the GoI?					
	<b>NSS Activities/Student Clubs/Alumni Association</b>					
	1. Are clubs and NSS effectively functioning?					
	2. Do students conduct and participate in annual co-curricular and extra-curricular activities. If yes, please mention % of students participate in such activities:					
	3. Does the college have a registered and functional Alumni Association? If yes, give number of students enrolled					
	4. Specify Activities of Alumni Association					
	<b>Governance, Institutional Support and Financial Resources</b>					
	<b>A. Governance, Institutional Support</b>					
X	1. Are vision and mission statements of Institution available on college website, Principal's Chamber, Library, Conference rooms etc?					
	2. Are the vision and mission statements appropriately defined and relevant?					
	3. Is institutional strategic plan (5 years) available?					
	4. Is there an implementation plan towards achieving the strategic objectives?					

1. The first step is to identify the problem.

2. Next, you need to define the objectives.

3. Then, you should analyze the data.

4. After that, you can start to implement the solution.

5. Finally, you should evaluate the results.

6. The last step is to document the process.

7. This will help you to improve the process in the future.

8. It is important to have a clear plan.

9. You should also have a budget.

10. The plan should be realistic.

11. It should be achievable.

12. The plan should be flexible.

13. You should be able to adapt to changes.

14. The plan should be measurable.

15. You should be able to track progress.

16. The plan should be time-bound.

17. You should have a deadline.

18. The plan should be reviewed.

19. You should check in regularly.

20. The plan should be updated.

21. You should be able to adjust the plan.

22. The plan should be communicated.

23. Everyone should know what to do.

5. Is the strategic plan monitored effectively?					
6. Is a Governing Body duly constituted and its meetings held regularly?					
7. Are service rules, policies, procedures, functions and responsibilities published and uploaded on the website?					
8. Are Minutes of Meetings of Governing Body and Academic council and Action taken reports available?					
9. Are organizational structure and lists of administrative heads, and committees formed with powers to take administrative decisions, available?					
10. Is there any Grievance redressal system in place and a cell constituted for this purpose?					
11. Is evidence of action taken on student/staff grievances available?					
12. Are financial powers delegated to Principal, HoDs, I/cs, documented?					
13. Is Mandatory Disclosure as per AISHE & AICTE, placed on website?					
14. What are institutional practices for integrating IT? (i)Administration (ii)Finance and Accounts (iii)Examination					



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<b>B. Budget allocation and utilization</b>					
1. Does the college follow a prescribed procedure for budget formulation, finalization and approval?					
2. Is the budget allocation adequate at institutional, and program levels?					
3. What percentage of allocated funds was utilized in the previous year by the Institution and programs?					
<b>C. Library and Internet</b>					
<b>i. Quality of learning resources</b>					
1. Are learning resources procured as per the requirements provided by the academic departments, ensuring relevance to programs?					
2. Are AICTE norms followed in respect of number of books & their copies procured?					
3. Are these learning resources including E-Resources & digital library, easily accessible to students?					
4. Is adequate support given to students for self-learning activities?					
5. Is the utilization of learning resources by students and faculty satisfactory?					
<b>ii. Internet</b>					
1. Is the available band Width adequate?					

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2. Is Wi-Fi available in the college?					
3. Is there internet access in labs, library, conference rooms & offices of all departments?					
4. Is adequate security mechanism put in place for protecting the internet transactions?					
<b>iii. Infrastructural facilities and ambience</b>					
1. Is Campus ambience exemplary /Good / Satisfactory/ Unsatisfactory?					
2. Is Office Space ambience exemplary/Good/ Satisfactory/Unsatisfactory?					
3. Are washrooms well maintained?					
4. Is adequate parking facility available?					
5. Are individual Staff rooms available with IT facility?					
6. Are staff rooms well maintained?					
7. Is Potable Water facility available?					
8. Is Power Backup facility available? If so, specify the capacity					
9. Does the Institute have facilities for alternate sources of energy like: (i) Solar energy (ii) Wheeling to the Grid (iii) Use of LED Bulbs					

Experiment 10

1. The purpose of this experiment is to determine the molar mass of a polymer by measuring the osmotic pressure of a solution of the polymer in a solvent.

2. The osmotic pressure of a solution is defined as the pressure that must be applied to the solution to prevent the flow of solvent into the solution through a semipermeable membrane.

3. The osmotic pressure of a solution is directly proportional to the molar concentration of the solute particles in the solution.

4. The molar mass of a polymer can be determined by measuring the osmotic pressure of a solution of the polymer in a solvent and knowing the concentration of the solution.

5. The molar mass of a polymer can be determined by measuring the osmotic pressure of a solution of the polymer in a solvent and knowing the concentration of the solution.

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13. The molar mass of a polymer can be determined by measuring the osmotic pressure of a solution of the polymer in a solvent and knowing the concentration of the solution.



10. Does the Institute have Rain water harvesting pits?					
11. Does the institute take any Green campus initiatives such as: (i)Restricted entry of automobiles (ii)Pedestrian friendly path ways (iii)Landscaping with trees and plants					
12. Does the Institute provide any facility for Disabled/Divyangjan persons easy access to classrooms and Labs?					
13. Does the institute organize National/International commemorative days, events and festivals?					
14. Do Seminar halls have adequate ICT facilities?					
15. Is transportation available for students and staff?					
16. Is the Canteen maintained as per Food Safety and Standards Act?					
17. Is Auditorium/Assembly Hall available with all ICT facilities?					

**Please mention**

**Good Practices, if any**

1. Number of Students in each class is reduced, well below 60.
2. Mentoring system is well planned. Gives best results.
- 3.

1. The first part of the problem is to find the value of  $\alpha$  such that the function  $f(x) = \alpha x^2 + (1-\alpha)x + 1$  is a probability density function. This means that  $f(x) \geq 0$  for all  $x$  and  $\int_{-\infty}^{\infty} f(x) dx = 1$ .

2. To find  $\alpha$ , we first need to determine the support of the distribution. Since  $f(x) \geq 0$ , we have  $\alpha x^2 + (1-\alpha)x + 1 \geq 0$ . This is a quadratic inequality. The roots of the equation  $\alpha x^2 + (1-\alpha)x + 1 = 0$  are  $x = \frac{-(1-\alpha) \pm \sqrt{(1-\alpha)^2 - 4\alpha}}{2\alpha}$ .

3. For  $f(x) \geq 0$  for all  $x$ , the discriminant must be non-positive:  $(1-\alpha)^2 - 4\alpha \leq 0$ . This simplifies to  $\alpha^2 - 2\alpha + 1 - 4\alpha \leq 0$ , which is  $\alpha^2 - 6\alpha + 1 \leq 0$ . The roots of this quadratic are  $\alpha = 3 \pm 2\sqrt{2}$ . Since  $\alpha > 0$ , we have  $0 < \alpha \leq 3 - 2\sqrt{2}$ .

4. Now, we integrate  $f(x)$  over its support to find  $\alpha$ . The support is  $[-\frac{1-\alpha}{\alpha}, \frac{1-\alpha}{\alpha}]$ . The integral is  $\int_{-\frac{1-\alpha}{\alpha}}^{\frac{1-\alpha}{\alpha}} (\alpha x^2 + (1-\alpha)x + 1) dx = 1$ . This gives  $\alpha \left[ \frac{x^3}{3} + \frac{(1-\alpha)x^2}{2} + x \right]_{-\frac{1-\alpha}{\alpha}}^{\frac{1-\alpha}{\alpha}} = 1$ .

5. After simplification, we get  $\alpha \left[ \frac{2(1-\alpha)^3}{3\alpha^3} + \frac{(1-\alpha)^3}{\alpha^2} + \frac{2(1-\alpha)}{\alpha} \right] = 1$ . This simplifies to  $\frac{2(1-\alpha)^3}{3\alpha^2} + \frac{(1-\alpha)^3}{\alpha} + 2(1-\alpha) = \frac{1}{\alpha}$ .

6. Multiplying through by  $\alpha^2$ , we get  $2(1-\alpha)^3 + \alpha(1-\alpha)^3 + 2\alpha^2(1-\alpha) = \alpha$ . This simplifies to  $2(1-\alpha)^3 + \alpha(1-\alpha)^3 + 2\alpha^2(1-\alpha) - \alpha = 0$ .

7. Factoring out  $(1-\alpha)$ , we get  $(1-\alpha)[2(1-\alpha)^2 + \alpha(1-\alpha)^2 + 2\alpha^2 - 1] = 0$ . Since  $1-\alpha \neq 0$ , we have  $2(1-\alpha)^2 + \alpha(1-\alpha)^2 + 2\alpha^2 - 1 = 0$ .

8. This simplifies to  $2(1-\alpha)^2 + \alpha(1-\alpha)^2 + 2\alpha^2 - 1 = 0$ . This is a cubic equation in  $\alpha$ . The roots are  $\alpha = 3 - 2\sqrt{2}$ ,  $\alpha = 3 + 2\sqrt{2}$ , and  $\alpha = 1$ .

9. Since  $\alpha > 0$  and  $\alpha \leq 3 - 2\sqrt{2}$ , the only valid solution is  $\alpha = 3 - 2\sqrt{2}$ .

10. Finally, we find the value of  $\alpha$  such that  $f(x) \geq 0$  for all  $x$  and  $\int_{-\infty}^{\infty} f(x) dx = 1$ . The value of  $\alpha$  is  $3 - 2\sqrt{2}$ .

Answer:  $\alpha = 3 - 2\sqrt{2}$

11. The second part of the problem is to find the value of  $\alpha$  such that the function  $f(x) = \alpha x^2 + (1-\alpha)x + 1$  is a probability density function. This means that  $f(x) \geq 0$  for all  $x$  and  $\int_{-\infty}^{\infty} f(x) dx = 1$ .

12. To find  $\alpha$ , we first need to determine the support of the distribution. Since  $f(x) \geq 0$ , we have  $\alpha x^2 + (1-\alpha)x + 1 \geq 0$ . This is a quadratic inequality. The roots of the equation  $\alpha x^2 + (1-\alpha)x + 1 = 0$  are  $x = \frac{-(1-\alpha) \pm \sqrt{(1-\alpha)^2 - 4\alpha}}{2\alpha}$ .

13. For  $f(x) \geq 0$  for all  $x$ , the discriminant must be non-positive:  $(1-\alpha)^2 - 4\alpha \leq 0$ . This simplifies to  $\alpha^2 - 2\alpha + 1 - 4\alpha \leq 0$ , which is  $\alpha^2 - 6\alpha + 1 \leq 0$ . The roots of this quadratic are  $\alpha = 3 \pm 2\sqrt{2}$ . Since  $\alpha > 0$ , we have  $0 < \alpha \leq 3 - 2\sqrt{2}$ .

14. Now, we integrate  $f(x)$  over its support to find  $\alpha$ . The support is  $[-\frac{1-\alpha}{\alpha}, \frac{1-\alpha}{\alpha}]$ . The integral is  $\int_{-\frac{1-\alpha}{\alpha}}^{\frac{1-\alpha}{\alpha}} (\alpha x^2 + (1-\alpha)x + 1) dx = 1$ . This gives  $\alpha \left[ \frac{x^3}{3} + \frac{(1-\alpha)x^2}{2} + x \right]_{-\frac{1-\alpha}{\alpha}}^{\frac{1-\alpha}{\alpha}} = 1$ .

15. After simplification, we get  $\alpha \left[ \frac{2(1-\alpha)^3}{3\alpha^3} + \frac{(1-\alpha)^3}{\alpha^2} + \frac{2(1-\alpha)}{\alpha} \right] = 1$ . This simplifies to  $\frac{2(1-\alpha)^3}{3\alpha^2} + \frac{(1-\alpha)^3}{\alpha} + 2(1-\alpha) = \frac{1}{\alpha}$ .

16. Multiplying through by  $\alpha^2$ , we get  $2(1-\alpha)^3 + \alpha(1-\alpha)^3 + 2\alpha^2(1-\alpha) = \alpha$ . This simplifies to  $2(1-\alpha)^3 + \alpha(1-\alpha)^3 + 2\alpha^2(1-\alpha) - \alpha = 0$ .

**Strengths, if any**

1. Labs are well equipped.
2. Value added Courses are available & conducted.
3. Adequate number of Faculty available

**Weaknesses, if any**

1. Number of Faculty Publications are less.
2. No R & D projects available.
- 3.

**Concerns, if any**

1. Research need to be strengthened.
2. Department Seminar Hall not available.
- 3.

**Deficiencies, if any**

1. Projects lab is not available.
2. Class rooms are not equipped with LCD Projectors.
- 3.

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**Recommendations, if any**

1. Provide Department Library.
2. Provide Laptop / Desktop to every faculty member.
3. Department need to start technical magazine and news letter.

**Brief report, if any**

1. Good number of well configured systems are available to implement Curriculum.
2. This auditing is well designed to expose strengths and weaknesses of the programme.

**Suggestions for improvising the academic quality:**

1. Provide LCD Projector in each class room.
2. Improve Project based Learning.
3. Faculty interaction with the Industry is to be improved.

Signature of audit committee member: K Venkateswara Rao 17/12/2022

Name of the audit committee member: Dr. K. VENKATESWARA RAO

Affiliation of the audit committee member: Professor, CVR College of Engineering.





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**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
Cheeryal(V), Keesara (M), Medchal (D), Telangana state – 501 301

**ACADEMIC AND ADMINISTRATIVE AUDIT REPORT**

\* Grade: A: Very Good, B: Good, C: Adequate, D: deficient

S. No	Criterion	Status		Grade	Exhibits observed	Remarks of Audit Team
		As assessed by department/ institution	As observed by Audit Team			
I.	<b>Vision, Mission and PEOs,</b>		yes			
	1. Are vision and mission statements of the department available?	yes	yes	A		
	2. Are department vision and mission statements consistent with institute statements?	yes	yes	A		
	3. Are the PEOs available?	yes	yes	A		
	4. Does the department follow a defined process for defining vision, mission and PEOs with the participation of all stakeholders-internal and external stake holders?	yes	yes	A		

THE UNIVERSITY OF THE SOUTH PACIFIC  
 DEPARTMENT OF POLITICAL SCIENCE AND HISTORY

THE POLITICAL SYSTEM OF VANUATU

NAME: \_\_\_\_\_

QUESTION	ANSWER
1. What is the political system of Vanuatu?	Vanuatu is a constitutional monarchy with a multi-party system. The head of state is the Queen Elizabeth II, represented by the Governor-General. The executive power is vested in the Prime Minister and the Cabinet. The legislative power is vested in the National Parliament, which consists of the Prime Minister, Ministers, and Members of Parliament.
2. How is the Prime Minister elected?	The Prime Minister is elected by the National Parliament. The party or coalition of parties that commands a majority in the Parliament elects the Prime Minister.
3. What are the main political parties in Vanuatu?	The main political parties in Vanuatu are the Vanuatu Party, the United Vanuatu Party, and the Vanuatu Labour Party. There are also several smaller parties and independent members of Parliament.
4. How is the National Parliament structured?	The National Parliament consists of 30 Members of Parliament. 12 members are elected by the people in 12 constituencies. The remaining 18 members are appointed by the Prime Minister and the Opposition Leader.
5. What is the role of the Governor-General?	The Governor-General is the representative of the Queen in Vanuatu. He or she performs the ceremonial duties of the monarch and exercises the powers of the monarch in accordance with the Constitution.

	5. Are the vision, mission and PEOs made available on college website, department notice boards, HoD's chamber, laboratories, lab manuals, course files, and curriculum books etc?	yes	yes	A		
	6. Are the PEOs consistent with the mission of the department indicated in matrix form with proper justification of correlation parameters?	yes	yes	A		
II.	<b>Program curriculum and Teaching-Learning (T and L) Process</b>					
	<b>Program Curriculum</b>					
	1. Does a defined process exist for design of program curriculum?	yes	yes	A		
	2. Are the structure and components of curriculum well balanced and appropriate (as per AICTE Guidelines)?	yes	yes	A		
	3. Is a valid process followed for mapping of curriculum with PEOs and PSOs?	yes	yes	A		
	4. Is Employability a major consideration in the overall development of the curriculum	yes	yes	A		
	<b>B. Teaching – Learning Process</b>					
	1. Is an Academic Calendar prepared and adhered to?	yes	yes	A		
	2. Is evidence of pedagogical initiatives taken, such as collaborative learning, ICT supported teaching etc available?	yes	yes	B		LCD Projectors not available in every class room.

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3. Does a process exist to identify bright and weak students?	yes	yes	B		can be improved
4. Does the department have measures to encourage bright students with more complex tasks and motivate weak students to perform better?	yes	yes	A		
5. Does a process exist to allocate teaching load to faculty in the department?	yes	yes	A		
6. Do faculty in the department practice innovative TL practices such as <ul style="list-style-type: none"> <li>• Collaborative Learning <input checked="" type="checkbox"/> Yes/No</li> <li>• Interaction with student in and outside of class obtaining Feedback <input checked="" type="checkbox"/> Yes/No</li> <li>• Group Learning, Developing Professional Competences. <input checked="" type="checkbox"/> Yes/No</li> <li>• Teaching through value added courses <input checked="" type="checkbox"/> Yes/No</li> <li>• Experiential Learning that facilitates development of Problem-Solving Skills in the students through project based learning <input checked="" type="checkbox"/> Yes/No</li> <li>• Facilitating interaction with various experts in the field through Guest Lectures, Industrial Visits, Field trips thereby making them familiar with occupational awareness. <input checked="" type="checkbox"/> Yes/No</li> </ul>	yes	yes	A		

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7. Is student feedback on T and L process collected and acted upon?	yes	yes	A		
8. Do the experiments in laboratory support higher level of Bloom's Taxonomy?	yes	yes	B		BTL upto 4
9. Is continuous assessment in the laboratory done systematically?	yes	yes	A		
10. Is a well-defined process followed in the design and validation of question papers as well as for scheme of evaluation of mid-term and semester end examinations?	yes	yes	A		
11. Are questions mapped with course outcomes, and Blooms Taxonomy levels?	yes	yes	A		
12. Do the assignments given to students facilitate attainment of COs as well as higher levels of Bloom's Taxonomy?	yes	yes	B		BLT to be addressed.
13. Is a well-defined process followed for identification of student projects and allocation of guide(s)?		—			
14. Are the projects relevant to the POs and PSOs and do they contribute to their attainments?		—			
15. Is a well-defined process followed for monitoring and evaluation of the projects and for assessing individual and team performance?		—			

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	16. Are efforts made to encourage students to develop working prototypes based on projects and/or to publish papers?		-			
	17. Particulars of industry supported laboratories established, if any. Is impact analysis of industry interaction made and if, so, is action taken based on the results of the analysis?		NIL			
	18. Are students encouraged to undergo internships or summer training? If so, what is the minimum duration of internship?		-			
	19. Is student feedback taken on the internship experience?		-			
	20. Is Impact analysis of internship made and action taken on the basis of the results of the analysis?		-			
	21. Average number of days from the date of last semester-end examination till the declaration of results		-			
	22. Average percentage of student complaints / grievances about evaluation against total number of students appeared in the examination during last academic year		-			
<b>III.</b>	<b>Course Outcomes and Program Outcomes</b>					
	1. Are COs defined for every course?	yes	yes	A		



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	2. Are COs embedded in syllabus?	Yes	Yes	A		
	3. Are course articulation matrix, program articulation matrix tables prepared?	Yes	Yes	A		
	4. Is appropriate assessment process for attainment of course outcomes followed including data collection, verification, analysis and decision making?	Yes	Yes	A		
	5. Is a well-defined process followed for determining attainment of POs and PSOs?	Yes	Yes	B		Can be improved by including regular, workshop, employer survey.
	6. Are the records of computation of attainment of POs and PSOs maintained?		—			
	<b>Students' Performance</b>					
IV	1. Enrollment ratio	100%	100%	A		
	2. Percentage of students who graduate the program in four years, without repeat of any course?		—			
	3. Percentage of students graduating the program with backlogs within 4 years?		—			
	4. Mean CGPA of students (who were promoted to 3 <sup>rd</sup> year) at the end of 2 <sup>nd</sup> year	6.55	6.55	B		Can be improved.
	5. Percentage of students placed in companies through on and off-campus recruitment.		—			
	6. Percentage of final year students admitted to higher studies		—			

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	7. Number of students turned entrepreneurs in Engineering and Technology		—			
	8. Number of Professional societies/chapters in the department		—			
	9. Number of Engineering events organized at institute at: a. Institute Level b. State Level c. National Level d. International Level		NIL			
	10. Does the department publish technical magazines and Newsletters?		No			Can be published.
	11. Are students associated in the above publications?		— No —			'
	12. Number of students who participated in inter-institute events • Within state • Outside state • Number of prizes/ awards received in the events.		NIL			
V	<b>A. Faculty Information and Contribution</b>					
	1. Student faculty ratio	20:1	20:1	C		Can be improved.
	2. Faculty cadre proportion Prof.: Assoc. Prof.; Asst. Prof.	2:0:1	2:0:1	A		
	3. Number of Faculty with PhD qualification	1	1	AG		

1. The following table shows the results of a survey of 100 people.

Age Group	Gender	Preference	Percentage
18-25	Male	A	15%
	Female	B	10%
26-35	Male	C	20%
	Female	D	15%
36-45	Male	E	10%
	Female	F	15%
46-55	Male	G	10%
	Female	H	10%
56-65	Male	I	10%
	Female	J	10%

\* Number of people who prefer A in the survey

\* Number of people who prefer B in the survey

\* Number of people who prefer C in the survey

\* Number of people who prefer D in the survey

1. The probability of a person being in the 18-25 age group is  $\frac{25}{100} = 0.25$ .

2. The probability of a person being in the 26-35 age group is  $\frac{35}{100} = 0.35$ .

3. The probability of a person being in the 36-45 age group is  $\frac{10}{100} = 0.10$ .

4. The probability of a person being in the 46-55 age group is  $\frac{10}{100} = 0.10$ .

5. The probability of a person being in the 56-65 age group is  $\frac{10}{100} = 0.10$ .

6. The probability of a person being in the 66-75 age group is  $\frac{10}{100} = 0.10$ .

7. The probability of a person being in the 76-85 age group is  $\frac{10}{100} = 0.10$ .

8. The probability of a person being in the 86-95 age group is  $\frac{10}{100} = 0.10$ .

9. The probability of a person being in the 96-105 age group is  $\frac{10}{100} = 0.10$ .

10. The probability of a person being in the 106-115 age group is  $\frac{10}{100} = 0.10$ .

11. The probability of a person being in the 116-125 age group is  $\frac{10}{100} = 0.10$ .

12. The probability of a person being in the 126-135 age group is  $\frac{10}{100} = 0.10$ .

13. The probability of a person being in the 136-145 age group is  $\frac{10}{100} = 0.10$ .

14. The probability of a person being in the 146-155 age group is  $\frac{10}{100} = 0.10$ .



	4. Number of Faculty with PG Degree qualification	3	3	C A		
	5. Faculty retention (%) in the Current Academic Year?	100	100%	A		
	6. Number of research publications of faculty in the year	3	3	B		Can be improved
	7. Number of faculty who participated in FDPs, and duration of the programs.		1 2 weeks	B		Can be improved
	<b>B. Research and Development</b>					
	1. Number of quality research publications in refereed/Scopus indexed journals.	3	3	A		
	2. Number of faculty awarded PhD during the current academic year		NIL			
	3. Sponsored research (funded) undertaken and its value in Lakhs of Rupees.		NIL			
	4. Number of development activities undertaken by faculty: • Product development • Working models		NIL			
	5. Consultancy services offered and their value in Lakhs of Rupees.		NIL			
	6. Does a well-defined faculty performance appraisal and development system exists and implemented?	Yes	yes	A		
<b>VI</b>	<b>Facilities &amp; Technical Support</b>					
	1. Are well-equipped labs and technical supporting staff					

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	available?	yes	yes	A		
	2. Are labs well maintained?	yes	yes	A		
	3. Are safety measures followed in the lab?	yes	yes	A		
	4. Is a project laboratory together with necessary facilities available in the department?		<del>yes</del> NO	D		
	<b>Continuous Improvement</b>					
	1. Are short falls and weaknesses in the program identified from the analysis of POs and PSOs attainment?		NA			
	2. Are action plans to bridge the shortfalls prepared and implemented? If so, what is the impact of the said implementation with respect to previous academic year?		NA			
VII	3. Does a criterion exist for conducting academic and administrative audit?	yes	yes	A		
	4. Frequency of audit		yearly	A		
	5. Are actions taken based on audit report?		NA			They is best A A A
	6.					
	a. Percentage of placements in current Academic Year					
	b. Percentage of placements in the previous Academic Year		NA			
	c. Is there any improvement?					

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	<p>7.</p> <p>a. Median salary offered to students in the current academic year</p> <p>b. Median salary offered to students in the previous academic year</p> <p>c. Is there any improvement?</p>		NA			
	<p>8.</p> <p>a. Best rank of the students admitted in the current academic year</p> <p>b. Best rank of the students admitted in the previous academic year</p> <p>c. Is there any improvement?</p>	<p>17364</p> <p>915</p>	<p>17364</p> <p>9158</p> <p>NO</p>	C		

	<p>9.</p> <p>a. Highest rank (in the qualifying examination) of student admitted in the current Academic Year</p> <p>b. Highest rank (in the qualifying examination) of student admitted in the previous Academic year?</p> <p>c. Is there any improvement?</p>	<p>29451</p> <p>16396</p>	<p>29451</p> <p>16396</p> <p>NO</p>	C		
<b>VIII</b>	<b>First Year Academics</b>					
	1. First year student faculty ratio					
	2. Number of faculty teaching first year, with PhD qualification					



1. The first step is to identify the problem.

2. Next, we need to gather all the relevant information.

3. Then, we should analyze the data and identify the root cause.

4. After that, we can develop a plan to solve the problem.

5. Finally, we need to implement the plan and monitor the results.

6. Once the problem is solved, we should evaluate the process and make improvements.

7. The last step is to document the solution and share it with others.

8. This process is continuous and should be repeated as needed.

9. The goal is to improve efficiency and reduce errors.

10. The next step is to identify the root cause of the problem.

11. This can be done by asking the 5 Whys question.

12. The 5 Whys is a simple but powerful tool for identifying the root cause.

13. It involves asking 'Why?' five times to get to the bottom of the problem.

14. For example, if a machine is broken, you might ask 'Why is it broken?'

15. The answer might be 'The belt is worn out.'

16. Then you ask 'Why is the belt worn out?'

17. The answer might be 'It hasn't been replaced in a long time.'

18. This process helps to identify the root cause and prevent the problem from recurring.

19. The final step is to implement the solution and monitor the results.

20. This ensures that the problem is solved and does not happen again.

21. It is important to document the solution and share it with others.

22. This helps to improve the overall process and reduce errors.

23. The goal is to create a culture of continuous improvement.

24. This involves encouraging everyone to identify problems and suggest solutions.

25. The process should be repeated as needed to improve efficiency and reduce errors.

26. The final step is to evaluate the process and make improvements.

27. This ensures that the process is always improving and becoming more efficient.

	3. Number of faculty teaching first year with PG qualification					
	4. Percentage of students who qualified for promotion to 2 <sup>nd</sup> year from end examinations of first year					
	5. Mean CGPA/percentage of students (who were promoted to Second year) at the end of First year.					
	6. Is a proper assessment process used for determining the attainment of course outcomes?					
	7. Is a proper assessment process used for determining the attainment of relevant POs and PSOs					
	8. Are records of computation of attainment of COs of all first-year courses available?					
	9. Are records of computation of attainment of relevant POs & PSOs of all first-year courses available?					
	10. Are actions taken based on the results of evaluation of POs and PSOs?					
	<b>Student Support Systems</b>					
	<b>A. Mentoring System</b>					
<b>IX</b>	1. Is a comprehensive mentoring system at individual level in place for professional guidance, career advancement and all-round development?	Yes	yes	A		
	2. Is the mentoring system implemented? If yes, Number of students per mentor	Yes	yes	A		

1. The first step is to identify the problem.

2. Next, we need to define the objectives.

3. Then, we should analyze the data.

4. After that, we can start to design the solution.

5. Finally, we need to implement and evaluate the solution.

6. The last step is to monitor the results.

7. This process is iterative and may require adjustments.

8. It is important to document each step of the process.

9. Communication is key throughout the entire process.

10. Regular updates and feedback are essential for success.

11. The goal is to create a clear and actionable plan.

12. Flexibility is important as circumstances may change.

13. Collaboration and teamwork are vital for effective problem-solving.

14. Stay focused and motivated throughout the journey.

15. Celebrate small wins along the way to maintain momentum.

16. Persistence is often required to overcome challenges.

17. Learning from setbacks is a valuable part of the process.

18. Keep the end goal in mind and stay committed to it.

19. A clear timeline and milestones can help track progress.

20. Regular communication with stakeholders is crucial.

21. The process should be adaptable to new information.

22. Transparency in reporting progress builds trust.

23. Consistency in effort leads to better outcomes.

24. A positive attitude can make a significant difference.

25. The journey is just as important as the destination.

3. Is the mentoring system effective?	yes	yes	A		
<b>B. Student feedback on faculty and facilities.</b>					
1. Does a student feedback system exist?	yes	yes	A		
2. Are the records of action taken on the results of feedback (on faculty) analysis available?	yes	yes	A		
3. Is the feedback system effective?	yes	yes	A		
4. Are records of action taken on feedback on facilities available?		—			
<b>C. Facilities for Self-Learning</b>					
1. Does the department provide scope for self-learning?	yes	yes	A		
2. Are all required facilities, materials, for learning beyond syllabus etc. provided to the students?	yes	yes	A		
3. Are the facilities effectively utilized by the students?	yes	yes	B		Can be improved
<b>D. Career guidance, Training and Placement</b>					
<b>Career Guidance</b>					
1. Does the college have a Career Guidance or Counseling Cell?	yes	yes			
2. If yes, how many students have been utilizing these services?		NA			
3. How many Career Guidance programs have been conducted in each year?		NA			
4. How many number of students attended these career		NA			

1. The first part of the text discusses the importance of understanding the context of the data before attempting to analyze it.

2. This is followed by a detailed explanation of the various statistical methods used in the study, including their strengths and limitations.

3. The results of the analysis are then presented, showing a clear trend in the data that supports the initial hypothesis.

4. Finally, the author concludes by discussing the implications of the findings and suggesting areas for further research.

5. The overall structure of the paper is well-organized and easy to follow, making it a valuable resource for anyone interested in the field.

6. The use of clear and concise language throughout the text ensures that the information is accessible to a wide range of readers.

7. The inclusion of relevant examples and case studies helps to illustrate the concepts being discussed and makes the text more engaging.

8. The author's expertise in the subject matter is evident in the depth and accuracy of the analysis.

9. The paper is well-written and free of errors, reflecting a high level of attention to detail.

10. Overall, this is a well-structured and informative piece of work that provides a comprehensive overview of the topic.

11. The clear and logical flow of the text makes it easy to understand the key points and conclusions.

12. The use of appropriate terminology and notation adds to the professional quality of the work.

13. The paper is a good example of how to present complex information in a clear and concise manner.

14. The overall quality of the work is excellent, and it is highly recommended for anyone looking to learn more about the subject.



guidance programs?					
5. Are students counseled for higher studies?		NA			
6. Does the College have Academic links/ collaborations/MoU, etc with other institutes of higher learning?		—			
<b>Training and Placements</b>					
1. Does the college conduct any pre placement training for students' placements?	Yes	yes			
2. Is effective placement policy framed and implemented?		—			
3. If yes, then specify the number of hours, areas in which training is imparted.					
4. Does the placement cell maintain the record of job opportunities available for students?					
5. Did the college organize any company/Industrial visits or guidance camp for students?					
6. If yes, number of such visits/camps organized					
7. Are the students provided computers and Internet to search for job, to download application forms or to register for placements drive of the companies etc?					
8. Does the college subscribe to magazines like Employment News, Rojgar Samachar etc? If yes, give names of magazines.					



1. The first part of the text discusses the importance of maintaining accurate records in a laboratory setting. It emphasizes the need for clear labeling and organization to ensure that all data is easily accessible and reliable.

2. The second part of the text describes the various methods used for data collection and analysis. It highlights the importance of using standardized protocols to ensure consistency and accuracy in the results.

3. The third part of the text discusses the challenges associated with data management in a laboratory environment. It notes that the volume of data generated can be overwhelming, and therefore, effective strategies for storage and retrieval are essential.

4. The fourth part of the text focuses on the importance of data security and backup procedures. It stresses that sensitive information must be protected from unauthorized access and loss, and regular backups should be performed to ensure data integrity.

5. The final part of the text concludes by summarizing the key points discussed and reiterating the importance of a systematic approach to data management in a laboratory setting. It encourages researchers to stay updated on the latest technologies and best practices in the field.

	9. Does the college have a system of registering students at the Employment office of the GoI?					
	<b>NSS Activities/Student Clubs/Alumni Association</b>					
	1. Are clubs and NSS effectively functioning?					
	2. Do students conduct and participate in annual co-curricular and extra-curricular activities. If yes, please mention % of students participate in such activities:					
	3. Does the college have a registered and functional Alumni Association? If yes, give number of students enrolled					
	4. Specify Activities of Alumni Association					
	<b>Governance, Institutional Support and Financial Resources</b>					
	<b>A. Governance, Institutional Support</b>					
X	1. Are vision and mission statements of Institution available on college website, Principal's Chamber, Library, Conference rooms etc?					
	2. Are the vision and mission statements appropriately defined and relevant?					
	3. Is institutional strategic plan (5 years) available?					
	4. Is there an implementation plan towards achieving the strategic objectives?					

1. Definisi

2. Sejarah

3. Prinsip-prinsip

4. Prosedur

5. Kelebihan dan Kekurangan

6. Contoh

7. Referensi

8. Penutup

9. Daftar Pustaka

10. Penutup

11. Penutup

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23. Penutup

24. Penutup

25. Penutup

5. Is the strategic plan monitored effectively?					
6. Is a Governing Body duly constituted and its meetings held regularly?					
7. Are service rules, policies, procedures, functions and responsibilities published and uploaded on the website?					
8. Are Minutes of Meetings of Governing Body and Academic council and Action taken reports available?					
9. Are organizational structure and lists of administrative heads, and committees formed with powers to take administrative decisions, available?					
10. Is there any Grievance redressal system in place and a cell constituted for this purpose?					
11. Is evidence of action taken on student/staff grievances available?					
12. Are financial powers delegated to Principal, HoDs, I/cs, documented?					
13. Is Mandatory Disclosure as per AISHE & AICTE, placed on website?					
14. What are institutional practices for integrating IT? (i)Administration (ii)Finance and Accounts (iii)Examination					



1. Die Nachfragekurve ist fallend.

2. Die Angebotskurve ist fallend.

3. Die Angebotskurve ist steigend.

4. Die Angebotskurve ist horizontal.

5. Die Angebotskurve ist vertikal.

6. Die Angebotskurve ist fallend.

7. Die Angebotskurve ist steigend.

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22. Die Angebotskurve ist fallend.

23. Die Angebotskurve ist steigend.

24. Die Angebotskurve ist horizontal.

25. Die Angebotskurve ist vertikal.

<b>B. Budget allocation and utilization</b>					
1. Does the college follow a prescribed procedure for budget formulation, finalization and approval?					
2. Is the budget allocation adequate at institutional, and program levels?					
3. What percentage of allocated funds was utilized in the previous year by the Institution and programs?					
<b>C. Library and Internet</b>					
<b>i. Quality of learning resources</b>					
1. Are learning resources procured as per the requirements provided by the academic departments, ensuring relevance to programs?					
2. Are AICTE norms followed in respect of number of books & their copies procured?					
3. Are these learning resources including E-Resources & digital library, easily accessible to students?					
4. Is adequate support given to students for self-learning activities?					
5. Is the utilization of learning resources by students and faculty satisfactory?					
<b>ii. Internet</b>					
1. Is the available band Width adequate?					

1936-1937

1937-1938

1938-1939

1939-1940

1940-1941

1941-1942

1942-1943

1943-1944

1944-1945

1945-1946

1946-1947

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1949-1950

1950-1951

1951-1952

1952-1953

1953-1954

1954-1955

1955-1956

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1957-1958

1958-1959

1959-1960

1960-1961

1961-1962

1962-1963

1963-1964

1964-1965

2. Is Wi-Fi available in the college?					
3. Is there internet access in labs, library, conference rooms & offices of all departments?					
4. Is adequate security mechanism put in place for protecting the internet transactions?					
<b>iii. Infrastructural facilities and ambience</b>					
1. Is Campus ambience exemplary /Good / Satisfactory/ Unsatisfactory?					
2. Is Office Space ambience exemplary/Good/ Satisfactory/Unsatisfactory?					
3. Are washrooms well maintained?					
4. Is adequate parking facility available?					
5. Are individual Staff rooms available with IT facility?					
6. Are staff rooms well maintained?					
7. Is Potable Water facility available?					
8. Is Power Backup facility available? If so, specify the capacity					
9. Does the Institute have facilities for alternate sources of energy like: (i) Solar energy (ii) Wheeling to the Grid (iii) Use of LED Bulbs					





10. Does the Institute have Rain water harvesting pits?					
11. Does the institute take any Green campus initiatives such as: (i)Restricted entry of automobiles (ii)Pedestrian friendly path ways (iii)Landscaping with trees and plants					
12. Does the Institute provide any facility for Disabled/Divyangjan persons easy access to classrooms and Labs?					
13. Does the institute organize National/International commemorative days, events and festivals?					
14. Do Seminar halls have adequate ICT facilities?					
15. Is transportation available for students and staff?					
16. Is the Canteen maintained as per Food Safety and Standards Act?					
17. Is Auditorium/Assembly Hall available with all ICT facilities?					

**Please mention**

**Good Practices, if any**

1. Number of students in each class is reduced. well below 60.
2. Mentoring system is well planned and bound to give best results..
3. Labs are well equipped with better Configuration.

1. The first step is to identify the problem.

2. The second step is to define the objectives.

3. The third step is to analyze the data.

4. The fourth step is to interpret the results.

5. The fifth step is to draw conclusions.

6. The sixth step is to communicate the findings.

7. The seventh step is to evaluate the process.

8. The eighth step is to implement the solution.

9. The ninth step is to monitor the results.

10. The tenth step is to report the findings.

11. The eleventh step is to review the process.

12. The twelfth step is to improve the process.

13. The thirteenth step is to document the findings.

14. The fourteenth step is to disseminate the findings.

15. The fifteenth step is to evaluate the impact.

16. The sixteenth step is to report the findings.

17. The seventeenth step is to review the process.

18. The eighteenth step is to improve the process.

19. The nineteenth step is to document the findings.

20. The twentieth step is to disseminate the findings.

21. The twenty-first step is to evaluate the impact.

22. The twenty-second step is to report the findings.

23. The twenty-third step is to review the process.

24. The twenty-fourth step is to improve the process.

25. The twenty-fifth step is to document the findings.



**Strengths, if any**

1. value added courses such as Python, oracle certification etc are conducted,
2. well Qualified and Experienced faculty.
- 3.

**Weaknesses, if any**

1. Number of publications (Quality publications) are less.
2. NO R & D Projects available.
- 3.

**Concerns, if any**

1. Research need to be strengthened.
2. Centre of Excellence can be created.
3. Department seminar hall is not available.

**Deficiencies, if any**

1. project lab is not available.
2. Class rooms are not equipped with LCD projectors
- 3.

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18. 11. 2017

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**Recommendations, if any**

1. Department Library Can be provided.
2. Faculty need to be provided with Laptop / Desktop system.
3. Department Can start news letter and Technical magazines

**Brief report, if any**

The Academic and Administrative Audit is elaborative. It helps in identifying weakness/strength of the department in terms faculty qualification, experience, research, publications, laboratory equipment, Teaching and Learning processes. Visited all the labs. Labs are good. Systems Configuration is suitable for conducting all the labs in the curriculum.

**Suggestions for improvising the academic quality:**

1. Provide LCD Projectors in each class room.
2. Project based Learning is to be improved.
3. Interaction of faculty with industry need to be improved.

Signature of audit committee member:

K Venkateswara Rao  
17/12/2022

Name of the audit committee member:

Dr. K. VENKATESWARA RAO

Affiliation of the audit committee member:

Professor, CVR College of Engineering



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**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
Cheeryal(V), Keesara (M), Medchal (D), Telangana state – 501 301

**ACADEMIC AND ADMINISTRATIVE AUDIT REPORT**

\* Grade: A: Very Good, B: Good, C: Adequate, D: deficient

S. No	Criterion	Status		Grade	Exhibits observed	Remarks of Audit Team
		As assessed by department/ institution	As observed by Audit Team			
I.	<b>Vision, Mission and PEOs,</b>		<del>yes</del>			
	1. Are vision and mission statements of the department available?	yes	yes	A		
	2. Are department vision and mission statements consistent with institute statements?	yes	yes	A		
	3. Are the PEOs available?	yes	yes	A		
	4. Does the department follow a defined process for defining vision, mission and PEOs with the participation of all stakeholders-internal and external stake holders?	yes	yes	A		

THE EFFECT OF TEMPERATURE ON THE RATE OF REACTION

As the temperature increases, the rate of reaction increases.

Temperature (°C)	Time taken for reaction to complete (s)	Rate of reaction (1/s)
20	120	0.0083
30	60	0.0167
40	30	0.0333
50	15	0.0667

Graph showing the effect of temperature on the rate of reaction. The x-axis represents Temperature (°C) and the y-axis represents Rate of reaction (1/s). The graph shows a positive correlation between temperature and the rate of reaction.

	5. Are the vision, mission, and PEOs made available on college website, department notice boards, HoD's chamber, laboratories, lab manuals, course files, and curriculum books etc?	Yes	yes	A		
	6. Are the PEOs consistent with the mission of the department indicated in matrix form with proper justification of correlation parameters?	Yes	yes	A		
	<b>Program curriculum and Teaching-Learning (T and L) Process</b>					
	<b>Program Curriculum</b>					
	1. Does a defined process exist for design of program curriculum?	Yes	yes	A		
II.	2. Are the structure and components of curriculum well balanced and appropriate (as per AICTE Guidelines)?	Yes	yes	A		
	3. Is a valid process followed for mapping of curriculum with PEOs and PSOs?	Yes	yes	A		
	4. Is Employability a major consideration in the overall development of the curriculum	Yes	yes	A		
	<b>B. Teaching – Learning Process</b>					
	1. Is an Academic Calendar prepared and adhered to?	Yes	yes	A		
	2. Is evidence of pedagogical initiatives taken, such as collaborative learning, ICT supported teaching etc available?	Yes	yes	B		LCD projectors are not available in class rooms

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3. Does a process exist to identify bright and weak students?	Yes	yes	A		
4. Does the department have measures to encourage bright students with more complex tasks and motivate weak students to perform better?	Yes	yes	A		
5. Does a process exist to allocate teaching load to faculty in the department?	Yes	yes	A		
6. Do faculty in the department practice innovative TL practices such as <ul style="list-style-type: none"> <li>• Collaborative Learning <span style="float: right;">✓ Yes/No</span></li> <li>• Interaction with student in and outside of class obtaining Feedback <span style="float: right;">✓ Yes/No</span></li> <li>• Group Learning, Developing Professional Competences. <span style="float: right;">✓ Yes/No</span></li> <li>• Teaching through value added courses <span style="float: right;">✓ Yes/No</span></li> <li>• Experiential Learning that facilitates development of Problem-Solving Skills in the students through project based learning <span style="float: right;">Yes/No</span></li> <li>• Facilitating interaction with various experts in the field through Guest Lectures, Industrial Visits, Field trips thereby making them familiar with occupational awareness. <span style="float: right;">✓ Yes/No</span></li> </ul>	Yes	yes	A		

1. The first step is to identify the problem.

2. Next, you need to gather information.

3. Then, you should analyze the data.

4. After that, you can develop a solution.

5. Finally, you should implement the solution.

6. The last step is to evaluate the results.

7. This process is often iterative.

8. It is important to document the process.

9. Communication is key throughout the process.

10. Flexibility is necessary when things don't go as planned.

11. Regular communication with stakeholders is essential.

12. The goal is to solve the problem effectively and efficiently.

7. Is student feedback on T and L process collected and acted upon?	Yes	yes	A		
8. Do the experiments in laboratory support higher level of Bloom's Taxonomy?	Yes	yes	B		BTL U804
9. Is continuous assessment in the laboratory done systematically?	Yes	yes	A		
10. Is a well-defined process followed in the design and validation of question papers as well as for scheme of evaluation of mid-term and semester end examinations?	Yes	yes	A		
11. Are questions mapped with course outcomes, and Blooms Taxonomy levels?	Yes	yes	A		
12. Do the assignments given to students facilitate attainment of COs as well as higher levels of Bloom's Taxonomy?	Yes	yes	B		
13. Is a well-defined process followed for identification of student projects and allocation of guide(s)?	N/A	<del>yes</del> —			
14. Are the projects relevant to the POs and PSOs and do they contribute to their attainments?	N/A	—			
15. Is a well-defined process followed for monitoring and evaluation of the projects and for assessing individual and team performance?	N/A	—			



1. Introduction

2. Background

3. Methodology

4. Results

5. Discussion

6. Conclusion

7. References

8. Appendix

9. Acknowledgements

10. Author Biographies

11. Contact Information

12. Declaration of Interest

13. Funding Sources

14. Data Availability

15. Ethics Approval

16. Conflicts of Interest

17. Correspondence

18. Supplementary Materials

19. Additional Information

20. Final Remarks

21. Closing Statement

22. End of Document

	16. Are efforts made to encourage students to develop working prototypes based on projects and/or to publish papers?	N/A	—			
	17. Particulars of industry supported laboratories established, if any. Is impact analysis of industry interaction made and if, so, is action taken based on the results of the analysis?	NIL	NIL			
	18. Are students encouraged to undergo internships or summer training? If so, what is the minimum duration of internship?	N/A	—			
	19. Is student feedback taken on the internship experience?	N/A	—			
	20. Is Impact analysis of internship made and action taken on the basis of the results of the analysis?	N/A	—			
	21. Average number of days from the date of last semester-end examination till the declaration of results	N/A	—			
	22. Average percentage of student complaints / grievances about evaluation against total number of students appeared in the examination during last academic year	N/A	—			
<b>III.</b>	<b>Course Outcomes and Program Outcomes</b>					
	1. Are COs defined for every course?	Yes	yes	A		



1. Wiederholung ist ein zentraler Bestandteil des Lernens. Durch wiederholte Auseinandersetzung mit dem Lernstoff werden die neuronalen Verbindungen im Gehirn gefestigt, was zu einer langfristigen Speicherung des Gelernten führt.

2. Verteilte Wiederholung ist effektiver als massive Wiederholung. Die regelmäßige, über einen längeren Zeitraum verteilte Wiederholung des Lernstoffes ermöglicht es dem Gehirn, das Gelernte besser zu integrieren und abzurufen.

3. Spaced Repetition ist eine Methode, bei der der Lernstoff in regelmäßigen Abständen wiederholt wird. Dies hilft, das Vergessen zu verlangsamen und die Erinnerung zu stärken.

4. Interleaved Practice (wechselnde Übung) ist eine Technik, bei der verschiedene Themen oder Fähigkeiten abwechselnd geübt werden. Dies verbessert die Flexibilität und das Transferlernen.

5. Retrieval Practice (Abfrage-Übung) ist eine Methode, bei der der Lernende versucht, das Gelernte aus dem Gedächtnis abzurufen. Dies stärkt die Erinnerung und verbessert das Verständnis.

6. Elaboration ist eine Technik, bei der der Lernende das Gelernte mit eigenen Worten erklärt oder mit Beispielen veranschaulicht. Dies fördert ein tieferes Verständnis und eine bessere Erinnerung.

7. Teaching Others (Lehren anderer) ist eine Methode, bei der der Lernende das Gelernte anderen erklärt. Dies verbessert das Verständnis und die Erinnerung.

8. Self-Reflection (Selbstreflexion) ist eine Methode, bei der der Lernende über sein eigenes Lernen nachdenkt. Dies hilft, die eigenen Stärken und Schwächen zu erkennen und das Lernen zu optimieren.

9. Spaced Repetition ist eine Methode, bei der der Lernstoff in regelmäßigen Abständen wiederholt wird. Dies hilft, das Vergessen zu verlangsamen und die Erinnerung zu stärken.

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	2. Are COs embedded in syllabus?	yes	yes	A		
	3. Are course articulation matrix, program articulation matrix tables prepared?	yes	yes	A		
	4. Is appropriate assessment process for attainment of course outcomes followed including data collection, verification, analysis and decision making?	yes	yes	A		
	5. Is a well-defined process followed for determining attainment of POs and PSOs?	yes	yes	B		
	6. Are the records of computation of attainment of POs and PSOs maintained?	N/A	—			
	<b>Students' Performance</b>					
IV	1. Enrollment ratio	100%	100%	A		
	2. Percentage of students who graduate the program in four years, without repeat of any course?	N/A	—			
	3. Percentage of students graduating the program with backlogs within 4 years?	N/A	—	D		
	4. Mean CGPA of students (who were promoted to 3 <sup>rd</sup> year) at the end of 2 <sup>nd</sup> year		6.14	B		Can be improved.
	5. Percentage of students placed in companies through on and off-campus recruitment.	N/A	—			
	6. Percentage of final year students admitted to higher studies	N/A	—			

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	7. Number of students turned entrepreneurs in Engineering and Technology	N/A	-			
	8. Number of Professional societies/chapters in the department	N/A	-	B		Can be improved
	9. Number of Engineering events organized at institute at: a. Institute Level - 2 b. State Level c. National Level d. International Level	2	2	B		Can be improved
	10. Does the department publish technical magazines and Newsletters?	NO	NO			
	11. Are students associated in the above publications?	NO	NO			
	12. Number of students who participated in inter-institute events • Within state 0 • Outside state 3 • Number of prizes/ awards received in the events.	1	1	B		
<b>V</b>	<b>A. Faculty Information and Contribution</b>					
	1. Student faculty ratio	20:1	20:1	C		
	2. Faculty cadre proportion Prof: Assoc Prof: A&T Prof	1:0:4	1:0:4	A		
	3. Number of Faculty with PhD qualification	1	1	B		

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4. Number of Faculty with PG Degree qualification	5	5	A		
5. Faculty retention (%) in the Current Academic Year?	100%	100%	A		
6. Number of research publications of faculty in the year	4	4	B		
7. Number of faculty who participated in FDPs, and duration of the programs.	5 (hr)	5 1week	A		
<b>B. Research and Development</b>					
1. Number of quality research publications in refereed/Scopus indexed journals.	4	4	B		
2. Number of faculty awarded PhD during the current academic year	NIL	NIL			
3. Sponsored research (funded) undertaken and its value in Lakhs of Rupees.	NIL	NIL			
4. Number of development activities undertaken by faculty: • Product development • Working models	NIL	NIL			
5. Consultancy services offered and their value in Lakhs of Rupees.	NIL	NIL			
6. Does a well-defined faculty performance appraisal and development system exists and implemented?	Yes	Yes	A		
<b>VI Facilities &amp; Technical Support</b>					
1. Are well-equipped labs and technical supporting staff	Yes	Yes	A		



The first part of the document discusses the importance of maintaining accurate records of all transactions. This includes not only sales and purchases but also the flow of cash and the collection of receivables. It is essential to ensure that all entries are supported by proper documentation, such as invoices and receipts, to avoid any discrepancies or errors.

In addition, the document highlights the need for regular reconciliation of the accounts. This process involves comparing the internal records with the bank statements to identify any differences. By doing so, the business can detect and correct any mistakes or unauthorized transactions in a timely manner, ensuring the integrity of the financial data.

Furthermore, the document emphasizes the significance of maintaining up-to-date financial statements. These statements provide a clear and concise overview of the company's financial performance over a specific period. They are crucial for internal decision-making and for providing transparency to stakeholders, including investors and creditors.

Finally, the document stresses the importance of seeking professional advice from an accountant or tax advisor. These experts can provide valuable insights and guidance on how to optimize the company's financial structure and ensure compliance with all applicable laws and regulations. Their assistance is particularly beneficial in complex situations or when dealing with significant financial transactions.

In conclusion, the document serves as a comprehensive guide for businesses looking to improve their financial management practices. By following the outlined steps and principles, companies can ensure the accuracy and reliability of their financial records, which is essential for long-term success and growth.

The document is a professional document and should be handled accordingly. It contains confidential information and should not be distributed to unauthorized personnel. Any questions or concerns regarding the content should be directed to the appropriate department.

	available?	Yes	yes	A		
	2. Are labs well maintained?	Yes	yes	A		
	3. Are safety measures followed in the lab?	Yes	yes	A		
	4. Is a project laboratory together with necessary facilities available in the department?	Yes	yes	D		
VII	<b>Continuous Improvement</b>					
	1. Are short falls and weaknesses in the program identified from the analysis of POs and PSOs attainment?	NA	NA			
	2. Are action plans to bridge the shortfalls prepared and implemented? If so, what is the impact of the said implementation with respect to previous academic year?	NA	NA			
	3. Does a criterion exist for conducting academic and administrative audit?	Yes	yes	A		
	4. Frequency of audit		Yearly	A		
	5. Are actions taken based on audit report?	NA	NA	A		July 2018 report AAA
	6. a. Percentage of placements in current Academic Year b. Percentage of placements in the previous Academic Year c. Is there any improvement?	NA	NA			

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the environment in our lives.

The second part of the text

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we can help to protect the

environment, such as recycling and

reducing our energy consumption.

The final part of the text

concludes by emphasizing the

importance of taking action

now to protect our planet.

The text is written in a clear and

concise style, making it easy to

understand the key points of the

message.

The overall tone of the text is

informative and persuasive.

The text is well-organized and

easy to read.

The text is a good example of

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<p>7.</p> <p>a. Median salary offered to students in the current academic year</p> <p>b. Median salary offered to students in the previous academic year</p> <p>c. Is there any improvement?</p>	NA	NA			
<p>8.</p> <p>a. Best rank of the students admitted in the current academic year</p> <p>b. Best rank of the students admitted in the previous academic year</p> <p>c. Is there any improvement?</p>	13811	14953	A		

<p>9.</p> <p>a. Highest rank (in the qualifying examination) of student admitted in the current Academic Year</p> <p>b. Highest rank (in the qualifying examination) of student admitted in the previous Academic year?</p> <p>c. Is there any improvement?</p>	20376	20396	A		
<p><b>VIII First Year Academics</b></p>					
<p>1. First year student faculty ratio</p>					
<p>2. Number of faculty teaching first year, with PhD qualification</p>					



The first part of the paper discusses the importance of the research and the objectives of the study. It also provides a brief overview of the methodology used in the study.

The second part of the paper presents the results of the study. It shows that there is a significant difference between the two groups in terms of the variables being measured.

The final part of the paper discusses the implications of the findings and provides some suggestions for future research.

In conclusion, the study has shown that there is a significant difference between the two groups in terms of the variables being measured. This finding has important implications for the field of research.

The study also highlights the need for further research in this area. It is important to continue to explore the relationship between the variables being measured and to identify the factors that influence this relationship.

Overall, the study has provided valuable insights into the relationship between the variables being measured and has identified areas for further research.

Year	Value
2010	100
2011	120
2012	150
2013	180
2014	200
2015	220
2016	250
2017	280
2018	300
2019	320
2020	350

	3. Number of faculty teaching first year with PG qualification					
	4. Percentage of students who qualified for promotion to 2 <sup>nd</sup> year from end examinations of first year					
	5. Mean CGPA/percentage of students (who were promoted to Second year) at the end of First year.					
	6. Is a proper assessment process used for determining the attainment of course outcomes?					
	7. Is a proper assessment process used for determining the attainment of relevant POs and PSOs					
	8. Are records of computation of attainment of COs of all first-year courses available?					
	9. Are records of computation of attainment of relevant POs & PSOs of all first-year courses available?					
	10. Are actions taken based on the results of evaluation of POs and PSOs?					
	<b>Student Support Systems</b>					
	<b>A. Mentoring System</b>					
<b>IX</b>	1. Is a comprehensive mentoring system at individual level in place for professional guidance, career advancement and all-round development?	Yes	yes	A		
	2. Is the mentoring system implemented? If yes, Number of students per mentor	Yes	yes	A		

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3. Is the mentoring system effective?	Yes	yes	A		
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**B. Student feedback on faculty and facilities.**

1. Does a student feedback system exist?	Yes	yes	A		
2. Are the records of action taken on the results of feedback (on faculty) analysis available?	Yes	yes			
3. Is the feedback system effective?	Yes	yes			
4. Are records of action taken on feedback on facilities available?	Yes	yes			

**C. Facilities for Self-Learning**

1. Does the department provide scope for self-learning?	Yes	yes	B		Can be improved
2. Are all required facilities, materials, for learning beyond syllabus etc. provided to the students?	Yes	yes	B		✓
3. Are the facilities effectively utilized by the students?	Yes	yes	B		✓

**D. Career guidance, Training and Placement**

**Career Guidance**

1. Does the college have a Career Guidance or Counseling Cell?	✓	yes			
2. If yes, how many students have been utilizing these services?					
3. How many Career Guidance programs have been conducted in each year?					
4. How many number of students attended these career					

1. Die Funktion  $f(x) = \frac{1}{x}$  ist für  $x > 0$  definiert. Zeigen Sie, dass  $f$  eine Umkehrfunktion besitzt.

2. Gegeben sei die Funktion  $f: \mathbb{R} \rightarrow \mathbb{R}$  durch  $f(x) = x^2 + 2x + 1$ . Bestimmen Sie die Umkehrfunktion  $f^{-1}$  für  $x \geq -1$ .

3. Die Funktion  $f: \mathbb{R} \rightarrow \mathbb{R}$  ist durch  $f(x) = \frac{x-1}{x+1}$  für  $x \neq -1$  definiert. Zeigen Sie, dass  $f$  eine Involution ist, d.h.  $f \circ f = \text{id}$ .

4. Gegeben sei die Funktion  $f: \mathbb{R} \rightarrow \mathbb{R}$  durch  $f(x) = \frac{1}{x}$  für  $x \neq 0$ . Zeigen Sie, dass  $f$  eine Bijektion ist.

5. Gegeben sei die Funktion  $f: \mathbb{R} \rightarrow \mathbb{R}$  durch  $f(x) = x^2$ . Zeigen Sie, dass  $f$  keine Umkehrfunktion besitzt.

6. Gegeben sei die Funktion  $f: \mathbb{R} \rightarrow \mathbb{R}$  durch  $f(x) = x^3$ . Zeigen Sie, dass  $f$  eine Umkehrfunktion besitzt.

7. Gegeben sei die Funktion  $f: \mathbb{R} \rightarrow \mathbb{R}$  durch  $f(x) = \frac{1}{x}$  für  $x \neq 0$ . Zeigen Sie, dass  $f$  eine Involution ist.

8. Gegeben sei die Funktion  $f: \mathbb{R} \rightarrow \mathbb{R}$  durch  $f(x) = x^2 + 1$ . Zeigen Sie, dass  $f$  keine Umkehrfunktion besitzt.

9. Gegeben sei die Funktion  $f: \mathbb{R} \rightarrow \mathbb{R}$  durch  $f(x) = x^3 + 1$ . Zeigen Sie, dass  $f$  eine Umkehrfunktion besitzt.

10. Gegeben sei die Funktion  $f: \mathbb{R} \rightarrow \mathbb{R}$  durch  $f(x) = \frac{1}{x}$  für  $x \neq 0$ . Zeigen Sie, dass  $f$  eine Bijektion ist.

11. Gegeben sei die Funktion  $f: \mathbb{R} \rightarrow \mathbb{R}$  durch  $f(x) = x^2$ . Zeigen Sie, dass  $f$  keine Umkehrfunktion besitzt.

12. Gegeben sei die Funktion  $f: \mathbb{R} \rightarrow \mathbb{R}$  durch  $f(x) = x^3$ . Zeigen Sie, dass  $f$  eine Umkehrfunktion besitzt.



guidance programs?					
5. Are students counseled for higher studies?					
6. Does the College have Academic links/ collaborations/MoU, etc with other institutes of higher learning?					
<b>Training and Placements</b>					
1. Does the college conduct any pre placement training for students' placements?		Yes			
2. Is effective placement policy framed and implemented?					
3. If yes, then specify the number of hours, areas in which training is imparted.					
4. Does the placement cell maintain the record of job opportunities available for students?					
5. Did the college organize any company/Industrial visits or guidance camp for students?					
6. If yes, number of such visits/camps organized					
7. Are the students provided computers and Internet to search for job, to download application forms or to register for placements drive of the companies etc?					
8. Does the college subscribe to magazines like Employment News, Rojgar Samachar etc? If yes, give names of magazines.					

12

The first part of the paper discusses the importance of the research and the need for a new approach. The second part of the paper discusses the methodology used in the study. The third part of the paper discusses the results of the study. The fourth part of the paper discusses the conclusions of the study.

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	9. Does the college have a system of registering students at the Employment office of the GoI?					
	<b>NSS Activities/Student Clubs/Alumni Association</b>					
	1. Are clubs and NSS effectively functioning?					
	2. Do students conduct and participate in annual co-curricular and extra-curricular activities. If yes, please mention % of students participate in such activities:					
	3. Does the college have a registered and functional Alumni Association? If yes, give number of students enrolled					
	4. Specify Activities of Alumni Association					
	<b>Governance, Institutional Support and Financial Resources</b>					
	<b>A. Governance, Institutional Support</b>					
X	1. Are vision and mission statements of Institution available on college website, Principal's Chamber, Library, Conference rooms etc?					
	2. Are the vision and mission statements appropriately defined and relevant?					
	3. Is institutional strategic plan (5 years) available?					
	4. Is there an implementation plan towards achieving the strategic objectives?					

1. Das Problem

Die Aufgabe besteht darin, die folgenden Aussagen zu analysieren und zu bewerten.

1. Die Aussage "Alle Menschen sind sterblich" ist eine allgemeine Aussage.

2. Die Aussage "Es gibt einen Menschen, der nicht sterblich ist" ist eine existenzielle Aussage.

3. Die Aussage "Nicht alle Menschen sind sterblich" ist eine verneinte allgemeine Aussage.

4. Die Aussage "Es gibt einen Menschen, der nicht sterblich ist" ist eine verneinte existenzielle Aussage.

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13. Die Aussage "Nicht alle Menschen sind sterblich" ist eine existenzielle Aussage.

5. Is the strategic plan monitored effectively?					
6. Is a Governing Body duly constituted and its meetings held regularly?					
7. Are service rules, policies, procedures, functions and responsibilities published and uploaded on the website?					
8. Are Minutes of Meetings of Governing Body and Academic council and Action taken reports available?					
9. Are organizational structure and lists of administrative heads, and committees formed with powers to take administrative decisions, available?					
10. Is there any Grievance redressal system in place and a cell constituted for this purpose?					
11. Is evidence of action taken on student/staff grievances available?					
12. Are financial powers delegated to Principal, HoDs, I/cs, documented?					
13. Is Mandatory Disclosure as per AISHE & AICTE, placed on website?					
14. What are institutional practices for integrating IT? (i)Administration (ii)Finance and Accounts (iii)Examination					



1. The first step is to identify the problem.

2. Next, you need to gather all the relevant data.

3. Then, analyze the data to find patterns.

4. After that, you should develop a hypothesis.

5. Finally, test your hypothesis and draw conclusions.

6. It is important to remember that the process is iterative.

7. You may need to go back and forth between steps.

8. The goal is to reach a solution that is both effective and efficient.

9. In summary, the scientific method is a systematic approach to problem-solving.

10. It involves a series of steps that help you to understand the world around you.

11. By following these steps, you can make progress in your field of study.

12. The scientific method is a powerful tool for discovery and innovation.

13. It is the foundation of modern science and technology.

14. Without it, we would not have the progress we see today.

15. So, let's embrace the scientific method and make the most of our lives.

16. The future is bright, and it's up to us to make it shine.

17. Let's work together to create a better world for everyone.

18. The journey may be long, but the destination is worth it.

19. Stay motivated, stay focused, and keep pushing forward.

20. Success is just around the next bend in the road.

21. Believe in yourself, and you will achieve your dreams.

22. The only limit is the one you put on yourself.

23. Break through your self-doubt and reach for the stars.

24. You are capable of more than you think you are.

25. Go out there and make a difference in the world.

**B. Budget allocation and utilization**

1. Does the college follow a prescribed procedure for budget formulation, finalization and approval?					
2. Is the budget allocation adequate at institutional, and program levels?					
3. What percentage of allocated funds was utilized in the previous year by the Institution and programs?					

**C. Library and Internet****i. Quality of learning resources**

1. Are learning resources procured as per the requirements provided by the academic departments, ensuring relevance to programs?					
2. Are AICTE norms followed in respect of number of books & their copies procured?					
3. Are these learning resources including E-Resources & digital library, easily accessible to students?					
4. Is adequate support given to students for self-learning activities?					
5. Is the utilization of learning resources by students and faculty satisfactory?					

**ii. Internet**

1. Is the available band Width adequate?					
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2. Is Wi-Fi available in the college?					
3. Is there internet access in labs, library, conference rooms & offices of all departments?					
4. Is adequate security mechanism put in place for protecting the internet transactions?					
<b>iii. Infrastructural facilities and ambience</b>					
1. Is Campus ambience exemplary /Good / Satisfactory/ Unsatisfactory?					
2. Is Office Space ambience exemplary/Good/ Satisfactory/Unsatisfactory?					
3. Are washrooms well maintained?					
4. Is adequate parking facility available?					
5. Are individual Staff rooms available with IT facility?					
6. Are staff rooms well maintained?					
7. Is Potable Water facility available?					
8. Is Power Backup facility available? If so, specify the capacity					
9. Does the Institute have facilities for alternate sources of energy like: (i) Solar energy (ii) Wheeling to the Grid (iii) Use of LED Bulbs					

1. Introduction

2. Background

3. Methodology

4. Results and Discussion

5. Conclusion

6. References

7. Appendix

8. Index

9. Table of Contents

10. Summary

11. Abstract

12. Keywords

13. References

14. Appendix

15. Index

16. Table of Contents

17. Summary

18. Abstract

19. Keywords

20. References

21. Appendix

22. Index

23. Table of Contents

24. Summary

25. Abstract

26. Keywords

27. References

28. Appendix

29. Index

30. Table of Contents



10. Does the Institute have Rain water harvesting pits?					
11. Does the institute take any Green campus initiatives such as: (i)Restricted entry of automobiles (ii)Pedestrian friendly path ways (iii)Landscaping with trees and plants					
12. Does the Institute provide any facility for Disabled/Divyangjan persons easy access to classrooms and Labs?					
13. Does the institute organize National/International commemorative days, events and festivals?					
14. Do Seminar halls have adequate ICT facilities?					
15. Is transportation available for students and staff?					
16. Is the Canteen maintained as per Food Safety and Standards Act?					
17. Is Auditorium/Assembly Hall available with all ICT facilities?					

**Please mention**

**Good Practices, if any**

1. Number of students in each class is reduced, well below 60.
2. Mentoring system is well planned and bound to give best results.
- 3.

1. The first part of the text discusses the importance of maintaining accurate records of all transactions.

2. This is followed by a detailed explanation of the various methods used to collect and analyze data.

3. The next section describes the challenges faced by researchers in this field and offers potential solutions.

4. Finally, the text concludes with a summary of the key findings and a call to action for future research.

5. The author emphasizes the need for continued collaboration and communication among researchers in this field.

6. Overall, the text provides a comprehensive overview of the current state of research in this area.

7. It also highlights the significant contributions of previous studies and identifies areas for further exploration.

8. The author's analysis is thorough and well-supported by a wealth of evidence and data.

9. This work is a valuable resource for anyone interested in the field and offers many insights and perspectives.

10. The text is well-written and easy to read, making it accessible to a wide range of readers.

11. It is a pleasure to read and provides a clear and concise summary of the current state of research.

12. The author's expertise and passion for the subject are evident throughout the text.

13. This work is a testament to the power of research and the importance of staying up-to-date in this field.

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**Strengths, if any**

1. Labs are well equipped.
2. Value added courses are available, conducted,
3. Adequate number of faculty available,

**Weaknesses, if any**

1. Number of publications are less
2. No R & D projects are available.
- 3.

**Concerns, if any**

1. Research need to be strengthened.
2. Department Seminar Hall is not available.
- 3.

**Deficiencies, if any**

1. Projects lab is not available.
2. Class rooms are not equipped with LCD projects
- 3.

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**Recommendations, if any**

1. Department Library can be provided.
2. Provide Laptop / Desktop system to every faculty member.
3. Department need to start  Technical Magazine & News letter.

**Brief report, if any**

1. Good number of Computer systems are available in the Department, systems are well configured.
2. The auditing format is very elaborate to expose strength & weaknesses of systems in terms of faculty qualification, experience, research, publications, labs, processes for teach & learning.

**Suggestions for improving the academic quality:**

1. Provide LCD Projector in each class room
2. Improve Project based learning
3. Improve interaction of faculty ~~and~~ with Industry through MOUs.

Signature of audit committee member:

 17/12/2022

Name of the audit committee member:

Dr. K. VENKATESWARA RAO

Affiliation of the audit committee member:

Professor, CVR College of Engineering.



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**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
Cheeryal(V), Keesara (M), Medchal (D), Telangana state – 501 301

**ACADEMIC AND ADMINISTRATIVE AUDIT REPORT**

\* Grade: A: Very Good, B: Good, C: Adequate, D: deficient

S. No	Criterion	Status		Grade	Exhibits observed	Remarks of Audit Team
		As assessed by department/ institution	As observed by Audit Team			
I.	<b>Vision, Mission and PEOs,</b>					
	1. Are vision and mission statements of the department available?		yes	<del>B</del> A		
	2. Are department vision and mission statements consistent with institute statements?		yes	A		
	3. Are the PEOs available?		yes	A		
	4. Does the department follow a defined process for defining vision, mission and PEOs with the participation of all stakeholders-internal and external stake holders?		yes	A		

THE UNIVERSITY OF CHICAGO

DEPARTMENT OF CHEMISTRY

EXPERIMENTAL PROCEDURE

100

Name	Date	Section	Instructor	Title
[Faint text]	[Faint text]	[Faint text]	[Faint text]	[Faint text]
[Faint text]	[Faint text]	[Faint text]	[Faint text]	[Faint text]
[Faint text]	[Faint text]	[Faint text]	[Faint text]	[Faint text]
[Faint text]	[Faint text]	[Faint text]	[Faint text]	[Faint text]

[Faint text at the bottom of the page, possibly a signature or additional notes.]

	5. Are the vision, mission and PEOs made available on college website, department notice boards, HoD's chamber, laboratories, lab manuals, course files, and curriculum books etc?		yes	A		
	6. Are the PEOs consistent with the mission of the department indicated in matrix form with proper justification of correlation parameters?		yes	A		
II.	<b>Program curriculum and Teaching-Learning (T and L) Process</b>					
	<b>Program Curriculum</b>					
		1. Does a defined process exist for design of program curriculum?		yes	A	
		2. Are the structure and components of curriculum well balanced and appropriate (as per AICTE Guidelines)?		yes	A	
		3. Is a valid process followed for mapping of curriculum with PEOs and PSOs?		yes	A	
		4. Is Employability a major consideration in the overall development of the curriculum		yes	A	
	<b>B. Teaching – Learning Process</b>					
		1. Is an Academic Calendar prepared and adhered to?		yes	A	
		2. Is evidence of pedagogical initiatives taken, such as collaborative learning, ICT supported teaching etc available?		yes	B	LCD projectors not available in class rooms

$\mathbb{R}^n$  is a vector space over  $\mathbb{R}$ .  
 The standard basis is  $\{e_1, \dots, e_n\}$ .  
 The dual basis is  $\{e^1, \dots, e^n\}$ .  
 The metric tensor is  $g_{ij} = \delta_{ij}$ .  
 The volume element is  $\sqrt{|g|} dx^1 \wedge \dots \wedge dx^n$ .

The Riemann curvature tensor is  $R^i_{jkl}$ .  
 The Ricci tensor is  $R_{ij}$ .  
 The scalar curvature is  $R$ .

The geodesic equation is  $\ddot{x}^i + \Gamma^i_{jk} \dot{x}^j \dot{x}^k = 0$ .  
 The Christoffel symbols are  $\Gamma^i_{jk}$ .

The parallel transport equation is  $\dot{X}^i + \Gamma^i_{jk} X^j \dot{x}^k = 0$ .  
 The holonomy group is  $H$ .

The Killing vector field is  $K^i$ .  
 The Lie derivative is  $\mathcal{L}_K$ .

The Killing equation is  $\nabla_i K_j + \nabla_j K_i = 0$ .  
 The Killing vectors are  $K^i$ .

The Killing vectors of  $\mathbb{R}^n$  are  $n$ .  
 The Killing vectors of  $S^n$  are  $n(n-1)/2$ .

The Killing vectors of  $SO(n)$  are  $n(n-1)/2$ .  
 The Killing vectors of  $U(n)$  are  $n^2$ .



3. Does a process exist to identify bright and weak students?		yes	A		
4. Does the department have measures to encourage bright students with more complex tasks and motivate weak students to perform better?		yes	A		
5. Does a process exist to allocate teaching load to faculty in the department?		yes	A		
6. Do faculty in the department practice innovative TL practices such as <ul style="list-style-type: none"> <li>• Collaborative Learning <input checked="" type="checkbox"/> Yes/No</li> <li>• Interaction with student in and <input checked="" type="checkbox"/> outside of class obtaining Feedback Yes/No</li> <li>• Group Learning, Developing <input checked="" type="checkbox"/> Professional Competences. Yes/No</li> <li>• Teaching through value added courses <input checked="" type="checkbox"/> Yes/No</li> <li>• Experiential Learning that facilitates development of Problem-Solving Skills in the <input checked="" type="checkbox"/> students through project based learning Yes/No</li> <li>• Facilitating interaction with various experts in the field through Guest Lectures, Industrial Visits, Field trips thereby making them familiar <input checked="" type="checkbox"/> with occupational awareness. Yes/No</li> </ul>		yes	A		

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7. Is student feedback on T and L process collected and acted upon?		yes	A		
8. Do the experiments in laboratory support higher level of Bloom's Taxonomy?		yes	B		BTL upto 4
9. Is continuous assessment in the laboratory done systematically?		yes	A		
10. Is a well-defined process followed in the design and validation of question papers as well as for scheme of evaluation of mid-term and semester end examinations?		yes	A		
11. Are questions mapped with course outcomes, and Blooms Taxonomy levels?		yes	A		
12. Do the assignments given to students facilitate attainment of COs as well as higher levels of Bloom's Taxonomy?		yes	B		BTL upto 4
13. Is a well-defined process followed for identification of student projects and allocation of guide(s)?		-			
14. Are the projects relevant to the POs and PSOs and do they contribute to their attainments?		-			
15. Is a well-defined process followed for monitoring and evaluation of the projects and for assessing individual and team performance?		-			

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

2. Next, it is important to gather relevant information and resources. This can include reading books, articles, or online materials, as well as consulting with experts or colleagues in the field.

3. Once the information is gathered, the next step is to analyze it and identify the key concepts and relationships. This often involves creating diagrams or flowcharts to visualize the data and the underlying logic.

4. After analysis, the next step is to develop a plan or strategy to solve the problem. This may involve breaking the problem down into smaller, more manageable parts and determining the best approach for each part.

5. Finally, the plan is implemented, and the results are evaluated. This involves comparing the actual outcomes with the expected results and identifying any areas for improvement or further research.

6. The process concludes with a final review and reflection on the overall experience. This can help to identify lessons learned and inform future problem-solving efforts.

	16. Are efforts made to encourage students to develop working prototypes based on projects and/or to publish papers?		—			
	17. Particulars of industry supported laboratories established, if any. Is impact analysis of industry interaction made and if, so, is action taken based on the results of the analysis?		NGL			
	18. Are students encouraged to undergo internships or summer training? If so, what is the minimum duration of internship?		—			
	19. Is student feedback taken on the internship experience?		—			
	20. Is Impact analysis of internship made and action taken on the basis of the results of the analysis?		—			
	21. Average number of days from the date of last semester-end examination till the declaration of results		—			
	22. Average percentage of student complaints / grievances about evaluation against total number of students appeared in the examination during last academic year		—			
<b>III.</b>	<b>Course Outcomes and Program Outcomes</b>					
	1. Are COs defined for every course?		yes	A		



1. The first step is to identify the problem or question that needs to be answered.

2. Next, gather relevant information and data to address the problem.

3. Then, analyze the information and determine the best approach to solve the problem.

4. After that, implement the solution and monitor the results.

5. Finally, evaluate the outcome and make adjustments if necessary.

6. The process is iterative, meaning you may need to go back and forth between steps.

7. It's important to stay organized and keep track of your progress.

8. Remember, the goal is to find a solution that works and is sustainable.

	2. Are COs embedded in syllabus?		yes	A		
	3. Are course articulation matrix, program articulation matrix tables prepared?		yes	A		
	4. Is appropriate assessment process for attainment of course outcomes followed including data collection, verification, analysis and decision making?		yes	A		
	5. Is a well-defined process followed for determining attainment of POs and PSOs?		yes	B		
	6. Are the records of computation of attainment of POs and PSOs maintained?		—			
	<b>Students' Performance</b>					
IV	1. Enrollment ratio		100%	A		
	2. Percentage of students who graduate the program in four years, without repeat of any course?		—			
	3. Percentage of students graduating the program with backlogs within 4 years?		—			
	4. Mean CGPA of students (who were promoted to 3 <sup>rd</sup> year) at the end of 2 <sup>nd</sup> year		5.87	B		Can be improved
	5. Percentage of students placed in companies through on and off-campus recruitment.		—			
	6. Percentage of final year students admitted to higher studies		—			

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	7. Number of students turned entrepreneurs in Engineering and Technology		1			
	8. Number of Professional societies/chapters in the department		ND	B		Can be created
	9. Number of Engineering events organized at institute at: a. Institute Level b. State Level c. National Level d. International Level		2	B		Can be improved.
	10. Does the department publish technical magazines and Newsletters?		ND			
	11. Are students associated in the above publications?		ND			
	12. Number of students who participated in inter-institute events • Within state • Outside state • Number of prizes/ awards received in the events.		0	B		
<b>V</b>	<b>A. Faculty Information and Contribution</b>					
	1. Student faculty ratio		20:1	C		
	2. Faculty cadre proportion <i>prof: Assoc prof: Asst prof</i>		0:0:4	<del>A</del> C		
	3. Number of Faculty with PhD qualification		0	<del>B</del> D		





	4. Number of Faculty with PG Degree qualification		4	A		
	5. Faculty retention (%) in the Current Academic Year?		100%	A		
	6. Number of research publications of faculty in the year		2	B		
	7. Number of faculty who participated in FDPs, and duration of the programs.		2 1 week.	A		
<b>B. Research and Development</b>						
	1. Number of quality research publications in refereed/Scopus indexed journals.		2	B		
	2. Number of faculty awarded PhD during the current academic year		NIL			
	3. Sponsored research (funded) undertaken and its value in Lakhs of Rupees.		NIL			
	4. Number of development activities undertaken by faculty: <ul style="list-style-type: none"> <li>• Product development</li> <li>• Working models</li> </ul>		NIL			
	5. Consultancy services offered and their value in Lakhs of Rupees.		NIL			
	6. Does a well-defined faculty performance appraisal and development system exists and implemented?		yes	A		
<b>VI</b>	<b>Facilities &amp; Technical Support</b>					
	1. Are well-equipped labs and technical supporting staff					

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	available?		yes	A		
	2. Are labs well maintained?		yes	A		
	3. Are safety measures followed in the lab?		yes	A		
	4. Is a project laboratory together with necessary facilities available in the department?		yes	D		
VII	<b>Continuous Improvement</b>					
	1. Are short falls and weaknesses in the program identified from the analysis of POs and PSOs attainment?		NI			
	2. Are action plans to bridge the shortfalls prepared and implemented? If so, what is the impact of the said implementation with respect to previous academic year?		NA			
	3. Does a criterion exist for conducting academic and administrative audit?		yes	A		
	4. Frequency of audit		yearly	A		
	5. Are actions taken based on audit report?		NA	A		This is for A A A
	6. a. Percentage of placements in current Academic Year b. Percentage of placements in the previous Academic Year c. Is there any improvement?		NA			

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	<p>7.</p> <p>a. Median salary offered to students in the current academic year</p> <p>b. Median salary offered to students in the previous academic year</p> <p>c. Is there any improvement?</p>		NA			
	<p>8.</p> <p>a. Best rank of the students admitted in the current academic year</p> <p>b. Best rank of the students admitted in the previous academic year</p> <p>c. Is there any improvement?</p>		<p>24251</p> <p>15162</p> <p>NO</p>	C		

	<p>9.</p> <p>a. Highest rank (in the qualifying examination) of student admitted in the current Academic Year</p> <p>b. Highest rank (in the qualifying examination) of student admitted in the previous Academic year?</p> <p>c. Is there any improvement?</p>		<p>38723</p> <p>33010</p> <p>NO</p>	C		
<b>VIII</b>	<b>First Year Academics</b>					
	1. First year student faculty ratio					
	2. Number of faculty teaching first year, with PhD qualification					



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	3. Number of faculty teaching first year with PG qualification					
	4. Percentage of students who qualified for promotion to 2 <sup>nd</sup> year from end examinations of first year					
	5. Mean CGPA/percentage of students (who were promoted to Second year) at the end of First year.					
	6. Is a proper assessment process used for determining the attainment of course outcomes?					
	7. Is a proper assessment process used for determining the attainment of relevant POs and PSOs					
	8. Are records of computation of attainment of COs of all first-year courses available?					
	9. Are records of computation of attainment of relevant POs & PSOs of all first-year courses available?					
	10. Are actions taken based on the results of evaluation of POs and PSOs?					
	<b>Student Support Systems</b>					
	<b>A. Mentoring System</b>					
<b>IX</b>	1. Is a comprehensive mentoring system at individual level in place for professional guidance, career advancement and all-round development?		yes	A		
	2. Is the mentoring system implemented? If yes, Number of students per mentor		yes	A		

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3. Is the mentoring system effective?		yes	A		
<b>B. Student feedback on faculty and facilities.</b>					
1. Does a student feedback system exist?		yes	A		
2. Are the records of action taken on the results of feedback (on faculty) analysis available?		yes			
3. Is the feedback system effective?		yes	-		
4. Are records of action taken on feedback on facilities available?		yes	-		
<b>C. Facilities for Self-Learning</b>					
1. Does the department provide scope for self-learning?		yes	B		
2. Are all required facilities, materials, for learning beyond syllabus etc. provided to the students?		yes	B		
3. Are the facilities effectively utilized by the students?		yes	B		
<b>D. Career guidance, Training and Placement</b>					
<b>Career Guidance</b>					
1. Does the college have a Career Guidance or Counseling Cell?		yes			
2. If yes, how many students have been utilizing these services?					
3. How many Career Guidance programs have been conducted in each year?					
4. How many number of students attended these career					





guidance programs?					
5. Are students counseled for higher studies?					
6. Does the College have Academic links/ collaborations/MoU, etc with other institutes of higher learning?					
<b>Training and Placements</b>					
1. Does the college conduct any pre placement training for students' placements?		yes			
2. Is effective placement policy framed and implemented?					
3. If yes, then specify the number of hours, areas in which training is imparted.					
4. Does the placement cell maintain the record of job opportunities available for students?					
5. Did the college organize any company/Industrial visits or guidance camp for students?					
6. If yes, number of such visits/camps organized					
7. Are the students provided computers and Internet to search for job, to download application forms or to register for placements drive of the companies etc?					
8. Does the college subscribe to magazines like Employment News, Rojgar Samachar etc? If yes, give names of magazines.					

Chlorophyll a

Chlorophyll b

Carotenoids

Fluorimetry

Fluorescence is the emission of light by a substance that has absorbed light or other electromagnetic radiation. It is a form of luminescence. In most cases, the emitted light has a longer wavelength (lower energy) than the excitation radiation.

The fluorescence spectrum of a substance is the intensity of the emitted light as a function of the wavelength. The fluorescence spectrum is a characteristic property of a substance and can be used to identify it.

The fluorescence quantum yield is the ratio of the number of photons emitted to the number of photons absorbed. It is a measure of the efficiency of the fluorescence process.

The fluorescence lifetime is the average time that a molecule spends in the excited state before returning to the ground state. It is a characteristic property of a substance and can be used to identify it.

The fluorescence decay curve is the plot of the fluorescence intensity as a function of time. It is a characteristic property of a substance and can be used to identify it.

	9. Does the college have a system of registering students at the Employment office of the GoI?					
	<b>NSS Activities/Student Clubs/Alumni Association</b>					
	1. Are clubs and NSS effectively functioning?					
	2. Do students conduct and participate in annual co-curricular and extra-curricular activities. If yes, please mention % of students participate in such activities:					
	3. Does the college have a registered and functional Alumni Association? If yes, give number of students enrolled					
	4. Specify Activities of Alumni Association					
	<b>Governance, Institutional Support and Financial Resources</b>					
	<b>A. Governance, Institutional Support</b>					
X	1. Are vision and mission statements of Institution available on college website, Principal's Chamber, Library, Conference rooms etc?					
	2. Are the vision and mission statements appropriately defined and relevant?					
	3. Is institutional strategic plan (5 years) available?					
	4. Is there an implementation plan towards achieving the strategic objectives?					

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5. Is the strategic plan monitored effectively?					
6. Is a Governing Body duly constituted and its meetings held regularly?					
7. Are service rules, policies, procedures, functions and responsibilities published and uploaded on the website?					
8. Are Minutes of Meetings of Governing Body and Academic council and Action taken reports available?					
9. Are organizational structure and lists of administrative heads, and committees formed with powers to take administrative decisions, available?					
10. Is there any Grievance redressal system in place and a cell constituted for this purpose?					
11. Is evidence of action taken on student/staff grievances available?					
12. Are financial powers delegated to Principal, HoDs, I/cs, documented?					
13. Is Mandatory Disclosure as per AISHE & AICTE, placed on website?					
14. What are institutional practices for integrating IT? (i)Administration (ii)Finance and Accounts (iii)Examination					





<b>B. Budget allocation and utilization</b>					
1. Does the college follow a prescribed procedure for budget formulation, finalization and approval?					
2. Is the budget allocation adequate at institutional, and program levels?					
3. What percentage of allocated funds was utilized in the previous year by the Institution and programs?					
<b>C. Library and Internet</b>					
<b>i. Quality of learning resources</b>					
1. Are learning resources procured as per the requirements provided by the academic departments, ensuring relevance to programs?					
2. Are AICTE norms followed in respect of number of books & their copies procured?					
3. Are these learning resources including E-Resources & digital library, easily accessible to students?					
4. Is adequate support given to students for self-learning activities?					
5. Is the utilization of learning resources by students and faculty satisfactory?					
<b>ii. Internet</b>					
1. Is the available band Width adequate?					



2. Is Wi-Fi available in the college?					
3. Is there internet access in labs, library, conference rooms & offices of all departments?					
4. Is adequate security mechanism put in place for protecting the internet transactions?					
<b>iii. Infrastructural facilities and ambience</b>					
1. Is Campus ambience exemplary /Good / Satisfactory/ Unsatisfactory?					
2. Is Office Space ambience exemplary/Good/ Satisfactory/Unsatisfactory?					
3. Are washrooms well maintained?					
4. Is adequate parking facility available?					
5. Are individual Staff rooms available with IT facility?					
6. Are staff rooms well maintained?					
7. Is Potable Water facility available?					
8. Is Power Backup facility available? If so, specify the capacity					
9. Does the Institute have facilities for alternate sources of energy like: (i) Solar energy (ii) Wheeling to the Grid (iii) Use of LED Bulbs					





**Recommendations, if any**

- 1.
- 2.
- 3.

**Brief report, if any**

**Suggestions for improvising the academic quality:**

- 1.
- 2.
- 3.

**Signature of audit committee member:**

**Name of the audit committee member:**

**Affiliation of the audit committee member:**



**Strengths, if any**

- 1.
- 2.
- 3.

**Weaknesses, if any**

- 1.
- 2.
- 3.

**Concerns, if any**

- 1.
- 2.
- 3.

**Deficiencies, if any**

- 1.
- 2.
- 3.

Page 1 of 1

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Page 2 of 2

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Page 3 of 3

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Page 4 of 4

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10. Does the Institute have Rain water harvesting pits?					
11. Does the institute take any Green campus initiatives such as: (i)Restricted entry of automobiles (ii)Pedestrian friendly path ways (iii)Landscaping with trees and plants					
12. Does the Institute provide any facility for Disabled/Divyangjan persons easy access to classrooms and Labs?					
13. Does the institute organize National/International commemorative days, events and festivals?					
14. Do Seminar halls have adequate ICT facilities?					
15. Is transportation available for students and staff?					
16. Is the Canteen maintained as per Food Safety and Standards Act?					
17. Is Auditorium/Assemlly Hall available with all ICT facilities?					

**Please mention**

**Good Practices, if any**

1. Number of students in each class is reduced, well below 60.
2. Mentoring system is well planned and bound to give best results.
- 3.



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11. Geben Sie die Nullstellen von  $f$  an.

Strengths, if any

- 1.
- 2.
- 3.

Labs are well equipped,  
value added courses are available & conducted,  
Adequate number of faculty available.

Weaknesses, if any

- 1.
- 2.
- 3.

Number of publications are less.  
NO R & D projects available in the Department

Concerns, if any

- 1.
- 2.
- 3.

Research need to be strengthened,  
Department seminar hall is not available.

Deficiencies, if any

- 1.
- 2.
- 3.

Projects lab is not available,  
class rooms are not equipped with LCD projector.



**Recommendations, if any**

1. Department Library Can be provided.
2. Provide Laptop/Desktop system to every faculty members.
3. Provide technical magazine and News letter.

**Brief report, if any**

1. visited all the labs Good number of Computer systems with good Configuration available to implement Curriculum.
2. This Academic and Administrative Audit is very good and elaboration to expose strength and weaknesses of the department.

**Suggestions for improvising the academic quality:**

1. Provide LCD Projectors in each class room.
2. Improve Project based Learning.
3. Improve interaction of faculty with Industry through MOUs.

Signature of audit committee member:

K Venkateswara Rao 17/12/2022

Name of the audit committee member:

Dr. K. VENKATESWARA RAO

Affiliation of the audit committee member:

Professor, CVR College of Engineering.

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MBA

Dr. Y. R. K. Prasad  
Professor & Dean Admissions  
GRIET, HYD-90

**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**

Cheeryal(V), Keesara (M), Medchal (D), Telangana state – 501 301

Date: 17-12-2022

Department: MBA

**ACADEMIC AND ADMINISTRATIVE AUDIT REPORT**

**Department of Management Studies ( Academic Year : 2021- 2022)**

\* Grade: A: Very Good, B: Good, C: Adequate, D: deficient

S. No	Criterion	Status		Grade	Exhibits observed	Remarks of Audit Team
		As assessed by department/ institution	As observed by Audit Team			
I.	<b>Vision, Mission and PEOs,</b>					
	1. Are vision and mission statements of the department available?	Yes	Yes	A	Verified in the Academic Regulations	Displayed in all areas of the department
	2. Are department vision and mission statements consistent with institute statements?	Yes	Yes	A	Verified in the Academic Regulations	Displayed in all areas of the department

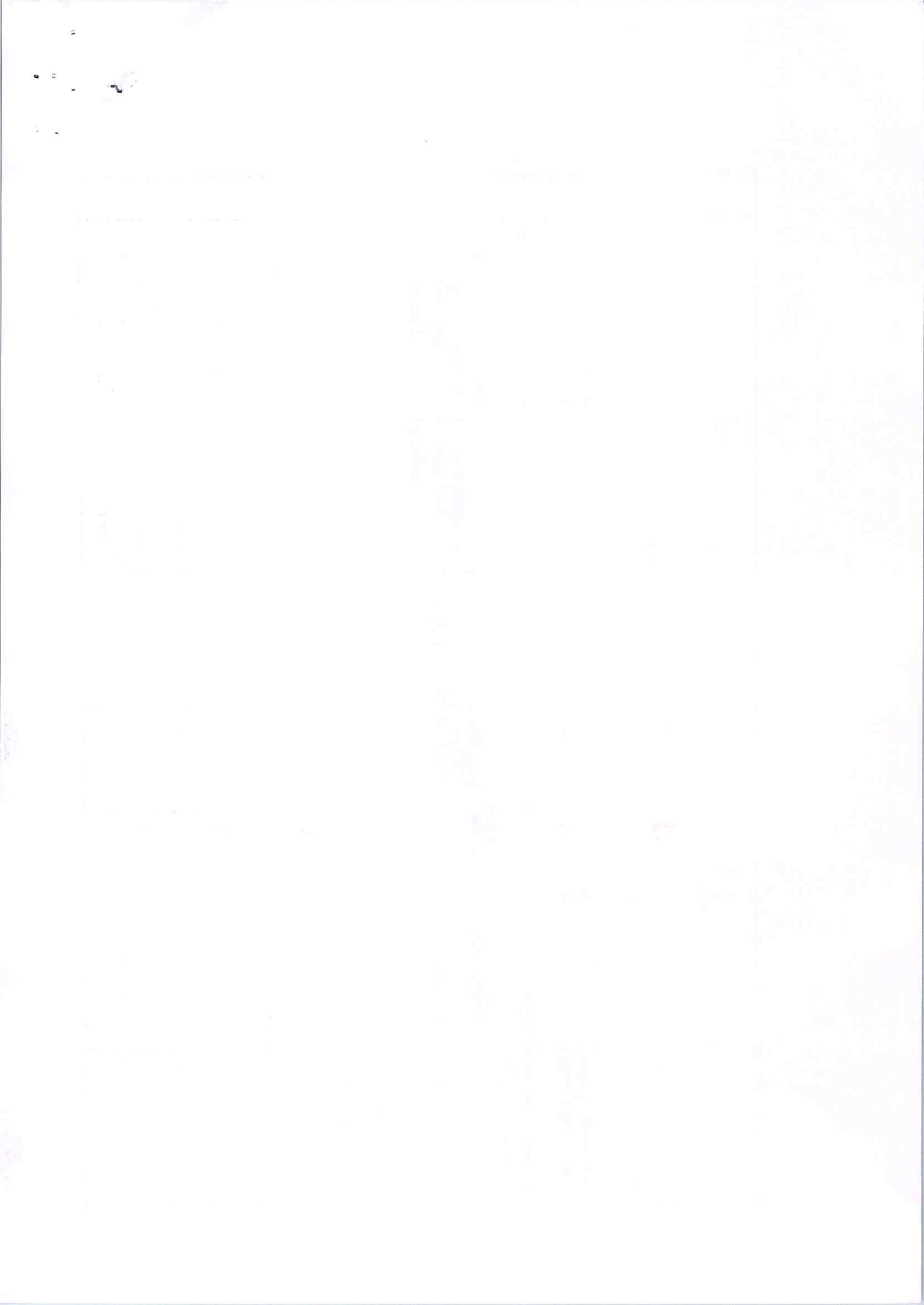


3. Are the PEOs available?	Yes	Yes	A	Verified in the Academic Regulations & Course files	Displayed in all areas of the department
4. Does the department follow a defined process for defining vision, mission and PEOs with the participation of all stakeholders-internal and external stakeholders?	Yes	Yes	A	Verified in the stakeholders response and BOS documents	Displayed in all areas of the department
5. Are the vision, mission and PEOs made available on college website, department notice boards, HoD's chamber, laboratories, lab manuals, course files, and curriculum books etc?	Yes	Yes	A	Verified in the Department and labs	Displayed in all areas of the department
6. Are the PEOs consistent with the mission of the department indicated in matrix form with proper justification of correlation parameters?	Yes	Yes	A	CO/ PO and PEO mapping file	Displayed in all areas of the department
<b>Program curriculum and Teaching-Learning (T and L) Process</b>					
<b>Program Curriculum</b>					
1. Does a defined process exist for design of program curriculum?	Yes	Yes	B	Verified in the Academic Regulations	Flow chart to be prepared

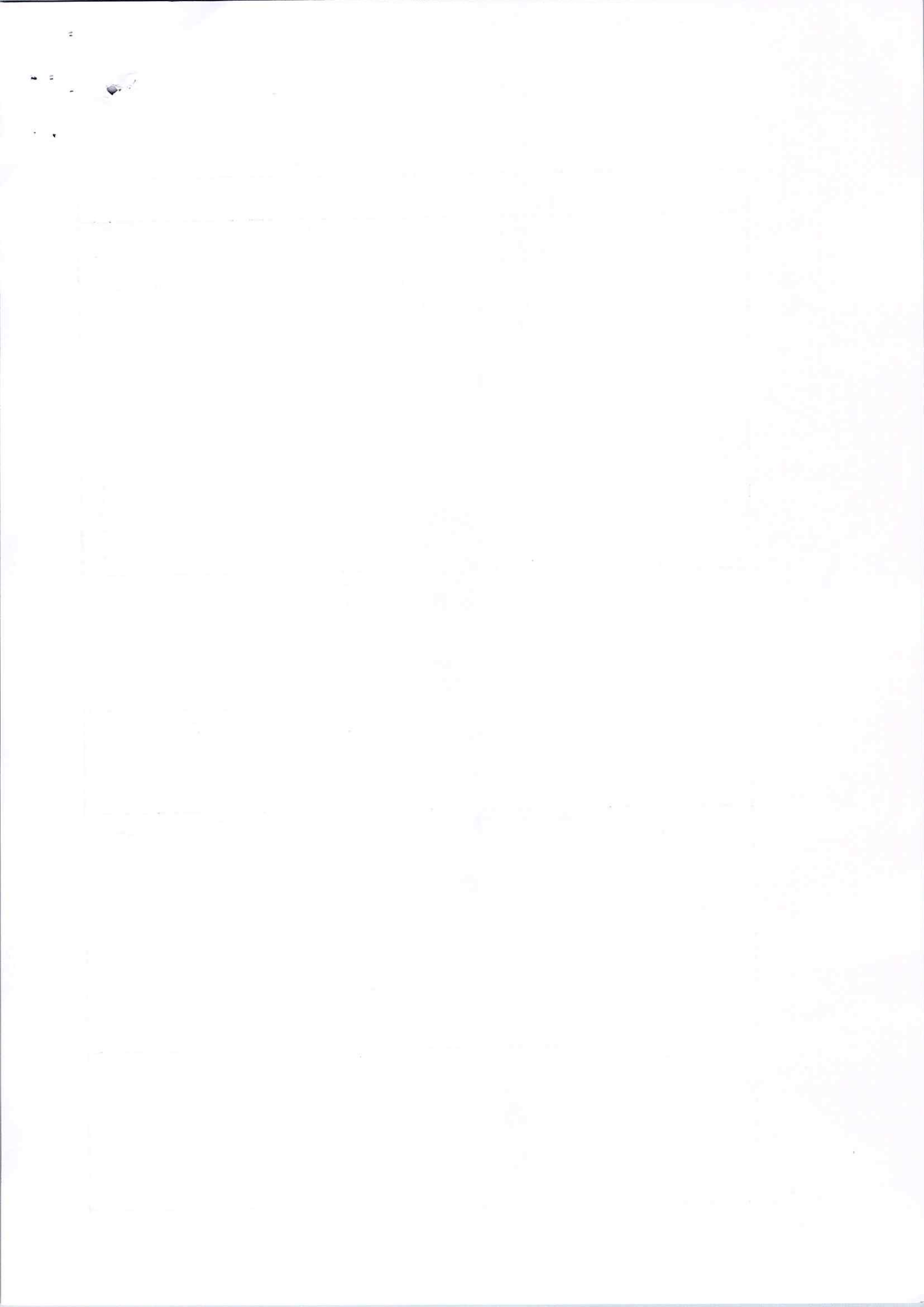


II.	2. Are the structure and components of curriculum well balanced and appropriate (as per AICTE Guidelines)?	Yes	Yes	A	BOS file and AICTE model curriculum	
	3. Is a valid process followed for mapping of curriculum with POs and PSOs?	Yes	Yes	A	CO/ PO and PEO and PSO mapping file	
	4. Is Employability a major consideration in the overall development of the curriculum	Yes	Yes	B	Verified in the Academic Regulations and MOOCS file	Institute and Industry interaction to be improved
	<b>B. Teaching – Learning Process</b>					
	1. Is an Academic Calendar prepared and adhered to?	Yes	Yes	A	As per Dean Admin	
	2. Is evidence of pedagogical initiatives taken, such as collaborative learning, ICT supported teaching etc available?	Yes	Yes	B	Verified in the ICT file	<b>Need a facility of SMRT classrooms</b>
	3. Does a process exist to identify bright and weak students?	Yes	No	B		<b>To be done</b>

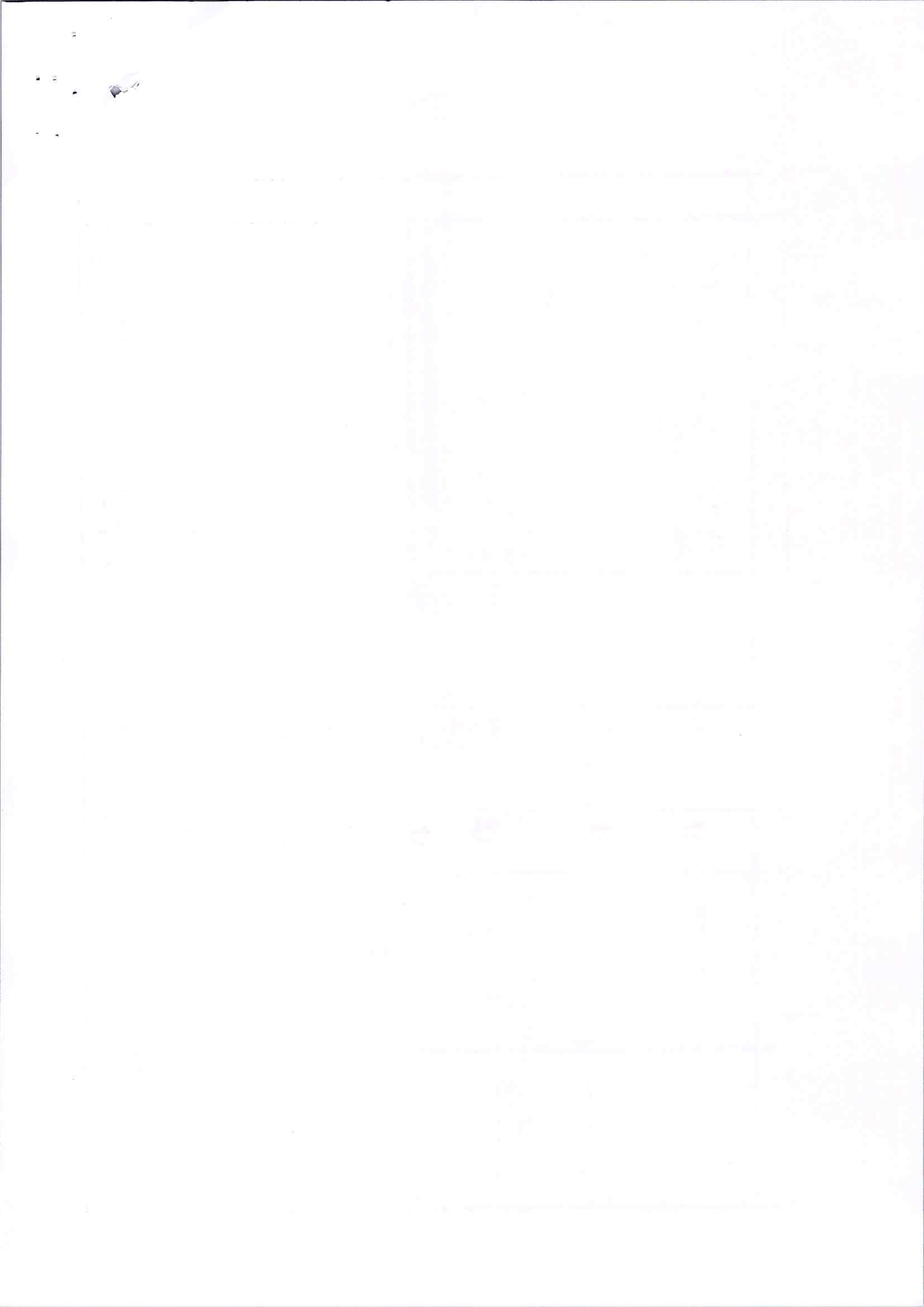




	4. Does the department have measures to encourage bright students with more complex tasks and motivate weak students to perform better?	Yes	Yes	B	Verified in PBL	Doing Team activities, but need individual tasks
	5. Does a process exist to allocate teaching load to faculty in the department?	Yes	Yes	A	Workload and Time tables	



<p>6. Do faculty in the department practice innovative TL practices such as Collaborative Learning Yes/No</p> <p>Interaction with student in and outside of class obtaining Feedback Yes/No</p> <p>Group Learning, Developing Professional Competences. Yes/No</p> <p>Teaching through value added courses Yes/No</p> <p>Experiential Learning that facilitates development of Problem-Solving Skills in the students through project based learning Yes/No</p> <p>Facilitating interaction with various experts in the field through Guest Lectures, Industrial Visits, Field trips thereby making them familiar with occupational awareness. Yes/No</p>	Yes	Yes	B	<p>Project Based Learning ,</p> <p>IQAC</p> <p>MOÓCS</p> <p>Student record</p> <p>Entrepreneurial Development Cell</p>	<p>To be enhanced for quality learning</p>
	Yes	Yes	A		
	Yes	Yes	A		
	Yes	Yes	A		
	Yes	Yes	A		
	Yes	Yes	A		
<p>7. Is student feedback on T and L process collected and acted upon?</p>	Yes	Yes	A	<p>Feedback file</p>	

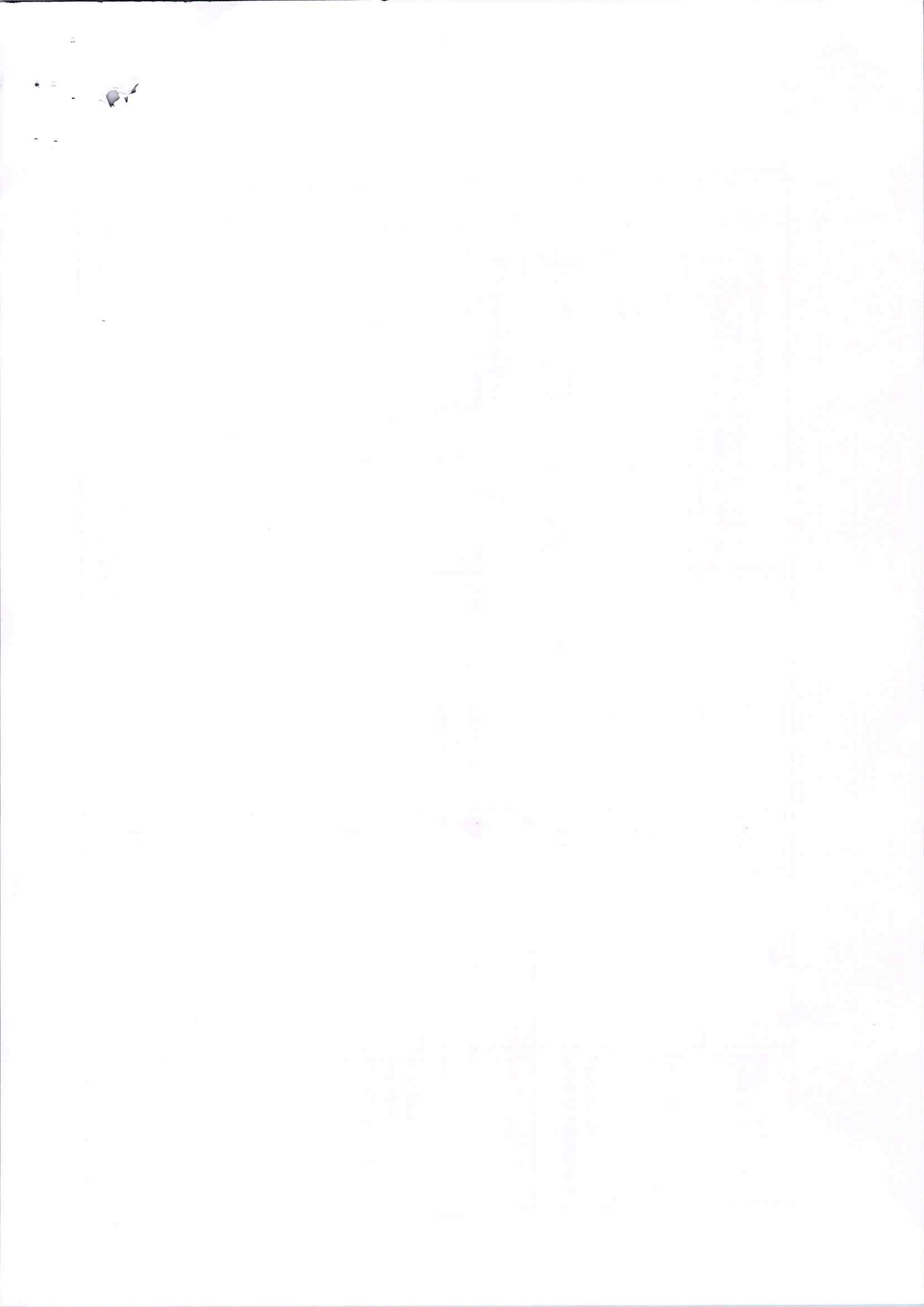




8. Do the experiments in laboratory support higher level of Bloom's Taxonomy?	Yes	Yes	B	Lab records	Mapping to be done for BTL
9. Is continuous assessment in the laboratory done systematically?	Yes	Yes	A	Evaluation sheets Course file	
10. Is a well-defined process followed in the design and validation of question papers as well as for scheme of evaluation of mid-term and semester end examinations?	Yes	Yes	A	Scheme of QP Question Paper review file	
11. Are questions mapped with course outcomes, and Blooms Taxonomy levels?	Yes	Yes	A	Question Paper review file	
12. Do the assignments given to students facilitate attainment of COs as well as higher levels of Bloom's Taxonomy?	Yes	Yes	B	Assignment file	
13. Is a well-defined process followed for identification of student projects and allocation of guide(s)?	Yes	Yes	A	PRC file	
14. Are the projects relevant to the POs and PSOs and do they contribute to their attainments?	Yes	Yes	B	PRC file and Specialization	

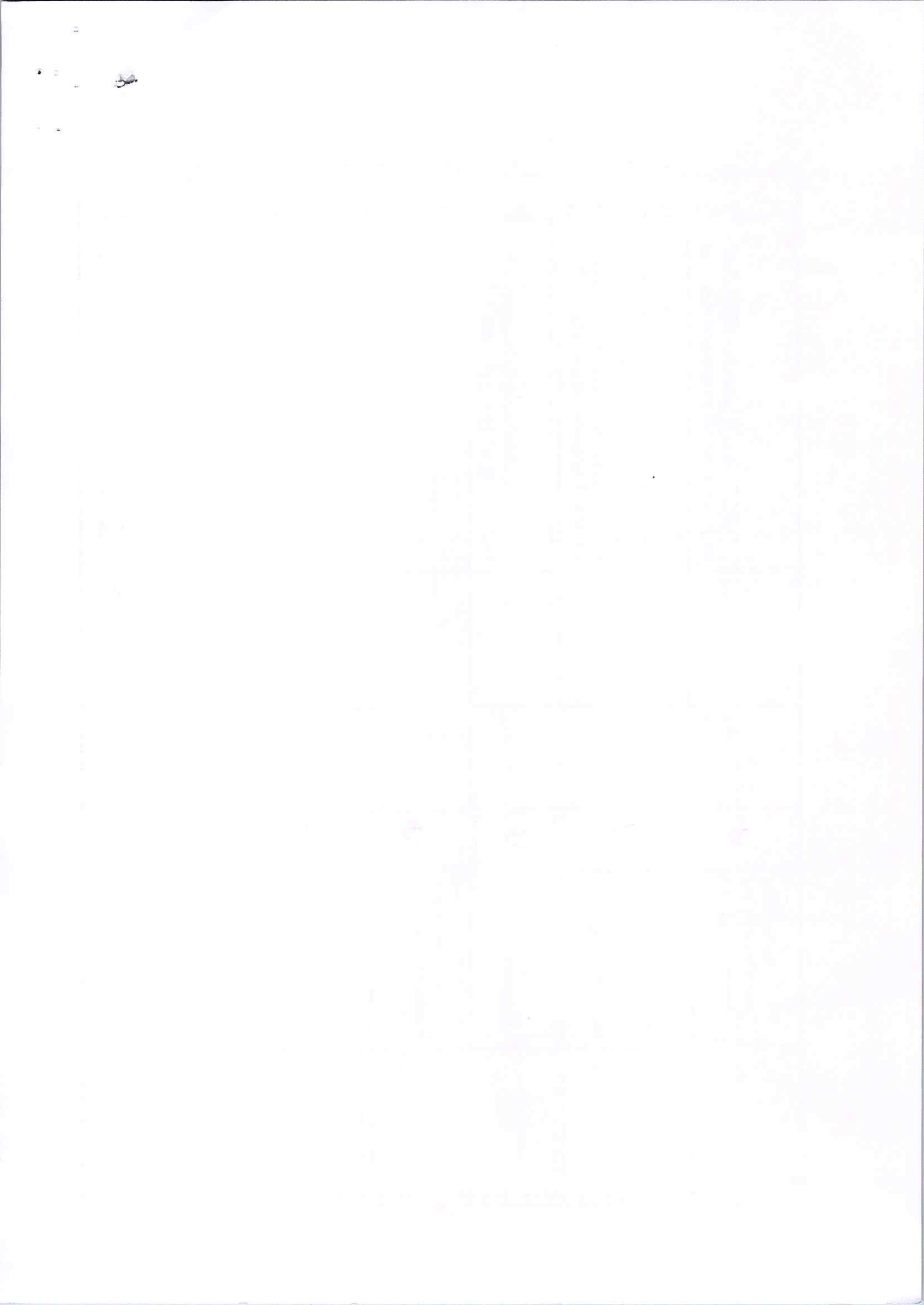


	15. Is a well-defined process followed for monitoring and evaluation of the projects and for assessing individual and team performance?	Yes	Yes	B	PRC file and Project reviews	
	16. Are efforts made to encourage students to develop working prototypes based on projects and/or to publish papers?	Yes	NO	D		Need to encourage the students
	17. Particulars of industry supported laboratories established, if any. Is impact analysis of industry interaction made and if, so, is action taken based on the results of the analysis?	Yes	NO	D		Need to encourage the institute and industry interaction
	18. Are students encouraged to undergo internships or summer training? If so, what is the minimum duration of internship?	Yes	Yes	A	Internship file	
	19. Is student feedback taken on the internship experience?	Yes	NO	D		Need to establish a procedure
	20. Is Impact analysis of internship made and action taken on the basis of the results of the analysis?	Yes	NO	D		Need to establish a procedure
	21. Average number of days from the date of last semester-end examination till the declaration of results	N/ A		-		Exam Brach (No data @ Dept)

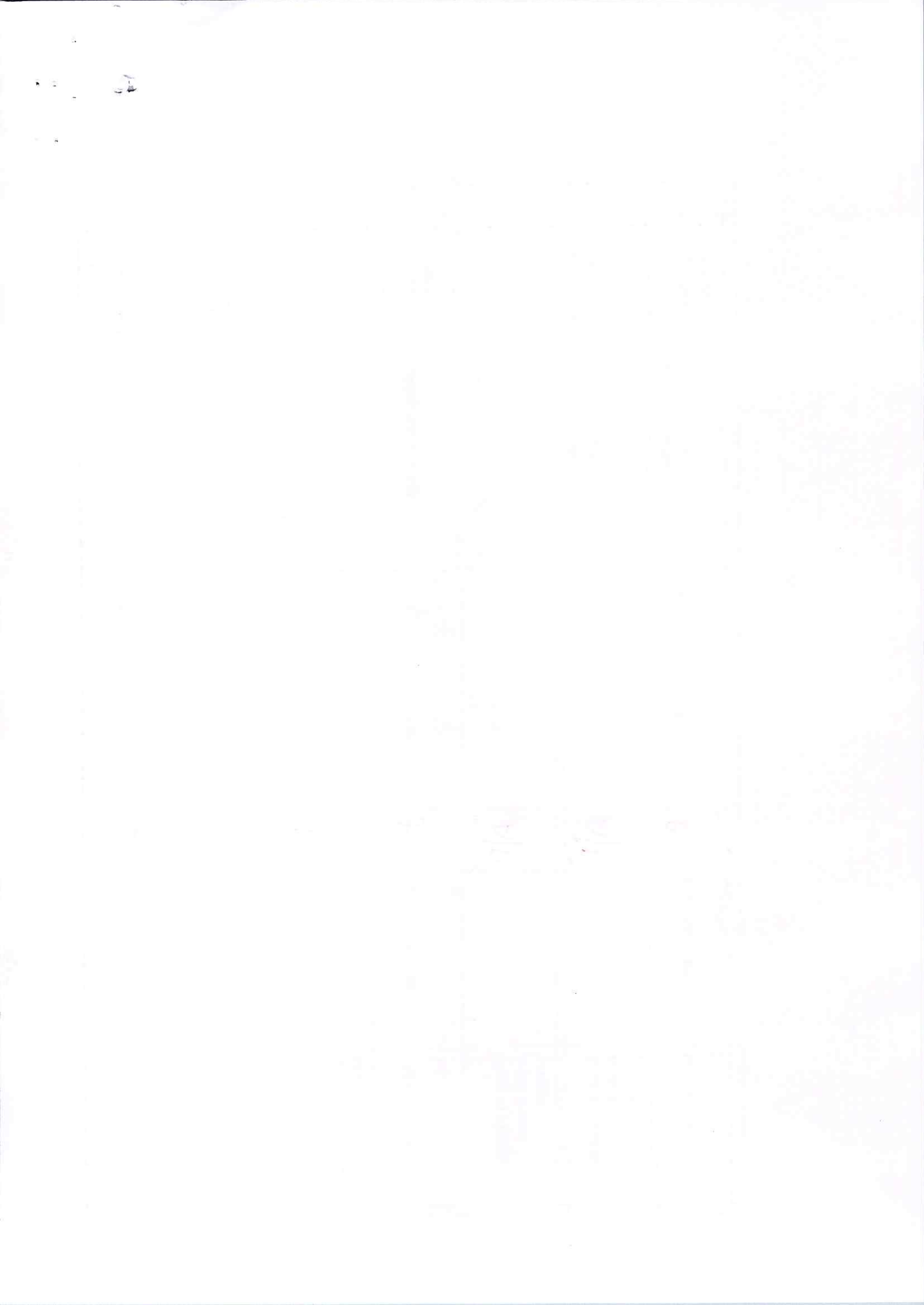


	22. Average percentage of student complaints / grievances about evaluation against total number of students appeared in the examination during last academic year	N/ A		—		Exam Brach (No data @ Dept)
III.	<b>Course Outcomes and Program Outcomes</b>					
	1. Are COs defined for every course?	Yes	Yes	A	Verified in the Academic Regulations and Syllabus	
	2. Are COs embedded in syllabus?	Yes	Yes	A	Verified in the Academic Regulations and Syllabus	
	3. Are course articulation matrix, program articulation matrix tables prepared?	Yes	Yes	A	CO, PO attainment file and course files	
	4. Is appropriate assessment process for attainment of course outcomes followed including data collection, verification, analysis and decision making?	Yes	Yes	A	CO, PO attainment file and course files	
	5. Is a well-defined process followed for determining attainment of POs and PSOs?	Yes	Yes	A	CO, PO attainment file and Academic Regulations	

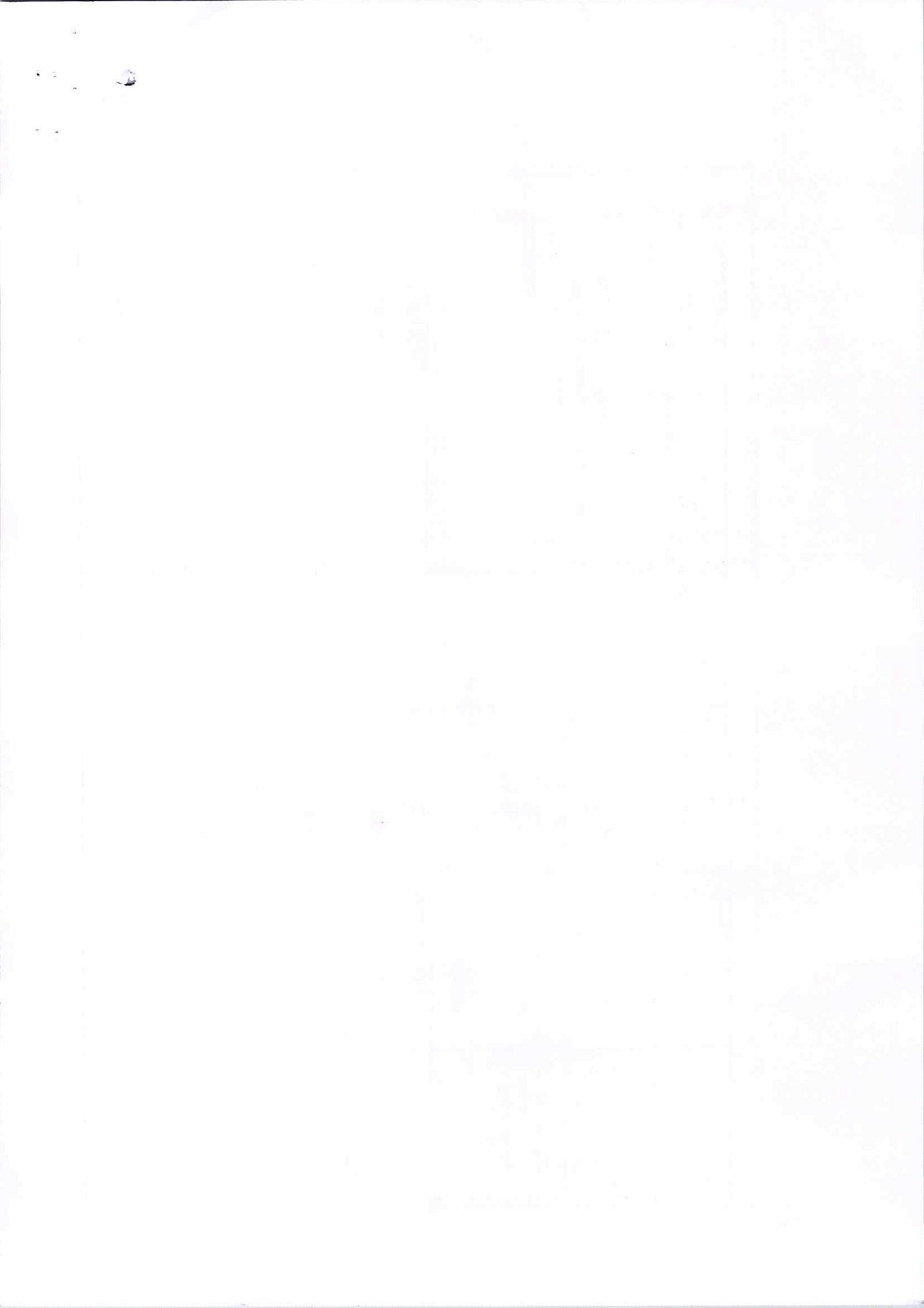




	6. Are the records of computation of attainment of POs and PSCs maintained?	Yes	Yes	A	CO, PO attainment file and Academic Regulations	
IV	<b>Students' Performance</b>					
	1. Enrollment ratio	Yes	Yes	B	Student record file	2021 -22 – (71%) - 43/60 2022-23 – (100%) – 63/60
	2. Percentage of students who graduate the program in four years, without repeat of any course?	Yes	Yes	B	Result Analysis	2021 -22 – (74%) 2022-23 – ( 76%)
	3. Percentage of students graduating the program with backlogs within 4 years?	Yes	No	A/D ✓		Need to obtain from Exam branch
	4. Mean CGPA of students (who were promoted to 3 <sup>rd</sup> year) at the end of 2 <sup>nd</sup> year	Yes	No	A/D ✓		Need to obtain from Exam branch
	5. Percentage of students placed in companies through on and off-campus recruitment.	Yes	Yes	B	Placement file (32.07%)	On Campus 17/53

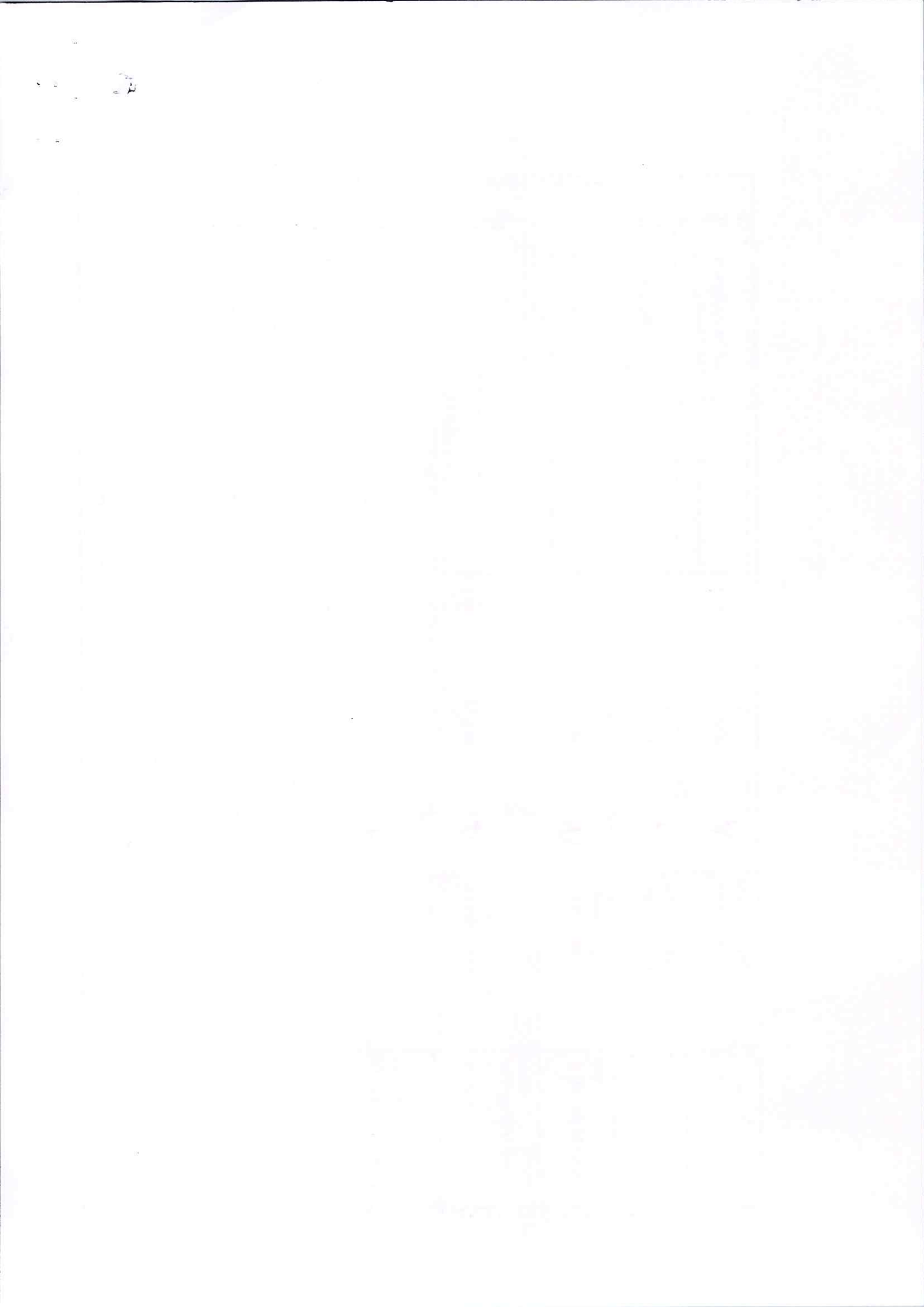


6. Percentage of final year students admitted to higher studies	Yes	Yes	A	Student records (0. 3%)	
7. Number of students turned entrepreneurs in Engineering and Technology	Yes	No	D		Need to obtain from EDCel
8. Number of Professional societies/chapters in the department	Yes	Yes	A	HMA file	
9. Number of Engineering events organized at institute at: a. Institute Level b. State Level c. National Level d. International Level	Yes	Yes	A	Events record (Bhaswara file) college level event	
10. Does the department publish technical magazines and Newsletters?	NO		-		
11. Are students associated in the above publications?	NO		-		





	12. Number of students who participated in inter-institute events · Within state · Outside state · Number of prizes/ awards received in the events.	NO				
V	<b>A. Faculty Information and Contribution</b>					
	1. Student faculty ratio	Yes	Yes	A	1:7 as per faculty records	Faculty working for MBA is only 8 (1:11)
	2. Faculty cadre proportion	Yes	Yes	A	As per faculty records	Professor: 4, Asso Prof:1, Asst Pro:9
	3. Number of Faculty with PhD qualification	Yes	Yes	A	As per faculty records (4)	2 (in the current A.Y)
	4. Number of Faculty with PG Degree qualification	Yes	Yes	A	As per faculty records (14)	
	5. Faculty retention (%) in the Current Academic Year?	Yes	Yes	A	As per faculty records (14)	

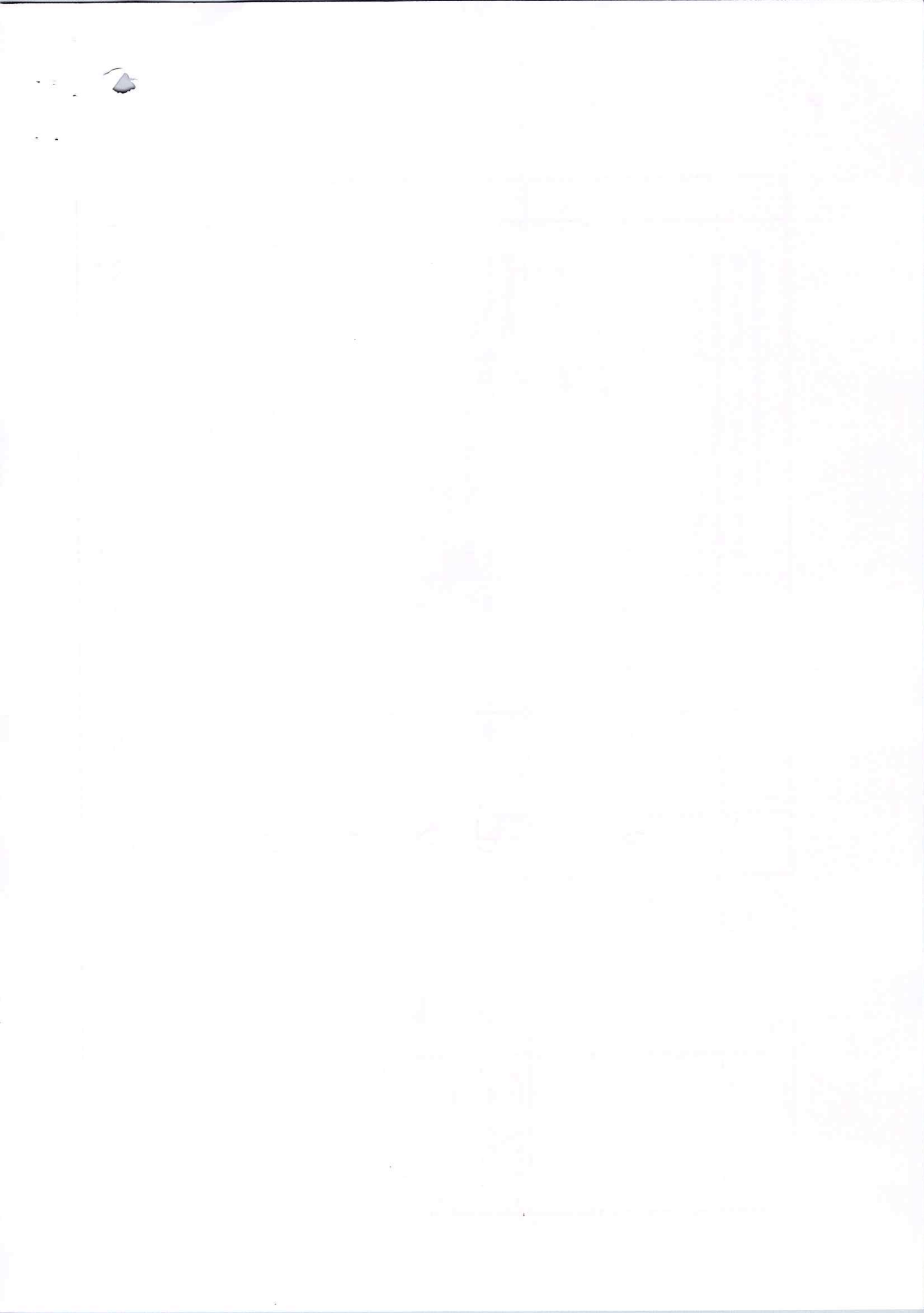


6. Number of research publications of faculty in the year	Yes	Yes	A	As per faculty records (65%)	5 Faculty left in 2021
7. Number of faculty who participated in FDPs, and duration of the programs.	Yes	Yes	A	FDP file (14)	All the faculty
<b>B. Research and Development</b>					
1. Number of quality research publications in refereed/Scopus indexed journals.	Yes	Yes	B	Publication file 2 Scopus, 3 UGC	
2. Number of faculty awarded PhD during the current academic year	Nil	Nil	-		
3. Sponsored research (funded) undertaken and its value in Lakhs of Rupees.	Nil	Nil	-		
4. Number of development activities undertaken by faculty: · Product development · Working models	Nil	Nil	-		
5. Consultancy services offered and their value in Lakhs of Rupees.	Nil	Nil	-		



	6. Does a well-defined faculty performance appraisal and development system exists and implemented?	Yes	Yes	-	Establishment section	To be verified at institute level
VI	<b>Facilities &amp; Technical Support</b>					
	1. Are well-equipped labs and technical supporting staff available?	Yes	No	D	No Supporting staff	Need to depute a NT staff
	2. Are labs well maintained?	Yes	Yes	A	Observed the log book	
	3. Are safety measures followed in the lab?	Yes	Yes	A	Observed log book	
	4. Is a project laboratory together with necessary facilities available in the department?	Yes	No	D		To be established
VII	<b>Continuous Improvement</b>					
	1. Are short falls and weaknesses in the program identified from the analysis of POs and PSOs attainment?	No short falls	No	A	CO - PO attainment file	
	2. Are action plans to bridge the shortfalls prepared and implemented? If so, what is the impact of the said implementation with respect to previous academic year?	N/A		-		



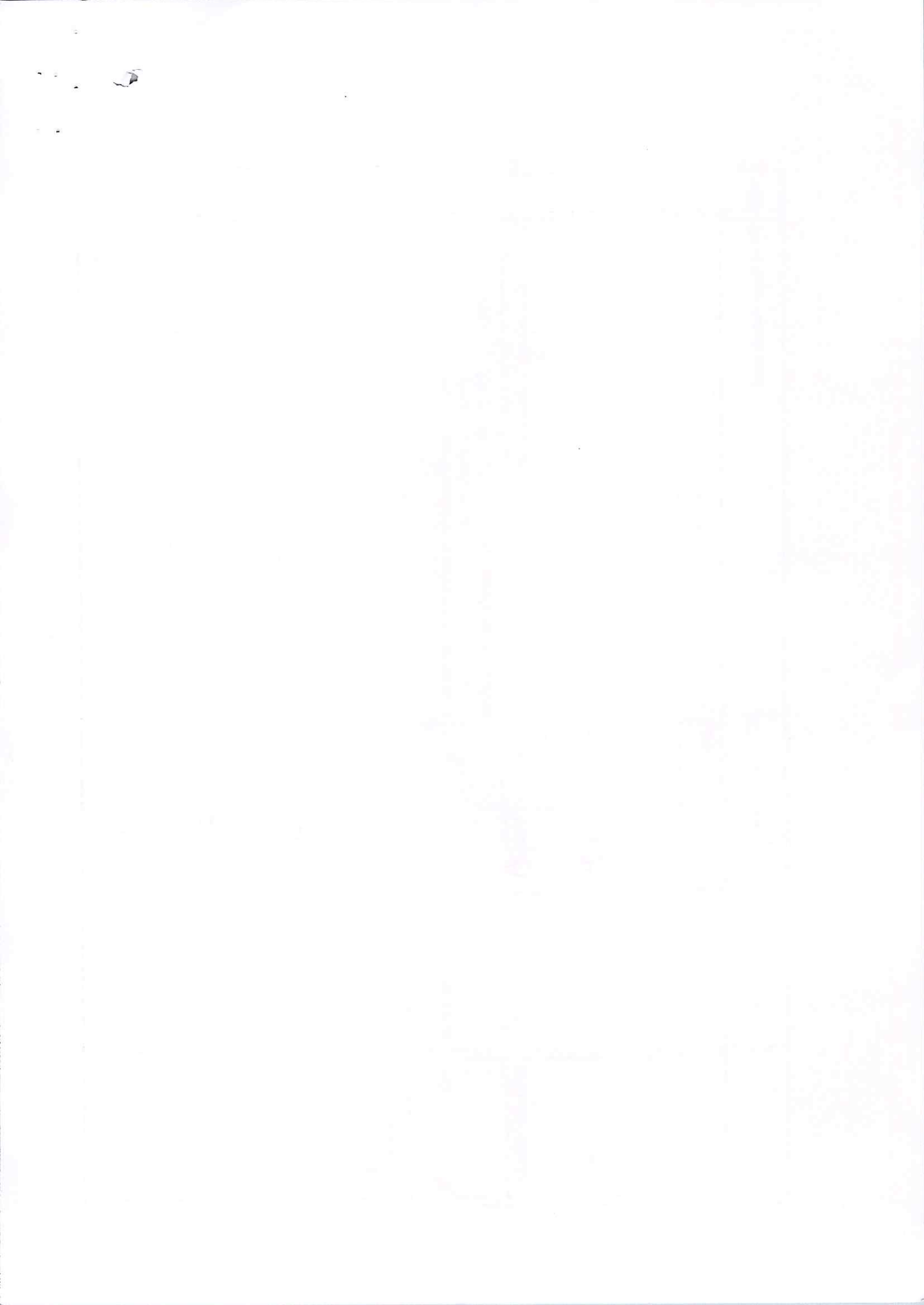


3. Does a criterion exist for conducting academic and administrative audit?	Yes	Yes	A	Audit file	
4. Frequency of audit	Yes	Yes	A	Annually	
5. Are actions taken based on audit report?	Yes	Yes	A	Action taken file	
6.					
a. Percentage of placements in current Academic Year	Yes	Yes	A	32%	(17/52)
b. Percentage of placements in the previous Academic Year	Yes	Yes	A	0.01%	(1/54)
c. Is there any improvement?	Yes	Yes	A		
	Yes				
7.					
a. Median salary offered to students in the current academic year	Yes	Yes	B	Placement file	2021- 22 – Rs. 2.97 L
b. Median salary offered to students in the previous academic year	Yes	Yes	B		2020-21 – Rs. 3.50 L
c. Is there any improvement?	No				



	8.					
	a. Best rank of the students admitted in the current academic year	Yes	Yes	A	Student Admission file	2022- 23 – 1479
	b. Best rank of the students admitted in the previous academic year	Yes	Yes	A		2021-22 - 5436
c. Is there any improvement?	Yes	Yes	A			

	9.					
	a. Highest rank (in the qualifying examination) of student admitted in the current Academic Year	Yes	Yes	A	Student Admission file	2022- 23 – 53368
	b. Highest rank (in the qualifying examination) of student admitted in the previous Academic year?	Yes	Yes	B		2021-22 - 50123
c. Is there any improvement?	No					
<b>VIII</b>	<b>First Year Academics</b>					





1. First year student faculty ratio	Yes	Yes	A	Faculty record	2021- 22 – 1: 6 2022- 23 – 1.9
2. Number of faculty teaching first year, with PhD qualification	Yes	Yes	A	Faculty record 2	
3. Number of faculty teaching first year with PG qualification	Yes	Yes	Yes	Faculty record 07	
4. Percentage of students who qualified for promotion to 2 <sup>nd</sup> year from end examinations of first year	43		A		
5. Mean CGPA/percentage of students (who were promoted to Second year) at the end of First year.	Exam Branch		-		
6. Is a proper assessment process used for determining the attainment of course outcomes?	Yes	Yes	A	As same as in S. No 2 data	
7. Is a proper assessment process used for determining the attainment of relevant POs and PSOs	Yes	Yes	A		



	8. Are records of computation of attainment of COs of all first-year courses available?	Yes				
	9. Are records of computation of attainment of relevant POs & PSOs of all first-year courses available?	Yes	Yes	A		
	10. Are actions taken based on the results of evaluation of POs and PSOs?	Yes	Yes	A		
IX	<b>Student Support Systems</b>					
	<b>A. Mentoring System</b>					
	1. Is a comprehensive mentoring system at individual level in place for professional guidance, career advancement and all-round development?	Yes	No	D	No mentoring system	mentoring system to be established
	2. Is the mentoring system implemented? If yes, Number of students per mentor	Yes	No	D		
3. Is the mentoring system effective?	Yes	No	D			



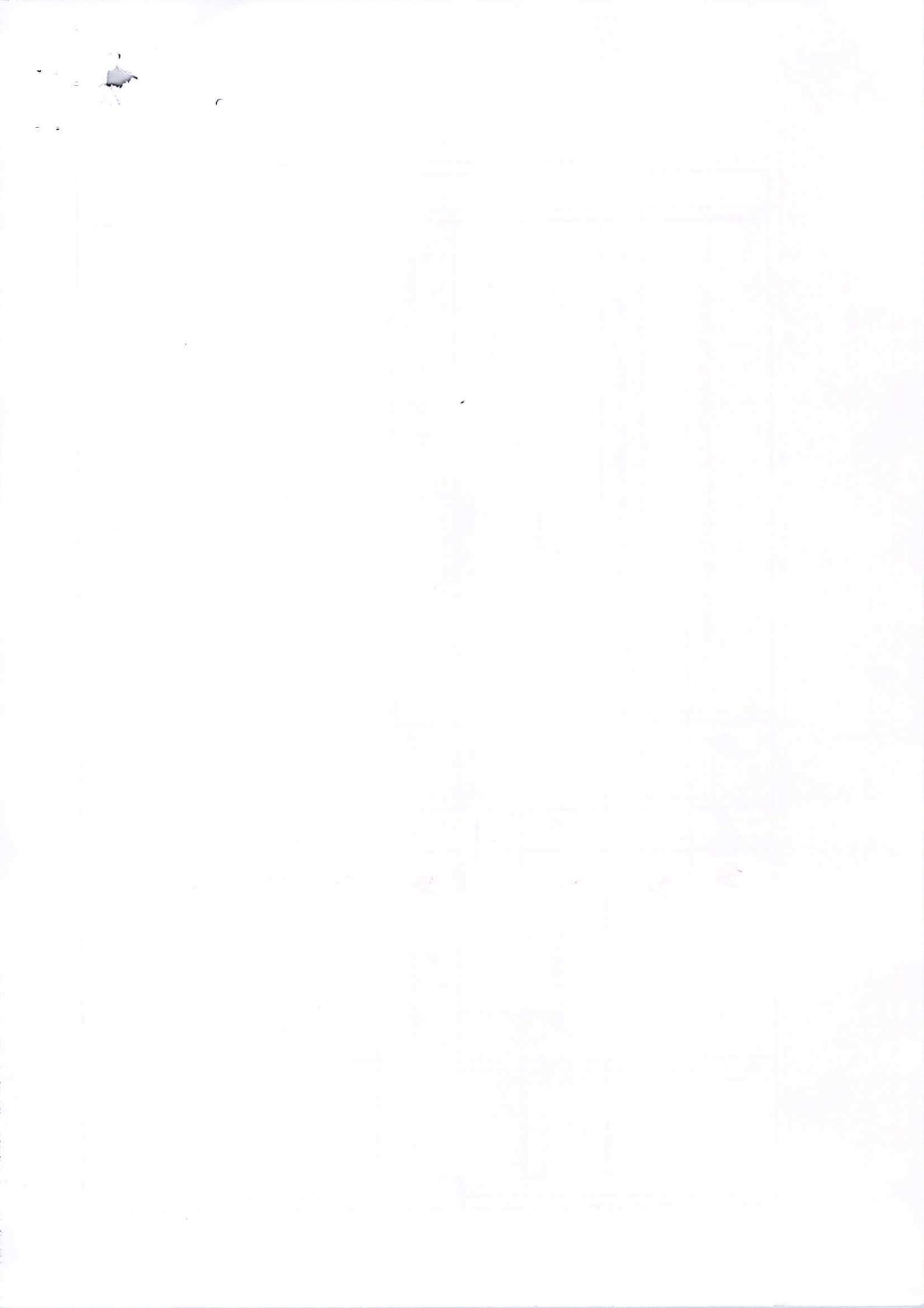
**B. Student feedback on faculty and facilities.**

1. Does a student feedback system exist?	Yes	Yes	A	IQAC – Feedback file	
2. Are the records of action taken on the results of feedback (on faculty) analysis available?	Yes	Yes	A	Action taken file	
3. Is the feedback system effective?	Yes	Yes	A	Action taken file	
4. Are records of action taken on feedback on facilities available?	Yes	Yes	A	Action taken file	

**C. Facilities for Self-Learning**

1. Does the department provide scope for self-learning?	Yes	Yes	A	MOOCs file	
2. Are all required facilities, materials, for learning beyond syllabus etc. provided to the students?	Yes	Yes	A		
3. Are the facilities effectively utilized by the students?	Yes	Yes	A		





**D. Career guidance, Training and Placement**

**Career Guidance**

1. Does the college have a Career Guidance or Counseling Cell?

2. If yes, how many students have been utilizing these services?

3. How many Career Guidance programs have been conducted in each year?

4. How many number of students attended these career guidance programs?

5. Are students counseled for higher studies?

6. Does the College have Academic links/ collaborations/MoU, etc with other institutes of higher learning?

**Training and Placements**

<b>Career Guidance</b>					
1. Does the college have a Career Guidance or Counseling Cell?					
2. If yes, how many students have been utilizing these services?					
3. How many Career Guidance programs have been conducted in each year?					
4. How many number of students attended these career guidance programs?					
5. Are students counseled for higher studies?					
6. Does the College have Academic links/ collaborations/MoU, etc with other institutes of higher learning?					
<b>Training and Placements</b>					



1. Does the college conduct any pre placement training for students' placements?					
2. Is effective placement policy framed and implemented?					
3. If yes, then specify the number of hours, areas in which training is imparted.					
4. Does the placement cell maintain the record of job opportunities available for students?					
5. Did the college organize any company/Industrial visits or guidance camp for students? 6. If yes, number of such visits/camps organized					
7. Are the students provided computers and Internet to search for job, to download application forms or to register for placements drive of the companies etc?					
8. Does the college subscribe to magazines like Employment News, Rojgar Samachar etc? If yes, give names of magazines.					





	9. Does the college have a system of registering students at the Employment office of the GoI?					
	<b>NSS Activities/Student Clubs/Alumni Association</b>					
	1. Are clubs and NSS effectively functioning?					
	2. Do students conduct and participate in annual co-curricular and extra-curricular activities.  If yes, please mention % of students participate in such activities:					
	3. Does the college have a registered and functional Alumni Association?  If yes, give number of students enrolled	Yes	Yes	A	Alumni file	All : 52
	4. Specify Activities of Alumni Association	Yes	Yes	A	Alumni file	
X	<b>Governance, Institutional Support and Financial Resources</b>					
	<b>A. Governance, Institutional Support</b>					



1. Are vision and mission statements of Institution available on college website, Principal's Chamber, Library, Conference rooms etc?					
2. Are the vision and mission statements appropriately defined and relevant?					
3. Is institutional strategic plan (5 years) available?					
4. Is there an implementation plan towards achieving the strategic objectives?					
5. Is the strategic plan monitored effectively?					
6. Is a Governing Body duly constituted and its meetings held regularly?					
7. Are service rules, policies, procedures, functions and responsibilities published and uploaded on the website?					
8. Are Minutes of Meetings of Governing Body and Academic council and Action taken reports available?					



9. Are organizational structure and lists of administrative heads, and committees formed with powers to take administrative decisions, available?					
10. Is there any Grievance redressal system in place and a cell constituted for this purpose?					
11. Is evidence of action taken on student/staff grievances available?					
12. Are financial powers delegated to Principal, HoDs, I/cs, documented?					
13. Is Mandatory Disclosure as per AISHE & AICTE, placed on website?					
14. What are institutional practices for integrating IT? (i)Administration (ii)Finance and Accounts (iii)Examination					
<b>B. Budget allocation and utilization</b>					





1. Does the college follow a prescribed procedure for budget formulation, finalization and approval?	Yes	Yes	A	Budget file	
2. Is the budget allocation adequate at institutional, and program levels?	Yes	Yes	A	Budget file	
3. What percentage of allocated funds was utilized in the previous year by the Institution and programs?	Yes	Yes	C	Budget file	5 L - allotted 50 T - used
<b>C. Library and Internet</b>					
<b>i. Quality of learning resources</b>					
1. Are learning resources procured as per the requirements provided by the academic departments, ensuring relevance to programs?					
2. Are AICTE norms followed in respect of number of books & their copies procured?					
3. Are these learning resources including E-Resources & digital library, easily accessible to students?					

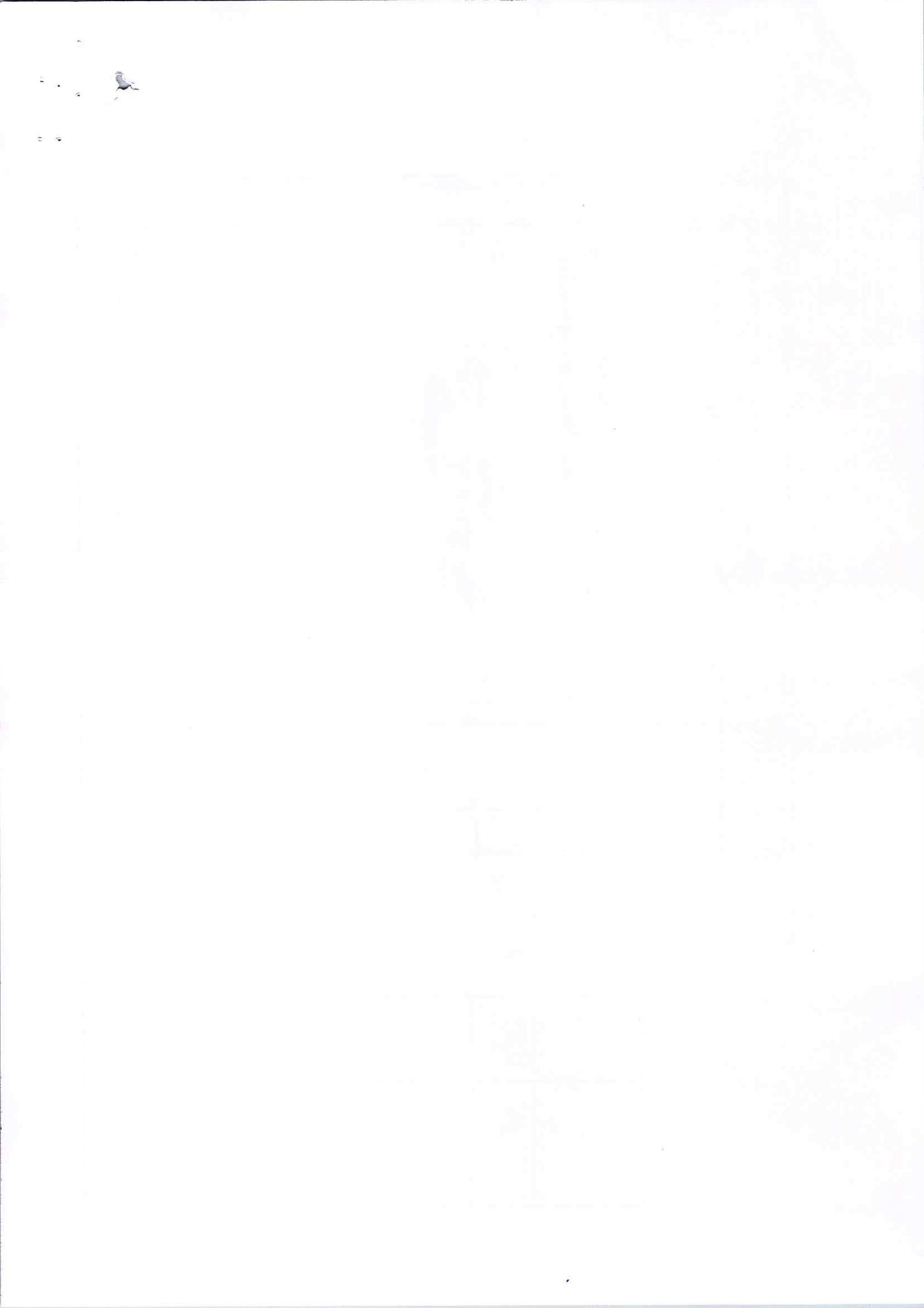
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4. Is adequate support given to students for self-learning activities?					
5. Is the utilization of learning resources by students and faculty satisfactory?					
<b>ii. Internet</b>					
1. Is the available band Width adequate?	Yes	Yes	A	Web file	1 GB
2. Is Wi-Fi available in the college?	Yes	Yes	A		
3. Is there internet access in labs, library, conference rooms & offices of all departments?	Yes	Yes	A		
4. Is adequate security mechanism put in place for protecting the internet transactions?					
<b>iii. Infrastructural facilities and ambience</b>					
1. Is Campus ambience exemplary /Good / Satisfactory/ Unsatisfactory?					





2. Is Office Space ambience exemplary/Good/Satisfactory/Unsatisfactory?					
3. Are washrooms well maintained?					
4. Is adequate parking facility available?					
5. Are individual Staff rooms available with IT facility?					
6. Are staff rooms well maintained?					
7. Is Potable Water facility available?					
8. Is Power Backup facility available? If so, specify the capacity					



<p>9. Does the Institute have facilities for alternate sources of energy like:</p> <p>(i) Solar energy</p> <p>(ii) Wheeling to the Grid</p> <p>(iii) Use of LED Bulbs</p>					
<p>10. Does the Institute have Rain water harvesting pits?</p>					
<p>11. Does the institute take any Green campus initiatives such as:</p> <p>(i) Restricted entry of automobiles</p> <p>(ii) Pedestrian friendly path ways</p> <p>(iii) Landscaping with trees and plants</p>					
<p>12. Does the Institute provide any facility for Disabled/Divyangjan persons easy access to classrooms and Labs?</p>					
<p>13. Does the institute organize National/International commemorative days, events and festivals?</p>					
<p>14. Do Seminar halls have adequate ICT facilities?</p>					



	15. Is transportation available for students and staff?					
	16. Is the Canteen maintained as per Food Safety and Standards Act?					
	17. Is Auditorium/Assembly Hall available with all ICT facilities?					

**Please mention**

**Good Practices, if any**

1. Group head division is well organized for the improvement of R&D and faculty promotion
2. A systematic TLP is established for the upliftment of students.
3. Student learning through MOOCs is implemented.

**Strengths, if any**

1. The faculty ratio is appropriate and above then the needed
2. Faculty commitment and coordination is good
3. Disciplined work environment and continuous quality improvement

**Weaknesses, if any**

1. No established procedure for improving the weak students.
2. Industry institute interaction to be improves
3. No MOUs for placements and industry based learning.
4. Ratification of staff is not done at professor level.

**Concerns, if any**

1. Lack of supporting staff for the Lab
2. Curriculum design flowcharts to be prepared
3. More guest lectures to be organized
4. Experimental learning to be incorporated
5. Case study and Industry based project to be designed





**Deficiencies, if any**

1. T & P dept to be at department level to be established
2. Department infrastructure to be improved (Staff room)
3. SMART classrooms to be established

**Recommendations, if any**

1. Research publications by the faculty in indexed journals to be promoted
2. Student mentoring systems to be established
3. New add on courses ( Value added courses ) to included in the curriculum

**Brief report, if any**

- ❖ The department is maintaining a quality teaching and learning environment and it should see that it will be transmitted to the targeted students.
- ❖ It has to maintain industry interaction for the upliftment of learning quality and placement.
- ❖ Training department is to be instigated the program based training ( MBA )
- ❖ Faculty and student publication to be improved through project based or problem based learning approach
- ❖ MBA department need to develop consultancy practices to the industry by establishing the MOUs.

**Suggestions for improvising the academic quality:**

1. Modern curriculum to be adopted (As per industry needs)
2. Placement to be improved
3. MOUs and Industry interaction to be established
4. Infrastructure to be improved as per the course requirements (both for faculty and programme)

**Signature of audit committee member:**

*[Signature]*  
11/12/2022

**Name of the audit committee member:**

Dr. Y. Rama Krishna Prasad

**Affiliation of the audit committee member:**

Professor - DMS, GRIET, HYD-90  
&  
Dean Admissions



**Dr. K. LAL KISHORE**

M.Tech., Ph.D.

SMIEEE, FIETE, FIE, MISTE, MISHM, FAPAS

Former Vice - Chancellor - JNTUA

Former Rector JNTUH

Former Registrar JNTUH

Mobile: 09618023478

E-mail: lalkishorek@gmail.com

**CONFIDENTIAL**

Hyderabad

Dt: 20.12.2022

Dear Prof. Udaykumar Suserla garu,

Greetings!

I, on my own half and on behalf of all the Committee members, thank you for the hospitality and Co-operation given by you and your colleagues during the Academic and Administration Audit conducted by the committee on 17/12/2022.

Enclosed please find the summary report and department wise reports submitted by the respective committee members in the prescribed proforma.

Thanking You,

Yours Sincerely

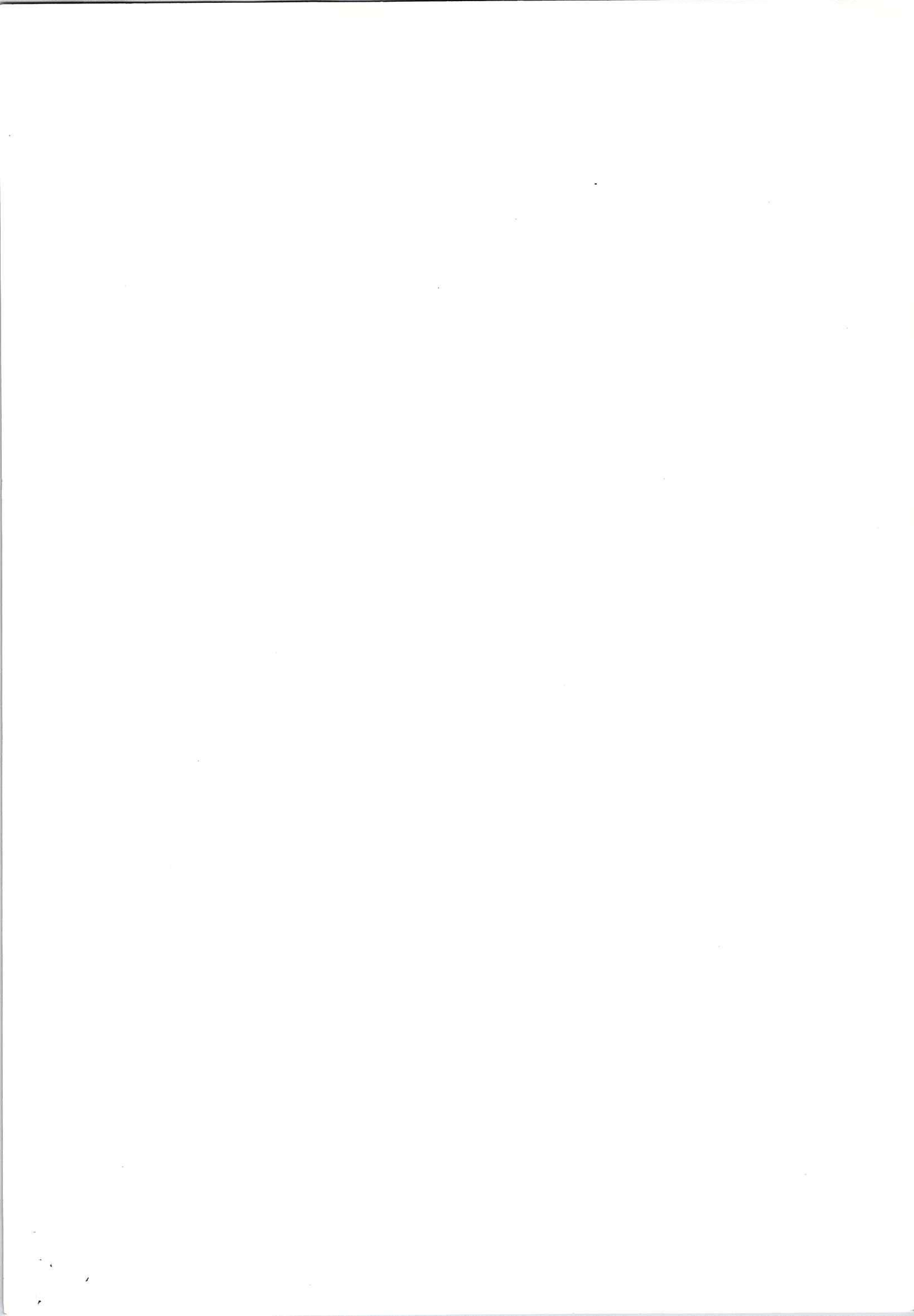
  
Prof. K. Lal Kishore

Encl: As above.

*TO  
HODs/Deans/IOAC/Registrar/CSE  
for compliance*

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*S/M  
9/21/12/22.*



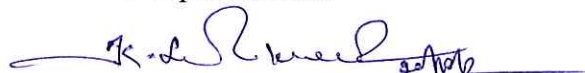


**CONFIDENTIAL****Report on the Academic and Administrative Audit conducted on 17/12/2022****Appreciations:**

- 1) Technology learning process is made **more effective**, by reducing the number of students in each section, to around 45.
- 2) **Good ambience** and **Pro-active approach** of the management and administration.
- 3) Mentoring of weak students is **effective**. Records are maintained well.
- 4) Staff retention is **satisfactory**.
- 5) Good number of prototypes are developed by EEE students.
- 6) Academic and Administrative Audit is being conducted **regularly**.

**Suggestions:**

- 7) Ranking of the college in NIRF and other Agencies **needs improvement**.
- 8) **Research paper publications, Research Project Grants, Patents** filing **need to be improved**
- 9) COs, POs, PSOs and PEOs **need to be examined**. PSOs must be specifically Designed and mapping must be done more systematically.
- 10) Students must be encouraged to participate in different academic and extra-curricular Programmes **outside the college**.
- 11) Publications by faculty in **standard Journals** need to **be improved**.
- 12) **Innovative methods** in Teaching-Learning process, using Digital Technology, video lessons with animations, to explain complex principles, can be employed.
- 13) **Stake holders involvement** in syllabus framing can be incorporated.
- 14) Interaction of faculty **with industry** needs to be improved.
- 15) **Project Labs with** all facilities to carryout Projects by students need to be established in all departments.



...contd. 2



- 16) Bright students must be encouraged from II year onwards by the respective Departments., by making them participate in various activities.
- 17) Evaluation of Performance appraisal of staff needs improvement
- 18) **TASK registration** of students can be done in I year, so that they get the benefit of registration, for all the 4 years.
- 19) **Challenge valuation**, as per university guidelines and with their approval can be introduced.
- 20) In MBA Dept, Infrastructure needs to be improved
- 21) Case studies and Industry based Projects are to be implemented for MBA Course.
- 22) Curriculum **Design flow** charts must be prepared
- 23) Industrial visits must be more in number.
- 24) Value added courses can be increased
- 25) Students can be encouraged to take up inter disciplinary projects.
- 26) Project based learning is to be improved.
- 27) **Technical magazine** at college level or department levels can be published.
- 28) **Stock verification** of books in the library must be done more frequently, so also, in all the Departments.
- 29) **Iron grill must** be provided near the main door of the EXAM branch. One more service counter can be provided, when there in rush of students.
- 30) College Budget amount and departments budget amount can be increased
- 31) Teaching staff can be given desktop Computers.
- 32) Teaching staff without much teaching experience **must be trained**, through FDPs in Teaching Methodology.
- 33) All departments must be encouraged to conduct National/International Conferences/Workshops/Seminars regularly

34) Standard of the Question Papers is to be improved.

Overall Score for the College:  
85%

*K. Lal Kishore*

*K. Lal Kishore*  
23/12/22  
Prof. K. Lal Kishore  
Prof. K.LAL KISHORE  
Ph.D., MIEEE, FIETE, FIE, MISTE, MISHM  
Former Vice Chancellor,  
JNT University  
ANANTAPURAMU-515 002





College

College

Common facilities, I team, Admin.

**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
Cheeryal(V), Keesara (M), Medchal (D), Telangana state – 501 301

Prof. K. Lakshmi  
former V.C. JNTUA.

**ACADEMIC AND ADMINISTRATIVE AUDIT REPORT**

\* Grade: A: Very Good, B: Good, C: Adequate, D: deficient

S. No	Criterion	Status		Grade	Exhibits observed	Remarks of Audit Team
		As assessed by department/institution	As observed by Audit Team			
I.	<b>Vision, Mission and PEOs,</b>					
	1. Are vision and mission statements of the department available?					
	2. Are department vision and mission statements consistent with institute statements?					
	3. Are the PEOs available?					
	4. Does the department follow a defined process for defining vision, mission and PEOs with the participation of all stakeholders-internal and external stake holders?					

P.T.O

	5. Are the vision, mission and PEOs made available on college website, department notice boards, HoD's chamber, laboratories, lab manuals, course files, and curriculum books etc?					
	6. Are the PEOs consistent with the mission of the department indicated in matrix form with proper justification of correlation parameters?					
	<b>Program curriculum and Teaching-Learning (T and L) Process</b>					
	<b>Program Curriculum</b>					
	1. Does a defined process exist for design of program curriculum?					
II.	2. Are the structure and components of curriculum well balanced and appropriate (as per AICTE Guidelines)?					
	3. Is a valid process followed for mapping of curriculum with PEOs and PSOs?					
	4. Is Employability a major consideration in the overall development of the curriculum					
	<b>B. Teaching – Learning Process</b>					
	1. Is an Academic Calendar prepared and adhered to?					
	2. Is evidence of pedagogical initiatives taken, such as collaborative learning, ICT supported teaching etc available?					

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3. Does a process exist to identify bright and weak students?					
4. Does the department have measures to encourage bright students with more complex tasks and motivate weak students to perform better?					
5. Does a process exist to allocate teaching load to faculty in the department?					
<p>6. Do faculty in the department practice innovative TL practices such as</p> <ul style="list-style-type: none"> <li>• Collaborative Learning                      Yes/No</li> <li>• Interaction with student in and outside of class obtaining Feedback                      Yes/No</li> <li>• Group Learning, Developing Professional Competences.                      Yes/No</li> <li>• Teaching through value added courses                      Yes/No</li> <li>• Experiential Learning that facilitates development of Problem-Solving Skills in the students through project based learning                      Yes/No</li> <li>• Facilitating interaction with various experts in the field through Guest Lectures, Industrial Visits, Field trips thereby making them familiar with occupational awareness.                      Yes/No</li> </ul>					

7. Is student feedback on T and L process collected and acted upon?					
8. Do the experiments in laboratory support higher level of Bloom's Taxonomy?					
9. Is continuous assessment in the laboratory done systematically?					
10. Is a well-defined process followed in the design and validation of question papers as well as for scheme of evaluation of mid-term and semester end examinations?					
11. Are questions mapped with course outcomes, and Blooms Taxonomy levels?					
12. Do the assignments given to students facilitate attainment of COs as well as higher levels of Bloom's Taxonomy?					
13. Is a well-defined process followed for identification of student projects and allocation of guide(s)?					
14. Are the projects relevant to the POs and PSOs and do they contribute to their attainments?					
15. Is a well-defined process followed for monitoring and evaluation of the projects and for assessing individual and team performance?					

16. Are efforts made to encourage students to develop working prototypes based on projects and/or to publish papers?					
17. Particulars of industry supported laboratories established, if any. Is impact analysis of industry interaction made and if, so, is action taken based on the results of the analysis?					
18. Are students encouraged to undergo internships or summer training? If so, what is the minimum duration of internship?					
19. Is student feedback taken on the internship experience?					
20. Is Impact analysis of internship made and action taken on the basis of the results of the analysis?					
21. Average number of days from the date of last semester-end examination till the declaration of results					
22. Average percentage of student complaints / grievances about evaluation against total number of students appeared in the examination during last academic year					
<b>III. Course Outcomes and Program Outcomes</b>					
1. Are COs defined for every course?					

P.T.O 5



	2. Are COs embedded in syllabus?					
	3. Are course articulation matrix, program articulation matrix tables prepared?					
	4. Is appropriate assessment process for attainment of course outcomes followed including data collection, verification, analysis and decision making?					
	5. Is a well-defined process followed for determining attainment of POs and PSOs?					
	6. Are the records of computation of attainment of POs and PSOs maintained?					
	<b>Students' Performance</b>					
IV	1. Enrollment ratio					
	2. Percentage of students who graduate the program in four years, without repeat of any course?					
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	4. Mean CGPA of students (who were promoted to 3 <sup>rd</sup> year) at the end of 2 <sup>nd</sup> year					
	5. Percentage of students placed in companies through on and off-campus recruitment.					
	6. Percentage of final year students admitted to higher studies					

	7. Number of students turned entrepreneurs in Engineering and Technology					
	8. Number of Professional societies/chapters in the department					
	9. Number of Engineering events organized at institute at: a. Institute Level b. State Level c. National Level d. International Level					
	10. Does the department publish technical magazines and Newsletters?					
	11. Are students associated in the above publications?					
	12. Number of students who participated in inter-institute events • Within state • Outside state • Number of prizes/ awards received in the events.					
V	<b>A. Faculty Information and Contribution</b>					
	1. Student faculty ratio					
	2. Faculty cadre proportion					
	3. Number of Faculty with Ph.D qualification					



	7.					
	a. Median salary offered to students in the current academic year					
	b. Median salary offered to students in the previous academic year					
	c. Is there any improvement?					
	8.					
	a. Best rank of the students admitted in the current academic year					
	b. Best rank of the students admitted in the previous academic year					
	c. Is there any improvement?					

	9.					
	a. Highest rank (in the qualifying examination) of student admitted in the current Academic Year					
	b. Highest rank (in the qualifying examination) of student admitted in the previous Academic year?					
	c. Is there any improvement?					
<b>VIII</b>	<b>First Year Academics</b>					
	1. First year student faculty ratio	1:14	1:14		A	
	2. Number of faculty teaching first year, with PhD qualification	27	27		B	

DCPA  
 12/1/2019

	3. Number of faculty teaching first year with PG qualification	49 49		A		
	4. Percentage of students who qualified for promotion to 2 <sup>nd</sup> year from end examinations of first year	100% 100%		A		
	5. Mean CGPA/percentage of students (who were promoted to Second year) at the end of First year.	6.12 6.12		B		
	6. Is a proper assessment process used for determining the attainment of course outcomes?	Yes		B		
	7. Is a proper assessment process used for determining the attainment of relevant POs and PSOs	Yes		B		
	8. Are records of computation of attainment of COs of all first-year courses available?	Yes		B		
	9. Are records of computation of attainment of relevant POs & PSOs of all first-year courses available?	Yes		B		
	10. Are actions taken based on the results of evaluation of POs and PSOs?	Yes		B		
	<b>Student Support Systems</b>					
	<b>A. Mentoring System</b>					
IX	1. Is a comprehensive mentoring system at individual level in place for professional guidance, career advancement and all-round development?	Yes		A		
	2. Is the mentoring system implemented? If yes, Number of students per mentor	18 18		A		

3. Is the mentoring system effective?	Yes Yes		A		
<b>B. Student feedback on faculty and facilities.</b>					
1. Does a student feedback system exist?	Yes		A		
2. Are the records of action taken on the results of feedback (on faculty) analysis available?	Yes		B		
3. Is the feedback system effective?	Yes Yes		B		
4. Are records of action taken on feedback on facilities available?	Dependent on Depts. Yes		B		
<b>C. Facilities for Self-Learning</b>					
1. Does the department provide scope for self-learning?			} B		Scope for department is limited College level
2. Are all required facilities, materials, for learning beyond syllabus etc. provided to the students?	-				
3. Are the facilities effectively utilized by the students?					
<b>D. Career guidance, Training and Placement</b>					
<b>Career Guidance</b>					
1. Does the college have a Career Guidance or Counseling Cell?	Yes Yes		A		
2. If yes, how many students have been utilizing these services?	-		B		Not provided
3. How many Career Guidance programs have been conducted in each year?	15 15		B		
4. How many number of students attended these career			B		



guidance programs?					
5. Are students counseled for higher studies?	Yes	1	B		Not provided
6. Does the College have Academic links/collaborations/MoU, etc with other institutes of higher learning?	Yes		B		Can be improved
<b>Training and Placements</b>					
1. Does the college conduct any pre placement training for students' placements?	Yes Yes - 3 days		A		
2. Is effective placement policy framed and implemented?	Yes - 3 days		A		70 Companies with report
3. If yes, then specify the number of hours, areas in which training is imparted.	200 hrs				
4. Does the placement cell maintain the record of job opportunities available for students?	200 hrs		A		
5. Did the college organize any company/Industrial visits or guidance camp for students?	Yes Yes Det...		A		Can be more
6. If yes, number of such visits/camps organized					
7. Are the students provided computers and Internet to search for job, to download application forms or to register for placements drive of the companies etc?	Yes Yes		B		
8. Does the college subscribe to magazines like Employment News, Rojgar Samachar etc? If yes, give names of magazines.	Yes Yes		B		

	9. Does the college have a system of registering students at the Employment office of the GoI?	no		B		
	<b>NSS Activities/Student Clubs/Alumni Association</b>					
	1. Are clubs and NSS effectively functioning?	Yes		B		
	2. Do students conduct and participate in annual co-curricular and extra-curricular activities. If yes, please mention % of students participate in such activities:	40%		B		Scope for improvement in these.
	3. Does the college have a registered and functional Alumni Association? If yes, give number of students enrolled	Yes		A		
	4. Specify Activities of Alumni Association	Support to college		A		
	<b>Governance, Institutional Support and Financial Resources</b>					
	<b>A. Governance, Institutional Support</b>					
X	1. Are vision and mission statements of Institution available on college website, Principal's Chamber, Library, Conference rooms etc?	Yes		A		
	2. Are the vision and mission statements appropriately defined and relevant?	Yes		A		
	3. Is institutional strategic plan (5 years) available?	Yes Yes		A		
	4. Is there an implementation plan towards achieving the strategic objectives?	Yes Yes		A		



5. Is the strategic plan monitored effectively?	Yes Yes		B		
6. Is a Governing Body duly constituted and its meetings held regularly?	Yes Yes		A		
7. Are service rules, policies, procedures, functions and responsibilities published and uploaded on the website?	Yes Yes		A		
8. Are Minutes of Meetings of Governing Body and Academic council and Action taken reports available?	Yes Yes		A		
9. Are organizational structure and lists of administrative heads, and committees formed with powers to take administrative decisions, available?	Yes Yes		A		
10. Is there any Grievance redressal system in place and a cell constituted for this purpose?	Yes Yes		A		
11. Is evidence of action taken on student/staff grievances available?	Yes Yes		B		
12. Are financial powers delegated to Principal, HoDs, I/cs, documented?	Yes Yes		A		
13. Is Mandatory Disclosure as per AISHE & AICTE, placed on website?	Yes Yes		A		
14. What are institutional practices for integrating IT? (i) Administration (ii) Finance and Accounts (iii) Examination	Yes Software Data base		A		

**B. Budget allocation and utilization**

1. Does the college follow a prescribed procedure for budget formulation, finalization and approval?	Yes Yes		A		Budget for the Depts/College can be increased.
2. Is the budget allocation adequate at institutional, and program levels?	Yes Yes		B		
3. What percentage of allocated funds was utilized in the previous year by the Institution and programs?	100% 700%		A		

**C. Library and Internet**

**i. Quality of learning resources**

1. Are learning resources procured as per the requirements provided by the academic departments, ensuring relevance to programs?	Yes Yes		A		Stock verification can be done more frequently.
2. Are AICTE norms followed in respect of number of books & their copies procured?	17,409 Text Books 63,429 Titles. Yes		A		
3. Are these learning resources including E-Resources & digital library, easily accessible to students?	Yes		B		
4. Is adequate support given to students for self-learning activities?	Yes Yes		B		
5. Is the utilization of learning resources by students and faculty satisfactory?	Can be improved		B		Can be improved

**ii. Internet**

1. Is the available band Width adequate?	ACT, APPROV		A		
--	-------------	--	---	--	--

500 MBPS 500 MBPS  
1000 MBPS  
Yes



2. Is Wi-Fi available in the college?	Yes Yes		A		
3. Is there internet access in labs, library, conference rooms & offices of all departments?	Yes Yes		A		
4. Is adequate security mechanism put in place for protecting the internet transactions?	Firewalls SONAR @ Yes		A		
<b>iii. Infrastructural facilities and ambience</b>					
1. Is Campus ambience exemplary /Good / Satisfactory/ Unsatisfactory?	Good Good		A		Good
2. Is Office Space ambience exemplary/Good/ Satisfactory/Unsatisfactory?	Yes Good Good		A		Good
3. Are washrooms well maintained?	Yes Yes		A		
4. Is adequate parking facility available?	Yes Yes		A		
5. Are individual Staff rooms available with IT facility?	Cubicles available		A		
6. Are staff rooms well maintained?	OK		A		
7. Is Potable Water facility available?	Yes/No/Yes		A		
8. Is Power Backup facility available? If so, specify the capacity	Yes Yes		A		
9. Does the Institute have facilities for alternate sources of energy like: (i) Solar energy - 250KW (ii) Wheeling to the Grid (iii) Use of LED Bulbs	Yes Yes Yes		A		

All faculty can be given Desktop/Laptop

10. Does the Institute have Rain water harvesting pits?	Yes Yes		A		
11. Does the institute take any Green campus initiatives such as: (i) Restricted entry of automobiles (ii) Pedestrian friendly path ways (iii) Landscaping with trees and plants	Yes Yes Yes		A		
12. Does the Institute provide any facility for Disabled/Divyangjan persons easy access to classrooms and Labs?	Yes		A		Ramps, Ramps are available.
13. Does the institute organize National/International commemorative days, events and festivals?	Yes		B		
14. Do Seminar halls have adequate ICT facilities?	Yes		A		
15. Is transportation available for students and staff?	Yes		A		
16. Is the Canteen maintained as per Food Safety and Standards Act?	Yes		B		
17. Is Auditorium/Assembly Hall available with all ICT facilities?	Yes Yes.		A		

Please mention

Good Practices, if any

1. Academic and Administrative Audit being conducted regularly.
2. Good Ambience.
3. Class strength for each section around 45, so that teaching learning process is effective.



**Strengths, if any**

1. Right kind of Academic Ambiance
2. Support from Management.
- 3.

A-91-100  
 B-75-90  
 C-60-74  
 D < 50

**Weaknesses, if any**

1. Internships
2. Professors and bodies/activities
3. No. of Ph.Ds among staff
4. Research Projects, Paper publications, Consultancy.

us 10K for challenge & value

26 - Smart Board  
 56 - LCB Projects

ECE : 85%

CSE : B, C, C, A  
 1, 2, 3, 4

**Concerns, if any**

1. Slipping in NIRF ranking
2. —
3. —

**Deficiencies, if any**

1. No Consultancy; ~~Details are given in the Report~~ NIRF ranking, R.E.D. Consultancy.
2. NO industry support. TASK registration College should register
3. In Aced. Calendar, results declaration date must be mentioned & approval from Aced. body must be taken for delay.  
 for bright students, additional incentives, additional credit etc.  
 > Innovation in Teaching, Learning; Q. Paper standards to be improved.  
 > faculty publication is very less.  
 > POs of some subjects to be improved.



**Recommendations, if any**

1. Stock Verification in the Library is to be done more frequently.
2. Mentioned in the Report
3. URILL near Counter/Window
3. of EXAM branch must be provided.
4. Additional Service Window can be provided in the EXAM branch.

80%

**Brief report, if any**

Submitted Separately

- > deficiency in COs POs to be passed into next faculty/semester.
- > Students activity outside the College to be near
- > FDP faculty attending is good.

- where/where old one, SAC one is different
- Infrastructure is good.
- > Problem Solving approach is less
- > Endust and white less
- > Project based learning less
- > On Paper Quality needs improvement
- > Part 7. is less.
- > Publications are very less only 2. NO. FDPs
- > Less part 7.

**Suggestions for improving the academic quality:**

1. Please see the Report
- 2.
- 3.

CIVIL

Good: Teaching, Learning process, Good Website  
 Weak: R&D, Consultancy, no desktop to faculty  
 Less placements, NO Prof ratified  
 > NO Prof. Society at Students level; More publications

80%

NBA

> Enrollment is less > No Monitoring of Students??  
 > Endust - Short. interactive is less, NO ratified Prof  
 > NO supporting staff > NO guest lectures.  
 > NO Case based methodology, Infrastructure needs improvement  
 > one paper, plagiarism check.

80%

EEE

> Well defined POs > NO ICT methods. Tools are there.  
 > Bright - Students need some measures  
 85% > Good no. of prototypes. Good Project allocation  
 > Part 7. Weak - develops is less > Good Performed activity  
 > Publications are very less. zero consultancy

Signature of audit committee member:

Name of the audit committee member:

**Affiliation of the audit committee member:**

Dr. R. K. KISHORE  
former VC, JNTUA

12.01.2023

Geethanjali College of Engineering and Technology

(Autonomous)

Department of Civil Engineering

**Action Taken Report of the External Academic Audit conducted for AY 2021-22**

S.No	Observation Made by the Audit Team	Action Taken	Remarks
1.	<b><u>A: Concerns</u></b> No desktops given to each faculty	We will request management to facilitate some of systems, mean while faculty will use the huge number of desktops available in the computer labs, during free slots of laboratories.	
2.	Improvement of attendance for tutorials / compensatory classes.	We will motivate them by telling the consequences of missing such classes through classes teachers and mentors.	
1.	<b><u>B:Weaknesses</u></b> Number of students who participated in inter-institute events <i>outside the state</i>	This number is nil in the present year. Students are not shown interest to go out due to COVID problems, This time we will motivate them and make them to participate in more numbers.	
2.	Number of development activities undertaken by faculty : working models	This number is nil in the present year. We will motivate the faculty and bright students to develop such models once we get sponsorship or budget from	

		the institute.	
3	Is a project laboratory together with necessary facilities available in the department?	Since it involves with huge budget, we will initiate to get research funded projects, as the department got NBA accredited recently. We will establish laboratory with the research funding as well as from the institute funding.	
1.	<p><b><u>C: Recommendations</u></b></p> <p>No sponsored projects / Consultancy projects</p>	Senior faculties who are having research exposure will be requested to focus more on this area to get funded projects.	

HOD-CED

# Geethanjali College of Engineering and Technology (Autonomous)

(Approved by AICTE, Permanently Affiliated to JNTUH, Accredited by NBA & NAAC with 'A+' Grade)  
Cheeryal (V), Keesara (M), Medchal Dist., Telangana - 501 301

## Department of Electrical and Electronics Engineering

**Note:** Submitted to Principal

**Date:** 10<sup>th</sup> Jan 2023

**Sub:** External Academic and Administrative Audit Committee Report-Action Taken on the observations made- AY 2021-22 Reg.

External Academic and Administrative audit for the year 2021-22 has been carried out in EEE department by members of external audit committee and the report is received by the undersigned. A few suggestions have been indicated in the report based on the observations that were made during the inspection. Corrective actions have been initiated in the department as per the suggestions in the report. The Action Taken Report (ATR) is presented in the following table:

S. No.	Criteria No. and Name	Remarks/comments made by the committee	Action taken on the remarks
1	3; Research, Innovations and extension	<ul style="list-style-type: none"><li>• Publications must be improved in quality journals.</li><li>• Industry institute interaction must be initiated and improved.</li><li>• MoU's must be improved</li><li>• R &amp; D activities must be improved with good R &amp; D policy.</li><li>• Develop R&amp;D lab in the department.</li><li>• Consultancy must be initiated.</li></ul>	<p>Faculty were motivated to publish papers in SCI and Scopus indexed journals. Group heads were advised to conduct weekly review discussions on progress of research work of their respective mentees and explore options for publications.</p> <ul style="list-style-type: none"><li>• Guest lectures, Industrial visits and internships were organized as a part of industry institute interaction in which resource persons from industry were involved indicating active industry institute interaction. Networking with industry has been improved through professional bodies and Institution's Innovation Council (IIC) cell of the institute. Necessary measures would further be taken for some more improvement.</li><li>• MoUs with industries and academia are being explored to apply for collaborative research projects and consultancy.</li><li>• More awareness of the existing R &amp; D policy of the institute will be imparted to the faculty of the department.</li><li>• A consultancy project in association with Bio Electrical Energy Systems (BEES) is under progress.</li><li>• Faculty are motivated to apply sponsored research projects.</li></ul>
3	4; Infrastructure and Learning Resources.	<ul style="list-style-type: none"><li>• Project lab must be provided</li></ul>	<ul style="list-style-type: none"><li>• The department has identified space (G14 Block - 1) as 'projects lab'</li></ul>
4	1, Curricular Aspects	<ul style="list-style-type: none"><li>• PSOs must be specifically designed.</li><li>• Articulation matrix (CAM and PAM) must be improved in</li></ul>	<ul style="list-style-type: none"><li>• The existing PSO's were framed in the academic year 2020. As per the suggestion from NBA and NAAC peer teams the next modification of PSO's will take place after graduation of 2 batches (i.e., in the year</li></ul>

		correlation with rubrics.	2025). <ul style="list-style-type: none"> <li>• Course articulation and Program articulation matrices will be modified according to AICTE indicators specified in examination reforms manual and in correlation with the rubrics designed.</li> </ul>
5	2; Teaching – Learning	<ul style="list-style-type: none"> <li>• Bloom’s taxonomy levels must be followed.</li> <li>• Quality of question papers must be improved</li> </ul>	<ul style="list-style-type: none"> <li>• Usage of Bloom’s taxonomy levels is already in practice in the preparation of question papers, course outcomes, etc.</li> <li>• Quality of mid-term question papers will be reviewed by the department evaluation committee before forwarding it to examination branch. Necessary action will be taken for further improvement.</li> </ul>
	5, Student Support and Progression	Bright students must be encouraged.	<ul style="list-style-type: none"> <li>• Bright students were encouraged to participate in activities conducted through IIC, Professional bodies, Hackathons, CACG, etc.</li> <li>• Students are also motivated to register for MOOCs / NPTEL courses.</li> <li>• They are also motivated to do in-house projects and to publish papers.</li> </ul>

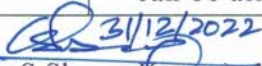
Aruna Bharathi  
In-charge IQACE

Dr. Radhika Dora  
Head EEE



## ME-Action taken Report- External Audit 2021-22

S No	Refer ence	Action Point	Action Taken
1.	<b>Weakness</b>	1. Results of passing out students is less	Pass percentage based on the number of students enrolled is 87%. Number of dropouts I yr thru IV year have become reasons for impaired pass percentage. The pass percentage based on number of students registered in IV B Tech is 98.3%. Though the external challenges persist, some of the dropouts can be arrested by proper mentoring. Department will focus upon this with proper measures through mentoring.
2.		2. Very less research and paper publications	With incentives on paper publications and active researchers effective contribution, research publications are devised for an improvement
3.		3. Less Industry-Institute interaction	Department has taken measures to improve Industry Institute interactions by active collaboration with CIPET and participation through IIC.
4.	<b>Concerns</b>	1. Less number of students joining the course	This has become a big challenge to core branches of engineering. A total revamp in ME courses shall attract the intake number. However, the attempt will be initiated upon receiving new education policy nod from JNTUH.
5.		2. Project based learning to be improved	Four faculty members have been sent for PBL training in addition to the earlier trained and retained four faculty members. Department of ME has identified the courses and hence PBL in ensuing semester courses will be improved.
6.		3. Average package offered to students is less	Mentors are suggested to record all good/in force practices in this regard, and the same could be maintained beyond mentor book.
7.		4. Ratification of faculty at all levels to be done by University	It is proposed this time to improvise the ratification of senior faculty at the level of Professor/ Associate Professor.
8.	<b>Deficiencies</b>	1. No R&D and consultancy work	It is proposed in group heads meeting, hereafter, to submit research proposals not less than two per group per year.
9.		2. Less number of Continuous training programs/ workshops/ Conferences are done by department	Prepared to improve the status of workshops and trainings with the collaboration of Osmania University and CIPET.
10.		3. No PG program	Admission into PG course has been experiencing a recession. PG program will be added upon a demand for the course is arrived.
11.		4. Open electives can be improved	Addition of open electives will be exercised in forthcoming syllabus revision.
12.		5. No Incubation centre for startups	Department of ME has been contributing towards startups/incubation, to this effect, IIC at GCET organization level has become active window for ME
13.		6. Credit transfer for Swayam-MOOCs courses can be allowed	This aspect will be proposed in next syllabus revision.

  
 (Dr S Shyam Kumar)  
 Head, Mechanical Engg.,

# **GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**

(UGC Autonomous)

(AICTE Approved, Permanently Affiliated to JNTUH, Accredited by NBA and Accredited by NAAC with 'A+' Grade)

Cheeryal (V), Keesara (M), Medchal. Dist. 501301.

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## **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

Date: 10-01-2023

### **Note Submitted to Principal:**

Sub: - External Academic Audit Committee Report of AY 2021-22 - Action Taken on the observations made -- Reg.

External Academic Audit for the year 2021-22 was carried out in the ECE department on 17<sup>th</sup> December, 2022 by members of the committee and the report is received by the undersigned. A few suggestions have been indicated in the report based on the observations they have made during the inspection. The corrective actions have been initiated in the department as per the suggestions made by the committee.

### **The Action Taken Report (ATR) is presented in the following table:**

<b>Criterionno.andName</b>	<b>Remarks/Commentsmade by thecommittee members</b>	<b>ActionTaken onthe Remark/Commentsin Column-2</b>
<b>I. Vision and Missionstatements:</b> 2. Are department Vision and Mission statements consistent with institute statements	Request for feedback from all stakeholders. <b>Poor involvement of stakeholders</b>	The department's Vision and Mission are defined in-line with the institution's Vision and Mission. As and when the institute's vision and mission are modified, accordingly the department's vision and mission will be modified. Involvement of stakeholders will be made better when the revision takes place.
<b>II. B. Teaching-LearningProcess:</b> 3:Does a process exist to identify bright and weak students?	<b>Identification of Poor &amp; Weak students is to be improved.</b>	Well defined process is being adopted by the department for identification of slow learners and advanced learners.
<b>II. B. Teaching-LearningProcess:</b> 10: Is a well-defined process followed in the design and validation of question papers as well as for the scheme of evaluation of mid-term and semester-end examinations?	No, Needs improvement in question paper setting and assignment with Bloom's Taxonomy levels levels.	As of now, all the internal question papers are being scrutinized well by the respective Group Heads, for maintaining better quality of internal question papers. The Internal Question Paper Evaluation Committee (IQEC) then monitors whether the relevant COs and Blooms Taxonomy levels are followed or not. The IQEC committee consists of one IQAC Expert member from other department, HoD, one senior Professor/Associate Professor along withcourse coordinator. However, further care will be taken for betterment of the quality of the internal question papers. Regarding Semester End Examination question papers, the papers are set by faculty members of other colleges, and the paper setters are selectedfrom the panel of examiners approved by the members of Board of Studies of the department. Generally, this

		panel of examiners consists of Doctorates or senior faculty members having more than 10 year of teaching experience and taught the same subject for more than 5 times. More over as per the guide lines of JNTUH, no scope is given to modify any of the questions during the moderation process.
<b>II. B. Teaching-Learning Process:</b> 12. Do the assignments given to students to facilitate attainments of COs as well as higher levels of Bloom's Taxonomy.	No	As per the suggestion given, assignment questions will now be given for the attainment of higher Bloom's Taxonomy levels, and indicating them with relevant COs and Bloom's Taxonomy levels.
<b>II. B. Teaching-Learning Process:</b> 17. Particulars of industry supported laboratories established, if any. Is impact analysis of industry interaction made and if, so, is action taken based on the result of the analysis?	No	The department has a Center of Excellence in VLSI Design, supported by CADENCE. The department is in the process of establishing an Industry supported lab in the field of Embedded Systems and IoT.
<b>II. B. Teaching-Learning Process:</b> 22. Average percentage of student complaints and grievances about evaluation against total number of students appeared in the examination during last academic year.	RCRV, Challenged evaluation.	RCRV is already in place. Challenged evaluation is implemented recently after taking due approval from the academic council.
<b>IV Student's Performance:</b> 8 Number of Professional societies/chapters in the department.	ISTE – Less IETE - Project expo.	In general ISTE activities are organized at the institute level, while the IETE activities are conducted exclusively by the department. Department will try to enhance the existence of these professional bodies by organizing more number of activities under them.
<b>IV Student's Performance:</b> 10. Does the department publish technical magazines and newsletters?	In technical Magazines, the year is not mentioned	Department publishes technical magazines and newsletters periodically. Appropriate care will be taken from now on, in furnishing the relevant details as per the suggestion.
<b>VII Continuous Improvement:</b> 9 a. Highest rank (in the qualifying examination) of student admitted in the current academic year. 9 b. Highest rank (in the qualifying examination) of student admitted in the previous academic year. c. Is there any improvement?	Too much difference	As there is a huge inclination towards Computer science oriented branches in last two years, students with good rank prefer to join these branches. Similar kind of situation is prevalent in all other colleges also including university colleges.

Criterion no.andName	Remarks/Commentsmade by thecommitteemembers	ActionTaken onthe Remark/Commentsin Column-2
Strengths	<ol style="list-style-type: none"> <li>1. Well-maintained labs</li> <li>2. Good IEEE participation</li> <li>3. Good CO-PO attainment</li> <li>4. Good placements (needs improvement in package)</li> <li>5. Good Mentor-Mentee procedure for faculty. But not for students.</li> </ol>	
Weakness	<ol style="list-style-type: none"> <li>1. ISTE membership is less</li> <li>2. IETE Events organization is poor.</li> <li>3. Internship files can be maintained in a better way with offer letters/ impact analysis</li> <li>4. FDPs organizing/attending should be for 1/2/3/4 week at least.</li> <li>5. E-journals.</li> </ol>	<ol style="list-style-type: none"> <li>1. More efforts will be made to increase ISTE memberships.</li> <li>2. Department is planning to organize more events under IETE students Forum.</li> <li>3. Internship files are maintained in an organized manner and the impact analysis is also made. For internships, offer letters are not being given by the organizations and only the completion certificates are given.</li> <li>4. It is already there in practice that, faculty are encouraged to attend FDPs with 2/3 week duration.</li> <li>5. E-journals are available and accessible for both faculty and students.</li> </ol>
Concerns	<ol style="list-style-type: none"> <li>1. Challenge revaluation can be included</li> <li>2. QP/Assignments setting can be better.</li> <li>3. Contribution of stakeholders</li> <li>4. Performance Appraisal evaluation can be improved.</li> <li>5. Well-defined measures for the improvisation of concerns.</li> <li>6. Poor pass percentage in a single attempt.</li> </ol>	<ol style="list-style-type: none"> <li>1. With effect from academic year 2022-23 the process of challenged revaluation is introduced.</li> <li>2. As per the suggestion given, assignment questions will now be given for the attainment of higher Bloom's Taxonomy levels, and indicating them with relevant COs and Bloom's Taxonomy levels.</li> <li>3. Contribution of the stake holders will be made better when the vision and mission of the department are reviewed and revised subsequently.</li> <li>4. Performance Appraisal form has been reviewed and revised after a number of deliberations made in the college academic committee.</li> <li>5. Department is taking every effort to improve the pass percentage of students by resorting to various student-centric teaching methods and through focused mentoring. Efforts will continue to improve the pass percentage.</li> </ol>
Deficiencies	<ol style="list-style-type: none"> <li>1. No industry support labs</li> <li>2. Poor Consultancy projects (Sponsored)</li> <li>3. Entrepreneurs – Nil</li> </ol>	<ol style="list-style-type: none"> <li>1. The department has a Center of Excellence in VLSI Design, supported by CADENCE. The department is in the process of establishing an Industry</li> </ol>

	4. Poor R& D.	<p>supported lab in the field of Embedded Systems and IoT.</p> <p>2. Department has done consultancy to the tune of Rs. 4 lakh during 2021-22. Efforts are on to improve the consultancy</p> <p>3. Ideas proposed by two students of our department are at the incubation stage as of now and every assistance will be provided to them to realize their ideas into development of products.</p> <p>4. Faculty members have published 40 journal papers and presented 11 conference papers during 2021-22. There is a lot of improvement in publication of research papers and conference papers during 2021-22. The research project "Development of novel carbon nanotube/polymer nano composite materials for EMI applications" funded by DRDO is in its final stage of completion.</p>
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Dr. M A Khadar Baba  
HoD ECE.

Copy to: 1. Overall IQAC- Coordinator, GCET  
2. Dean (Academics)  
3. Dean (Administration)



**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY  
(UGC AUTONOMOUS)  
Cheeryal (V), Keesara (M), Medchal Dist – 501 301, Telangana**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**Action Taken Report for External Academic and Administrative Audit Committee observations for the A.Y.2021-22**

External Academic and Administrative Audit for the A.Y:2021-22 was conducted with an external member Dr. V.Aruna Varanasi, Professor, Srinidhi Institute of Technology and Science and the report submitted to the institute.

The report indicates the strengths, weaknesses, concerns and recommendations. The report as given by external committee members was discussed with senior professors of the department and the corrective actions were taken up.

<b>Remarks category</b>	<b>Remarks made by the committee</b>	<b>Action Taken</b>
<b>Weaknesses</b>	Industry Supported Laboratories are not there	Laboratories are there in association with IBM, Redpines and C-DAC, but department does not have any sponsored labs. Senior faculty of the department are instructed to identify industries with scope of sponsorship in relation with the competency of the department.
	Innovative assignments and Teaching Learning process are missing	All course coordinators are instructed to take utmost care while designing assignments. A few faculty have initiated innovative teaching learning methods but proper documentation is not maintained. All faculty were instructed to implement and document innovative teaching learning process planned.
	Percentage of Students successful are very poor	The pass percentage of students in last two years is low and efforts are in place to make students understand the importance of regular study. All mentors are counseling students on the same.
	Faculty completed	The number of faculty pursuing Ph.D. in CSE department is

	Ph.D in the year is only one(1)	11 in the A.Y:2021-22 out of which one faculty completed Ph.D. Faculty are continuously motivated to pursue Ph.D in premiere institutions. Faculty pursuing Ph.D are given a weekly day off to enable them to dedicate more time for research. Specialization groups are also into practice in the department where a senior faculty acts as a mentor to group of junior faculty for TLP and research activities.
Concerns	Faculty involvement criteria wise is good, but analysis and action to be taken is missing.	Action taken was missing only in one criteria, Internship file. Feedback for internship completed students is taken but no specific action was indicated. Department will plan for the action based on internships feedback from A.Y:2022-23
	Stake holders involvement in curriculum design is not available.	Stake holders input is regularly taken in CSE department and is seriously considered for curriculum design. External audit member was suggesting inviting various external stake holders for a meeting and discussing on curriculum for inputs instead of taking inputs at different times during their visit to college. CSE department has proposed for such a meeting in 2023 to take inputs on AR20 regulation.
	Prototypes and working models to be demonstrated in the form of video	The videos of last two academic years 2020-21, 2021-22 are present in the department. The videos were not presented to the audit member as they were made ready in lab6 which was not visited during the audit.
Deficiency	No sponsored project and consultancy activity	All senior faculty in the department were informed to identify sponsoring agencies and apply for such projects. Dr.Kamakshiah was informed to give a presentation on the opportunities available for research grants. Department had two contributions in this angle 1. One project titled “Rampally Dayara- Property Tax Management System” under Unnat Bharat

		<p>Abhiyan(UBA) in association with NSS unit of GCET.</p> <p>2. One project titled “Automation of oil distillation for farmers” is under development for the company “Protech Engineering” and it is in the stage of development of PoC.</p>
	<p>Number of Research publications in number is less (gains) the faculty member’s strength.</p>	<p>Specialization groups are also made into practice in the department where a senior faculty acts as a mentor to group of junior faculty for TLP and research related activities.</p> <p>Group heads are informed to guide their mentee faculty to publish papers as most of the faculty in CSE department are junior faculty. Incentives are proposed to faculty for publishing papers/patents.</p>
Recommendations	<p>Encourage students to participate in inter college event and also outside state.</p>	<p>The participations of students in inter college events outside state is slightly improved compared to last year. Students are motivated to participate in co-curricular and extra-curricular activities by the mentors. Financial assistance is also provided to students for the same.</p>
	<p>Faculty should be encouraged by giving research incentives</p>	<p>Research incentives are provided to faculty and students for publishing research papers and patents. Faculty pursuing Ph.D. are also encouraged by giving a weekly day off to complete their Ph.D.</p>
	<p>Students start ups to be encouraged through incubation centre</p>	<p>Department will plan in association with institute level incubation cell. Department level coordinators are informed to prepare a plan of action in this regard.</p>



# Geethanjali College of Engineering and Technology

(UGC AUTONOMOUS INSTITUTION)

(Accredited by NBA and NAAC with 'A+' grade, Approved by AICTE New Delhi and Affiliated to JNTUH)  
Cheeryal (V), Keesara (M), Medchal (Dist), Telangana – 501 301.

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## Action Taken Report of External Academic & Administrative Audit Committee, 2021-22, GCET

### Department of Information Technology

20<sup>th</sup> January, 2023

Note Submitted to Principal

Sub: - External Academic Audit Committee Report of AY 2021-22 - Action Taken on the observations made – - Reg.

External Academic Audit for the year 2021-22 was carried out in the IT department on 17th December, 2022 by members of the committee and the report is received by the undersigned. A few suggestions have been indicated in the report based on the observations they have made during the inspection. The corrective actions have been initiated in the department as per the suggestions made by the committee. The Action Taken Report (ATR) is presented in the following table:

<b>Criterion no. and Name</b>	<b>Remarks/Comments made by the committee members</b>	<b>Action Taken on the Remarks/Comments in Column-2</b>
<b>Criteria II</b> B.2. Is evidence of pedagogical initiatives taken, such as collaborative learning, ICT supported teaching etc available?	No LCD Projector in class room	Communicated the deficiency to the management. The class rooms are equipped with LCDs.
<b>Criteria II</b> B.8. Do the experiments in laboratory support higher level of Bloom's Taxonomy?	Up to BTL4	As per the suggestions by the committee members will try to include in the next regulations.

<b>Criteria III</b>  5.Is a well-defined process followed for determining attainment of POs and PSOs?	Process yet to be verified	As the department is started in A.Y.2019-2020 now Students are in Final year.
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<b>Overall Comments</b>	<b>Remarks/Comments made by the committee members</b>	<b>Action Taken on the Remarks/Comments in Column-2</b>
Deficiencies, if any.	<ol style="list-style-type: none"> <li>1. Projects lab is not available</li> <li>2. Class rooms are not equipped with LCD Projector</li> </ol>	<p>Currently, the department is running in its final year. The students are utilizing the CSE department infrastructure for carrying out project-related activities. In the next year a separate Project lab will be established.</p> <p>Communicated the deficiency to the management. The class rooms are equipped with LCDs.</p>
Weaknesses, if any.	<ol style="list-style-type: none"> <li>1. Number of publications are less.</li> <li>2. No R and D Projects available</li> </ol>	The department is planning to apply for R and D Projects in next academic year. More efforts will be made to increase the number of publications.
Concerns, if any.	<ol style="list-style-type: none"> <li>1. Research need to be strengthened</li> <li>2. Department seminar hall is not available</li> </ol>	<p>Faculty members are publishing a good number of research papers and the number would increase further. Faculty members are encouraged to pursue Ph.D by providing special incentives to them. Currently, Seven faculty members are pursuing Part -Time Ph.D.</p> <p>Communicated the deficiency to the management. Department seminar hall have been planned in the Department Budget, for the AY 2022-23.</p>
Recommendations	<ol style="list-style-type: none"> <li>1. Department Library can be provided.</li> <li>2. Faculty need to be provided with Laptop/Desktop systems.</li> </ol>	<p>Currently Department library is shared with CSE, but we are having library books separately. The deficiency is communicated to the Management and will establish in next academic year.</p> <p>Currently, the faculty are being provided</p>



	<b>3.</b> The department can start newsletters and Technical magazines	desktop computers in shared mode. Individual desktop computers will be provided to the faculty in the next academic year. Department will plan to start publishing its own newsletter and magazine in the next academic year.
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**HoD-IT**

(Dr.K.Srinivas)

Copy to: 1. Overall IQAC- Coordinator, GCET  
2. Dean (Academics)  
3. Dean (Administration)

**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY  
(UGC AUTONOMOUS)**

**Cheeryal (V), Keesara (M), Medchal Dist – 501 301, Telangana  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**Action Taken Report for External Academic and Administrative Audit Committee observations for the A.Y.2021-22**

External Academic and Administrative Audit for the A.Y:2021-22 was conducted with the external member Dr. K. Venkateswara Rao, Professor, Department of CSE, CVR College of Engineering, Ibrahimpatnam. The report was submitted to the institute.

The report indicates the strengths, weaknesses, concerns, and recommendations. The report as given by the external committee was discussed with the senior faculty of the department and corrective actions were taken.

<b>Remarks category</b>	<b>Remarks made by the committee</b>	<b>Action Taken</b>
Weaknesses	The number of publications (quality) is less.	B.Tech program in CSE (AIML) was started in the academic year 2020-21 with an intake of 60 students. A separate department in CSE (AIML) was established in the academic year 2021-22 with three (03) faculty members. In subsequent years when additional faculty members are recruited to cater to the needs of the students, more efforts will be made to increase the number of publications.
	No R&D Projects available	The department is planning to apply for more number of R&D Projects from next academic year onwards as only three (03) faculty members were available during the academic year 2021-22.
Concerns	Research needs to be strengthened.	Faculty members are publishing a good number of research papers and the number would increase further when additional faculty join the department in subsequent years. Faculty members are encouraged to pursue Ph.D by way of providing special incentives to them. Currently, three faculty members are pursuing Part -Time Ph.D.

	A Centre of Excellence can be created.	As only II year students were there during the academic year 2021-22 as the program CSE(AIML) was started during 2020-21, Centre of Excellence was not thought off. The department is planning to establish a Center of Excellence in AIML during the year 2023-24 when all the students (II, III and IV Year) would be available. Students would be given special training in AIML area through the proposed Center of Excellence.
	Department Seminar hall is not available	Seminar halls are not constructed department wise in the college. The available 4 numbers of seminar halls, which are controlled centrally, are catering to the needs of various departments as per the exigencies.
Deficiency	The project lab is not available	Currently, the department is running in its third year. Currently, the students are utilizing the CSE department infrastructure for carrying out project-related activities. In the next year, when students come to final year and will be doing Mini projects and Major projects, a separate Project lab will be established.
	Classrooms are not equipped with LCD Projectors.	Communicated the deficiency to the management. The purchase of LCDs for classrooms has been planned in the Department Budget Committee, for the AY 2022-23.
Recommendations	Department Library can be provided.	Communicated the deficiency to the Principal/ Management. The establishment of the Department Library and the purchase of books have been planned in the Department Budget, for the AY 2022-23.
	Faculty need to be provided with Laptop/Desktop systems.	Currently, the faculty is being provided desktop computers in shared mode. Individual desktop computers will be provided to the faculty in the AY 2022-23.
	The department can start newsletters and Technical magazines	When a separate department of CSE (AIML) was established in the academic year 2021-22, only students at II year were available during the academic year 2021-22, and a separate newsletter and technical magazines were not thought off. However, in the AY 2022 -23, the AI&ML Department will start publishing its won newsletter and magazine.

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**DEPARTMENT OF CSE- (CS,DS,IOT)**

**Action Taken Report for External Academic and Administrative Audit Committee observations for the A.Y.2021-22**

External Academic and Administrative Audit for the A.Y:2021-22 was conducted with an external member Dr. K.Venkateswara Rao, Professor in CSE, from CVR College of Engineering and the report submitted to the institute.

The report indicates the strengths, weaknesses and recommendations. The report as given by external committee members was discussed with senior professors of the department and the corrective actions were taken up.

<b>Remarks category</b>	<b>Remarks made by the committee</b>	<b>Action Taken</b>
Weakness	Number of Research publications of the faculty is less and Faculty completed Ph.D are very less	<ul style="list-style-type: none"> <li>● Planned to conduct a workshop to faculty on how to publish a research paper in every academic year like series of FDPs .</li> <li>● To motivate faculty, incentives are given to faculty for publishing papers/patents.</li> <li>● Group heads are informed to guide their mentee faculty to publish papers as most of the faculty in EA department are junior faculty.</li> <li>● Faculty are continuously motivated to pursue Ph.D in premiere institutions. Faculty pursuing Ph.D are given a weekly day off to enable them to dedicate more time for research. Specialization groups are also into practice in the department where a senior faculty acts as a mentor to group of junior faculty for TLP and research activities</li> </ul>
	No R&D projects are available	<ul style="list-style-type: none"> <li>● Motivating faculty to submit proposals by felicitating them with R and D experts from Industry.</li> </ul>
Concerns	Research need to be strengthened	<ul style="list-style-type: none"> <li>● Professors are requested to apply project proposals for SERB and Under Women empowerment scheme</li> </ul>

	Department Seminar Hall is not available	<ul style="list-style-type: none"> <li>● Planned to submit a proposal for establishment of</li> <li>● Department Seminar Hall.</li> </ul>
Recommendations	Technical Magazine and News Letter	<ul style="list-style-type: none"> <li>● Technical Magazine and Newsletter has been started and coordinator is Mr. Shraban Kumar.</li> </ul>
	Improve interaction of faculty with Industry through MOU's	<ul style="list-style-type: none"> <li>● Planning to have MOU on cyber security domain with industry people to fill the gap between Industry and Academics.</li> </ul>
	Dept library can be provided	<ul style="list-style-type: none"> <li>● Planned to submit a proposal for establishment of</li> <li>● Dept Library.</li> </ul>
	Provide Laptop to every faculty member.	<ul style="list-style-type: none"> <li>● Planning to submit proposal for Management regarding faculty Laptops.</li> </ul>
	Improve PBL	<ul style="list-style-type: none"> <li>● PBLs subject wise: For AY:2021-2022 DS-6 OOP-5 WT-10</li> <li>● PBLs planned subject wise for AY:2022-2023 CN-15 OOP-10 WT-12 DS-10</li> </ul> <p>Department in association with incubation centre has planned for the improvement of PBL and Design Thinking projects with new innovative ideas.</p>
Deficiencies	Project lab is not available	<ul style="list-style-type: none"> <li>● Planned to submit a proposal for establishment of Project Lab</li> </ul>
	Class rooms are not equipped with LCD projects.	<ul style="list-style-type: none"> <li>● LCD projectors are already fixed in class rooms.</li> </ul>



**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**DEPARTMENT OF MANAGEMENT STUDIES**  
**ACTION TAKEN REPORT**  
**ACADEMIC AND ADMINISTRATIVE AUDIT REPORT (2021-2022)**

<b>S.NO</b>	<b>Criterion</b>	<b>Remark by the member</b>	<b>ATR on Remark</b>
1	II/16	Working prototypes and publication reports	Prototype system project works are very less in MBA and efforts would be taken in this direction
2	II/17	Industrial support labs and industry and Institute interaction	Can try for industrial oriented projects and labs.
3	II/19	Student feedback based on internships	Feedback on SIP can be taken from this year onwards.
4	II/20	Impact Analysis of internship and result Analysis	Whenever outside internships are undertaken , the results will be analyzed
5	II B/3	Does a process exist to identify weak & bright students	Bright students are identified based on their calss room performance, question- answers in class, mid term performance , interactive in industry based projects, leadership tracts exhibited in co- curricular activities, powerpoint presentation, seminars and group discussions. All students participate in one or the other activity; academic performance alone can not be taken as a criteria for identifying them as bright students. The small % of weak students are given assistance and help from peer group. Mentoring system would help in a better way.
6	IV/7	Turned as entrepreneur in MBA	Efforts are being made in this direction by empowering EDC cell in the Department/ college. Most students prefer to work in reputed organisations; However corporate entrepreneurship and its importance is taught through experiential learning
7	VI/1	Technical supporting staff in lab	Communicated to the concerned authorities for recruitment
8	VI/4	project Lab	Whenever, industry oriented projects are undertaken, projects labs will be established
9	IX/1,2 & 3	Mentoring system	Would be implemented from 2022-23, I year I sem (2022-2024 Batch)



