

Peer Review Evaluation Scheme

Department of Biotechnology

Qualitative Evaluation

Item No.	Item Description	Assessment by the evaluators (circle the one which is most appropriate)	Remarks
A1	Infrastructure	Good / Satisfactory / Not satisfactory	
A2	Finance	Good / Satisfactory / Not satisfactory	
A3	Curriculum and Courses offered	Good / Satisfactory / Not satisfactory	
A4	Research Activities	Good / Satisfactory / Not satisfactory	
A5	Motivational environments for academic works	Good / Satisfactory / Not satisfactory	
A6	Faculty Development Programme	Good / Satisfactory / Not satisfactory	
A7	Academic Collaboration (National / International)	Good / Satisfactory / Not satisfactory	
A8	Personality Development Programme for students	Good / Satisfactory / Not satisfactory	
A9	External stakeholder engagement	Good / Satisfactory / Not satisfactory	
A10	Participation in Institute's Administration and other Activities	Good / Satisfactory / Not satisfactory	



(Evaluator-1)

(Prof. M. Lakshmi Narasu)



(Evaluator-2)

(Dr. Durg V. Singh)



(Evaluator-3)

(Dr. Arnab Kapat)

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Quantitative Evaluation

Marks (out of 100) obtained against each major item (1-9) above is A_i , Weightage of each major item is W_i

Total marks out of 100 is $\sum_1^{10} W_i A_i$

($W_1 = 0.15, W_2 = 0.15, W_3 = 0.15, W_4 = 0.15, W_5 = 0.10, W_6 = 0.10, W_7 = 0.05, W_8 = 0.05, W_9 = 0.05, W_{10} = 0.05$)

Evaluation Matrix

$W_i A_i$		Total	a	b	c	d	e	f	g	h	i	J	k	l
14.1	A1	100	24	23	24	23	-	-	-	-	-	-	-	-
12.75	A2	100	85	-	-	-	-	-	-	-	-	-	-	-
13.05	A3	100	35	12	12	28	-	-	-	-	-	-	-	-
13.35	A4	100	20	10	13	5	9	5	8	9	10	-	-	-
9.15	A5	100	10	5	5	9.5	10	6	5	4	18	4	10	5
9	A6	100	7	15	10	15	15	15	13	-	-	-	-	-
4.25	A7	100	12	15	20	20	18	-	-	-	-	-	-	-
4.3	A8	100	23	25	38	-	-	-	-	-	-	-	-	-
4	A9	100	20	25	15	20	-	-	-	-	-	-	-	-
4.5	A10	100	55	35										
88.45														

SUMMARY of ASSESSMENT

Overall Qualitative Evaluation: Good

Overall Quantitative Evaluation: 88.45 %

Additional Comments (on the strengths and weaknesses of the program): See enclosed report

Overall Recommendation: *Good*

(Evaluator-1)

(Prof. M. Lakshmi Narasu)

(Evaluator-2)

(Dr. Durg V. Singh)

(Evaluator-3)

(Dr. Arnab Kapat)

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Comments:

- Very high degree of enthusiasm which is reflected in the quality of research.
- There is serious space crunch in the department.
- Curriculum may include the following:
 - Quality management (in biotechnology industries)
 - Design of experiment, quality by design, total quality management
 - Regulatory affairs (for medical biotechnology)
 - Guidelines - WHO, USFDA, EMA, ICH
 - Manufacturing (for biologics)
 - Current good manufacturing practices -21CFR part 210 & 211
 - Automation (for biologics)
 - Current good automated manufacturing practices – 21CFR part-11
 - distributed control system
 - Process Analytical Technologies
 - Soft skill
 - Ethics, etiquette, self-discipline, time management, resource management, working in team, professionalism.



(Prof. M. Lakshmi Narasu)



(Dr. Durg V. Singh)



(Dr. Arnab Kapat)