

NAAC

Revised Format of Self-Study Report

(As per the NAAC Manual for Universities effective from July, 2017)

Quantitative Metrics for Department

CRITERION I - CURRICULAR ASPECTS

Key Indicator - 1.1 Curriculum Design and Development

Metric No. (as per NAAC Manual)	Description (as per NAAC Manual, July 2017, for Reference purposes)	Data Requirement from Department (For Academic years 2012-13 to 2016-17)	Academic Years 2012-13 to 2016-17				
			2012-13	2013-14	2014-15	2015-16	2016-17
1.1.2	Percentage of programmes where syllabus revision has taken place in last 5 years. Revised programme /Total Programme * 100	No. of courses/ programmes revised in last 5 years	0	33%	33%	33%	33%
		Course Code	0				
		Course Title/ Programme Title	0	B.Sc. (H) Microbiology	B.Sc. (H) Microbiology	B.Sc. (H) Microbiology	PhD Microbiology
		Total number of courses/programmes offered in Department	2	2	2	2	2
1.1.3	Courses having focus on employability/ entrepreneurship/ skill development. Name of the course/ programme with major activities		2012-13	2013-14	2014-15	2015-16	2016-17
		Name of the course/programme	0	0	0	0	0
		Supporting Document required:					
		In case any such course is introduced in Dept. / Centre, please provide : i) Programme/curricula/syllabus ii) Minutes of the Committee of Courses iii) Faculty minutes iv) AC approval					

Key Indicator - 1.2 Academic Flexibility

1.2.1	New courses introduced during last five years	Number of new courses	0				
		Total number of courses offered	2				

Supporting Document required:

Name of new courses

Name of programmes

Key Indicator- 1.3 Curriculum Enrichment

1.3.2	Number of value added courses imparting transferrable life skills in last 5 years	No. of courses in last 5 years with 30 or more contact hours	0				
		Course Code and Title	NA				
		No. of times offered during the same year	2012-13	2013-14	2014-15	2015-16	2016-17
			0	0	0	0	0
		Total no. of students Completing the course in the year	0	0	0	0	0
1.3.4	Number of students undertaking field projects/internships	No. of students undertaking field programmes/ internship	2012-13	2013-14	2014-15	2015-16	2016-17
			0	0	0	2	0
		Names of the programme Summer training program at CCMB , Hyderabad Summer training at CDFD, Hyderabad					

Key Indicator 1.4 Feedback system

1.4.1	Structured feedback from 1) student, 2) Teachers, 3) Employers, 4) Alumni, 5) Parents A. any 4 of the above B. any 3 of the above C. any 2 of the above D. any 1 of the above E. None of the above	<p>Choose any one of the given options and respond accordingly with result. In case of choosing any option between A and D, give supporting documentary evidence i.e. filled feedback form from any of the stake holders as an Example</p> <p style="text-align: center; color: blue;">D (Student feedback)</p>
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Criterion II - Teaching - Learning and Evaluation

Key Indicator - 2.1 Student Enrolment and Profile

Metric No. (as per NAAC Manual)	Description (as per NAAC Manual, July 2017, for Reference purposes)	Data Requirement from Department (For Academic years 2012-13 to 2016-17)	2012-13	2013-14	2014-15	2015-16	2016-17
2.1.1	Average percentage of students from other States and Countries during the last five years	Number of students enrolled from other states and countries. (data to be given on the basis of permanent address mentioned by the student in the admission form).	8	7	8	10	11
		Total number of students enrolled in Dept./Centre	24	24	25	26	25

2.1.2	Demand Ratio (Average of last five years)	Number of seats available in all the programs	12	12	12	12	12
		Total number of eligible applications received	305	340	756	511	636
2.1.3	Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years	Number of students admitted from the reserved category (data to be given only for SC,ST,OBC students)	SC 2 ST 1 OBC 3	SC 2 ST 1 OBC 3	SC 2 ST 1 OBC 3	SC 2 ST 1 OBC 3	SC 2 ST 1 OBC 3
		Total number of seats earmarked for reserved category (seats for SC,ST,OBC) as per GOI or State Government rule	SC 2 ST 1 OBC 3	SC 2 ST 1 OBC 3	SC 2 ST 1 OBC 3	SC 2 ST 1 OBC 3	SC 2 ST 1 OBC 3
Key Indicator - 2.2 Catering to Student Diversity							
Metric No. (as per NAAC Manual)	Description (as per NAAC Manual, July 2017, for Reference purposes)	Data Requirement from Department (For Academic years 2012-13 to 2016-17)	2012-13	2013-14	2014-15	2015-16	2016-17
2.2.2	Student -Teacher ratio (Data Requirement for last five years (year wise))	Total number of students enrolled in the institution (Year wise)	24	24	25	26	21
		Total number of Permanent teachers in the institution (Year wise)	9	9	8	8	6
		Total number of Adhoc teachers in the institution (Year wise)	0	0	0	0	0

		Total number of differently-abled students on roll in the Dept/ Centre	0	0	0	0	0
		Total number of students on roll in the Dept/ Centre	22	19	18	18	17
Key Indicator- 2.3 Teaching- Learning Process							
2.3.2	Average percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.	Number of teachers using ICT (LMS, e-resources) In Dept./ Centre	100%	100%	100%	100%	100%
		Number of teachers on roll	9	9	8	8	6
		ICT tools and resources available (Yes/No)	Yes				
2.3.3	Ratio of mentor to students for academic and stress related issues	Number of students assigned to mentor for academic and stress related issues	22	19	18	18	17
		Number of mentors assigned to address the issues	9	9	8	8	6
		Ratio (Mentor:Mentee)	1:3	1:2	1:2	1:2	1:3
Key Indicator-2.4 Teacher Profile and Quality							
2.4.1	Average percentage of teachers against sanctioned posts during the last five years	Number of teachers (Data Requirement for last five years for permanent teachers)	9	9	8	8	6
		Number of sanctioned posts	10	10	10	10	10

2.4.2	Average percentage of permanent teachers with Ph.D. during the last five years	Number of permanent teachers with PhD	9	9	8	8	6
		Total number of permanent teachers	9	9	8	8	6
2.4.3	Average teaching experience of permanent teachers in number of years	Average teaching experience of all permanent teachers (give supporting document of names of only permanent teachers)	18	18	22	22	20
2.4.4	Average percentage of Permanent teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years (Data Requirement for last five years)	Number of Permanent teachers in Dept./Centre receiving awards from State, National, International level	0	3	4	2	2
		Total number of permanent teachers in Dept./ Centre	9	9	8	8	6
2.4.5	Average percentage of permanent teachers from other States against sanctioned posts during the last five years (Data Requirement for last five years)	Number of permanent teachers from other states	7	7	7	7	5
		Total number of sanctioned posts	10	10	10	10	10

Key Indicator- 2.6 Student Performance and Learning Outcomes								
2.6.3	Average pass percentage of students (Data Requirement for last five years)	Program Code		MSc	MSc	MSc	MSc	MSc
		Name of the program		MSc	MSc	MSc	MSc	MSc
		Number of students appeared		12	12	13	13	12
		Number of students passed		100%	100%	100%	100%	100%
Key Indicator- 2.7 Student Satisfaction Survey								
2.7.1	Online student satisfaction survey regarding teaching learning process	Data Requirement: Name/ Class/ Gender Student Id number/ Aadhaar Id number Mobile number Email id			Supporting Document required: Degree programme Database of all currently enrolled students need to be prepared			
	Name	Gender	ID number	Category	Phone	Email		
	MSc part I							
	Vaishali	F	SSN/979/14	GEN	8285417054	wish.22sharma@gmail.com		
	Lavanya Khullar	F	GC/982/14	GEN	9711366025	lavukhullar@gmail.com		
	Kritika Bansal	F	GC-/980/14	GEN		bansal_kritika@gmail.com		
	Jatin Chadha	M	RLA-672/14	GEN	9958014926	joyroxt@gmail.com		
	Sheeba Hoda	F	IHE-382/14	OBC	9990797325	rati.hoda@gmail.com		
	Vasundhra Bindal	F	GC/1014/14	GEN	9717066291	bindalvasundhra@gmail.com		
	Akanksha	F	RLA-662/14	OBC	8800618709	aksaini21097@gmail.com		
	Deepak Kocher	M	BCAS-10/14	GEN	7530997520	diegostark96@gmail.com		

Ashee Singh	F	IHE-361/14	OBC	9654437304	sashee859@gmail.com
Jyoti	F	GC-/977/14	SC	7042048109	oswalia.jyoti@gmail.com
Akanksha Paul	F	GC/960/14	SC	9911342211	pearl.aku2896@gmail.com
Shweta Kirad	F	GC/1005/14	ST	9910978286	shwetakirad54@gmail.com
Monika Joshi	F	GC-/986/14	PWD	9716749590	monikajoshi1395@gmail.com
M.Sc. Part-I I					
Akanksha Rawat	F	BCAS-181/13	Gen	8527527601	akanksharawat63@gmail.com
Anita Yadav	F	Gc-179/13	OBC	9643358332	raoatinayadav95@gmail.com
Ashish	M	RLA-527/13	GEN	8527226345	2195ashish@gmail.com
Devi Basumatary	F	RLA-528/13	ST	8826517216	devibasumatary6@gmail.com
Nishika Sabharwal	F	BCAS-202/13	GEN	9560121452	nishika.sabharwal@gmail.com
Shahrukh Khan	M	SSN-1087/13	OBC	9917434673	Khansharukh378@gmail.com
Vishal Dashora	M	RLA-543/13	GEN	8587031507	dashoravishal@gmail.com
Yash Chaudhary	M	RLA-545/13	SC	8376994077	Yashchaudhary.185@gamil.com

Criterion III: Research, Innovations and Extension

Key Indicator 3.1 Promotion of Research and Facilities

Metric No.	Description (as per NAAC Manual, July	Data Requirement from Department (For Academic years 2012-13 to 2016-17)	Academic Years 2012-13 to 2016-17
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(as per NAAC Manual)	2017, for Reference purposes)		2012-13	2013-14	2014-15	2015-16	2016-17
3.1.3	Teachers awarded international fellowship for advanced studies/ research during the last five years	Number of teachers awarded international fellowship from 2012-13 to 2016-17.	0	1	0	0	0
		Name of the teacher	Name of the award		Year of Award		Awarding Agency
		Rajeev Kaul	Indo-US Raman Research fellowship		2013-14		UGC
		Supporting Documents required: Please provide award letters of the teachers.					
3.1.4	JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows in the university enrolled during the last five years	Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows in the Dept./Centre from 2012-13 to 2016-17.					
		Name of Research fellow	Year of enrolment		Duration of fellowship	Type of the fellowship	Granting agency
		Ms. Adivitya	2012-13		5 years	JRF	CSIR
		Ms. Catherine Skyonggin Paul	2012-13		5 years	JRF	CSIR
		Ms. Tanvi Kalra	2012-13		5 years	JRF	UGC
		Ms. Uditia	2012-13		5 years	JRF	UGC

	Mr. Nambram Somendro Singh	2012-13	5 years	JRF	ICMR
	Dr. Neelja Singhal*	2012-13	3 years	RA	DST
	Mr. Deepak Parashar	2012-13	3 years	JRF	DBT
	Mr. K. Karthikeya	2012-13	5 years	JRF	CSIR
	Mr. Richi Mahajan	2012-13	5 years	JRF	CSIR
	Mr. Sandeep Kumar	2012-13	5 years	JRF	ICMR
	Mr. Amandeep Kaur	2012-13	5 years	JRF	DBT
	Ms. Arti Yadav	2013-14	5 years	JRF	ICMR
	Ms. Poonam	2013-14	5 years	JRF	CSIR
	Ms. Shruti Bindal	2013-14	5 years	JINSPIRE	DST
	Mr. Himadri Bose	2013-14	5 years	JRF	DBT
	Ms. L. Shiv lata	2013-14	5 years	JRF	DBT
	Ms. Shazia Faridi	2013-14	5 years	RA	ICMR
	Mr. Subhojeet Chakraborty	2013-14	5 years	JRF	CSIR
	Ms. Shilpa Rohra	2014-15	5 years	JRF	UGC
	Ms. Nivedita Gaur	2014-15	3 years	JRF	UGC
	Mr. Yogesh Singh	2014-15	5 years	JRF	ICMR
	Mr. Devanand Kumar	2014-15	5 years	RA	DBT
	Mr. Gaurav Kumar	2014-15	5 years	JRF	CSIR
	Dr. Jyotsana Dalal*	2014-15	5 years	RA	UGC

		Ms. Meenu Saini	2015-16	5 years	JRF	ICMR
		Ms. Babbal	2015-16	5 years	JRF	CSIR
		Ms. Varshini	2015-16	5 years	INSPIRE	DST
		Ms.Ashima Dua	2015-16	5 years	JRF	CSIR
		Ms.Jyoti Pal	2015-16	3 years	JRF	DBT
		Mr.Yogesh Kumar	2015-16	5 years	JRF	CSIR
3.1.5	Does the Department/ Centre have these facilities? If, so choose the options and provide relevant documents as mentioned.	1. Central Instrumentation Centre 2. Animal House/Green House / Museum 3. Central Fabrication facility 4. Media laboratory/Business Lab/Studios 5. Research/Statistical Databases Options: A. Any four facilities exist B. Three of the facilities exist C. Two of the facilities exist D. One of the facilities exists E. None of the facilities exist Opt any One	C			
		Supporting Document required: Name of the facility: Year of establishment: Videos/pictures				
3.1.6	Whether the Department is under UGC - SAP, CAS, DST	Name of the Scheme	Name of the funding agency	Year of Award	Funds provided	Duration of award

	-FIST, DBT, ICSSR and other similar recognitions by government agency (Yes/No)? If Yes, Supporting Documents required: Please provide departmental recognition award letters	UGC-SAP (DRS scheme)	UGC	2012	75 Lakhs	2012-2017		
Key Indicator 3.2 Resource Mobilization for Research								
3.2.1	Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution during the last five	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator	Department of Principal Investigator	Year of Award	Funds provided	Duration of the project	Name of the Project/ Endowments, Chairs
		Nil.						
Supporting Documents required : Please provide grant award letters for research projects sponsored by non-government agency								

	years (Amount in Rupees) (Data strictly for the period 2012-13 to 2016-17).								
3.2.2	Grants for research projects sponsored by the government sources during the last five years (for the period 2012-13 to 2016-17 ; Amount in Rupees)	Name of the Project	Name of the Principal Investigator	Department of Principal Investigator	Year of Award	Funds provided	Durati on of the projec t	Funding Agency	Total amount of funds received
		Genome wide survey of lipases from <i>Yarrowia lipolytica</i> : cloning, expression, biochemical characterization and applications	Prof. Rani Gupta	Microbiology	2014	44.43	2014-2017	DBT	44.43
		Utilization of peptidomimetics to design small molecules from a novel P1 peptide, their interaction with beta amyloid oligomers by <i>in-silico</i> and <i>in-vitro</i> approaches, and its efficiency in clearing beta amyloid load by <i>ex vivo</i> model of Alzheimer's disease	Prof. Rani Gupta	Microbiology	2012	22.00	2012-2016	DBT-BIRAC	22.00
		Enzymatic synthesis of Theanine: A nutraceutical using	Prof. Rani Gupta	Microbiology	2010	23.00	2010-2013	MoFPI	23.00

		microbially-glutamyl transpeptidase							
		Keratinase from <i>Bacillus pumilus</i> for degradation of recalcitrant proteins: Process optimization and Biochemical	Prof. Rani Gupta	Microbiology	2010	29.00	2010-2013	DBT	29.00
		Biochemical and molecular characterization of and enantioselective lipase from <i>Trichosporan ashaii</i> MSR-54	Prof. Rani Gupta	Microbiology	2010	21.83	2010-2013	CSIR	21.83
		Engineering <i>Pichia pastoris</i> to address catabolite repression and methanol usage for AOX-1 guided expression	Prof. Rani Gupta	Microbiology	2017	49.54	2017-2020	DBT	49.54
		Comparative genomics of β -lactamase genes including <i>in-silico</i> analysis to identify sequences for β -lactamase inhibitors	Prof.J.S.V irdi	Microbiology	2012	35.00	2012-15	ICMR	35.00
		Resistance-genes-array based rapid detection of antimicrobial resistance and algorithm driven therapy	Prof.J.S.V irdi	Microbiology	2017	12.90	2017-18	BIRAC-DBT	12.90
		Characterization of the DNA replication proteins Cdc6/ORC1 and MCM in the archaeon <i>Picrophilus torridus</i>	Prof.Swati Saha	Microbiology	2011	39.00	2011-14	DST	39.00
		Functional characterization of histone acetyltransferases HAT2 and HAT3 in the protozoan parasite <i>Leishmania donovani</i>	Prof.Swati Saha	Microbiology	2012	62.00	2012-15	DBT	62.00
		Functional characterization of	Prof.Swati	Microbi	2012	27.00	2012-	CSIR	27.00

	histone acetylases HAT4 in <i>Leishmania donovani</i>	Saha	ology			15		
	Investigating DNA replication protein cdc45 in <i>Leishmania</i>	Prof.Swati Saha	Microbiology	2015	49.50	2015-18	DST	49.50
	Investigation of the roles of GNAT-family histone acetyltransferases Elp 3a and Elp 3b in the protozoan <i>Leishmania donovani</i>	Prof.Swati Saha	Microbiology	2016	67.82	2016-19	DBT	67.82
	Cloning expression and bioprocess optimization of recombinant human interleukin-7 (hIL-7) in methylotrophic yeast <i>Pichia Pastoris</i>	Dr.Y.P.Kh asa	Microbiology	2011	30.50	2011-15	DBT	30.50
	Bioprocess optimization of human granulocyte macrophage colony Stimulating Factor (hGM-CSF) expression in <i>Escherichia coli</i>	Dr.Y.P.Kh asa	Microbiology	2012	25.00	2012-15	DST	25.00
	Bioprocess optimization of scFv production against hGM-CSF in methylotrophic yeast, <i>Pichia pastoris</i>	Dr.Y.P.Kh asa	Microbiology	2012	8.45	2012-15	UGC	8.45
	Bioprocess development of recombinant therapeutics in <i>Pichia pastoris</i> :Human Interleukin-3 (hIL-3) as a model system	Dr.Y.P.Kh asa	Microbiology	2013	51.59	2013-16	DBT	51.59
	Mechanism of EBV latency control by inflammation	Dr.Rajeev Kaul	Microbiology	2011	40.00	2011-14	DBT	40.00
	Hepatitis C Virus & expression of cox-2	Dr.Rajeev Kaul	Microbiology	2012	55.00	2012-15	DBT	55.00
	Viral metagenomics	Dr.Rajeev Kaul	Microbiology	2012	40.00	2012-15	DST	40.00
	Generations of EBV transformed LCLs of diverse origin	Dr.Rajeev Kaul	Microbiology	2012	14.00	2012-15	UGC	14.00

		Understanding the molecular basis of <i>peste-des-petits</i> ruminants virus mediated host immune modulation for development of next generation vaccine	Dr.Rajeev Kaul	Microbiology	2017	58.00	2017-20	ICAR	58.00
		Joint Indo-Finland RFBR - Butanol from sustainable sources	Prof.R.K.S axena	Microbiology	2012	34.12	2012-2014	DST	34.12
		Joint Indo-Russian enzymatic transformation of Fucodians as a base for drug design, structural and functional investigations from Indian and Russian seaweeds	Prof.R.K.S axena	Microbiology	2012	22.00	2012-14	DST	22.00
		Cloning and expression of amylopullulanase of <i>G. thermoleovorans</i>	Prof. T. Satyanarayana	Microbiology	2012	24.07	2012-15	DST-PURSE	24.07
		Cloning and expression of cell-bound phytase encoding gene of <i>P. anomala</i> in <i>Pichia pastoris</i>	Prof. T. Satyanarayana	Microbiology	2012	13.27	2012-15	UGC	13.27
		Production, characterization and applicability of acidic amylase of <i>Bacillus acidicola</i> TSAS 1	Prof. T. Satyanarayana	Microbiology	2012	33.31	2012-15	DST	33.31
		Production of recombinant..... phytase of <i>Sporotrichum thermophile</i>	Prof. T. Satyanarayana	Microbiology	2013	23.25	2013-16	DBT	23.25
		Diversity of carboxidotrophic... ..actinobacteria in Manipur	Prof. T. Satyanarayana	Microbiology	2013	30.65	2013-16	DBT	30.65
		Development of seaweed biorefinery and pilot demonstration of Bioethanol	Prof. R.C. Kuhad	Microbiology	2013	34.47	2013-16	DBT	34.47

		production							
		Development of pretreatment strategies and bioprocess for improved production of cellulolytic enzymes and ethanol from crop byproduct for demonstration at pilot plant	Prof. R.C. Kuhad	Microbiology	2013	148.47	2013-16	MNRE	148.47
		Optimization of cellulase production from <i>Thermoascus aurantiacus</i> RCK 2011, a thermophilic fungus and its application in cellulose hydrolysis	Prof. R.C. Kuhad	Microbiology	2013	10.51	2013-16	UGC	10.51
<p>Supporting Documents Required: Please provide grant award letters for research projects sponsored by Government funding agencies.</p>									

3.2.3	Average number of research projects per teacher funded by government and non-government agencies during the last five years	Total Number of research projects during last five years (Add all the projects amended by both government and non-government agency in respect of all faculty members)	32 (Average = 4/ teacher)		
		Total Number of teachers	8		
		Supporting Documents Required: Please provide grant award letters for research projects sponsored by Government and Non-Government Agencies.			
Key Indicator 3.3 Innovation Ecosystem					
3.3.3	Number of Awards for innovation won by teachers/research scholars/students during the last five years	Name of the Awardee	Name of the Awarding Agency with contact details	Year of Award	
		Prof. J. S. Viridi	DBT, CGO complex Lodhi road, New Delhi-110003	2016	
		Prof. J. S. Viridi	Invitrogen Biosciences, USA	2016	
Supporting Documents Required: Please provide award letters					
3.3.4	Number of Start-ups incubated on campus during the last five years	Name of the start ups	Nature of start up	Year of commencement	Contact information of the promoters

		0	NA	NA	NA
		Supporting Documents Required: Please provide sanction letter from the University for the start-ups on campus.			
	Key Indicator 3.4 Research Publications and Awards				
3.4.2	Has any faculty from the Dept./Centre received incentive from the University for getting state, national and international recognition/awards (Eg. R. & D. grants; Travel Grants; Grants for Publications; Conference Registration for Paper presentation; Collaborations, etc.)	(Yes /No) Yes			
		Name of the Awardee with contact details	Name of the Awarding Agency	Year of Award	Incentive details
		Prof.Rani Gupta	University of Delhi	2012	2.5 lakh R&D grant
		Prof.J.S.Virdi	University of Delhi	2012	2.5 lakh R&D grant
		Prof.Swati Saha	University of Delhi	2012	2.5 lakh R&D grant
		Dr.Rajeev Kaul	University of Delhi	2012	2.5 lakh R&D grant
		Dr.Y.P.Khasa	University of Delhi	2012	2.5 lakh R&D grant
		Prof.Rani Gupta	University of Delhi	2013	2.5 lakh R&D grant
		Prof.J.S.Virdi	University of Delhi	2013	2.5 lakh R&D grant
		Prof.Swati Saha	University of Delhi	2013	2.5 lakh R&D grant
		Dr.Rajeev Kaul	University of Delhi	2013	2.5 lakh R&D grant
		Dr.Y.P.Khasa	University of Delhi	2013	2.5 lakh R&D grant
		Prof.Rani Gupta	University of Delhi	2014	2.8 lakh R&D grant
		Prof.J.S.Virdi	University of Delhi	2014	2.8 lakh R&D grant
		Prof.Swati Saha	University of Delhi	2014	2.8 lakh R&D grant
	Dr.Rajeev Kaul	University of Delhi	2014	2.8 lakh R&D grant	
	Dr.Y.P.Khasa	University of Delhi	2014	2.8 lakh R&D grant	

		Prof.Rani Gupta	University of Delhi	2015	2.8 lakh R&D grant
		Prof.J.S.Virdi	University of Delhi	2015	3 lakh R&D grant
		Prof.Swati Saha	University of Delhi	2015	3 lakh R&D grant
		Dr.Rajeev Kaul	University of Delhi	2015	3 lakh R&D grant
		Dr.Y.P.Khasa	University of Delhi	2015	3 lakh R&D grant
		Dr. Rajeev Kaul	University of Delhi	2012	0.82 Lakh Travel Grant
		Prof. Swati Saha	University of Delhi	2015	0.3 Lakh Publication charges
		Supporting Documents required: Please provide letters of awards.			
3.4.3	Patents published/awarded during the last five years (2012-13 to 2016-17)	Name of the Patent published/awarded	Patent Number	Year of Award	
		Novel yeast strains having accession No. DRF-UDS/WF and a method for propagation thereof Granted an Indian patent to N.B Brindavanam, Y. Vekateswara Rao, D.B.A. Narayana, T. Satyanarayana, Ashima Vohra and Sanjeev Kumar	244100	2010	
		A method for detection of chemical adulterants in synthetic milk and ready to use kit for the detection of synthetic milk. Indian Patent number:, granted to Prof. Rani Gupta, Department of Microbiology, University of Delhi South Campus	218177	2008	
		A poultry animal feed composition, and process for producing the same ; Granted an Indian patent to Prof. T. Satyanarayana and Ashima Vohra	197593	2006	
		A process for the preparation of low temperature alkaline lipase from the fungus <i>Fusarium globulosum</i> complex; Granted an Indian Patent to Prof. R.K. Saxena, to Department of Microbiology, University of Delhi South	194616	2006	

		Campus				
		Supporting Documents required: Please provide the letters of award				
3.4.4	Number of Ph. Ds awarded per teacher during the last five years	Name of the PhD scholar	Name of the Department	Name of the guide/s	Year of registration of the scholar	Year of award of PhD
		Pinki Anand	Microbiology	Prof. R.K.Saxena	2007	2012
		Shailendra Raghuvanshi	Microbiology	Prof. R.K.Saxena	2008	2013
		Swati Mishra	Microbiology	Prof. R.K.Saxena	2007	2013
		Vinod Kumar	Microbiology	Prof. R.K.Saxena	2008	2013
		Firdaus Jahan	Microbiology	Prof. R.K.Saxena	2009	2014
		Garima Rawat	Microbiology	Prof. R.K.Saxena	2011	2014
		Priyanka Tripathi	Microbiology	Prof. R.K.Saxena	2011	2014
		Richi V. Mahajan	Microbiology	Prof. R.K.Saxena	2011	2014
		Sweta Yadav	Microbiology	Prof. R.K.Saxena	2011	2014

		K. Karthikeya	Microbiology	Prof. R.K.Saxena	2011	2016
		Adarsh K. Puri	Microbiology	Prof. T.Satayanarayana	2006	2012
		Bharti Rohatgi	Microbiology	Prof. T.Satayanarayana	2006	2012
		Archana Sharma	Microbiology	Prof. T.Satayanarayana	2008	2013
		Digvijay Verma	Microbiology	Prof. T.Satayanarayana	2009	2013
		Vikash Kumar	Microbiology	Prof. T.Satayanarayana	2008	2013
		Deepika Mehta	Microbiology	Prof. T.Satayanarayana	2010	2014
		Nisha M	Microbiology	Prof. T.Satayanarayana	2011	2015
		Swati Joshi	Microbiology	Prof. T.Satayanarayana	2011	2015
		Deepak Parashar	Microbiology	Prof. T.Satayanarayana	2012	2017
		Shazia Faridi	Microbiology	Prof. T.Satayanarayana	2013	2017

		Himadri Bose	Microbiology	Prof. T.Satayanarayana	2013	2017
		Neha Minocha	Microbiology	Prof. Swati Saha	2007	2012
		Rishi Gupta	Microbiology	Prof. R.C.kuhad	2007	2012
		Bhuvanesh Srivastava	Microbiology	Prof. R.C.kuhad	2008	2013
		Abha Sharma	Microbiology	Prof. R.C.kuhad	2009	2014
		Deepa Deswal	Microbiology	Prof. R.C.kuhad	2008	2014
		Preeti Nandal	Microbiology	Prof. R.C.kuhad	2008	2014
		Sonia Sharma	Microbiology	Prof. R.C.kuhad	2009	2014
		Piyush Chandana	Microbiology	Prof. R.C.kuhad	2010	2015
		Kavish Kumar Jain	Microbiology	Prof. R.C.kuhad	2010	2015
		Sandeep Kumar	Microbiology	Prof. R.C.kuhad	2012	2017
		Richa Sharma	Microbiology	Prof.Rani Gupta	2007	2013

		Rinky Rajput	Microbiology	Prof. Rani Gupta	2010	2014
		Arti Kumari	Microbiology	Prof. Rani Gupta	2010	2015
		Pradeep Kumar	Microbiology	Prof. J.S.Virdi	2007	2012
		Asani Bhaduri	Microbiology	Prof. J.S.Virdi	2008	2013
		Mahesh S. Dhar	Microbiology	Prof. J.S.Virdi	2008	2013
		Pawan Kumar Kanaujia	Microbiology	Prof. J.S.Virdi	2009	2015
		Priyanka Bajaj	Microbiology	Prof. J.S.Virdi	2011	2015
		Devanand Kumar	Microbiology	Prof. Swati Saha	2008	2014
		Kasturi	Microbiology	Prof. Swati Saha	2011	2016
		Jasmine Arora	Microbiology	Prof. Swati Saha	2009	2016
		V. Balaji	Microbiology	Dr. Amita Gupta	2007	2014
		Jaya Gandhi	Microbiology	Dr. Rajeev Kaul	2011	2016

		Vikas Kumar	Microbiology	Dr. Y.P.Khasa	2009	2016
		Nirmala Devi	Microbiology	Dr. Y.P.Khasa	2011	2017
3.4.5	Details of research papers per teacher in the Journals notified on UGC website during the last five years	Data to be provided in API format with ISBN/ISSN				
	<p>2017</p> <ol style="list-style-type: none"> 1. Bindal, S., & Gupta, R. (2017). Hyperproduction of gamma-glutamyl transpeptidase from <i>Bacillus licheniformis</i> ER15 in the presence of high salt concentration. <i>Preparative Biochemistry and Biotechnology</i>, 47(2), 163-172. 2. Jain, K. K., Kumar, S., Deswal, D., & Kuhad, R. C. (2017). Improved production of thermostable cellulase from <i>Thermoascus aurantiacus</i> RCKK by fermentation bioprocessing and its application in the hydrolysis of office waste paper, algal pulp, and biologically treated wheat straw. <i>Applied Biochemistry and Biotechnology</i>, 181(2), 784–800. 3. Malhotra, S., Singh, S., Rana, N., Tomar, S., Bhatnagar, P., Gupta, M., Kuhad R.C. & Richards, N. G. J. (2017). Chemoenzymatic synthesis, nanotization and anti-Aspergillus activity of optically enriched fluconazole analogues. <i>Antimicrobial Agents and Chemotherapy</i>, 61 (8) 273. 4. Bindal, S., Sharma, S., Singh, T. P., & Gupta, R. (2017). Evolving transpeptidase and hydrolytic variants of gamma-glutamyl transpeptidase from <i>Bacillus licheniformis</i> by targeted mutations of conserved residue Arg109 and their biotechnological relevance. <i>Journal of Biotechnology</i>, 249, 82-90. 5. Dagar, V. K., Adivitiya, & Khasa, Y. P. (2017). High-level expression and efficient refolding of therapeutically important recombinant human Interleukin-3 (hIL-3) in <i>E. coli</i>. <i>Protein Expression and Purification</i>, 131, 51-59. 6. Gandhi, J., Khera, L., Gaur, N., Paul, C., & Kaul, R. (2017). Role of modulator of inflammation cyclooxygenase-2 in gammaherpesvirus mediated tumorigenesis. <i>Frontiers in Microbiology</i>, 8, 538. 7. Kumari, S., Pal, R. K., Gupta, R., & Goel, M. (2017). High resolution X-ray diffraction dataset for <i>Bacillus licheniformis</i> gamma glutamyl transpeptidase-acivicin complex: SUMO-tag renders high expression and solubility. <i>Protein Journal</i>, 36(1), 7-16. 8. Saini, M., Bindal, S., & Gupta, R. (2017). Heterologous expression of gamma-glutamyl transpeptidase from <i>Bacillus</i> 					

atrophaeus GS-16 and its application in the synthesis of gamma-d-glutamyl-l-tryptophan, a known immunomodulatory peptide. *Enzyme and Microbial Technology*, 99, 67-76.

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<p>3.4.6</p>	<p>Details of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings per teacher during the last five years</p>	<p>Data to be provided in API format with ISBN/ISSN</p>
	<p>Edited Books with ISBN</p> <p>2013</p> <p>1. (2013). <i>Biotechnology for environmental management and resource recovery</i>. R. C. Kuhad & A. Singh (Eds.). Germany: Springer Verlag. (ISBN 978-81-322-0876-1).</p> <p>2. (2013). <i>Thermophilic Microbes in Environmental and Industrial Biotechnology</i>. T. Satyanarayana, J. Littlechild & Y. J. Kawarabayasi (Eds.). Netherland: Springer. (ISBN 978-94-007-5899-5).</p> <p>2012</p>	

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3.4.7	Bibliometrics of the publications during the last five years based on average citation index in Google Scholar/Scopus/ Web of Science or PubMed/ Indian Citation Index/Indexed Journals	Total number of journal citations received by publications in Google Scholar, SCOPUS, Web of Science, Indian Citation Index, indexed journals during last five years			9071	
		Total number of publications in Google Scholar, SCOPUS, Web of Science, Indian Citation Index, indexed journals during last five years (from 2012-13 to 2012-17)			34	
3.4.8	Bibliometrics of the publications during the last five years based on Scopus/ Web of Science – h-index of the university	Total Number of overall citations 9071			H- index of the Department 38	
Key Indicator 3.5 Consultancy						
3.5.2	Revenue generated from consultancy during the last five years Nil	Names of the consultants	Name of consultancy project	Consulting/Sponsoring agency with contact details	Revenue generated (amount in rupees)	Total revenue generated in rupees

3.5.3	Revenue generated from corporate training by the institution during the last five years Documents: Nil	Names of the teacher-consultants	Title of the corporate training program	Agency seeking training with contact details	Revenue generated (amount in rupees)	Number of trainees	Total revenue generated in rupees
		Supporting Documents Required: Please provide one audited statement of account indicating the revenue generated through consultancy.					
Key Indicator 3.6 Extension Activities							
3.6.2	Number of awards and recognition received for extension activities from Government / recognised bodies during the last five years	Name of the activity	Name of the Award/ recognition	Name of the Awarding government/ recognised bodies	Year of the Award		

	Nil						
3.6.3	Number of extension and outreach programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/NCC/Red cross/YRC etc., during the last five years	Name of the extension and outreach programs		Number of extension and outreach programs		Name of the collaborating agency: Non-government, industry, community with contact details	
	Nil						
3.6.4	Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years	Name of the activity	Name of the scheme	Year of the activity	Number of teachers participating in such activities	Number of students participating in such activities	
	Nil						
Key Indicator 3.7 Collaboration							
3.7.1	Number of Collaborative activities for research, faculty exchange, student exchange per year	Title of the collaborative activity	Name of the collaborating agency with contact details	Source of financial support	Year of collaboration	Duration	Nature of the activity
	Nil						

3.7.2	Number of linkages with institutions/industries for internship, on-the job training, project work, sharing of research facilities etc. during the last five years	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Year of commencement	Duration(From-to)	Nature of linkage	
		BIRAC	NBRC Manesar & Lead Invent	2012	2 years	Research project	
		Joint Indo-Finland RFBR - Butanol from sustainable sources		2012-2014	2 years	Research project	
		Joint Indo-Russian enzymatic transformation of Fucodians as a base for drug design, structural and functional investigations		2012-14	2 years	Research projec	

		from Indian and Russian seaweeds					
		Supporting Documents Required: Please provide documents for linkages with institutions/ industries					
3.7.3	Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. during the last five years (only functional MoUs with ongoing activities to be considered) None	Organisation with which MoU is signed	Name of the institution/ industry/ corporate house	Year of signing MoU	Duration	List the actual activities under each MoU	Number of students /teachers participated under MoUs
		Supporting Documents Required: Please provide documents for linkages with institutions/ industries					
Criterion IV – Infrastructure and Learning Resources							
Key Indicator 4.1 Physical facilities							
Metric No.	Description (as per NAAC Manual,	Data Requirement from Department (For Academic years 2012-13 to 2016-17)		Academic Years 2012-13 to 2016-17			

(as per NAAC Manual)	July 2017, for Reference purposes)		2012-13	2013-14	2014-15	2015-16	2016-17
4.1.1	Facilities for teaching - learning available in Dept./centre as per minimum requirements of statutory bodies	Facilities	Available in Department/ Centre				
		Classroom(only number and size in mtr. / square)	2 (36 sq m each)				
		Laboratories (only number and size in mtr. / square)	2 (44 sq m each)				
		Computing instruments (only number)	6				
4.1.3	% of classrooms and seminar halls with ICT-enabled facilities such as smart class, LMS, etc.	Facilities	Number of Classrooms /Seminar Hall/ Smart class room				
		Classrooms with LCD	2				
		Classrooms with Wi-fi/LAN	2				
		Seminar halls with ICT facilities	1				
		Total No. Of classroom and seminar Hall in the department	3				
Key Indicator - 4.2 Library as a Learning Resource							
4.2.7	E-content developed by teachers 1. e-pathshala 2. For CEC (undergraduate) 3. For SWYAM 4. For other MOOCS	Name of the teacher	Name of the module	Platform on which module is developed	Date of launching e-content	Number of platforms on which e-content has been developed by teachers	

	<p>platform For NPTEL/ NMEICT/ other Government facilities 5. For institutional LMS</p> <p>Options: 1. any 5 of above 2. any 4 of above 3. any 3 of above 4. any 2 of above 5 None of the above</p> <p>Opt Any One</p>	None				
Key Indicator 4.3 IT infrastructure						
4.3.2	Student- Computer ratio in Dept./Centre	No. of working computers	Total no. of students			
		6	24			
4.3.4	Facilities for e-content development such as Media centre, Recording facility Lecture Capturing System (LCS)	<p style="text-align: right;">Yes/ No; If Yes</p> <p>Mention the names of the e-content development facilities (Nature of Media Centre, Recording facility ;Date of Installation)</p> <p style="text-align: center;">No</p>				
CRITERION V: STUDENT SUPPORT AND PROGRESSION						
Key Indicator - 5.1 Student Support						
Metric No.	Description (as per NAAC Manual, July 2017, for Reference purposes)	Data Requirement from Department (For Academic years 2012-13 to 2016-17)	Academic Years 2012-13 to 2016-17			

(as per NAAC Manual)			2012-13	2013-14	2014-15	2015-16	2016-17	
5.1.1	Average percentage of students benefited by scholarships and free-ships provided by the Government during the last five years	Number of students benefited	90%	90%	90%	90%	90%	
		Total no of student	22	19	18	18	17	
5.1.2	Average percentage of students benefited by scholarships, free-ships, etc. provided by the University besides government schemes during the last five years	Number of students benefited	12	12	12	12	12	
		Name of the scheme with contact information	Non-NET fellowship for PhD					
5.1.3	Number of capability enhancement and development Scheme (Total number in last five years)	1.Guidance for competitive examinations						
		2. Career Counseling						Yes
		3. Soft skill development						
		4. Remedial coaching						Yes
		5. Language lab						
		6. Bridge courses						
		7. Yoga and Meditation						
		8. Personal Counseling						Yes
		Options: Three of the above 7 or more of the above Any 6 of the above Any 5 of the above Any 4 of the above Any 3 of the above						
Please provide								

		1. Name of the capability enhancement scheme 2. Year of implementation 3. Number of students enrolled 4. Name of the agencies involved with contact details					
5.1.4	Average percentage of students benefited by guidance for competitive examinations and career counselling offered by the University during the last five years	Number of students who have passed in the competitive exam	CSIR-JRF 6 ICMR JRF 2 DST INSPIRE 1	CSIR-JRF 5 DST INSPIRE 1	CSIR-JRF 4 DST INSPIRE 1	CSIR-JRF 1 DST INSPIRE 1 ICAR NET 2	None
		Number of students placed	2	0	0	0	0
		Name of the scheme	CSIR-JRF ICMR JRF DST INSPIRE JRF ICAR JRF				
Key Indicator - 5.2 Student Progression							
5.2.1	Average percentage of placement of outgoing students during the last five years	Name of the employer with contact details					
		Number of students placed					
		Total no. of outgoing students who opted for campus placement	0	0	0	0	0
5.2.2	Percentage of student progression to higher education (previous graduating batch)	Number of students proceeding from					
		UG to PG	8*	8*	8*	8*	8*
		PG to MPhil	0	0	0	0	0
		PG to PhD	25**	16**	0**	8**	8**
		MPhil to PhD	0	0	0	0	0
		PhD to Post doctoral	0	16	16	16	16
		* The remaining join other universities / institutions ** The remaining join other National / International research institutions or universities					
		Total No. of final year students Post Graduate:	12 0	12 0	13 0	13 0	12 0

		M.Phil: Ph.D:	9	13	7	5	5
5.2.3	Average percentage of students qualifying in state/ national/ international level examinations during the last five years (eg: NET/SLET/GATE/GMAT/CAT / GRE/TOEFL/Civil Services/State government examinations)	Number of students selected to					
		NET	8	5	4	3	0
		SLET	0	0	0	0	0
		GATE	0	0	0	0	0
		GMAT	0	0	0	0	0
		CAT	0	0	0	0	0
		GRE	0	0	0	0	0
		TOEFL	0	0	0	0	0
		CIVIL SERVICES	0	0	0	0	0
		STATE GOVERNMENT EXAMINATIONS	0	0	0	0	0
		Please provide some exemplary documentary evidence from students/alumni data base					
Total number of students who appeared in National/ International exams	12	12	13	13	12		
Key Indicator-5.4 Alumni Engagement							
5.4.2	Alumni contribution during the last five years	Alumni contribution during the last five years	E	E	E	E	E

		Options: A. \geq 100 Lakhs B. 50Lakhs - 100 Lakhs C. 20 Lakhs - 50 Lakhs D. 5 Lakhs - 20 Lakhs E. <5 Lakhs					
		Name of the alumnus/ alumni association:	NA	NA	NA	NA	NA
		Quantum of contribution:	Nil	Nil	Nil	Nil	Nil
		Documents required · Annual audited statements of accounts · Alumni association audited statements					
5.4.3	Number of Alumni Association /Chapters meetings held during the last five years	Number of alumni association meetings	0	0	0	0	0
		Dates of meetings	NA	NA	NA	NA	NA
Criterion VI: Governance, Leadership and Management							
Key Indicator - 6.3 Faculty Empowerment Strategies							
Metric No. (as per NAAC Manual)	Description (as per NAAC Manual, July 2017, for Reference purposes)	Data Requirement from Department (For Academic years 2012-13 to 2016-17)	Academic Years 2012-13 to 2016-17				
			2012-13	2013-14	2014-15	2015-16	2016-17

6.3.4	Number of teachers attending professional development programme Viz. Orientation programme, Refresher course, Short term course, Faculty Development Programme	Orientation programme	0	0	1	1	0
		Refresher course	2	0	0	0	0
		Short Term Course	0	0	0	0	0
		Faculty Development Programme	0	0	0	0	0

Supporting Documents Required: Reports of the Human Resource Development Centres (UGC- ASC or other relevant centres);

Criterion VII – Institutional Values and Best Practices

Key Indicator - 7.1 Institutional Values and Social Responsibilities

Metric No. (as per NAAC Manual)	Description (as per NAAC Manual, July 2017, for Reference purposes)	Data Requirement from Department (For Academic years 2012-13 to 2016-17)	Academic Years 2012-13 to 2016-17				
			2012-13	2013-14	2014-15	2015-16	2016-17

7.1.1 Gender Equity

7.1.1.1	Number of gender equity promotion programs organized by the Department during the last five years	Number of gender equity promotion programs	Nil	Nil	Nil	Nil	Nil
	Supporting Documents Required: Please provide Title of the programme, Duration (From – To), and Number of participants						
7.1.2.1	Percentage of power requirement of the department met by the renewable energy sources	Power requirement met by renewable energy sources	Total power requirement				
		Nil	Nil				
7.1.2.6	Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years	Expenditure on green initiatives and waste management excluding salary component	Annual expenditure excluding salary component of the department				
		Nil	Nil				
7.1.3	Differently abled (Divyangjan) Friendliness Resources available in the department	1. Physical facilities	No				
		2. Provision for lift	Yes				
		3. Ramp / Rails	Yes				
		4. Braille Software/facilities	No				
		5. Rest Rooms	No				
		6. Scribes for examination	Yes				
		7. Special skill development for differently abled students	No				
		8. Any other similar facility (Specify)	NA				
Options: D (At least 2 or above) A. 7 and more of the above							

		<p>B. At least 6 of the above C. At least 4 of the above D. At least 2 of the above E. None of the above</p>
		<p>Supporting Documents Required: Please provide Photos and Videos (Physical facilities, Provision for lift, Ramp/ Rails, Braille Software/, Facilities, Rest Rooms, Scribes for examination, Special skill development for differently abled students, Any other similar facility)</p>

7.1.4 Inclusion and Situatedness

7.1.4	Number of specific initiatives to address locational advantages and disadvantages during the last five years	Number of initiatives to address locational advantages and disadvantages	NA	NA	NA	NA	NA
		Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)	NA	NA	NA	NA	NA

7.1.5 Human Values and Professional Ethics

7.1.5	Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff	(Yes/No) No
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7.1.6	Display of core values in the institution and on its website	(Yes/No) No					
7.1.7	The Department plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations	(Yes/No) No					
7.1.8	The Department offers a course on Human Values and professional ethics.	(Yes/No) Yes					
7.1.9	The Departmental functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions.	(yes/No) Yes					
7.1.10	Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and	Title of the Programme/Activity		NA	NA	NA	NA
		Duration (From-to)	NA	NA	NA	NA	NA
		Number of participants	NA	NA	NA	NA	NA

	<p>peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years</p>	<p>Supporting Documents Required: Please provide</p> <p>University code of conduct for students University code of conduct for teachers Handbooks, manuals and brochures on human values and professional ethics. Report on the student attributes facilitated by the Department</p>	
7.1.11	<p>Department organizes national festivals and birth / death anniversaries of the great Indian personalities.</p>	<p>(Yes/No)</p> <p>No</p>	<p>Supporting Documents Required: Please provide a description of efforts of the Department organizing national festivals and birth / death anniversaries of the great Indian personalities</p>
7.1.12	<p>The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions</p>	<p>(Yes/No).</p> <p>Yes</p>	<p>Supporting Documents Required: Please provide a description of efforts of the Institution towards maintains of complete transparency in its financial, academic, administrative and auxiliary functions in not more than 100 words.</p>