

3. Evaluative Report of the Department (Jan to Dec, 2017)

1. Name of the Department: Microbiology, K.G. Medical University UP, Lucknow.
2. Year of establishment : 1987
3. Is the Department part of a college/Faculty of the university? : Faculty of University.
4. Names of programs offered (UG, PG, PharmD, Integrated Masters; M.Phil., Ph.D., Integrated Ph.D., Certificate, Diploma, PG Diploma, D.M./M.Ch., Super specialty fellowship, etc.) : MBBS (250/year), BDS (50/year), MD (Microbiology)-6/year, MD-PhD (4), PhD (6)
5. Interdisciplinary programs and departments involved: Diploma in clinical pathology, Diploma Medical Laboratory technician, Diploma in social and preventive medicine, MDS, BSc nursing, Paramedical courses
6. Courses in collaboration with other universities, industries, foreign institutions, etc. - Nil
7. Details of programs discontinued, if any, with reasons : N.A.
8. Examination System: Annual/Semester/Trimester/Choice Based Credit System: MBBS - Trimester, BDS - Annual, MD - 3 yrs.
9. Participation of the department in the courses offered by other departments : DNB, DCP, B.Sc. Nursing, M.Sc. Nursing, DMLT, Paramedical Courses
10. Number of teaching posts sanctioned, filled and actual(Professors/Associate Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	04	03
Associate Professor/Reader	03	03	02
Assistant Professor	06	01	01
Lecturer	-	-	-
Tutor / Clinical Instructor			
Senior Resident	-	02	02

11. Faculty profile with name, qualification, designation, area of

specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience
Prof. Amita Jain	MBBS, MD, Ph.D.	Prof. & Head		29 yrs 6 months
Prof. Vimala Vankatesh	MBBS, MD	Professor		18 yrs 4 months
Prof. Jyotsna Agarwal (On long leave)	MBBS, MD	Professor		16 yrs 9 months
Prof. Gopa Banerjee	MBBS, MD	Professor		19 yrs
Dr. Raj Kumar Kalyan	MBBS, MD	Addl. Professor		15 yrs
Dr. Prashant Gupta	MBBS, MD	Associate Professor		11 yrs
Dr. Sheetal Verma	MBBS, MD	Assistant Professor		6 yrs

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

1. Mark Lacy MD- Senior faculty physician Infectious diseases
2. Marian Lacy MD – faculty physician Infectious diseases & paediatrician
3. Fatma Levent MD- faculty physician Infectious diseases
4. Jennifer Hanners- faculty speech therapy
5. Brenda Chavez (female)- final year medical student
6. Christine Kim (females)- final year medical student
7. Melissa Saucedo (female)- final year medical student
8. Luz Rodriguez (female)- final year medical student
9. Claire Burrus (female)- final year medical student
10. Bridget Walker (female)- final year medical student
11. Scott Vadala (male)- final year medical student
12. Jonathan Kerr (male)- final year medical student
13. Ryan Ngo room (male)- final year medical student
14. Derek Lowe (males)- final year medical student
15. Teryn Perkins (female)- final year medical student

13. Percentage of classes taken by temporary faculty – program-wise information : N.A.

14. Program-wise Student Teacher Ratio : MBBS : 1:25, MD – 1.5:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

<u>Name of post</u>	<u>Sanctioned</u>	<u>Filled</u>
a) Research Officer	04	03
b) Research Assistant	03	02
c) Social Worker	01	01
d) Sr. Lab. Technician	07	03
e) Lab. Technician	08	05
f) Lab. Assistant	04	09
g) Steno	01	01
h) Clerk	02	04
i) Assistant Store Keeper	-	01
j) Refrigeration Mechanic	01	-
k) Lab. Attendant	14	
l) Safai Karamchari	11	
m) Ward Boy	-	01
n) Peon	-	01

16. Research thrust areas as recognized by major funding agencies- Tuberculosis, viral infections, HIV, Antimicrobial drug resistance, hospital infection control

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

- Virus research and Diagnostic laboratory for viral diseases including serology, molecular testing viral culture sequencing viral load assays and outbreak investigations supported by Department of Health Research GOI.
- Determining role of RNAi in Dengue Virus replication, supported by ICMR, starting from 1-1-17 for a period of 3 years
- Enhancing Biorisk mitigation awareness in public health community and creating laboratory networks for enhanced diagnostic capabilities to deal with surveillance and outbreaks of high-risk group viral pathogens causing viral hemorrhagic fevers and respiratory infections: CDC ICMR collaborative multicentric project since September 2015
- Etiological diagnosis of AES cases in Bihar; a comprehensive study using NGS: ICMR funded project for 3 years from Oct 2016

- Hospital-Based Surveillance of Acute Encephalitis Syndrome in India, Supported by CDC Atlanta for a period of 5 years, (multicentric Project)
 - Capacity Building and Strengthening of Hospital Infection Control to detect and prevent antimicrobial resistance in India Supported by CDC/ ICMR, Starting from 1-1-17 for a period of 3 years. Rs 10 lacs per annum.
 - The global fund Round 9: Rapid Detection of MDR TB by line probe Assay technique and Liquid culture. FIND since-2012
 - Intermediate Reference laboratory, RNTCP (grant for manpower, equipments and contingency, since 2007.
 - Integrated Counselling and Testing Centre, funded by UPSACS/NACO
 - State Reference Laboratory, funded by UPSACS/NACO
 - Evaluation of Chromogenic Medium for Early Detection of the Carbapenem-resistant Enterobacteriaceae directly from Clinical Samples in Critical Care Units- A Pilot Study: 1.35 lacs per annum.
 - Determination of In-vitro susceptibility pattern of ceftriaxone/sulbactam/disodium-edetate against Gram-negative bacilli and comparison with Meropenem and Piperacillin Tazobactam: Rs 5 lacs per annum
 - State Referral Laboratory under Integrated Disease Surveillance & State Surveillance Unit, Uttar Pradesh Grant: Rs 5 lacs per annum
 - KGMU: WHO Centre for surveillance of Diphtheria and Pertussis funded by **WHO, India in year 2016** Grant: Rs 10 lacs per annum
 - KGMU: Regional Centre for Antimicrobial Resistance Surveillance Network **funded by ICMR, India in year 2017** Grant: Rs 10 lakhs per annum
18. Inter-institutional collaborative projects and associated grants received
- a) National collaboration b) International collaboration : Refer to point 17
19. Departmental projects funded by ICMR; DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received- Approximately 19.4 crores
20. Research facility / centre with
1. **Virus research and diagnostic laboratory** of Indian Council of Medical Research at Department of Microbiology, King George's Medical University, Lucknow, UP
 2. **Intermediate Reference laboratory**, King George's Medical University, UP, Revised National Tuberculosis Control Program, India

3. **Integrated counseling and testing center** for HIV by NACO
4. **CD4 Laboratory** UPSACS/NACO
5. **SRL-** UPSACS/NACO
6. **Nodal centre** for lab Diagnosis for STI/RTI in collaboration with UPSACS/NACO
7. **Referral centre for Diphtheria and Pertussis** infection under VPD program of WHO
8. **Nodal Centre** for Integrated Disease Surveillance Program
21. Special research laboratories sponsored by / created by industry or corporate bodies
9. **Virus research and diagnostic laboratory** of Indian Council of Medical Research at Department of Microbiology, King George's Medical University, Lucknow, UP
10. **Intermediate Reference laboratory**, King George's Medical University, UP, Revised National Tuberculosis Control Program, India
11. **Integrated counseling and testing center** for HIV by NACO
12. **CD4 Laboratory** UPSACS/NACO
13. **SRL-** UPSACS/NACO
14. **Nodal centre** for lab Diagnosis for STI/RTI in collaboration with UPSACS/NACO
15. **Referral centre for Diphtheria and Pertussis** infection under VPD program of WHO
16. **Nodal Centre** for Integrated Disease Surveillance Program

22. Publications:

- Jain Amita, Methods of microbiological confirmation in tuberculous meningitis, in "tuberculosis of the central nervous system" Ed. Mehmet Turgut, Ali Akkaddar, A. T. Turgut, R. K. Garg, 1st Edition, 2017, (pp 375-391) Springer
- **Jain A, Jain P**, Prakash S, Khan DN, Kumar A, Kant R. Prevalence of Parvovirus B19V in Hematological Malignancies and Chronic Anemia. Indian J Pediatr. 2017 Aug 2. (**Impact factor 0.39**).
- Garg RK, Malhotra HS, **Jain A**, Kumar N. Dengue encephalopathy: very unusual neuroimaging findings. J Neurovirol. 2017 Oct; 23(5):779-782. (**Impact factor 2.569**).

- Verma R, Holla VV, Kumar V, **Jain A**, Husain N, Malhotra KP, Garg RK, Malhotra HS, Sharma PK, Kumar N. A study of acute muscle dysfunction with particular reference to dengue myopathy. Ann Indian Acad Neurol. 2017 Jan-Mar; 20(1):13-22. **(Impact factor 0.95)**
- Garg RK, Malhotra HS, **Jain A**. Dual infection with Japanese encephalitis and dengue fever: Issues with diagnosis. Neurol India. 2017 Jan-Feb;65(1):108-109 **(Impact factor 1.232)**
- Mehta VK, Verma R, Garg RK, Malhotra HS, Sharma PK, **Jain A**. Study of interleukin-6 and interleukin-8 levels in patients with neurological manifestations of dengue. J Postgrad Med. 2017 Jan-Mar;63(1):11-15. **(Impact factor 0.855)**
- Jaiswal I, **Jain A**, Verma SK, Singh P, Kant S, Singh M. Effect of efflux pump inhibitors on the susceptibility of Mycobacterium tuberculosis to isoniazid. Lung India. 2017 Nov-Dec;34(6):499-505. **(Impact factor 0.53)**
- **Jain A**, Singh PK, Singh U, Kumar V. Initial screening of extra-pulmonary tuberculosis using the Xpert MTB/RIF assay improves case detection rates. Int J Tuberc Lung Dis. 2017 Apr 1;21(4):478-480 . **(Impact factor 2.13)**
- Kumar A, Verma AK, Kant S, Prakash V, Srivastava A, Srivastava K, **Jain A**, Srivastava KK. A study on Beijing genotype in the clinical isolates of pulmonary drug-resistant tuberculosis. Lung India. 2017 Sep-Oct;34(5):430-433. **(Impact factor 0.53)**
- Dwivedi MK, Bhagat AK, Srivastava RN, **Jain A**, Baghel K, Raj S. Expression of MMP-8 in Pressure Injuries in Spinal Cord Injury Patients Managed by Negative Pressure Wound Therapy or Conventional Wound Care: A Randomized Controlled Trial. J Wound Ostomy Continence Nurs. 2017 Jul/ Aug;44(4):343-349. **(Impact factor 1.206)**
- Singh PK, Ahmad MK, Kumar V, Gupta R, Kohli M, **Jain A**, Mahdi AA, Bogra J, Chandra G. Genetic polymorphism of interleukin-10 (-A592C) among oral cancer with squamous cell carcinoma. Arch Oral Biol. 2017 Jan 7;77: 18-22. **(Impact factor 1.748)**
- Jaiswal I, **Jain A**, Singh P, Verma SK, Prakash S, Dixit P, Singh M. Mutations in katG and inhA genes of isoniazid-resistant and-sensitive clinical isolates of Mycobacterium tuberculosis from cases of pulmonary tuberculosis and their association with minimum inhibitory concentration of isoniazid. Clinical Epidemiology and Global Health. 5 (2017) 143-147.
- Garg RK, Malhotra HS, Rizvi I, Kumar N, **Jain A**. An unusual case of acute encephalitic syndrome: Is it acute measles encephalitis or subacute sclerosing panencephalitis? Neurol India. 2017 Nov-Dec;65(6):1333-1344. **(Impact factor 1.232)**
- Garg RK, Rizvi I, Ingole R, **Jain A**, Malhotra HS, Kumar N, Batra D. Cortical laminar necrosis in dengue encephalitis-a case report. BMC Neurol. 2017 Apr 20;17 (1): 79. **(Impact factor 2.48)**
- Garg RK, Malhotra HS, Rizvi I, Kumar N, **Jain A**. An unusual case of acute encephalitic syndrome: Is it acute measles encephalitis or subacute sclerosing panencephalitis? Neurol India. 2017 Nov-Dec;65(6):1333-1344. **(Impact factor 1.232)**

- Garg RK, Rizvi I, Ingole R, **Jain A**, Malhotra HS, Kumar N, Batra D. Cortical laminar necrosis in dengue encephalitis-a case report. BMC Neurol. 2017 Apr 20;17(1):79. (**Impact factor 2.48**)
- Garg RK, Malhotra HS, **Jain**, Dual infection with Japanese encephalitis and dengue fever: Issues with diagnosis. Neurol India. 2017 Jan-Feb;65(1):108-109. (**Impact factor: 1.41**)
- Verma S, Tiwari N, Dhole TN. Role of Cytokines during Influenza Infection- What we need to Know? Advances in Biotechnology & Microbiology. 2016;1(2):1-3.
- Verma S, Prakash V, Prasad KN, Dhole TN. High Rates of Antibiotic Drug Resistance among Gram-Negative Bacilli in Lower Respiratory Tract Infections in North India. International J. of Current Research and Review. 2016;8(14):9-13.
- Kumar M, Verma S, Dhole TN, Kumar Raj. Non-tuberculous mycobacteria mimic of MDR-TB infection in Pott's disease. BMJ Case Reports. 2016: BMJ Case Rep. 2016 Sep 23; 2016. pii: bcr2016215265. doi: 10.1136/bcr-2016-215265.
- V. Prakash, Verma S, Singh A. Kumar M, Verma AK, Agarwal A, Kashyap S, Aradhye SC, Suryakant. An Epidemiological Study In XDR-TB Patients In A Tertiary Care Hospital. Global Journal for Research Analysis. 2016;6(1):69-71.
- Maurya AK, Nag VL, Kant S, Kushwaha RAS, Kumar M, Verma S, Dhole TN. Using novel mouse monoclonal anti-MPT64 antibody for rapid differentiation between Mycobacterium tuberculosis complex and non-tuberculous mycobacteria from extra pulmonary tuberculosis cases in tertiary care hospitals. Proceeding of Japanese Society of Immunology 2016; 45:161.
- T.N. Dhole, M. Kakkar, S. Chaturvedi, V. Saxena, S. Abbas, A. Kumar, A. Zia, S. Verma . Persistence of Japanese encephalitis virus infection in healthy children in JE Endemic Area. International Journal of Infectious Diseases. 2016; 45:171-172.
- S. Verma, T. Dhole, S. Kashyap, M. Kumar. Evaluation of novel rapid bead based method for capturing of Mycobacterium tuberculosis in sputum. International Journal of Infectious Diseases. 2016;45:32
- Ahmad A, Gupta P, Kumar A, Khare V, Banrjee B, Verma N, Singh M. Evaluation of Galactomannan for the diagnosis of invasive aspergillosis at different cut off values in pediatric cancer patients. RJLBPCS 2017: 124-135.
- Khare V, **Gupta P**, Haider F, Begum R. Study on tigecycline in clinical isolates of carbapenem resistant enterobacteriaceae (CRE) at a tertiary care centre in north India. J Clin Diagn Res. 2017: DC18-21.
- Dwivedi GR, Gangwar B, Gupta MK, **Gupta P**, Singh DP, Verma SK, Darokar MP. Determination of MDR Mechanisms of *P. aeruginosa* Clinical Isolates. EC microbiology 5.6. 2017: 241-247.

23. Details of patents and income generated :

S. No.1

Name of Patent: **Multiplex Real time PCR testing kit for the simultaneous detection of Hepatitis virus**

Indian Patent no: 622/Del/2013

International Patent Cell Treaty (PCT) :PCT/IN/2014/000143

US patent no.14/772, 821

Commercialization: Commercialization Document Ready

Partner: **Amita Jain**, Shantanu Prakash, KGMU, ICMR

S.No.2

Name of Patent: **Integration of β -actin gene for sample quality check in HSV-1 and HSV-2 diagnostic kit**

Indian Patent no: 3198/DEL/2014

International Patent Cell Treaty (PCT) :PCT/N2015/000408

US patent no. : Application in Process

Commercialization: Document Ready

Partner: **Amita Jain**, Shantanu Prakash, KGMU, ICMR

S.No.3

Name of Patent: **A kit for detection of Human parvovirus 4 by Real Time PCR based assay**

Indian Patent no: 3201/DEL/2014

International Patent Cell Treaty (PCT): PCT/N2015/000409

US patent no.: Application in Process

Commercialization: Document Ready

Partner: **Amita Jain**, Shantanu Prakash, KGMU, ICMR

S.No.4

Name of Patent: **A Real Time PCR based assay for detection of Human Parvovirus B19**

Indian Patent no: 2313/DEL/2015

International Patent Cell Treaty (PCT): NA

US patent no.: NA

Commercialization: NA

Partner: Prof. Ravi Kant, **Amita Jain**, Shantanu Prakash, KGMU

24. Areas of consultancy and income generated: NA
 25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad - Nil
 26. Faculty serving in
 - a) National committees b) International committees c) Editorial Boards d) any other (specify)
1. **Prof. Amita Jain** Journal of Microbiology and Antimicrobials (JMA) since 2009
 2. **Prof. Amita Jain** Indian Journal of Laboratory Physician since 2011
 3. **Prof. Amita Jain** International Journal of Basic and Applied Medical Sciences Since 2011
 4. **Prof. Amita Jain** Lead Faculty Virology for Web Med Central
 5. **Prof. Amita Jain** Indian Journal of Pathology and Microbiology Since 2012
 6. **Prof. Amita Jain** Journal of Clinical Epidemiology and Global Health since 2013
 7. **Prof. Amita Jain** International Journal of Scientific and innovative research since 2014
 8. **Prof. Amita Jain** Indian Journal of Chest Diseases and Allied Sciences since 2015
 9. Prof. Vimala Venkatesh: Associate Editor, Clinical Epidemiology and Global Health, Elsevier
 10. **Dr. Sheetal Verma: Associate Editor-**Advances in Biotechnology & Microbiology, **Juniper Publishing Group**, Juniper Publishers Inc.1890 W Hillcrest Dr, Newbury Park, CA 91320, United States since 2015
 11. **Dr. Sheetal Verma: Associate Editor-** Cohesive Journal of Microbiology & Infectious Disease, Crimson Publishers, LLC, Third Avenue, 2nd floor, New York - 10016, USA since 2015
 12. **Dr. Sheetal Verma: Associate Editor-** Modern Approaches in Oceanography and Petrochemical Sciences (MAOPS), Lupine Publishers, Biomedical Research Network, New York - 10016, USA since 2015
 13. **Dr. Sheetal Verma: Editorial Member-** Juniper Online Journal of Case Studies (JOJCS), **Juniper Publishing Group**, Juniper Publishers Inc.1890 W Hillcrest Dr, Newbury Park, CA 91320, United States since 2016.
 14. **Dr. Sheetal Verma: Editorial Member-** Open Access Journal of Surgery (OAJ),**Juniper Publishing Group**, Juniper Publishers Inc.1890 W Hillcrest Dr, Newbury Park, CA 91320, United States since 2016.

15. **Dr. Sheetal Verma: Editorial Member-** Journal of Dermatology and Pigmentation Research, Elyns Publishing Group, 648 Cheryl Dr Iselin, NJ 08830, USA since 2017.
16. **Dr. Sheetal Verma: Editorial Member-** International Journal of Medical Microbiology and Tropical Diseases since 2017.
17. **Dr. Sheetal Verma: Editorial Member-** International Journal of Proteomics and Genomics since 2017.

27. Faculty recharging strategies

1. Dr. Raj kumar Kalyan Guest lecture on Dengue in CME on Dengue and Swine flu at Mayo Institute of Medical Sciences on 22nd Sep. 2017.
2. Dr. Raj kumar Kalyan Attended CME on Transplant Associated Infections April 2017 at RMLIMS Lucknow
3. Dr. Sheetal Verma: Attended “2nd Global Infection Prevention Conclave” held on 12th October 2017 at Gurgaon, India.
4. Dr. Sheetal Verma: Attended CME on “Central Sterile Services Department (CSSD) Meet- Progress & Reality” held 4th December, 2017 at Kalam Centre, KGMU.
5. Dr. Sheetal Verma: Poster Presentation on “*Cell Culture Vaccines- A New Ray of Hope for Immunoprophylaxis Against Rabies*” in 5th National Conference of Consortium Against Rabies held 4-5th March 2017 at Integral Institute of Medical Sciences & Research, Lucknow.
6. Dr. Sheetal Verma: Poster Presentation on “*Recent Advances in Laboratory Diagnosis of Human Rabies*” in 5th National Conference of Consortium Against Rabies held 4-5th March 2017 at Integral Institute of Medical Sciences & Research, Lucknow.

28. Student projects - Nil

29. Awards / recognitions received at the national and international level by
- **Prof. Amita Jain** Prof U C Chaturvedi oration and Life Time achievement award UP chapter of Indian Association of Medical Microbiologist, 2017
 - **Prof. Amita Jain** **Certificate of Excellence in Research**, King George’s Medical University, Lucknow, 2017

- Dr. Sheetal Verma- Received Certificate for Appreciation for delivering Public Health Lecture on *“Prevention of Infectious Diseases in Developing Countries”* under University Outreach Program in KGMU Health Meet-2017 held 14th January, 2017 at S.P. Ground, King George’s Medical University, UP, Lucknow.
- Dr. Sheetal Verma- Received Certificate for Appreciation for dedicated services on 112th Foundation Day, Centenary Graduation Year 1916-2016 held 24th December, 2017 at Convention Center, King George’s Medical University, UP, Lucknow.

30. Seminars/ Conferences/Workshops organized and the source of funding

- Organized 6 batches of training for Pathologists and technologists on ELISA for JE, Dengue and Chikungunya viruses from 23rd October 2017 to 10th Nov 2017.
- Organizing Chairperson for a CME and hands on workshop on Acute encephalitis syndrome from 2-5 March 2017
- One day Interactive workshop for ICTC laboratory Technicians 8th and 9th Dec 2016, 27th-28th Feb 2017
- CME on **“Central Sterile Services Department (CSSD) Meet-Progress & Reality”** organized by CSSD, KGMU in collaboration with Halyard Education Foundation, USA on 4th December, 2017 at Kalam Centre, KGMU.

31. Code of ethics for research followed by the departments - As per University norms

32. Student profile program-wise: NA

Name of the Program (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female

33. Diversity of students

Name of the Program (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries

Name of the Program (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE, USMLE, PLAB, GPAT, NCLEX, CGFNS, IELTS and other competitive examinations? Give details category-wise-
NA

35. Student progression-NA

Student progression	Percentage against enrolled
UG to PG	
PG to M.Phil,DM / M Ch / DNB	
PG to Ph.D.	
Ph.D. to Post-Doctoral	
Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	
Entrepreneurs	

36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	75 %
from other universities within the State	12.5 %
from universities from other States	12.5 %
from universities outside the country	-

37. Number of faculty who were awarded M.Phil.,DM, M Ch, Ph.D., D.Sc. and D.Litt. during the assessment period : One

38. Present details of departmental infrastructural facilities with regard to

a) Library - Yes (480 books & 140 journals)

b) Internet facilities for staff and students -Yes

c) Total number of class rooms: One Lecture theatre in dept. building, 1 Seminar Room, At central teaching Building: Many lecture theatres, 5 dedicated demo rooms.

d) Class rooms with ICT facility and 'smart' class rooms : One

e) Students' laboratories : 1 UG Practical laboratory in dept, 1 PG lab

f) Research laboratories : 5

39. List of doctoral, post-doctoral students and Research Associates

- Dr. Shilpi Srivastava
- Dr. Sayan Bhattacharya
- Dr. Parul Jain
- Dr. Shruti Radera
- PhD Students- 6

40. Number of post graduate students getting financial assistance from the university. 18

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, highlight the methodology. NA

42. Does the department obtain feedback from

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? - Yes, incorporation into curriculum by interdepartmental meeting as per MCI norms
- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? -Yes, special classes if needed
- c. alumni and employers on the programs offered and how does the department utilize the feedback? No

43. List the distinguished alumni of the department (maximum 10)

- Prof. UC Chaturvedi- Ex HOD, Microbiology, KGMU & Scientific Consultant to ICMR, GOI., FNA, recipient of Shanti Swarup Bhatnagar Prize for Science and Technology
- Prof. Asha Mathur- Ex HOD, Microbiology, KGMU, FNA,
- Prof. VL Nag- HOD, AIIMS Jodhpur
- Prof. Sanjay Singhal- Prof & HOD, ESI-PGIMS, New Delhi
- Dr. Lucky Sangal- WHO India lab Coordinator
- Dr. Amit Garg- HOD Meerut Medical College, U.P
- Dr. Vineeta Mittal- Professor, DRRMLIMS, Lucknow, U.P

44. Give details of student enrichment programs (special lectures / workshops / seminar) involving external experts. Nil

45. List the teaching methods adopted by the faculty for different programs including clinical teaching-

- Lectures (mostly by powerpoints)
- Tutorials (powerpoint/chalk & talk)
- Practical / hands on Classes Journal Presentations (powerpoint)
- Seminars (powerpoint)
- Interdisciplinary teaching
- Faculty Seminars
- Faculty Journal Presentation
- Guest Lectures
- Integrated Teaching
- Self-directed learning activities
- Problem-based learning and case-based learning
- Work group interaction

46. How does the department ensure that program objectives are constantly met and learning outcomes are monitored?

- Formative assessments
- Class tests after each module,
- 2 terminal exams after each term and
- Professional exam at the end of the microbiology course
- Formative assessments in the form of grading after every seminar/lecture
- Regular Log Book inspection,
- Seminar, Journal, case presentations
- Mid term assessment,
- Exit exam at the end of 3 years
- The Head of the Department through regular interface with students and periodic reviews with individual teachers throughout the year ensures that programme objectives are met and monitors learning outcomes.
- The information is shared in Departmental meetings on a regular basis and strategies made and implemented for the re-dressal of

lapses and complaints.

- Extra efforts for slow learners
- Remedial teaching is conducted by faculty & resident doctors

47. Highlight the participation of students and faculty in extension activities.

- a. Faculties contribute to Community work such as values of national integration, secularism, democracy, socialism, humanism, flood or drought relief, small family norms, National Literacy mission.
- b. Public Health Lecture on *“Prevention of Infectious Diseases in Developing Countries”* under University Outreach Program in KGMU Health Mela-2017 held 14th January, 2017 at S.P. Ground, King George’s Medical University, UP, Lucknow.
- c. Hand Hygiene Survey and Camp for Infection Control under University Outreach Program in KGMU Health Mela -2017 held 14th January, 2017 at S.P. Ground, King George’s Medical University, UP, Lucknow.

48. Give details of “beyond syllabus scholarly activities” of the department.

- Prof. Amita Jain: Chairman, Institutional bio-safety committee of KGMU since 2016
- Prof. Amita Jain: Member Secretary, Hospital Infection Control committee of KGMU since 2017
- Prof. Amita Jain: Member, Institutional ethical committee of KGMU, since 2011.
- Prof. Amita Jain: Faculty In-charge, Center for Advance Research King George’s Medical University, Lucknow, Since 2017
- Prof. Amita Jain: Member, Research Committee of Sanjai Gandhi Post graduate Institute of Medical Science, Lucknow, Since 2016
- Prof. Amita Jain: Member Research Committee of RML Institute of Medical Sciences, Lucknow, Since 2012
- Prof. Amita Jain: Member subject Expert committee (antimicrobials) Subsequent New Drug Division (SND) Central Drugs Standard Control Organisation (HQ) Directorate General of Health Services Ministry of Health and Family welfare (Govt. Of India)
- Prof. Vimala Venkatesh: Vice Dean, Faculty of Medical Sciences
- Dr. Prashant Gupta: Infection Control Officer, Hospital Infection Control committee, KGMU.
- Dr. Sheetal Verma: Vice President, Telemedicine Society of India-UP-Chapter

- Dr. Sheetal Verma: Assistant Dean in Faculty of Paramedical Sciences, KGMU, Lucknow
- Dr. Sheetal Verma: Assistant Proctor, KGMU, Lucknow
- Dr. Sheetal Verma: Member Secretary of Central Sterile Services Department, KGMU, Lucknow
- Dr. Sheetal Verma: Nodal officer In-Charge of Telemedicine Unit, KGMU, Lucknow
- Dr. Sheetal Verma: Co-Faculty In-Charge of Hospital Revolving Fund Committee, KGMU, Lucknow
- Dr. Sheetal Verma: Member of CSMMU Welfare Society, KGMU, Lucknow
- Dr. Sheetal Verma: Member- KGMU Anti-ragging Squad, KGMU, Lucknow
- Dr. Sheetal Verma: Member- Library Advisory Core Committee, KGMU, Lucknow
- Dr. Sheetal Verma: Member- University Environment Committee, KGMU

49. State whether the program/ department is accredited/ graded by other agencies? If yes, give details. NABL Accredited (ISO 15189:2012) for 14 tests.
50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied- Periodic Publications, Patents, Curriculum based teaching, workshops, CME, Symposia
51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

STRENGTHS (+)		WEAKNESS(-)	OPPORTUNITIES	THREATS
	Human Resource			
1	Trained & experienced Faculty	Shortage of faculty	State faculty training	Nil
2	Trained Technical Staff	Shortage of Senior Residents	Train staff of affiliated Colleges	
3		Shortage of Technician, Clerical & Lower staff	State Faculty Pool creation as per MCI norms through Senior Resident post	

4		Inefficient/ deficient support from lower administrative and paramedical staff		
	Infrastructure & Administration			
5	Well equipped infrastructure for teaching, clinical care and research	Computer skills lack among staff/ technicians		
6	Travel and research support for capacity building and career development	No dedicated health care facility for Faculties/ Resident/ Staff like in SGPGI		
7	Supportive University Adminsitration	No student/ faculty recreation facilities in Department		
8	Well equipped Lecture Theatres/ Demonstration Room			
9	Access to library, e-library			
10	Internet Facility available			
	Teaching & Training			
11	Various teaching programs (MBBS/MD/BDS/MD S/Paramedical/ Nursing)	Departmental Faculty Enhancement Programme	Develop new courses in future	Nil
12	Credit based teaching-training program (UG)	No dedicated time allocation for administrative work	Scope for integrated teaching	
13	Transparency in evaluation and attendance keeping	Need to support slow learners	Scope to increase Journals/Books	
14	Seminar/Journal Clubs/Case Presentation for PG as per MCI norms	Shortfall in mentoring, evaluation & assess progression of learning		
15	Regular CME/Workshops/Symposia conducted	No student mentoring/feedback		

	Patient Care & Diagnostics			
16	More than 100 diagnostic tests available		Increased Automation in laboratories	Nil
17	Round the Clock Services		Accreditation (International)	
18	Automation & Advances Technologies available			
19	Actively participates in EQAS			
20	NABL Accreditation			
21	Large number of sample load is handled for patient care			
22	Excellent research track record of faculty			
23	Intermediate Reference TB Laboratory			
24	Virus Research and Diagnostic Laboratory (VRDL) - Apex in State of UP			
25	Hospital Infection Surveillance/Hospital Infection Programme			
	RESEARCH			
26	Excellent research track record of faculty		International Collaboration for Research	Nil
27	Extramural Grants(RNTCP/DHR/ NACO/NIV Pune/WHO/CDC/UP CST/IDSP)			
28	Intramural Funding			

52. Future plans of the department.

1. Post Doc Certified Course (Infectious Diseases)
2. Molecular Virology (Certified Diploma)
3. Fellowship in HIV Medicine

4. Clinical Bacteriology (Certified Diploma)
5. Clinical Mycology (Certified Diploma)
6. Bacterial Serology (Certified Diploma)
7. Clinical Parasitology (Certified Diploma)
8. Certified courses for Allied Health Sciences
9. Distant Online Courses
10. E-Learning
11. Telemedicine

4. Declaration by the Head of the Institution

I certify that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.



Signature of the Head of the institution

With seal:

Vice Chancellor
King George's Medical University, Uttar Pradesh
Lucknow

Place: Lucknow

Date:

Date: 19-07-2018