1. Curricular Aspects

1.1 Details about Academic programs:-

- MBBS- final year MBBS Teaching (Enclosure1.teaching schedule MBBS IN department Of Radiotherapy)
- MD Radiotherapy- 3 year course & residency Programme (Enclosure 2. MDRT documents)
- Bachelor in Radiation therapy & Technology (BRTT) - 3 years Bachelor Programme (Enclosure 3. BRTT documents)

1.2. Pattern-

- MBBS- As per MCI
- MD Radiotherapy- As per MCI
- BRTT-Annual

1.3 Curriculum Benchmarking: - MCI / UGC

1.4 Curriculum design process/revision process including involvement of Stakeholders:-

As per MCI/UGC norms
- Through departmental board of studies (Enclosure 4. BOS revision of syllabus BRTT)
- Through Faculty Of Medicine Meeting
- Through Academic Council of the University

1.5 Structure of the curriculum: - Refer to enclosures 1, 2&3

- MBBS- As per MCI (Competency based curriculum)
- MD Radiotherapy- As per MCI
- BRTT- As per AERB

1.6 Components of the curriculum: - Refer to enclosure1, 2&3

- MBBS- As per MCI (Competency based curriculum)
- MD Radiotherapy- As per MCI
- BRTT

1.7 Emphasis on diversity, flexibility and multi-skill development: - Yes, present in all the courses. Refer to enclosure 1, 2&3
1.8 Inter-disciplinary options:-

- MBBS- As per MCI (Horizontal, Vertical, Integrated curriculum), (Refer to enclosure 1)
- MD Radiotherapy- As per MCI (Refer to enclosure No.2), CCM
- BRTT- combination of medical science discipline, radiation physics & radiation technology
  (Refer to enclosure No.3)

1.9 Curriculum based on Outcome-based education: - yes, As per MCI design (refer to enclosure No.1, 2 &3)

1.10 CBCS based curriculum: - not followed

1.11 Skill based and Industry relevant curriculum: - Yes, all 3 courses are skill based and industry relevant

1.12 Frequency of revision with percentage change in contents: - MDRT- as per MCI
- BRTT- once in 3 years, but keeping in mind the broad goals of course

2. Teaching-Learning and Evaluation

2.1 Adherence to Academic Calendar: - Yes, (August to May)

2.2 Number of Working days per semester: - 182 days / 6 month (daily clinical duties, even on holidays and vacations)

2.3 Number of faculty members (Full-time/Part-time/visiting etc.) :- All full time
(Refer to enclosure 5. Faculty orders of appointments and enclosure 6.CV of each faculty member)

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualification</th>
<th>Designation</th>
<th>Specialization</th>
<th>No. of Years of Experience</th>
<th>No. of Ph.D./M.Phil./M.D/ MS students guided for the last 4 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Dr. Shahid Ali Siddiqui</td>
<td>M.D. (R.T.)</td>
<td>Professor</td>
<td>Radiotherapy</td>
<td>34</td>
<td>8</td>
</tr>
<tr>
<td>2. Dr. Mohd. Akram</td>
<td>M.D. (R.T.)</td>
<td>Associate Prof.</td>
<td>Radiotherapy</td>
<td>10</td>
<td>3</td>
</tr>
<tr>
<td>3. M.A. Bilal Hussain</td>
<td>M.Sc. (Medical Asstt. Prof.</td>
<td>Radiotherapy</td>
<td>26</td>
<td>Nil</td>
<td></td>
</tr>
</tbody>
</table>

Table 1. Faculty profile
<table>
<thead>
<tr>
<th>Name</th>
<th>Qualification</th>
<th>Designation</th>
<th>Specialization</th>
<th>No. of Years of Experience</th>
<th>No. of Ph.D./M.Phil./M.D/MS students guided for the last 4 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>5. Dr Mohsin Khan</td>
<td>M.D. (R.T.)</td>
<td>Asstt. Prof.</td>
<td>Radiotherapy</td>
<td>6</td>
<td>Nil</td>
</tr>
</tbody>
</table>

2.4 Teacher- Student ratio: - 5 Faculty + 2 Senior Resident (7 teachers)

MDRT- 1:1
BRTT- 7:4

2.5 Cadre Ratio (Professor: Associate Professor: Assistant Professor): - 1:1:3 (refer to table 1)

2.6 Retention percentages Cadre-wise: - 100%

2.7 Innovation by the faculty in teaching/learning:-

Table 2. Innovation by the faculty in teaching/learning

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
<th>Innovation in Teaching/learning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Shahid Ali Siddiqui</td>
<td>Professor</td>
<td><strong>MDRT-</strong> Bedside problem based learning during rounds&lt;br&gt;<strong>BRTT-</strong> small group teaching with bidirectional interaction, PPT&lt;br&gt;<strong>MBBS-</strong> Power point presentation</td>
</tr>
<tr>
<td>Dr. Mohd. Akram</td>
<td>Associate Prof.</td>
<td><strong>MDRT-</strong> small group discussion, open book exam, teaching on patient&lt;br&gt;<strong>BRTT-</strong> small group teaching with bidirectional interaction&lt;br&gt;<strong>MBBS-</strong> Power point presentation</td>
</tr>
<tr>
<td>M.A. Bilal Hussain</td>
<td>Asstt. Prof.</td>
<td><strong>MDRT-</strong> weekly interactive small group teaching&lt;br&gt;<strong>BRTT-</strong> small group teaching, with bidirectional interaction, PPT&lt;br&gt;<strong>MDRT-</strong> small group discussion, teaching on patient&lt;br&gt;<strong>BRTT-</strong> small group teaching with bidirectional interaction</td>
</tr>
<tr>
<td>Dr. Md Shadab Alam</td>
<td>Asstt. Prof.</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Designation</td>
<td>Innovation in Teaching/learning</td>
</tr>
<tr>
<td>------------------</td>
<td>-------------</td>
<td>--------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Dr Mohsin Khan</td>
<td>Asstt. Prof.</td>
<td>interaction, PPT</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>MBBS</strong>- Power point presentation</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>MDRT</strong>- small group discussion, teaching on patient</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>BRTT</strong>- small group teaching with bidirectional interaction</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>MBBS</strong>- Power point presentation</td>
</tr>
</tbody>
</table>

2.8 Teaching-Learning with ICT support: - available

2.9 Faculty development/continuing education programs: -
1. Medical education unit, Faculty of Medicine
2. UGC- refresher courses, and orientation programmes
3. Extension Lectures- in the department in the Faculty of medicine, and at university level
4. Workshops, CMEs, conferences

2.10 Quality of Question papers and assignments: - moderate, involving whole subject focused on Problem based learning


2.12 Absolute/ Relative grading mechanism: - Absolute

2.13 Continuous assessment and weightages: - as per MCI (formative + summative)

2.14. Pass/ Fail criteria: -
MDRT- as per MCI, minimum 50% marks in both theory and practical examinations
BRTT- 40%, as per university rules

2.15. Examiners/Evaluators selection methodology: -

Through Board of study (refer to enclosure 7.)

2.16. Proportion of Internal/External examiners:-

MDRT- 1:3
BRTT-

2.17. Awards of percentages criteria: - not applicable
2.18 Quality of Evaluation: - Fair

2.19 Training of papers setters: -
1. by Medical Education Unit, Faculty of medicine
2. MCI basic course workshop for teachers

2.20 Teacher availability outside the class for interaction with the students: -
Student contact hours

2.21 Interactive classrooms; flow of information/knowledge both ways: - Yes
2.22 Percentage content available online: - 25%

2.23 Robust system of Problem Based Learning: - Yes, in clinical teaching & Bed side teaching & continuous patient exposure

2.24 Practical on actual hand experience basis/real experimentation: - yes, through continuous patient exposure

3. Research, Consultancy and Extension

3.1 Academic Research:-

Papers (refer to enclosure8.Papers)
Number of papers published in peer reviewed journals (national / international) in last 5 years – 34

- Title: FNAB of metastatic lesions with special reference to clinicopathological analysis of primary site in cases of epithelial and non-epithelial tumors
  Author: Shamshad Ahmad, Kafil Akhtar, Swati Singh, Shahid Siddiqui
  Publisher: www.jcytol.org, DOI: 10.4103/0970-9371.80740

- Title: Total Peripheral Lymphocyte Count in Malignant Tumors: An Index of Prognostication
  Author: S. Shamshad Ahmad, Kafil Akhtar, A.K. Verma, Amjad Zia Malik and Shahid Ali Siddiqui
  Publisher: ANSI net Asian Network for Scientific Information.


- Alam MS, Perween R, Siddiqui SA. Retrospective study comparing primary debulking surgery (PDS) and adjuvant chemotherapy vs. neoadjuvant chemotherapy (NACT) followed by interval debulking surgery (IDS) and adjuvant chemotherapy in advanced carcinoma ovary. Intl J Contemp Med Res 2016;3(1):265-70.


➢ Mohsin Khan, Shahid A Siddiqui, Mohd Akram, Mohd Shadab Alam. Can zinc supplementation widen the gap between control and complications in head and neck cancer patients treated with concurrent chemoradiotherapy. DOI: 10.4103/jmedsci.jmedsci_20_19 (AOP)

➢ Title : Concurrent chemoradiotherapy with or without induction chemotherapy for the management of cervical lymph node metastasis from unknown primary tumor
Author : Mohsin Khan, Shahid A Siddiqui

➢ Title : Normal tissue complications following hypo-fractionated chest wall radiotherapy in breast cancer patients and their correlation with patient, tumor, and treatment characteristics
Author : Mohsin Khan, Shahid A Siddiqui, Manoj K Gupta, Rajeev K Seam, Manish Gupta
Journal : Indian Journal of Medical and Paediatric Oncology 2017 Apr-Jun;38(2):121-127

➢ Title : Combining Two Different Chemotherapy Agents with Platinum Analogues as Induction and Consolidation Regimes in Non-small Cell Lung Carcinoma
Author : Mohsin Khan, Shahid A Siddiqui

**Project- four, (refer to enclosure 9. Projects)**

(i) National collaboration

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Funding Agencies</th>
<th>Project Title</th>
<th>Total Grants Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>ICMR (National)</td>
<td>National Cancer Registry Programme under National Cancer Control Programme.</td>
<td>Rs. 40 Lacs</td>
</tr>
<tr>
<td>2.</td>
<td>Indian Pediatric Oncology Group Study</td>
<td>Accessing Childhood Cancer Services in India (Access India Study)</td>
<td></td>
</tr>
</tbody>
</table>

(ii) International collaboration

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Funding Agencies</th>
<th>Project Title</th>
<th>Total Grants Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>National Institute of Health, USA.</td>
<td>Low cost enabling technology for Image-guided Photo Dynamic Therapy (PDT) of Oral Cancer in collaboration with Massachusetts General Hospital, Boston, USA.</td>
<td>2 Million US Dollar</td>
</tr>
<tr>
<td>2.</td>
<td>Jiv Daya Foundation, USA.</td>
<td>Capacity building in Palliative Cancer care project.</td>
<td>Rs. 10 Lacs</td>
</tr>
</tbody>
</table>
3.2 Sponsored Research: - refer to Projects (3.1)

3.3 Consultancy: - NIL

3.4 Faculty and Students participation: -
   • MD Thesis
   • in all projects of the department,
   • in clinical trials of the department

3.5 Collaborative initiatives: - refer to 3.1 (projects)

3.6 Joint Projects, Joint papers, Joint Consultancy: - refer to 3.1 (projects- Low cost)

3.7 Research Awards/ reorganization:-
   In Low Cost Project- Dr. S.A. Siddiqui, M. A. Bilal Hussain (refer to enclosure 11, Awards)

3.8 IPR (Patents, Copyright, Trademark, and Design):- NIL

3.9 Quality Publications in refereed Journals (H-Index, Impact factor, etc.):- also refer to 3.1 Papers

   Citation Index – range / average –

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Range</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Shahid Ali Siddiqui</td>
<td>0-7</td>
<td>3.5</td>
</tr>
<tr>
<td>Dr Mohd. Akram</td>
<td>0-7</td>
<td>4.0</td>
</tr>
<tr>
<td>Dr Md Shadab Alam</td>
<td>0-7</td>
<td>3.5</td>
</tr>
<tr>
<td>Dr Mohsin Khan</td>
<td>0-7</td>
<td>4.0</td>
</tr>
</tbody>
</table>

   Impact Factor – range / average -

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Journal Impact Factor - Range</th>
<th>Journal Impact Factor - Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Shahid Ali Siddiqui</td>
<td>.42 - 3.28</td>
<td>.5</td>
</tr>
<tr>
<td>Dr Mohd. Akram</td>
<td>.42 - 1.8</td>
<td>.53</td>
</tr>
<tr>
<td>Dr Md Shadab Alam</td>
<td>0.432 – 3.18</td>
<td>1.8</td>
</tr>
<tr>
<td>Dr Mohsin Khan</td>
<td>.42 - 1.8</td>
<td>.53</td>
</tr>
</tbody>
</table>

   h-index – faculty – largest – highest – Average

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Highest</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Shahid Ali Siddiqui</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dr Mohd. Akram</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dr Md Shadab Alam</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Dr Mohsin Khan</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
4. Infrastructure and Learning resources

4.1 Classrooms, Tutorials and Laboratories (if applicable):-
- Seminar Room in department with smart class facility
- Lecture theatre in Faculty
- Demonstration rooms in Faculty
- Labs in department-
  1. Teletherapy Treatment Unit
  2. Brachytherapy Unit
  3. Simulator X-ray Unit
  4. Mould room
  5. Treatment Planning System
  6. Day Care & Ward Facilities
  7. Photodynamic Therapy Unit

4.2 Computer centre/labs: - computer center at university level

4.3 Library: -
Departmental library (see enclosure 12)

4.4 Seminar halls/Auditorium: Seminar room of around 40 capacities

4.5 ICT supported infrastructure: - Yes

4.6 Research Infrastructure; Research intensive labs: -
1. Three research labs/rooms for projects – Low cost, JIV Daya and ICMR

5. Student support and Progression

5.1 Number of Students (within state, outside the state, outside the country) :-

1) Dr. Prashant, Radiation Oncology Consultant, Apollo Hospitals, Hyderabad
2) Dr. Wajih Ahmad Siddiqui, King Khalid University KSA.
3) Dr. Kafil Akhtar, Professor, JNMC.
4) Dr Nawed Alam, Consultant Radiation Oncologist, Kamla Nehru Hospital, Allahabad.
5) Dr Ghufran Nahid, Assistant Professor, Medical College, Silliguri.
6) Dr Hamid Mustafa, Consultant Radiation Oncologist, HCG Cancer Hospital, Tanzania.
7) Dr Masroor Ahmad Karimi, Fellow of Radiation Oncology, United States of America.
8) Dr Farhan Ahmad, Senior Registrar, Radiation Oncology Department, SGPGI, Lucknow.
9) Dr Kashif Razi, Chief Medical Officer, JNMC, AMU, Aligarh.
10) Dr Badar Ahmad, Chief Medical Officer, JNMC, AMU, Aligarh.

5.2 Quality of Students: - Admit through All India Entrance, NEET-PG

5.3 Student support Mechanisms-Implementation and effectiveness:-
MBBS- Student mentorship Program at Faculty of Medicine (refer to enclosure 13)
Anti ragging committee, (refer to enclosure 14)
Grievance committee (refer to enclosure 14)

5.4 Gender sensitization programs: - ICC (AMU), women cell

5.5 Student participation in co-curricular activities: -
- Cancer awareness camps, cancer detection camps
- Help in conducting various CMEs related to Cancer and its management inviting various faculties and specialists from different parts of country, generating opportunities for local doctors and newly trained residents of the field of Radiotherapy,
- Contribute in Hospital and Population based Cancer Registry Programme run by the department which further helps in the addition of cancer related data to the Cancer Register of India.

5.6 Student grievance re-addresal mechanism: - student contact time. committee system, both at departmental and university level (refer to enclosure 14)

5.7 Feedback system: - Yes, Alumni, teachers and student feedback system, through a feedback form which includes a set questionnaire. Feedback is obtained regularly on annual basis (refer to enclosure 15)

- Faculty on curriculum as well as teaching-learning-evaluation- Through regular BOS and inputs are incorporated accordingly.
- Students on staff, curriculum and teaching-learning-evaluation- The Pitfalls and Drawbacks are evaluated and tried to overcome.
- Alumni and employers on the programmes offered- Their Feedback is taken into account to make decisions regarding future course of conduction of teaching programmes and development of various training activities, which are as per the need of health problems of our country

5.8 Mentoring system:-
MBBS- Student mentoring system at Faculty level (refer to enclosure 13)
MDRT- each MD candidate has thesis supervisor who also mentors the allotted candidates
BRTT- mentor is allotted to each BRTT student

5.9 Enrolment ratio (Intake vs. Admitted):- 100% both for MDRT & BRTT student

5.10 Students clearing exams in minimum time without back-log: - 100% (MDRT)
5.11 Students clearing exams in minimum time with backlog: - Nil
5.12 Students performance in the University examination:-

<table>
<thead>
<tr>
<th>Name of the Programme (refer to question no. 4)</th>
<th>Year</th>
<th>Appeared</th>
<th>Pass percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.D.</td>
<td></td>
<td></td>
<td>Male</td>
</tr>
<tr>
<td>2019</td>
<td>02</td>
<td>02</td>
<td></td>
</tr>
<tr>
<td>2018</td>
<td>02</td>
<td>02</td>
<td></td>
</tr>
<tr>
<td>2017</td>
<td>00</td>
<td>02</td>
<td></td>
</tr>
<tr>
<td>2016</td>
<td>00</td>
<td>01</td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td>00</td>
<td>01</td>
<td></td>
</tr>
<tr>
<td>DMRT</td>
<td>2016</td>
<td>01</td>
<td>100</td>
</tr>
<tr>
<td>2015</td>
<td>00</td>
<td>02</td>
<td></td>
</tr>
<tr>
<td>B.R.T.T</td>
<td>2016</td>
<td>01</td>
<td>100</td>
</tr>
<tr>
<td>2015</td>
<td>01</td>
<td>02</td>
<td></td>
</tr>
<tr>
<td>2018</td>
<td>01</td>
<td>01</td>
<td>100</td>
</tr>
<tr>
<td>2017</td>
<td>01</td>
<td>02</td>
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<tr>
<td>2016</td>
<td>00</td>
<td>02</td>
<td>100</td>
</tr>
<tr>
<td>2015</td>
<td>03</td>
<td>00</td>
<td>100</td>
</tr>
</tbody>
</table>

5.13 Student placement (Placement, Higher Studies, Entrepreneurship; data for Five years) :- 100% both for MD & BRTT

5.14 Student participation in Professional activities: -

1. Participation and organization of conferences, lectures and workshops in the department

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Seminars/Conferences/ Workshops Organized</th>
<th>External Experts</th>
</tr>
</thead>
</table>
(HOD, Surgical Oncology, Fortis Hospital, Vasant Kunj & CK Birla Hospital, Gurgaon)  
2. Dr Shikha Goyal  
(Senior Consultant, Radiation Oncology, Medanta Hospital, Gurgaon)  
3. Dr Suman S Karanth  
(Senior Consultant, Medical Oncology, Medanta Hospital, Gurgaon)  
4. Prof Achal Gulati  
(Director, D/O ENT, Baba Saheb Bheem Rao Ambedkar Medical College, New Delhi.) |
| 2.    | National CME on “Recurrent Epithelial Ovarian Carcinoma – A Management Dilemma” on 30th March 2019 at LT-1, JNMC, AMU. | 1.Malay Nandy  
(Director, Institute of Oncology, Jaypee Hospital, Noida.)  
2.Dr Ashish Goel  
(Associate Director & Head of Surgical Oncology, Jaypee Hospital, Noida.)  
3. Prof Tamkeen Khan  
(Chairman, Department of O&G, JNMC, AMU, Aligarh.)  
4.Prof. Nishat Afroz  
(Department of Pathology, JNMC, AMU, Aligarh.)  
5.Dr Mehtab Ahmad  
(Department of Radiodiagnosis, JNMC, AMU,) |
<table>
<thead>
<tr>
<th></th>
<th>Event Description</th>
<th>Speaker and Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.</td>
<td>Extension Lecture on Refractory Lymphoma on October 2018 at Seminar Hall, Orthopaedics department.</td>
<td>Dr Reyaz Ahmad, Senior Consultant Oncologist, RGCI, New Delhi.</td>
</tr>
<tr>
<td>4.</td>
<td>Extension Lecture on Multiple Myeloma</td>
<td>Dr Stephen G. Bown, Professor of Laser Medicine and Surgery, Dept of Surgery, University College, London Medical School, London UK (Emeritus)</td>
</tr>
<tr>
<td>5.</td>
<td>Extension Lecture on Photo Dynamic Therapy (PDT) – PART 1 on March 2017</td>
<td>Dr Colin Hopper, Consultant Oral and Maxillofacial Surgeon, University College London Hospitals.</td>
</tr>
<tr>
<td>6.</td>
<td>Extension Lecture on Photo Dynamic Therapy (PDT) – PART 2 on March 2017</td>
<td>Dr Lokesh Agrawal, Program Director, Biorepositories and Biospecimen Research Branch, Cancer Diagnosis Program, DCTD, NCI</td>
</tr>
<tr>
<td>7.</td>
<td>Role of Biospecimen Research and Biomarkers in Clinical Research on 6th November 2017 at LT-1, JNMC, AMU, Aligarh, INDIA.</td>
<td>Dr Vidya Vedham, Program Officer, Centre for Global Health, NCI, USA.</td>
</tr>
<tr>
<td>8.</td>
<td>Resource-Appropriate Technologies For Cancer Detection, Diagnosis, Treatment, and Care on 6th November 2017 at LT-1, JNMC, AMU, Aligarh, INDIA.</td>
<td>Dr Vidya Vedham, Program Officer, Centre for Global Health, NCI, USA.</td>
</tr>
</tbody>
</table>

2. Participation in conferences, lectures and workshops outside the department- AROICON, UP chapter AROICON, ICRO teaching course, ASTRO-AROI Course (regular participation on Annual basis)

5.15 Local Guardian program for Students; specially Out-Station Students: - Nil

5.16 Grievance redressal mechanism: - both at departmental and university level (refer to enclosure 14)

5.17 Counseling facility: - departmental committee (refer to enclosure 14)

5.18 Remedial coaching: - not available

5.19 Induction Program: -
   For MBBS & MD students- at faculty level
   For BRIT students- at departmental Level (started from this year) (refer to enclosure 16)
6. Governance, Leadership and Management

6.1 Vision and Mission of the Department-

6.2 Decentralization and Transparency- maintained at each level (department> Faculty> university) through mechanism of various bodies (board of studies at department, Faculty meeting at Faculty and then Academic council and executive council at university level)

6.3 Delegation: - Regularly

6.4 Regularly conduct of meetings of statutory meetings and ensuring participation of external members: - Yes, through board of studies at department level (refer to register of BOS meetings)

6.5 Transparent faculty appraisal systems and its effective implementation: - Yes, through UGC and MCI guidelines which are adopted by university

6.6 Availability of Management Information System: - NA

6.7 Welfare schemes for faculty, Staff and students: - NA

6.8 Quality improvement strategies adopted by the Department for each of the following:

- **Curriculum Development**: Regular Board of study, faculty meeting and academic counsel
- **Teaching and Learning**: through monthly meeting
- **Examination and Evaluation**: Regular Board of study
- **Research and Development**: time to time stimulation and mentoring of both faculty and students
- **Library, ICT and physical infrastructure / instrumentation**: through purchase committee
- **Human Resource Management**: Board of study
- **Faculty and Staff Recruitment**: Board of study> faculty> University> UGC
- **Industry Interaction / Collaboration**: Board of study
- **Admission of Students**: Board of study

6.9 Leadership Interaction with the society: - regular interaction with the government officials, Politicians, Beurocrates, NGOs, religious leaders and corporate leader for the help of the cancer patients and to help to create cancer awareness in the society
7. Innovations and Best practices

7.1 Innovation in Academics in recent past has resulted in positive impact from student Learning perspective-

- Smart classrooms
- Competency based curriculum
- Problem based learning on weekly basis in radiation physics
- 6 monthly evaluative exam for MDRT students

7.2 Identification and implementation of best practices (Institution centric, faculty centric, Student centric)- cancer registry programme, palliative care, cancer awareness

7.3 Availability and implementation of Strategic Plan for last 5 years

7.4 Availability of Strategic Plan for next 5 years:-

- The Department plans to grow into a Dedicated Oncology Centre (Tertiary Cancer Care Centre) providing all modalities of Cancer management under one roof with latest state of the art technology equipments.
- To purchase a high energy linear accelerator
- To develop a Dedicated Palliative Care unit including Hospice Care looking into the bulk of cancer patients who need such care presenting at our centre every day.
- Unit of cancer prevention and awareness- We can use available resources to develop various Cancer Awareness and Screening Programmes to detect cancer in early and curable stages as the JNMC Hospital has got all the facilities available to diagnose cancer in early stages through various investigative tools.
- To sensitize and trained PHC staff, GMP
Evaluative Report of the Department

1. Name of the Department: Radiotherapy
2. Year of establishment: 1994
3. Is the Department part of a School/Faculty of the university? Yes, F/o Medicine
4. Names of programmes offered
   - U.G.: BRTT
   - P.G.: M.D. (Radiotherapy)
5. Interdisciplinary programmes and departments involved: NIL
6. Courses in collaboration with other universities, industries, foreign institutions, etc.—Nil—
7. Details of programmes discontinued, if any, with reasons: DMRT (Upgraded to MDRT by MCI)
8. Examination System: Annual/Semester/Trimester/Choice Based Credit System
   - U.G.: (BRTT) Periodical & Annual Assessment (As per AERB Guideline)
   - P.G.: (MDRT) As per MCI Guideline
9. Participation of the department in the courses offered by other departments:
   b) Diploma in Physiotherapy, J. N. Medical College, AMU, Aligarh.
   c) Diploma in X-ray Technology students of Majeedia Hospital, Jamia Hamdard, New Delhi.
10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/ Asst. Professors/others)

<table>
<thead>
<tr>
<th></th>
<th>Sanctioned</th>
<th>Filled</th>
<th>Actual (including CAS &amp; MPS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>01</td>
<td>01</td>
<td>01</td>
</tr>
<tr>
<td>Associate Professors</td>
<td>01</td>
<td>01</td>
<td>01</td>
</tr>
<tr>
<td>Asst. Professors</td>
<td>03</td>
<td>03</td>
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<tr>
<td>Others (SR)</td>
<td>03</td>
<td>02</td>
<td>03</td>
</tr>
</tbody>
</table>
11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualification</th>
<th>Designation</th>
<th>Specialization</th>
<th>No. of Years of Experience</th>
<th>No. of Ph.D./M.Phil./M.D/MS students guided for the last 4 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Shahid Ali Siddiqui</td>
<td>M.D. (R.T.)</td>
<td>Professor</td>
<td>Radiotherapy</td>
<td>34</td>
<td>8</td>
</tr>
<tr>
<td>Dr. Mohd. Akram</td>
<td>M.D. (R.T.)</td>
<td>Associate Prof.</td>
<td>Radiotherapy</td>
<td>10</td>
<td>3</td>
</tr>
<tr>
<td>Name</td>
<td>Qualification</td>
<td>Designation</td>
<td>Specialization</td>
<td>No. of Years of Experience</td>
<td>No. of Ph.D./M.Phil./M.D/MS students guided for the last 4 years</td>
</tr>
<tr>
<td>-------------------------</td>
<td>---------------------------------</td>
<td>-----------------</td>
<td>---------------------</td>
<td>---------------------------</td>
<td>---------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>DNB (R.T.)</td>
<td>Asstt. Prof.</td>
<td>Radiotherapy</td>
<td>10</td>
<td>Nil</td>
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<tr>
<td></td>
<td>M.D. (R.T.)</td>
<td>Asstt. Prof.</td>
<td>Radiotherapy</td>
<td>10</td>
<td>Nil</td>
</tr>
<tr>
<td>4. Dr. Md Shadab Alam</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Dr Mohsin Khan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</table>

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

13. Percentage of classes taken by temporary faculty – programme-wise information –

<table>
<thead>
<tr>
<th>Designation</th>
<th>Programme</th>
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<td>Assistant Professor</td>
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<tr>
<td>Senior Resident</td>
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<tr>
<td>Total</td>
<td></td>
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</tbody>
</table>

14. Programme-wise Student Teacher Ratio
- M.D.R.T. = 1:1
- B.R.T.T = 1:1.25

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual — **Non Planned Grant Sanctioned on Fixed Salary, to be Regularized by the University.**

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<th>Actual</th>
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<tr>
<td>Administrative</td>
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<td>02</td>
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</table>

16. Research thrust areas as recognized by major funding agencies:
Thrust areas: **Cancer Treatment and Research.**

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.  - **FOUR (4)**

| S.No | Funding Agencies | Project Title | Total Grants Received |
|------|------------------|---------------|-----------------------|------------------------|
1. National Institute of Health, USA. 
   **(International)**
   Low cost enabling technology for Image-guided Photo Dynamic Therapy (PDT) of Oral Cancer in collaboration with Massachusetts General Hospital, Boston, USA.  
   **2 Million US Dollar**

2. Jiv Daya Foundation, USA. 
   **(International)**
   Capacity building in Palliative Cancer care project  
   **Rs. 10 Lacs**

3. ICMR **(National)**
   National Cancer Registry Programme under National Cancer Control Programme.  
   **Rs. 40 Lacs**

4. Accessing Childhood Cancer Services in India – An Assess India Study CAN KIDS **(National)**
   Indian Pediatric Oncology Group Study

18. Inter-institutional collaborative projects and associated grants received  
   -- **Four (4)**

   (i) National collaboration - **Two (2)**

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Funding Agencies</th>
<th>Project Title</th>
<th>Total Grants Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>ICMR <strong>(National)</strong></td>
<td>National Cancer Registry Programme under National Cancer Control Programme.</td>
<td><strong>Rs. 40 Lacs</strong></td>
</tr>
<tr>
<td>2.</td>
<td>Accessing Childhood Cancer Services in India – An Assess India Study CAN KIDS <strong>(National)</strong></td>
<td>Indian Pediatric Oncology Group Study</td>
<td></td>
</tr>
</tbody>
</table>

   (ii) International collaboration - **Two (2)**

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Funding Agencies</th>
<th>Project Title</th>
<th>Total Grants Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>National Institute of Health, USA. <strong>(International)</strong></td>
<td>Low cost enabling technology for Image-guided Photo Dynamic Therapy (PDT) of Oral Cancer in collaboration with Massachusetts General Hospital, Boston, USA.</td>
<td><strong>2 Million US Dollar</strong></td>
</tr>
<tr>
<td>2.</td>
<td>Jiv Daya Foundation, USA. <strong>(International)</strong></td>
<td>Capacity building in Palliative Cancer care project.</td>
<td><strong>Rs. 10 Lacs</strong></td>
</tr>
</tbody>
</table>

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.  
   **One (1)**
20. Research facility / centre with
   - State recognition
   - National recognition - Two (2)
     1) Development of Population & Hospital Based Cancer Registry Programme in Collaboration with ICMR.
     2) Accessing Childhood Cancer Services in India - An Assess India Study CAN KIDS by Indian Pediatric Oncology Group Study.
   - International recognition - Two (2)
     1) Capacity building in Palliative Cancer care project, Jiv Daya Foundation, USA.
     2) Low cost enabling technology for Image-guided Photo Dynamic Therapy (PDT) of Oral Cancer in collaboration with Massachusetts General Hospital, Boston, USA.

21. Special research laboratories sponsored by / created by industry or corporate bodies-NIL

22. Publications:
   - Number of papers published in peer reviewed journals (national / international) – 34

<table>
<thead>
<tr>
<th>Title</th>
<th>FNAB of metastatic lesions with special reference to clinicopathological analysis of primary site in cases of epithelial and non-epithelial tumors</th>
</tr>
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<tbody>
<tr>
<td>Author</td>
<td>Shamshad Ahmad, Kafil Akhtar, Swati Singh, Shahid Siddiqui.</td>
</tr>
<tr>
<td>Publisher</td>
<td><a href="http://www.jcytol.org">www.jcytol.org</a>, DOI: 10.4103/0970-9371.80740</td>
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<table>
<thead>
<tr>
<th>Title</th>
<th>Total Peripheral Lymphocyte Count in Malignant Tumors: An Index of Prognostication</th>
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</thead>
<tbody>
<tr>
<td>Publisher</td>
<td>ANSI net Asian Network for Scientific Information.</td>
</tr>
</tbody>
</table>


Alam MS, Perween R, Siddiqui SA. Retrospective study comparing primary debulking surgery (PDS) and adjuvant chemotherapy vs. neoadjuvant chemotherapy (NACT) followed by interval debulking surgery (IDS) and adjuvant chemotherapy in advanced carcinoma ovary. Intl J Contemp Med Res 2016;3(1):265-70.


Mohsin Khan, Shahid A Siddiqui, Mohd Akram, Mohd Shadab Alam. Can zinc supplementation widen the gap between control and complications in head and neck cancer patients treated with concurrent chemo-radiotherapy. DOI: 10.4103/jmedsci.jmedsci_20_19 (AOP)

Title: Concurrent chemoradiotherapy with or without induction chemotherapy for the management of cervical lymph node metastasis from unknown primary tumor
Author: Mohsin Khan, Shahid A Siddiqui

Title: Normal tissue complications following hypo-fractionated chest wall radiotherapy in breast cancer patients and their correlation with patient, tumor, and treatment characteristics
Author: Mohsin Khan, Shahid A Siddiqui, Manoj K Gupta, Rajeev K Seam, Manish Gupta
Journal: Indian Journal of Medical and Paediatric Oncology 2017 Apr-Jun;38(2):121-127

Title: Combining Two Different Chemotherapy Agents with Platinum Analogues as Induction and Consolidation Regimes in Non-small Cell Lung Carcinoma
Author: Mohsin Khan, Shahid A Siddiqui
- Monographs — None
- Chapters in Books  : None
- Edited Books - None —
- Books with ISBN with details of publishers — None
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database — International Social Sciences Directory, EBSCO host, etc.) - **34**.
- Citation Index – range / average –

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Range</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Shahid Ali Siddiqui</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dr Mohd. Akram</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dr Md Shadab Alam</td>
<td>0 — 8</td>
<td>4</td>
</tr>
<tr>
<td>Dr Mohsin Khan</td>
<td>0 — 8</td>
<td>4</td>
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</table>

- SNIP –

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Journal SNIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Shahid Ali Siddiqui</td>
<td><strong>0.50 — 0.54</strong></td>
</tr>
<tr>
<td>Dr Mohd. Akram</td>
<td><strong>0.50 — 0.54</strong></td>
</tr>
<tr>
<td>Dr Md Shadab Alam</td>
<td><strong>0.50 — 0.54</strong></td>
</tr>
<tr>
<td>Dr Mohsin Khan</td>
<td><strong>0.50 — 0.54</strong></td>
</tr>
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</table>

- SJR –

<table>
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<th>Journal SJR</th>
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</thead>
<tbody>
<tr>
<td>Prof Shahid Ali Siddiqui</td>
<td><strong>0.333 — 0.4</strong></td>
</tr>
<tr>
<td>Dr Mohd. Akram</td>
<td><strong>0.333 — 0.4</strong></td>
</tr>
<tr>
<td>Dr Md Shadab Alam</td>
<td><strong>0.333 — 0.4</strong></td>
</tr>
<tr>
<td>Dr Mohsin Khan</td>
<td><strong>0.333 — 0.4</strong></td>
</tr>
</tbody>
</table>

- Impact Factor – range / average -

<table>
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<tr>
<th>Faculty</th>
<th>Journal Impact Factor — Range</th>
<th>Journal Impact Factor — Average</th>
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</thead>
<tbody>
<tr>
<td>Prof Shahid Ali Siddiqui</td>
<td><strong>0.432</strong></td>
<td><strong>0.432</strong></td>
</tr>
<tr>
<td>Dr Mohd. Akram</td>
<td><strong>0.432</strong></td>
<td><strong>0.432</strong></td>
</tr>
<tr>
<td>Dr Md Shadab Alam</td>
<td><strong>0.432</strong> - 3.18</td>
<td><strong>1.8</strong></td>
</tr>
<tr>
<td>Dr Mohsin Khan</td>
<td><strong>0.432</strong></td>
<td><strong>0.432</strong></td>
</tr>
</tbody>
</table>

- h-index - faculty – largest – highest – Average

<table>
<thead>
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<th>Faculty</th>
<th>Highest</th>
<th>Average</th>
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<tbody>
<tr>
<td>Prof Shahid Ali Siddiqui</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Dr Mohd. Akram</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dr Md Shadab Alam</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Dr Mohsin Khan</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

23. Details of patents and income generated — **NIL** —
24. Areas of consultancy and income generated — **Nil** —
25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad — **NIL** —
26. Faculty serving in  
   (i) National committees  
   (ii) International committees  
   (iii) Editorial Boards  
   (iv) any other (please specify)  
27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). Faculty Members attend UGC sponsored Refresher/Orientation courses conducted by Academic Staff College.

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
<th>Programme</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Mohd. Akram</td>
<td>Associate Prof.</td>
<td>Training programme on biomedical Waste Management, Prevention of healthcare associated infections &amp; occupational hazards organized by JN Medical College on 24-8-15.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Participated as delegate in 1st professional advancement course organized by Cancer therapy Centre, Fortis hospital, Noida on 17th &amp; 18th September 2016.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Participated in workshop on oral cancer organised by department of oral &amp; maxillofacial surgery on 13th Feb 2017 at Dr ZA dental college AMU Aligarh.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>One month observer ship programme in palliative care at department of palliative medicine, TMH Mumbai during 20th May 2016 to 11th June 2016.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Two day research methodology workshop on 28th -29th May 2016 at TMH Mumbai.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1st Foundation Course of the Palliative Care Training Program for Cancer Treatment Centres in India during 29 July to 3 August 2016 organised by All India Institute of Medical Sciences (AIIMS) is in collaboration with the Asia Pacific Hospice Palliative Care Network* (APHN).</td>
</tr>
<tr>
<td>Mr. M. A. Bilal Hussain</td>
<td>Asstt. Prof.</td>
<td>Workshop on Planning of Pelvic Malignancies organised by Department of Radiotherapy, Shri Ram Murti Smarak Institute of Medical Sciences, Bareilly, UP on 23 &amp; 24th Sep 2017.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Training Program on Medical Management and Preparedness for Radiological/Nuclear Emergencies held on Jan 27-28 2016 at Narora Atomic Power Station Hospital, Narora, UP.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>International day of Medical Physics (IDMP 2015) organised by Delhi State Cancer Institute in association with AMPI-Northern Chapter on 7th November 2015.</td>
</tr>
<tr>
<td>Dr Md Shadab Alam</td>
<td>Asstt. Prof.</td>
<td>UGCHRDC CXXXIX Orientation Programme - 2015.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>UGCHRDC Refresher Course in Research Methodology - 2015.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>UGCHRDC Induction Course for Newly Appointed Assistant Professors - Short Term Course - 2016.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Workshop of “Contouring in Head &amp; Neck”</td>
</tr>
<tr>
<td>Dr Mohsin Khan</td>
<td>Asstt. Prof.</td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>UGCHRDC Refresher Course — 2018</td>
<td></td>
<td></td>
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<tr>
<td>UGCHRDC Induction Course for Newly Appointed Assistant Professors – Short Term Course – 2017.</td>
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<td></td>
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<tr>
<td>Workshop on Research Grant by UGC, 2018.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

28. **Student projects:**
- percentage of students who have done in-house projects including inter-departmental projects -- NIL --
- percentage of students doing projects in collaboration with other universities/ industry/institute -- NIL --

29. **Awards /recognitions received at the national and international level by**
- Faculty **02**
  1. **Prof S A Siddiqui** — “IPA 2019 Team Award for Advancing PDT in Rising Nations” at the 17th International Photodynamic Association World Congress organised by IPA from 28 June to 4th July 2019 at Cambridge, Massachusetts, USA.
  2. **Mr M A Bilal Hussain** — “IPA 2019 Team Award for Advancing PDT in Rising Nations” at the 17th International Photodynamic Association World Congress organised by IPA from 28 June to 4th July 2019 at Cambridge, Massachusetts, USA.
- Doctoral / post doctoral fellows -- NA --
- Students --NIL--

30. **Seminars/Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any.**
<table>
<thead>
<tr>
<th>S.N o.</th>
<th>Seminars/Conferences/ Workshops Organized</th>
<th>Source of Funding</th>
<th>Outstanding Participants</th>
</tr>
</thead>
</table>
| 1.    | **National CME on “Oral Cancer Management: An Update”** on 27<sup>th</sup> April 2019 at LT-1, JNMC, AMU. | Registratio on Fees | 1. Dr Mandeep S Malhotra (HOD, Surgical Oncology, Fortis Hospital, Vasant Kunj & CK Birla Hospital, Gurgaon)  
2. Dr Shikha Goyal (Senior Consultant, Radiation Oncology, Medanta Hospital, Gurgaon)  
3. Dr Suman S Karanth (Senior Consultant, Medical Oncology, Medanta Hospital, Gurgaon)  
4. Prof Achal Gulati (Director, D/O ENT, Baba Saheb Bhimrao Ambedkar Medical College, New Delhi). |
| 2.    | **National CME on “Recurrent Epithelial Ovarian Carcinoma – A Management Dilemma”** on 30<sup>th</sup> March 2019 at LT-1, JNMC, AMU. | Registratio on Fees | 1. Dr Malay Nandy (Director, Institute of Oncology, Jaypee Hospital, Noida)  
2. Dr Ashish Goel (Associate Director & Head of Surgical Oncology, Jaypee Hospital, Noida)  
3. Prof Tamkeen Khan, Chairman, Department of O&amp;G, JNMC, AMU, Aligarh.  
4. Prof. Nishat Afroz, Department of Pathology, JNMC, AMU, Aligarh.  
5. Dr Mehtab Ahmad, Department of Radiodiagnosis, JNMC, AMU, Aligarh. |
| 3.    | Extension Lecture on Refractory Lymphoma on October 2018 at Seminar Hall, Orthopaedics department. | Registratio on Fees | Dr Reyaz Ahmad (Senior Consultant Oncologist, RGCI, New Delhi) |
| 4.    | Extension Lecture on Multiple Myeloma | Registratio on Fees | Senior Consultant Oncologist, Ma Hospital, New Delhi |
| 5.    | **Laser & Photo Dynamic Therapy (PDT) in Gastroenterology on 14<sup>th</sup> March 2017.**  
**Venue:** Seminar Room, | - | Dr Stephen G. Bown, Professor of Laser Medicine and Surgery, Dept of Surgery, University College, London Medical School, |
# Laser & Photo Dynamic Therapy (PDT) in Head & Neck Malignancies on 10th March 2017

**Venue:** Seminar Room, Dr. Z.A. Dental College.

- **Dr Colin Hopper**, Consultant Oral and Maxillofacial Surgeon, University College London Hospitals.

# Role of Biospecimen Research and Biomarkers in Clinical Research on 6th November 2017 at LT-1, JNMC, AMU, Aligarh, INDIA.

- **Dr Lokesh Agrawal**, Program Director, Biorepositories and Biospecimen Research Branch, Cancer Diagnosis Program, DCTD, NCI, USA.

# Resource-Appropriate Technologies For Cancer Detection, Diagnosis, Treatment, and Care on 6th November 2017 at LT-1, JNMC, AMU, Aligarh, INDIA.

- **Dr Vidya Vedham**, Program Officer, Centre for Global Health, NCI, USA.

## Code of ethics for research followed by the departments:

- Institutional Ethics Committee of Faculty of Medicine
- AMU Ethical Committee

## Student profile programme-wise:

<table>
<thead>
<tr>
<th>Name of the Programme (refer to question no. 4)</th>
<th>Application s received</th>
<th>Year</th>
<th>Selected</th>
<th>Pass percentage</th>
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<td>M.D.</td>
<td>For detailed information refer to controller/Dean for information</td>
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<tr>
<td></td>
<td></td>
<td>2018</td>
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<td></td>
<td></td>
<td>2015</td>
<td>Male 00 Female 01</td>
<td>100</td>
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<tr>
<td>DMRT</td>
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<td></td>
<td></td>
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<td>Male 00 Female 02</td>
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<td>B.R.T.T</td>
<td>For detailed information refer to</td>
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<td></td>
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<td></td>
<td></td>
<td>2016</td>
<td>Male 00 Female 02</td>
<td>100</td>
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</table>
### Name of the Programme
(Refer to question no. 4)

<table>
<thead>
<tr>
<th>Programme</th>
<th>Application s received</th>
<th>Year</th>
<th>Selected</th>
<th>Pass percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.D.</td>
<td>For detailed information</td>
<td>2015</td>
<td>Male 03 Female 00</td>
<td>100</td>
</tr>
</tbody>
</table>

#### 33. Diversity of students

<table>
<thead>
<tr>
<th>Name of the Programme (refer to question no. 4)</th>
<th>% of students from the same university</th>
<th>% of students from other universities within the State</th>
<th>% of students from universities outside the State</th>
<th>% of students from other countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.D.</td>
<td>84%</td>
<td>0%</td>
<td>16%</td>
<td>0%</td>
</tr>
<tr>
<td>DMRT</td>
<td>75%</td>
<td>0%</td>
<td>25%</td>
<td>0%</td>
</tr>
<tr>
<td>B.R.T.T.</td>
<td>50%</td>
<td>50%</td>
<td>0%</td>
<td>0%</td>
</tr>
</tbody>
</table>

#### 34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

- **Secondary DNB**: Five (5)
- **Fellowship in Radiation Oncology, USA**: One (1)

#### 35. Student progression

<table>
<thead>
<tr>
<th>Student progression</th>
<th>Percentage against enrolled</th>
</tr>
</thead>
<tbody>
<tr>
<td>UG to PG</td>
<td></td>
</tr>
<tr>
<td>PG to M.Phil.</td>
<td></td>
</tr>
<tr>
<td>PG to Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Ph.D. to Post-Doctoral</td>
<td></td>
</tr>
<tr>
<td>Employed</td>
<td>No separate Placement Cell exist for Medical College</td>
</tr>
<tr>
<td>- Campus selection</td>
<td></td>
</tr>
<tr>
<td>- Other than campus recruitment</td>
<td>100%</td>
</tr>
<tr>
<td>Entrepreneurs</td>
<td></td>
</tr>
</tbody>
</table>

#### 36. Diversity of staff

<table>
<thead>
<tr>
<th>Percentage of faculty who are graduates</th>
</tr>
</thead>
<tbody>
<tr>
<td>of the same university</td>
</tr>
<tr>
<td>from other universities within the State</td>
</tr>
<tr>
<td>from universities from other States</td>
</tr>
<tr>
<td>from universities outside the country</td>
</tr>
</tbody>
</table>

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

-- NIL --
38. Present details of departmental infrastructural facilities with regard to
   (i) Library -- Yes; Departmental Library (36 m² - 40 Seats) no. of books - 42.
   (ii) Internet facilities for staff and students - Yes; available
   (iii) Total number of class rooms - One & Shared classroom from Medical College
   (iv) Class rooms with ICT facility - One& Shared classroom from Medical College
   (v) Students’ laboratories:
       1. Teletherapy Treatment Unit
       2. Brachytherapy Unit
       3. Simulator X-ray Unit
       4. Mould room
       5. Treatment Planning System
       6. Day Care & Ward Facilities
       7. Photodynamic Therapy Unit
   (vi) Research laboratories - Research lab available for study related to National Cancer Registry Programme and Database.

39. List of doctoral, post-doctoral students and Research Associates -- Two (2)
   (i) from the host institution/university - Two (2)
       a) Mr M A Bilal Hussain – PhD as Teacher Candidate ............
       b) Dr Md Shadab Alam – PhD as Teacher Candidate under Supervision of Prof. (Dr.) Shahid Ali Siddiqui, Chairman, Dept of Radiotherapy and Clinical Oncology, JNMCH, AMU, Aligarh.
   (ii) from other institutions/universities

40. Number of post graduate students getting financial assistance from the university.
    • All the Post graduate residents get the salary as per Residency Scheme, Govt. of India.

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

• **MDRT Course** - Yes. The need for starting the MDRT was felt as DMRT (Diploma in Medical Radiotherapy) Course already run by the department has been Upgraded by Medical Council of India (MCI) and at present there are sufficient Faculty staffs available as per the requirement of the said course (Methodology – As per Discussions & Decision in Board of Studies (BOS) → Faculty Meet → Academic Council (AC) → Executive Council (EC)).

• **BRTT Course** - Yes. The need for starting the BRTT was felt as there are very colleges in the country offering this professional course. Moreover bachelor course BRTT is not conducted by any colleges in U.P. only diploma course is available (Methodology – As per Discussions & Decision in Board of
Studies (BOS) → Faculty Meet → Academic Council (AC) → Executive Council (EC).

- **National Cancer Registry Programme under National Cancer Control Programme** - Yes. Cancer registry is very important to gauge the exact load of Cancer burden on society to guide preventive and therapeutic programmes of the nation. Since large number of patients present at our centre with malignancies of almost all sites of body, the exact documentation of these cancer is necessary for the development of national cancer register. So in collaboration with ICMR, the department has started Population based cancer Registry (Methodology - As per Discussions & Decision in Board of Studies (BOS) → Faculty Meet → Academic Council (AC) → Executive Council (EC).

- **Capacity building in Palliative Cancer Care Programme** - Maximum patients presenting at our centre have cancer in advanced stages in which the patients need good palliative care. There is need of training in palliative care. So the department has started Palliative Cancer Care Programme in collaboration with Jiv Daya Foundation, USA (Methodology - As per Discussions & Decision in Board of Studies (BOS) → Faculty Meet → Academic Council (AC) → Executive Council (EC).

Does the department obtain feedback from : **Yes**

42. (i) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?  
**Yes:** Through regular BOS and inputs are incorporated accordingly.

(ii) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?  
**Yes** - The Pitfalls and Drawbacks are evaluated and tried to overcome.

(iii) Alumni and employers on the programmes offered and how does the department utilize the feedback?  
**Yes** - Their Feedback is taken into account to make decisions regarding future course of conduction of teaching programmes and development of various training activities.

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

1) Dr. Prashant, Radiation Oncology Consultant, Apollo Hospitals, Hyderabad
2) Dr. Wajih Ahmad Siddiqui, King Khalid University KSA.
3) Dr. Kafil Akhtar, Professor, JNMC.
4) Dr. Nawed Alam, Consultant Radiation Oncologist, Kamla Nehru Hospital, Allahabad.
5) Dr. Ghufran Nahid, Assistant Professor, Medical College, Silliguri.
6) Dr. Hamid Mustafa, Consultant Radiation Oncologist, HCG Cancer
Hospital, Tanzania.
7) Dr Masroor Ahmad Karimi, Fellow of Radiation Oncology, United States of America.
8) Dr Farhan Ahmad, Senior Registrar, Radiation Oncology Department, SGPGI, Lucknow.
9) Dr Kashif Razi, Chief Medical Officer, JNMC, AMU, Aligarh.
10) Dr Badar Ahmad, Chief Medical Officer, JNMC, AMU, Aligarh.

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

<table>
<thead>
<tr>
<th>S.No</th>
<th>Seminars/Conferences/Workshops Organized</th>
<th>External Experts</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>National CME on “Oral Cancer Management: An Update” on 27th April 2019 at LT-1, JNMC, AMU.</td>
<td>1. Dr Mandeep S Malhotra (HOD, Surgical Oncology, Fortis Hospital, Vasant Kunj &amp; CK Birla Hospital, Gurgaon) 2. Dr Shikha Goyal (Senior Consultant, Radiation Oncology, Medanta Hospital, Gurgaon) 3. Dr Suman S Karanth (Senior Consultant, Medical Oncology, Medanta Hospital, Gurgaon) 4. Prof Achal Gulati (Director, D/O ENT, Baba Saheb Bheem Rao Ambedkar Medical College, New Delhi).</td>
</tr>
<tr>
<td>2.</td>
<td>National CME on “Recurrent Epithelial Ovarian Carcinoma – A Management Dilemma” on 30th March 2019 at LT-1, JNMC, AMU.</td>
<td>1. Malay Nandy Director, Institute of Oncology, Jaypee Hospital, Noida. 2. Dr Ashish Goel Associate Director &amp; Head of Surgical Oncology, Jaypee Hospital, Noida. 3. Prof Tamkeen Khan, Chairman, Department of O&amp;G, JNMC, AMU, Aligarh. 4. Prof. Nishat Afroz, Department of Pathology, JNMC, AMU, Aligarh. 5. Dr Mehtab Ahmad, Department of Radiodiagnosis, JNMC, AMU, Aligarh.</td>
</tr>
<tr>
<td>3.</td>
<td>Extension Lecture on Refractory Lymphoma on October 2018 at Seminar Hall, Orthopaedics department.</td>
<td>Dr Reyaz Ahmad Senior Consultant Oncologist, RGCI, New Delhi.</td>
</tr>
<tr>
<td>4.</td>
<td>Extension Lecture on Multiple Myeloma</td>
<td></td>
</tr>
<tr>
<td>----</td>
<td>--------------------------------------</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Role of Biospecimen Research and Biomarkers in Clinical Research on 6&lt;sup&gt;th&lt;/sup&gt; November 2017 at LT-1, JNMC, AMU, Aligarh, INDIA.</td>
<td><strong>Dr Lokesh Agrawal</strong>, Program Director, Biorepositories and Biospecimen Research Branch, Cancer Diagnosis Program, DCTD, NCI, USA.</td>
</tr>
<tr>
<td>8.</td>
<td>Resource-Appropriate Technologies For Cancer Detection, Diagnosis, Treatment, and Care on 6&lt;sup&gt;th&lt;/sup&gt; November 2017 at LT-1, JNMC, AMU, Aligarh, INDIA.</td>
<td><strong>Dr Vidya Vedham</strong>, Program Officer, Centre for Global Health, NCI, USA.</td>
</tr>
</tbody>
</table>

45. List the teaching methods adopted by the faculty for different programmes.
   1. Direct Theory classes
   2. Practical
   3. Seminars
   4. Clinical posting
   5. Discussions
   6. Demonstrations
   7. Hands on Training
8. Tumor Board
9. Conduction of Trial Studies related to Thesis
10. Extension Lectures & CMEs inviting Specialists in the field from various parts of the country.
11. Giving opportunities to Residents to attend various Teaching programmes, CMEs, Conferences, Workshops, Hands on Training Programmes at various parts of the country.
12. **Abbasi Fellowship** for Resident Doctors to attend ASTRO-ESTRO Courses each year.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?
   - Continuous Evaluation procedures.
   - Assessment procedures like tests, Seminars, clinical presentation and Examination/Practical.

47. Highlight the participation of students and faculty in extension activities.—
   1) Faculty & Students participate in community extension activities like Cancer awareness camps, cancer detection camps etc.
   2) Help in conducting various CMEs related to Cancer and its management inviting various faculties and specialists from different parts of country, generating opportunities for local doctors and newly trained residents of the field of Radiotherapy, to get acknowledged with recent and advanced techniques.
   3) Participation by Faculties as Resource Persons in Bio Medical Waste Management (BMW) and Hospital Infection Society of India (HISI), Aligarh Chapter Programmes.
   4) Faculties contribute in development of New Competency Based Curriculum related to the Subject of Radiotherapy for MBBS Course, as per MCI Guidelines.
   5) Contribute in Hospital and Population based Cancer Registry Programme run by the department which further helps in the addition of cancer related data to the Cancer Register of India.
   6) Consultants & Residents attend various Teaching programmes, CMEs, Conferences, Workshops, Hands on Training Programmes at various parts of the country.

48. Give details of “beyond syllabus scholarly activities” of the department.—
   a. Faculty & Students participate in community extension activities like Cancer awareness camps, cancer detection camps etc.
   b. Help in conducting various CMEs related to Cancer and its management inviting various faculties and specialists from different parts of country, generating opportunities for local doctors and newly trained residents of the field of
Radiotherapy, to get acknowledged with recent and advanced techniques.

c. Participation by Faculties as Resource Persons in Bio Medical Waste Management (BMW) and Hospital Infection Society of India (HISI), Aligarh Chapter Programmes.

d. Faculties contribute in development of New Competency Based Curriculum related to the Subject of Radiotherapy for MBBS Course, as per MCI Guidelines.

e. Contribute in Hospital and Population based Cancer Registry Programme run by the department which further helps in the addition of cancer related data to the Cancer Register of India.

f. Consultants & Residents attend various Teaching programmes, CMEs, Conferences, Workshops, Hands on Training Programmes at various parts of the country.

49. State whether the Programme is accredited by other agencies? If yes, give details. Yes -- MCI & AERB.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

1. MCI Recognized Post graduation in Radiotherapy (MDRT) running successfully.

2. Development of New Competency Based Curriculum related to the Subject of Radiotherapy for MBBS Course, as per MCI Guidelines.

3. Conducting various CMEs related to Cancer and its management inviting various faculties and specialists from different parts of country, generating opportunities for local doctors and newly trained residents of the field of Radiotherapy, to get acknowledged with recent and advanced techniques.

4. Conducting Research Project related to newer modality (Photodynamic Therapy) of cancer treatment in Pre invasive Stage.

5. AERB Recognized New BRTT – Bachelor Courses – available in limited centers in India.

6. Hospital and Population based Cancer Registry Programme running by the department helps in the addition of cancer related data to the Cancer Register of India.
51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

**Strengths:**

(1) Provides cancer care chemotherapy & Radiotherapy of almost all the malignancies.
(2) Caters to large population in western UP.
(3) MCI Recognized Post graduation in Radiotherapy (MDRT) running successfully.
(4) Running AERB Recognized BRTT Programme.
(5) Provides best possible cancer treatment with whatever available limited resources including very cost effective Radiotherapy and Chemotherapy to poor patients.
(6) Excellent Team work with very good Supervision.

**Weakness:**

(1) The department lacks some modern equipment. These therapy equipments are needed for providing better patient care and as well for teaching post graduate students.
(2) We were not able to cope up with the technological advancements taking place in the field of cancer care or with any other private cancer care centers who are early birds to catch up with the pace. Thus we feel we are left behind.
(3) Staff strength inadequate to cope with the patient load.
(4) Some super specialties need to be developed.
(5) Needs central funded research projects.

**Opportunity:**

1. As Department of Radiotherapy is evolving, we have a high potential to grow. The opportunities to learn new techniques in treatment and provide better patient care.
2. We have got potential to develop into a Dedicated Tertiary Cancer Care Centre provided facilities and financial assistance is made available.
3. We can develop a Dedicated Palliative Care unit including Hospice Care looking into the bulk of cancer patients who need such care presenting at our centre every day.
4. We can use available resources to develop various Cancer Awareness and Screening Programmes to detect cancer in early and curable stages as the JNMC Hospital has got all the facilities available to diagnose cancer in early stages through various investigative tools.
Challenge:
1. Coping with the growth in the field. In order to do that we need fund raising /
tapping the resources from central agencies. This is the greatest challenge we
have faced.
2. Creating awareness among general population regarding Prevention and
Proper treatment of Cancer.
3. Development of a dedicated Tertiary Cancer Care Centre.
5. Diagnosis of Cancer in Early Stages in order to completely cure it.

Future plans of the department.
- The Department plans to grow into a Dedicated Oncology Centre (Tertiary
  Cancer Care Centre) providing all modalities of Cancer management under
  one roof with latest state of the art technology equipments.
- Also to Develop Research Facilities.

Declaration by the Head of the Institution

I certify that 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:

Place: Aligarh
Date: