

Dr. Vivek Jain

## Summary of CV

Updated till Sept 2023				
Grants Received				
Total No. of Grants Received	International Funding Body	National & Funding Body	Year of Received	Amount Received
9	1 (ISN, USA) 2 (IBRO, France)  1 (Japan Neuroscience Society)	4 (RUSA, UGC & DST)  1 (Crowd funding)	From ISN-2023 From RUSA-2020 From IBRO- 2019 From UGC-2019 From Ketto.org-2018 From IBRO- 2017 From DST- 2013 From UGC- 2012	ISN-35,000 USD RUSA- 50 Lakh RUSA- 30 Lakh IBRO- 20,000 USD UGC-10 Lakh Rs Crowd fund-19450/-Rs IBRO- 20,000 USD UGC-1, 00,000/- Rs. DST- 70,000/-Rs.
Patent Granted				
Total No of Patent	International / National	Granted Country	Year of Patent	Patent no
1	International	Germany	2022	202022100490
2	National	India	2023	371150-001
Paper Published in Journals				
Total No of Papers	International Paper + National Paper	Citation	h-index i10-index	Total Impact Factor (Thomson Reuters)
33	25 + 8	810	h-index =12 i10-index=12	63
Conference Abstract /Paper Contribution				
Total Abstract /Paper Contribution in conference	International (Presented outside India)	National (Presented within India)		
17	2	15		
Books Published				
Total Books Published	International Publisher	National Publisher		

5	4	1
<b>Book Chapter Published</b>		
<b>Total Book Chapters Published</b>	<b>International Publisher</b>	<b>National Publisher</b>
1	1	-
<b>Awards &amp; Honors Received</b>		
<b>Total Awards</b>	<b>National Awards</b>	<b>International Awards</b>
6	4	2
<b>Teaching Aid Developed</b>		
<b>Total</b>	<b>Website Founded</b>	<b>YouTube channel</b>
2	1 (gpatindia.com)	Tutor box channel (39 thousand subscribers till Sept 2023)  Subject cover = Pharmacology, Human anatomy & Physiology, Microbiology, Pharmacovigilance, Career Guidance, Disease Awareness

**Dr. Vivek Jain**

**Assistant Professor**

**Department of Pharmaceutical Sciences,  
Mohanlal Sukhadia University, Udaipur, Rajasthan, India**

**Email ID: [vivek19j@gmail.com](mailto:vivek19j@gmail.com) ; Contact No. 9251446626**

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### **EDUCATION OUALIFICATION:**

**PhD (Pharmacy-Pharmacology)-** Banasthali University with 79.44%(year 2016)

**M.Pharm (Pharmacology) -** Punjabi University Patiala with 67.5% ( year 2008)

**B.Pharm -B N College of Pharmacy, Mohan Lal Sukhadia University, Udaipur with 66.05% (year 2005)**

**Class 12<sup>th</sup>** (Senior Secondary Board ) RBSE, Ajmer with 65.85% ( year 1998)

**Class 10<sup>th</sup>** (Senior Secondary Board ) RBSE, Ajmer with 73.27% ( year 1996)

**GATE** (Graduate Appitute Test in Engineering )Qualified in year 2006

### **AWARDS**

**Late Ch. Braham Datt Dahiya Memorial Award-2012** for excellent research work till 5 year of PG Degree in Teachers Category by Association of Pharmaceutical Professionals, Bhopal, MP, India on 7 April 2012

**Best Oral Presentation award** in AICTE sponsored seminar on modern trend in Phytopharmaceutical Drug development held at Sri Balaji College of Pharmacy, Jaipur (17-18 Sept 2012)

**PhD Thesis nominated for Best Thesis award 2016** by Society of free radical research, SFRR 2017 at **Babha Atomic Research Centre, Mumbai**

**IBRO Travel Award 2014:** To attend 1<sup>st</sup> IBRO neuroscience school of Chandigarh, Punjab University, India

**Japan Neuroscience Society Travel Award 2017:** To attend & present research work at Annual conference of Japan Neuroscience society to be held on 19 to 22 July 2017

**Young Teacher Award 2018, in EET CRS Academic Brilliance Awards 2018 held at Greater Noida on 28 Jan, 2018**

**Young Researcher Award for Excellence In Research From Pharma Innovative Group at Oriental University Indore, Sept 2018**

**Young Scientist Award 2023 by Career Point University, Kota**

### **GRANTS RECEIVED**

#### **➤ International Grant-**

International Society of Neurochemistry (ISN-USA) Grant: ISN- School Initiative grant of **35,000 USD** to organize a Neurochemistry school at MLSU, Udaipur (Year-2023)

International Brain Research Organization-France (IBRO) Grant-IBRO- APRC Associate School Grant **2019 (USD 20,000)**–To organize a neuroscience school at MLSU, Udaipur.

International Brain Research Organization-France (IBRO) Grant-IBRO-APRC Associate School Grant **2017 (USD 20,000)**–To organize a neuroscience school at Banasthali University.

#### **➤ National Grant-**

**RUSA 2.0 Grant (year 2020) of rupees 50 Lakh for research project (For 3 Year) entitled as In-vitro and In-vivo screening of poly herbal formulation (PHF-1) in age induced Alzheimer disease in mice.** (Letter No. F/RUSA/Gen/MLSU/2020/6355) – As -PI

**RUSA 2.0 Grant (year 2020) of rupees 30 Lakh for research project (For 3 Year) entitled as to find the neuroprotective mechanism of plants of mewar region** (Letter No. F/RUSA/Gen/MLSU/2020/6378) – (CO-PI)

**UGC Start-up Research Project Grant (in Year 2019) of rupees ten lakh** sanction for research project entitled as In-silico, In-vitro and In-vivo screening of Carvacrol for the treatment of chemotherapy induced neuropathic pain in rats. { **UGC Ref. No.:** No.F.30-476/2019 (BSR) dated 06.06.2019 } As -PI

**UGC Minor Research Project Grant (In year 2012) of rupees one lakh** sanction for research project entitled as Investigation on the effect of solanum Sw. On peripheral neuropathy in rats [Letter no.- F. No. 41-1371/2012(SR)] As -PI

**Crowd Funding:** Rs 19450/- for a Project entitled “Evaluating Natural Product For Alzheimer Disease” by crowd funding platform Ketto.org

#### **➤ Travel Grants**

**DST Young Scientist Travel Grant:** To attend International conference on Pharma Nutrition: 2013 on Discovering the interface between Nutrition & Pharma held at **Singapore held** on 15<sup>th</sup> to

17<sup>th</sup> April, 2013.

**Japan Neuroscience Society Travel Award (2017): 1 lakh Yen to Present Research Work in JNS Meeting 2017**

**NATIONAL EXAM OUALIFIED & FELLOWSHIPS**

Qualified **GATE 2006** conducted by **IIT, Kharagpur** and got fellowship for post graduate studies

**INVITED TALKS**

1. Invited as a Speaker at Ministry of Family & Health Welfare & Department of AYUSH Sponsored CME programme for Ayurvedic Physician – Organized by DR. G. D. Pol Foundation, Y.M.T. Ayurvedic Medical College & Hospital, Navi Mumbai (16th march 2012)
2. Invited as a Speaker at DST Sponsored National Seminar on “Impact of Pharmaceutical Education on Employment :National & International Perspectives” organized by Mandsaur Institute of Pharmacy, Mandsaur, M.P., India (Dec.2010)
3. Invited as a Speaker at RADIO BANASTHALI 90.4 on Cancer Disease on 23 Nov 2013
4. Invited as a Speaker at RADIO BANASTHALI 90.4 on Dengue Disease 12 Oct 2015
5. Invited as a Speaker at RADIO BANASTHALI 90.4 on Anemia Disease on 21 Feb 2017
6. Invited as a Live in Phone Programme at RADIO BANASTHALI 90.4 on Depression 25 Feb 2017
7. Invited as Speaker at B.R. Nahata College of Pharmacy, Mandsaur University in Sept 2018. Given talk on How to write quality research Papers
8. Invited as Speaker National conference on “Integrative Approches for Mental Health and Well Being”
9. Speaker in a Conference on Digital Health at Department of Pharmacy, University of Kota, on 22 Aug 2023.
10. Invited as a Speaker at Aakashwani Udaipur (Radio) on Pharmacist Day 2023
11. Keynote Speaker in International Conference on Novel Innovation in Pharmaceuticals and Herbal Drug Research (13-14 Oct 2023)

**TEACHING EXPERIENCE**

1. Assistant Professor, Department of Pharmaceutical Sciences, MLSU, Udaipur (18 June 2018 onwards)
2. Assistant Professor, Department of Pharmacy, Banasthali University (27 June 2010 to 17 June

2018)

3. Pharmacologist at National Institute of Ayurveda (Gov. of India Institute, Jaipur; Rajasthan (June 2009 to June 2010)

4. Lecturer at Rajasthan Pharmacy College (July 2008 to June 2009)

**THESIS GUIDED: 12 (1 PhD, 9 PG + 2 UG) –**

## **5. RESEARCH ACTIVITIES & AREA OF INTEREST**

**Pre clinical screening:** Pre clinical screening of NCEs/Drugs and/herbal formulation for their potential in the treatment of various disorders

**Behavioural analysis:** Interpretation in the changes of behaviour pattern of rodents during pain, stress, Alzheimer's, memory loss, walking disorder etc.

**Animal Model Development:** Development of animal models

**Neuropharmacology studies:** Identification of various neuroprotective targets and their screening via behavioural, biochemical and histopathological analysis

**Toxicological studies:** Acute and long term toxicity studies of drugs and herbal formulations as per the OECD guideline

### **Expertise In**

#### **Establishment of Animal House & Zebra Fish Lab**

- ✓ Establish Animal House at Rajasthan Pharmacy College (2008-2009)
- ✓ Establish Animal House at Department of Pharmacy, Banasthali University (2013)
- ✓ Worked on Zebrafish lab setup at Department of Pharmacy, Banasthali University

#### **Software's: Command in working of**

- ✓ Pharmacovigilance Softwares: PV net, Argus Safety
- ✓ Toxicology Prediction Software: TOX –tree
- ✓ Graph Pad Prism version 6.0 (a Software for calculation of stats)
- ✓ Endnote version 2.0 (a Software for reference management)

#### **Pre-Clinical Work**

- ✓ Isolation of aqueous humour from rabbit eye
- ✓ Isolation of various organ of rodents (Rat, mice etc) such as heart, kidney, liver, spleen, sciatic nerve, tissue, brain, aorta, intestine
- ✓ Biopsy of rat, mice
- ✓ Cannulation of arteries & vein of regular IV infusion of drugs
- ✓ Induction of various nerve transaction models to develop neuropathic pain models
- ✓ Induction of carotid artery occlusion to produce ischemia in brain
- ✓ Jugular vein Catheterization
- ✓ Soft tissue procedure like- Overiectomy, Olfactory Bulbectomy, etc

- ✓ IV, IP, IM, & oral dosing
- ✓ Blood collection

**Instrument Handling (Not limited to mention below)**

- ✓ Any Maze with software
- ✓ Autoanalyzer
- ✓ Haematoanalyzer
- ✓ Non Invasive BP monitoring system
- ✓ Power Lab/Bio Pack
- ✓ Micro plate reader etc.
- ✓ Phase contrast microscope
- ✓ Student Physiograph
- ✓ Grip strength meter
- ✓ Von frey hair tester
- ✓ Digi gait

**TEACHING & RESEARCH AID DEVELOPED**

**YouTube Channel- Tutor box**

<https://www.youtube.com/c/TutorBoxChannel>

**Patent Detail**

- A System For Developing A Neuroactive Polyherbal Formulation for the treatment of Chronic Fatigue Syndrome (CFS). **Patent no – 202022100490; Apr 7, 2022;** Deutschen Patent Office, Germany (German Patent and Trade Mark Office) Zweibrückenstraße 12, 80331 München, Germany
- Design Registration by Patent Office: Apparatus to measure the anxiety in rodents. Serial No: 145398; Design No. : 371150-001

**LIST OF PUBLICATION**

1. Ratan Yashumati, Rajput Aishwarya, Pareek Ashutosh, **Jain Vivek**, Pareek Aaushi, Gupta Mohan Madan and Kamal Amjad Mohammad\*, Green synthetic strategies and pharmaceutical applications of thiazine and its derivatives: An updated review, Current Pharmaceutical Biotechnology 2024; 25() .  
<https://dx.doi.org/10.2174/1389201025666230908141543> **Impact Factor-2.8**
2. **Jain V**, Sinha SK, Rustage K, Pareek A, Srivastava M, Meena MK, Shakya A, Gupta MM, Rai N, Pareek A, Ratan Y, Chen MH, Prasad SK, Ashraf GM. Solasodine Containing Solanum torvum L. Fruit Extract Prevents Chronic Constriction Injury-Induced Neuropathic Pain in Rats: In Silico and In Vivo Evidence of TRPV1 Receptor and Cytokine Inhibition. Mol Neurobiol. 2023 Sep;60(9):5378-5394. doi: 10.1007/s12035-023-03412-w. **Impact Factor-5.6**
3. Ratan, Y.; Rajput, A.; Maleysm, S.; Pareek, A.; **Jain, V.**; Pareek, A.; Kaur, R.; Singh, G. An Insight into Cellular and Molecular Mechanisms Underlying the Pathogenesis of Neurodegeneration in Alzheimer's Disease. Biomedicines 2023, 11, 1398. <https://doi.org/10.3390/biomedicines11051398> **Impact Factor-4.7**
4. Ratan Y, Rajput A, **Jain V**, Mishra DK, Gautam RK, Pareek A. Promising Repurposed Antiviral Molecules to Combat SARS-CoV-2: A Review. Curr Pharm Biotechnol. 2023 Mar 2. doi: 10.2174/1389201024666230302113110. Epub ahead of print. PMID: 36861800. (**Impact factor = 2.8**)
5. Rajnish Srivastava , Hagera Dilnashin , Devesh Kapoor, Sai Aparna , Elmira Heidarli , Surya Pratap Singh and **Vivek Jain**\*(2023). Role of Animal Models in Parkinson's Disease (PD): What Role They Play in Preclinical Translational Research. CNS & Neurological Disorders - Drug Targets (**Impact factor = 3.271**)  
<https://doi.org/10.2174/1871527322666230223150347>
6. Pareek Ashutosh, Malvika Pant, Madan Mohan Gupta, Pushpa Kashania, Yashumati Ratan, **Vivek Jain**, Aaushi Pareek, and Anil A. Chaturgoon. 2023. "Moringa oleifera: An Updated Comprehensive Review of Its Pharmacological Activities, Ethnomedicinal, Phytopharmaceutical Formulation, Clinical, Phytochemical, and Toxicological Aspects" International Journal of Molecular Sciences 24, no. 3: 2098. <https://doi.org/10.3390/ijms24032098> (**Impact factor = 6.208**)



7. Rustage Kajol, Chouhan Pragati, Kapoor Kapish, Kumar Manish, Baniya Bhuvanesh and **Jain Vivek\***, A scoping review on recent progress on purpurin and its derivatives, Letters in Drug Design & Discovery **2023**; 20() .  
<https://dx.doi.org/10.2174/1570180820666230220124204> (**Impact factor = 1.05**)
8. Kumar P, Chaudhary B, **Jain V**, Baboota S, Shivanandy P, Alharbi KS, Ghoneim MM, Alshehri S, Imam SS, Gupta G, Gupta MM. Promises of Molecular Pharmaceutics in the Development of Novel Drug Delivery Formulations. *Curr Drug Deliv.* **2022** Nov 14. doi: 10.2174/1567201820666221114113637. Epub ahead of print. PMID: 36380413. (**Impact factor = 3.7**)
9. Parveen Kumar , Nishant Yadav, Benu Chaudhary, **Vivek Jain**, Vishal M Balaramnavar, Khalid Saad Alharbi, Sattam Khulaif Alenezi, Waleed Hassan Al-Malki, Mohammed M Ghoneim, Sultan Alshehri , Syed Sarim Imam, Madan Mohan Gupta. Promises of phytochemical based nano drug delivery systems in the management of cancer. *Chemico-Biological Interactions* DOI: 10.1016/j.cbi.2021.109745. (**2022**) (**Impact factor = 5.168**)
10. **Vivek Jain** , Ashutosh Pareek , Yashumati Ratan Bhardwaj , Saurabh Kumar Sinha , Madan Mohan Gupta , Nirmal Singh. Punicalagin and ellagic acid containing Punica granatum L. fruit rind extract prevents vincristine-induced neuropathic pain in rats: an in silico and in vivo evidence of GABAergic action and cytokine inhibition. *Nutrition Neuroscience* (**2021**) DOI: 10.1080/1028415X.2021.1954293(**Impact Factor 4.9**) (**First author**)
11. Debjyoti Talukdar , **Vivek Jain** , Vishal Balaramnavar , Swayam Prakash Srivastava ORCID logo , Palanisamy Sivanandy ORCID logo , Madan Mohan Gupta \* Potential Drugs for COVID -19 Treatment Management With Their Contraindications and Drug- Drug Interaction. doi: 10.20944/preprints202105.0690.v1 (**2021**)
12. **Vivek Jain**, Diksha Gupta, Ashutosh Pareek, Yashumati Ratan. Novel Second Generation HIV Integrase Inhibitor- DOLUTEGRAVIR: an emerging weapon against HIV. *Letters in Drug Design & Discovery*, **2017**, 14(3), 354-371(18) (**Impact Factor: 2.2**) (**First author**)
13. Pankaj Gupta, **Vivek Jain**, Ashutosh Pareek, Preeti Kumari, Randhir Singh, Priyanka Agarwal, Veena Sharma. Evaluation of effect of alcoholic extract of heartwood of *Pterocarpus marsupium* on in vitro antioxidant, anti-glycation, sorbitol accumulation and inhibition of aldose reductase activity. *Journal of Traditional and Complementary Medicine*. In Press, DOI-10.1016/j.jtcme.2016.11.001 (**Co-author**)
14. Pankaj Gupta, Preeti Sharma , Kumari Shanno , **Vivek Jain** , Ashutosh Pareek , Priyanka Agarwal , Randhir Singh , Veena Sharma. Nephroprotective role of

- alcoholic extract of *Pterocarpus marsupium* heartwood against experimentally induced diabetic nephropathy. *Journal of Pharmacy & Pharmacognosy Research*, **2016**, 4 (5), 174-186 (**Co-author**)
- 15. Vivek Jain**, Ashutosh Pareek, Yashumati Ratan, Nirmal Singh. Standardized fruit extract of *Momordica charantia* L protect against vincristine induced neuropathic pain in rats by modulating GABAergic action, antimitotoxic, NOS inhibition, anti-inflammatory and antioxidative activity. *South African Journal of Botany*, **2015**, 97:123–132 [Doi:10.1016/j.sajb.2014.12.010] (**Impact Factor: 1.676**) (**First author**)
  - 16. Kumari Rajesh**, Gupta Satish, **Jain Vivek**, Sharma Abhisheak, Kotecha Mita. A comparative study of antiobesity property of barley and oat flour. *International Journal of Ayurveda and Pharma Research*, **2015**;3(1):58-67 (**Co-author**)
  - 17. Ashutosh Pareek**, **Vivek Jain**, Yashumati Ratan, Mahendra Singh Ashawat. A new validated uv spectrophotometric method for quantitative determination of pefloxacin mesylate in bulk form and developed in-situ gelling ocular formulations. *The Pharmaceutical and Chemical Journal*. **2015**, 2(2):41-51 (**Co-author**)
  - 18. Vivek Jain**, Ashutosh Pareek, Nishant Paliwal, Yashumati Ratan, Amteshwar Singh Jaggi, Nirmal Singh. Antinociceptive and anti- allodynic effects of *Momordica charantia* L in Tibial & Sural Nerve Transection induced neuropathic pain in rats. *Nutritional Neuroscience*, **2014**, 17(2);88-96 (**Impact Factor: 2.274**) (**First author**)
  - 19. Yashumati Ratan**, Ashutosh Pareek, **Vivek Jain**. Chemical Delivery Systems and Soft Drugs: Retrometabolic Approaches of Drug Design. *Saudi Pharmaceutical Journal*, **2014**, 22(4): 290-302. (**Impact Factor: 1.00**) (**Co-author**)
  - 20. Bharat Vashistha**, Abhisheak Sharma, **Vivek Jain\***. Ameliorative potential of ferulic acid in vincristine-induced painful neuropathy in rats: An evidence of behavioral and biochemical examination. *Nutritional Neuroscience*, Published online: **Dec 2014**, *In press*, PMID: 25494651(**Impact Factor: 2.274**) (**Corresponding author**)
  - 21. Swati Jain**, Ashutosh Pareek, Sarita singh, Pratima, Sangeeta Kumari, Seema Verma, **Vivek Jain** and Yashumati Ratan. Development of a New Eco-Friendly Validated UV Spectrophotometric Method for Quantitative Determination of Acetaminophen in Tablet Dosage Form. *International Research Journal of Pure & Applied Chemistry*, **2014**, 4(2): 181-189 (**Co-author**)
  - 22. Vivek Jain\***, Priya Ranja, Shubhi Pandey, Shilpi Raj, Preeti Singh, Ashutosh Pareek, Yashumati Ratan, Nishant Paliwal. Evaluation Of Job Satisfaction & Social Identity

- Of Rural Indian Pharmacist. Indian Journal of Pharmacy Practice, **2013**, 6(1): 47-58  
(Corresponding author)
- 23. Vivek Jain\***, Renu Tomar, Jyoti Jha, Ashutosh Pareek, Yashumatiratan, Nishant Paliwal. Sleep Quality & Sleep Associated Problems In Female Pharmacy Students. Chronicles of Young Scientists, **2013**,4 (2): 138-143 (Corresponding author)
- 24. Vivek Jain**, Ashutosh Pareek, Yashumati Ratan, Nirmal Singh. Attenuating effect of standardized fruit extract of punica granatum L in rat model of tibial and sural nerve transection induced neuropathic pain. BMC Complementary and Alternative Medicine, **2013**,13;274 (Impact Factor: 2.08) (First author)
- 25. Rupinder Kaur**, Mohan Lal Jaiswal, **Vivek Jain\***. Protective Effect Of Lannea Coromandelica Houtt.Merrill. Against Three Common Pathogens. Journal of Ayurveda and Integrative Medicine **2013**, 4(4):224-8. [Doi: 10.4103/0975- 9476.123706] (Corresponding author)
- 26. Suman sharma**, ashutosh pareek, richa joshi,yashumati R. Bhardwaj, **Vivek jain** and gunjan jadon. Development and Validation of A UV Spectroscopic Method for Analysis of Paracetamol in Bulk Powder and Tablet. Oriental Journal Of Chemistry **2013**, 29, (2): 787-792(Co-author)
- 27. Yashumati R Bhardwaj**, Ashutosh Pareek, **Vivek Jain**, D. Kishore. Non-steroidal anti-inflammatory agents: current challenges and Future perspective. International Journal of Pharmacy and Technology, **2013**, 5(2):2682-94 (Co-author)
- 28. Pradeep Jain**, **Vivek Jain**, Ashish Kumar Singh, Ankur Chauhan, Sarika Sinha. Evaluation On The Responses Of Succinate Dehydrogenase, Isocitrate Dehydrogenase, Malate Dehydrogenase And Glucose-6-Phosphate Dehydrogenase To Acid Shock Generated Acid Tolerance In Escherichia Coli. Advanced Biomedical Research, **2013**, 2(3):1-10(Co-author)
- 29. Komal Taneja**, Ashutosh Pareek, Pallavi Verma, **Vivek Jain**,Yashumati Ratan, Mahendra Singh Ashawat. Nanocomposite: An emerging tool for bone tissue transplantation and drug delivery. Indian Journal of Transplantation, **2012**,6(3):88-96 [Doi.org/10.1016/j.ijt.2012.07.002] (Co-author)
- 30. Rupindra Kaur**, Mohan Lal Jaiswal, **Vivek Jain**. Preliminary Pharmacognostical & Phytochemical investigation of Bark & Leaves of Lannea coromandelica Houtt.

- Merrill. International journal of pharmacognostical & phytochemistry research, **2012** 4(3); 82-88 (**Co-author**)
- 31.** Ashutosh Pareek, **Vivek Jain**, Swpanil Sharma, Yashumati rattan. Mushrooming of Herbal's in New Emerging Market of Cosmaceuticals. International journal of advance research in pharmaceutical and biosciences, **2012**, 1 (4): 302-310 (**Co-author**)
- 32.** **Vivek Jain**, Amteshwar Singh Jaggi, Nirmal Singh. Non-beneficial effects of rosiglitazone in oxaliplatin-induced cold hyperalgesia in rats. Journal of Pharmaceutical Negative Results, **2011**, 2 ( 1) :28-34 [DOI: 10.4103/0976-9234.82985] (**First author**)
- 33.** Amteshwar Singh Jaggi, **Vivek Jain**, Nirmal Singh. Animal models of neuropathic pain” Fundamental and clinical pharmacology, **2009**, 25(1):1- 28[DOI:10.1111/j.1472-8206.2009.00801.x] (**Impact Factor:2.3**) (**Co-author**)
- 34.** **Vivek Jain**, Amteshwar Singh Jaggi, Nirmal Singh. Amelorative Potential of Rosiglitazone a PPAR-Gamma Agonist in Tibial and Sural Nerve Transection induced painful neuropathy in rats” Pharmacological Research, **2009**, 59: 385-392 [DOI:10.1016/j.phrs.2009.02.001] (**Impact Factor: 4.4**) **Citation 38** (**First author**)

## E-Content Development

**Pharmacovigilance lectures with all four quadrants (Lecture + Questions + Notes + Discussion)**

**As per the B.Pharm VIII Semester Syllabus**

**Subject Code: BP 805ET**

<b>S. No.</b>	<b>Topic Covered in Lecture</b>	<b>Lecture + MCQ + Discussion Web Link</b>	<b>Date of Creation</b>
1	Introduction of Pharmacovigilance What is Pharmacovigilance? Purpose & Activity;MCQ	<a href="https://youtu.be/86-MT1m_rT0">https://youtu.be/86-MT1m_rT0</a>	25 June 2021
2	History of Pharmacovigilance ; Development of Pharmacovigilance;MCQ	<a href="https://youtu.be/T_5BJ1rL4uw">https://youtu.be/T_5BJ1rL4uw</a>	27 June 2021
3	Pharmacovigilance Programme of India; PVPI Mission, History ; Objective of PVPI; MCQ on PVPI	<a href="https://youtu.be/GlF7tZrjLeg">https://youtu.be/GlF7tZrjLeg</a>	29 June 2021
4	WHO international drug monitoring programme	<a href="https://youtu.be/QedfIWbRWdc">https://youtu.be/QedfIWbRWdc</a>	5 July 2021
5	Definitions and classification of ADR	<a href="https://youtu.be/SzEYY33RcZI">https://youtu.be/SzEYY33RcZI</a>	12 July 2021
6	Classification of Adverse Drug Reaction   Mnemonic   TYPE of ADR   MCQ on ADR	<a href="https://youtu.be/V1LGAE083BU">https://youtu.be/V1LGAE083BU</a>	13 July 2021
7	Detection of ADR; MCQ	<a href="https://youtu.be/C6cPF14IIS8">https://youtu.be/C6cPF14IIS8</a>	15 July 2021

8	REPORTING OF ADVERSE DRUG REACTION   What, where, how and whom to report ADR ? PHARMACOVIGILANCE MCQ	<a href="https://youtu.be/LbOu86w3EPw">https://youtu.be/LbOu86w3EPw</a>	16 July 2021
9	Severity and Seriousness of ADR   Hartwig Scale   MCQ on ADR   Classification of ADR Severity	<a href="https://youtu.be/WUq64s0dNq4">https://youtu.be/WUq64s0dNq4</a>	19 July 2021
10	Casualty Assessment Method   Naranjo Scale   Casualty Grading   Algorithm	<a href="https://youtu.be/sTPLPH4EigA">https://youtu.be/sTPLPH4EigA</a>	22 July 2021
11	Management of adverse drug reactions; MCQ	<a href="https://youtu.be/ssyuqLf-qW4">https://youtu.be/ssyuqLf-qW4</a>	23 July 2021
12	Naranjo Scale	<a href="https://youtu.be/ayeywcC3ca0">https://youtu.be/ayeywcC3ca0</a>	29 July 2021
13	Terminologies of adverse medication related events; Regulatory terminologies; WHO drug dictionary	<a href="https://youtu.be/2Y2UGvXuDjo">https://youtu.be/2Y2UGvXuDjo</a>	30 July 2021
14	Anatomical, Therapeutic and Chemical Classification of Drug   ATC classification	<a href="https://youtu.be/TVYkp9jWBEM">https://youtu.be/TVYkp9jWBEM</a>	1 oct 2021
15	International classification of diseases	<a href="https://youtu.be/LesA4hf1H4Y">https://youtu.be/LesA4hf1H4Y</a>	19 Oct 2021
16	Daily defined doses	<a href="https://youtu.be/y2cloulWU1Q">https://youtu.be/y2cloulWU1Q</a>	18 Oct 2021
17	International Non proprietary Names for drugs	<a href="https://youtu.be/Dfrj9Iv5nIg">https://youtu.be/Dfrj9Iv5nIg</a>	2 Oct 2021

18	WHO adverse reaction terminologies; Basic drug information resources ; Specialised resources for A	<a href="https://youtu.be/CjmL8uqf42k">https://youtu.be/CjmL8uqf42k</a>	31 July 2021
19	MedDRA and Standardised MedDRA queries	<a href="https://youtu.be/NxrvRheKpS8">https://youtu.be/NxrvRheKpS8</a>	20 Oct 2021
20	Establishing in a hospital	<a href="https://youtu.be/Ua5zc0dTk00">https://youtu.be/Ua5zc0dTk00</a>	4 feb 2022
21	Establishing a national programme	<a href="https://youtu.be/3oG8nwupZ4g">https://youtu.be/3oG8nwupZ4g</a>	14 Feb 2021
22	Contract Research Organisations (CROs)	<a href="https://youtu.be/JLOBp_K2ZV0">https://youtu.be/JLOBp_K2ZV0</a>	28 Jan 2022
23	Vaccine Pharmacovigilance	<a href="https://youtu.be/HTJElrNyEbk">https://youtu.be/HTJElrNyEbk</a>	30 Nov 2021
24	Vaccination failure	<a href="https://youtu.be/2gLzITAtwm8">https://youtu.be/2gLzITAtwm8</a>	1 Dec 2021
25	Adverse events following immunization	<a href="https://youtu.be/W8iRw74Yzlc">https://youtu.be/W8iRw74Yzlc</a>	19 Feb 2022
26	Pharmacovigilance Methods   Classification of Pharmacovigilance Methods	<a href="https://youtu.be/h56GU7FLYEI">https://youtu.be/h56GU7FLYEI</a>	21 feb 2022
27	Passive Surveillance   Spontaneous reports and case series	<a href="https://youtu.be/8gg8Fufidmk">https://youtu.be/8gg8Fufidmk</a>	23 feb 2022
28	Active surveillance   Sentinel Sites   Drug Event Monitoring   Registries   Cohort Study	<a href="https://youtu.be/-8rFw0MpbJA">https://youtu.be/-8rFw0MpbJA</a>	25 feb 2022
29	Comparative observational studies – Cross sectional study	<a href="https://youtu.be/urX1ejgtYgA">https://youtu.be/urX1ejgtYgA</a>	3 March 2022
30	Case Control Study	<a href="https://youtu.be/YkzE7uzEZhg">https://youtu.be/YkzE7uzEZhg</a>	5 March 2022

31	Cross Sectional Study   Pros & Cons of Cross Sectional	<a href="https://youtu.be/9r3rl_RnFoo">https://youtu.be/9r3rl_RnFoo</a>	8 march 2022
32	Targeted Clinical Investigation	<a href="https://youtu.be/xB2PQsq-8qI">https://youtu.be/xB2PQsq-8qI</a>	14 march 2022
33	Effective communication in Pharmacovigilance	<a href="https://youtu.be/4LzZsUj_sN8">https://youtu.be/4LzZsUj_sN8</a>	15 March 2022
34	Communication in Drug Safety Crisis management	<a href="https://youtu.be/EVkgkCNG5VE">https://youtu.be/EVkgkCNG5VE</a>	16 March 2022
35	Communicating with Regulatory Agencies, Business Partners, Healthcare facilities & Media	<a href="https://youtu.be/_asH_s6431o">https://youtu.be/_asH_s6431o</a>	19 March 2022
36	Safety data generation; Pre clinical phase	<a href="https://youtu.be/sbm0ppPZCyk">https://youtu.be/sbm0ppPZCyk</a>	4 April 2022
37	Clinical Trial Introduction   Phases of Clinical Trial; Post approval phase (PMS)	<a href="https://youtu.be/UHG411rMmw">https://youtu.be/UHG411rMmw</a>	21 March 2022
38	Organization and objectives of ICH- part 1	<a href="https://youtu.be/WX-cUwtwcXg">https://youtu.be/WX-cUwtwcXg</a>	6 April 2022
39	Organization and objectives of ICH   Series & Codes- Part 2	<a href="https://youtu.be/X12sxXr1un8">https://youtu.be/X12sxXr1un8</a>	9 April 2022
40	Expedited reporting & Post approval expedited reporting	<a href="https://youtu.be/5HFoX_QtEeo">https://youtu.be/5HFoX_QtEeo</a>	13 April 2022
41	Individual case safety reports- par 1	<a href="https://youtu.be/Lo-6BFanx8Y">https://youtu.be/Lo-6BFanx8Y</a>	18 April 2022
42	ICH ICSR E2B R3 Guideline   How to Fill ICSR   What Data Needed in Individual case safety reports- part 2	<a href="https://youtu.be/wH1X71Hc2hE">https://youtu.be/wH1X71Hc2hE</a>	22 April 2022



43	Periodic safety update reports- Part 1	<a href="https://youtu.be/ISkpAGP1TSU">https://youtu.be/ISkpAGP1TSU</a>	29 April 2022
44	Periodic safety update reports- Part 2	<a href="https://youtu.be/c8gEgCz2G9o">https://youtu.be/c8gEgCz2G9o</a>	4 May 2022
45	Pharmacogenomics of adverse drug reactions; Genetics related ADR with example focusing PK parameters.	<a href="https://youtu.be/uTxuygxnuWc">https://youtu.be/uTxuygxnuWc</a>	22 May 2022
46	Drug safety evaluation in special population- Paediatrics- Part 1	<a href="https://youtu.be/Nhs9v3a2CFA">https://youtu.be/Nhs9v3a2CFA</a>	4 June 2022
47	Drug safety evaluation in special population- Paediatrics- Part-2	<a href="https://youtu.be/jBFp_EaHpUk">https://youtu.be/jBFp_EaHpUk</a>	6 June 2022
48	Drug safety evaluation in Pregnancy and lactation	<a href="https://youtu.be/TvL7Vr7CRpU">https://youtu.be/TvL7Vr7CRpU</a>	21 May 2022
49	Drug safety evaluation in Geriatrics	<a href="https://youtu.be/EXBfqKTWN3I">https://youtu.be/EXBfqKTWN3I</a>	16 May 2022
50	CIOMS Working Group	<a href="https://youtu.be/nDA1AnILdHA">https://youtu.be/nDA1AnILdHA</a>	5 May 2022
51	CIOMS Forms	<a href="https://youtu.be/oODTxRYGDpo">https://youtu.be/oODTxRYGDpo</a>	6 May 2022
52	CDSCO (India) and Pharmacovigilance	<a href="https://youtu.be/Hd_4CaOzfbI">https://youtu.be/Hd_4CaOzfbI</a>	10 May 2022
53	D&C Act and Schedule Y	<a href="https://youtu.be/C8A70Qd2I7I">https://youtu.be/C8A70Qd2I7I</a>	10 June 2022
54	Differences in Indian and global pharmacovigilance requirements	<a href="https://youtu.be/8Ai_fq3XCPk">https://youtu.be/8Ai_fq3XCPk</a>	7 May 2022
55	MCQ on Clinical Trials   Clinical Trials Question	<a href="https://youtu.be/7NNUMrdgQ9o">https://youtu.be/7NNUMrdgQ9o</a>	23 March 2022

	Answer		
56	MCQ of Communication in Drug Safety Crisis management	<a href="https://youtu.be/MUIGlVHJm44">https://youtu.be/MUIGlVHJm44</a>	24 March 2022
57	MCQ on Effective communication in Pharmacovigilance	<a href="https://youtu.be/6t0mzJ480BU">https://youtu.be/6t0mzJ480BU</a>	25 March 2022
58	MCQ on Communicating with Regulatory Agencies, Business Partners, Healthcare facilities & Media	<a href="https://youtu.be/yBDu8DDZs2c">https://youtu.be/yBDu8DDZs2c</a>	26 March 2022
59	MCQ Case Control Study with Answer	<a href="https://youtu.be/G6OHfXuNmFc">https://youtu.be/G6OHfXuNmFc</a>	27 March 2022
60	MCQ of Cross Sectional Study with Answer	<a href="https://youtu.be/SYeQgxZVjM8">https://youtu.be/SYeQgxZVjM8</a>	28 March 2022
61	MCQ TARGETED CLINICAL ANSWER	<a href="https://youtu.be/-cQXyulxZ3E">https://youtu.be/-cQXyulxZ3E</a>	29 March 2022
62	MCQ with Answer on ICH Guidelines for Pharmacovigilance   Part -1	<a href="https://youtu.be/U08epUnyfa4">https://youtu.be/U08epUnyfa4</a>	9 April 2022
63	ICH Guidelines for Pharmacovigilance   Part -2	<a href="https://youtu.be/X12sxXr1un8">https://youtu.be/X12sxXr1un8</a>	10 April 2022
64	<a href="#">Schedule Y Explained in Hindi  </a>	<a href="https://youtu.be/M2o1M4GB9Sg">https://youtu.be/M2o1M4GB9Sg</a>	
65	<a href="#">Amendments of Schedule Y </a>	<a href="https://youtu.be/sDrovcpUn_4">https://youtu.be/sDrovcpUn_4</a>	

## Career Guidance Lecture

S. No	Topic	Youtube Video link
1	Scope of Pharmacy	<a href="https://youtu.be/Ybj8iojYyZo">https://youtu.be/Ybj8iojYyZo</a>
2	<a href="#">Government Job After B.Pharm  </a>	<a href="https://youtu.be/ESMp5GSIomk">https://youtu.be/ESMp5GSIomk</a>
3	<a href="#">Best Govt Jobs After B Pharma</a>	<a href="https://youtu.be/bdDZ85fByRU">https://youtu.be/bdDZ85fByRU</a>
4	<a href="#">M.Pharm Pharmacology Job Opportunity &amp; Scope</a>	<a href="https://youtu.be/pF7upfh1-WY">https://youtu.be/pF7upfh1-WY</a>
5	<a href="#">M.Pharm Pharmaceutics Job Opportunity   Best Career Option in Pharmaceutics   High Salary   Pharmacy</a>	<a href="https://youtu.be/OaBRga-dQIQ">https://youtu.be/OaBRga-dQIQ</a>
6	<a href="#">Medicinal Chemistry Job Opportunity</a>	<a href="https://youtu.be/dtqG1s27B-o">https://youtu.be/dtqG1s27B-o</a>
7	<a href="#">Quality Assurance Person Salary  QA, QC Jobs</a>	<a href="https://youtu.be/UcDoxbQjvEg">https://youtu.be/UcDoxbQjvEg</a>
8	<a href="#">Analytical Chemistry Job Opportunity</a>	<a href="https://youtu.be/AFa5F8MwiNk">https://youtu.be/AFa5F8MwiNk</a>
9	<a href="#">Pharmacovigilance Job Opportunity  </a>	<a href="https://youtu.be/RqrPsphlD1I">https://youtu.be/RqrPsphlD1I</a>
10	<a href="#">Medical Coding Scope after Pharmacy</a>	<a href="https://youtu.be/KX7m-6gkvDI">https://youtu.be/KX7m-6gkvDI</a>
11	<a href="#">Career in Drug Regulatory Affairs</a>	<a href="https://youtu.be/gPjs-UvQqzw">https://youtu.be/gPjs-UvQqzw</a>
12	<a href="#">Medical Writing Career   Job Opportunity</a>	<a href="https://youtu.be/-PfYKipf0nQ">https://youtu.be/-PfYKipf0nQ</a>
13	<a href="#">Clinical Research Jobs   Clinical Research</a>	<a href="https://youtu.be/ZGGY5RhW-S4">https://youtu.be/ZGGY5RhW-S4</a>
14	<a href="#">Clinical Research Interview Question Ans</a>	<a href="https://youtu.be/ZZ6dZ_uRhyU">https://youtu.be/ZZ6dZ_uRhyU</a>

15	<a href="#">Top 37 Drug Regulatory Affairs Interview Ques</a>	<a href="https://youtu.be/v0Tubp99JjI">https://youtu.be/v0Tubp99JjI</a>
16	<a href="#">Pharmacovigilance Interview Question</a>	<a href="https://youtu.be/tbJkqDe45hI">https://youtu.be/tbJkqDe45hI</a>

## Human Anatomy & Physiology Semester I & II

S. No	Topic	Youtube Video link
<b>Introduction</b>		
1	Introduction of HUMAN ANATOMY	<a href="https://youtu.be/ZM2uQBqs90o">https://youtu.be/ZM2uQBqs90o</a>
2	Levels of Structural Organization	<a href="https://youtu.be/ZT9jCBiipgk">https://youtu.be/ZT9jCBiipgk</a>
3	What is Homeostasis ? Positive & Negative Feedback System	<a href="https://youtu.be/2WdJfV90nuA">https://youtu.be/2WdJfV90nuA</a>
4	<a href="#">Anatomical Terminology in Hindi</a>	<a href="https://youtu.be/4wgEa4YvLG8">https://youtu.be/4wgEa4YvLG8</a>
<b>HEMATOLOGY</b>		
5	<a href="#">Blood function in Hindi</a>	<a href="https://youtu.be/E3Z6P3eXnps">https://youtu.be/E3Z6P3eXnps</a>
6	<a href="#">Blood Composition   Learning tricks</a>	<a href="https://youtu.be/uy-uv-NHqsw">https://youtu.be/uy-uv-NHqsw</a>
7	<a href="#">RBC Structure and Function in Hindi  </a>	<a href="https://youtu.be/QINgWkoISyg">https://youtu.be/QINgWkoISyg</a>
8	<a href="#">RBC Life Cycle</a>	<a href="https://youtu.be/HvRgNrTTAgQ">https://youtu.be/HvRgNrTTAgQ</a>
9	<a href="#">WBC in Hindi  </a>	<a href="https://youtu.be/wB3MfgHRDvQ">https://youtu.be/wB3MfgHRDvQ</a>
10	<a href="#">WBC in Hindi- Part -2</a>	<a href="https://youtu.be/marx4_TJPY">https://youtu.be/marx4_TJPY</a>

11	<a href="#">HIGH &amp; LOW WBC COUNT</a>	<a href="https://youtu.be/s1Dw0CbQgs8">https://youtu.be/s1Dw0CbQgs8</a>
12	<a href="#">Hemostasis in Hindi</a>	<a href="https://youtu.be/enDWoxsbww4">https://youtu.be/enDWoxsbww4</a>
13	<a href="#">Platelet Plug Formation</a>	<a href="https://youtu.be/YbpFlySWwxI">https://youtu.be/YbpFlySWwxI</a>
14	<a href="#">Blood Clotting Factors Tricks</a>	<a href="https://youtu.be/IF3PvQHAF3w">https://youtu.be/IF3PvQHAF3w</a>
15	<a href="#">Blood Clotting in Hindi</a>	<a href="https://youtu.be/VUMGI11UnsI">https://youtu.be/VUMGI11UnsI</a>
16	<a href="#">Blood Clotting in English</a>	<a href="https://youtu.be/ovII8JK4PV4">https://youtu.be/ovII8JK4PV4</a>
17	<a href="#">Role of vitamin K in Blood Clotting</a>	<a href="https://youtu.be/y2HX-lAeIkY">https://youtu.be/y2HX-lAeIkY</a>
18	<a href="#">How Blood Clot Dissolve ?</a>	<a href="https://youtu.be/QyPIzBLuDp8">https://youtu.be/QyPIzBLuDp8</a>
19	<a href="#">Blood Group   Blood Type   ABO Blood Gro</a>	<a href="https://youtu.be/0PKI4MpABnQ">https://youtu.be/0PKI4MpABnQ</a>
20	<a href="#">Blood Transfusion in Hindi</a>	<a href="https://youtu.be/buRwi03dees">https://youtu.be/buRwi03dees</a>
21	<a href="#">Blood Transfusion English</a>	<a href="https://youtu.be/yVmBI0cYkYI">https://youtu.be/yVmBI0cYkYI</a>
22	<a href="#">Blood Indices   PCV, MCV, MCH, MCHC</a>	<a href="https://youtu.be/WgPswO7rUk">https://youtu.be/WgPswO7rUk</a>
23	<a href="#">ERYTHROBLASTOSIS FETALIS IN HINDI</a>	<a href="https://youtu.be/wR9CENMwVUA">https://youtu.be/wR9CENMwVUA</a>
24	<a href="#">Numerical of Blood Indices</a>	<a href="https://youtu.be/x3XmUHI5tjs">https://youtu.be/x3XmUHI5tjs</a>
25	<a href="#">Classification of Anemia in Hindi</a>	<a href="https://youtu.be/Oz96CcVQ2hE">https://youtu.be/Oz96CcVQ2hE</a>
26	<a href="#">Classification of Anemia (Part-2)</a>	<a href="https://youtu.be/a3CxLj3eMTg">https://youtu.be/a3CxLj3eMTg</a>
27	<a href="#">Iron Deficiency anemia</a>	<a href="https://youtu.be/SthEtsPwvuM">https://youtu.be/SthEtsPwvuM</a>
28	<a href="#">Pernicious Anemia   Vitamin B 12</a>	<a href="https://youtu.be/9vIMKQ-bfFk">https://youtu.be/9vIMKQ-bfFk</a>
29	<a href="#">SICKLE CELL ANEMIA  </a>	<a href="https://youtu.be/pOslGaLHhVQ">https://youtu.be/pOslGaLHhVQ</a>

<b>JOINTS</b>		
30	<a href="#">Joints Classifications   Tricks</a>	<a href="https://youtu.be/zPNcTN62nAc">https://youtu.be/zPNcTN62nAc</a>
31	<a href="#">SYNOVIAL JOINTS TRICKS</a>	<a href="https://youtu.be/OMakkWMgKII">https://youtu.be/OMakkWMgKII</a>
32	<a href="#">Synovial Joints in Hindi</a> full detail	<a href="https://youtu.be/pH0nH2c2ah8">https://youtu.be/pH0nH2c2ah8</a>
33	<a href="#">Movements of Joints in Hindi</a>	<a href="https://youtu.be/esXmnRKBtjE">https://youtu.be/esXmnRKBtjE</a>
34	<a href="#">Saddle Joint   Locomotion and Movement</a>	<a href="https://youtu.be/FscrxPdVFuY">https://youtu.be/FscrxPdVFuY</a>
35	<a href="#">Hinge Joint   Locomotion and Movement</a>	<a href="https://youtu.be/UuiI65w5A0s">https://youtu.be/UuiI65w5A0s</a>
36	<a href="#">Condylod Joint   Condylod Joint Example</a>	<a href="https://youtu.be/DN1ocjPN2rk">https://youtu.be/DN1ocjPN2rk</a>
37	<a href="#">Ball and Socket Joint</a>	<a href="https://youtu.be/6Y_KkDrByRs">https://youtu.be/6Y_KkDrByRs</a>
38	<b>Skeleton System</b>	
39	<a href="#">Skeleton System Classification Trick</a> Axial Skeleton system	<a href="https://youtu.be/3euLm7Bh3wU">https://youtu.be/3euLm7Bh3wU</a>
40	<a href="#">Skeleton System Classification</a> Appendicular System	<a href="https://youtu.be/C8_AFpJ1kYs">https://youtu.be/C8_AFpJ1kYs</a>
41	<a href="#">Differences between male and female</a> pelvis	<a href="https://youtu.be/csxHbdD_2cQ">https://youtu.be/csxHbdD_2cQ</a>
42	<a href="#">Coccyx Anatomy  </a>	<a href="https://youtu.be/Knphd967_zs">https://youtu.be/Knphd967_zs</a>
43	<a href="#">MCQ on Axial Skeletal System</a>	<a href="https://youtu.be/k-lhFJgyQ7Q">https://youtu.be/k-lhFJgyQ7Q</a>
44	<a href="#">Carpal bones   Trick &amp; Mnemonic</a>	<a href="https://youtu.be/qTWThxUw3Eg">https://youtu.be/qTWThxUw3Eg</a>
45	<a href="#">Ulna Anatomy   Upper Limb Bone</a>	<a href="https://youtu.be/lg3jVydOmLs">https://youtu.be/lg3jVydOmLs</a>
46	<a href="#">Humerus Anatomy   Humerus Bon</a>	<a href="https://youtu.be/VXLh9QSvDzM">https://youtu.be/VXLh9QSvDzM</a>
47	<a href="#">Fibula Bone Anatomy</a>	<a href="https://youtu.be/I07MKCeIDj4">https://youtu.be/I07MKCeIDj4</a>

48	<a href="#">Femur Anatomy   Femur Bone Functions</a>	<a href="https://youtu.be/zGAs_8ExbWA">https://youtu.be/zGAs_8ExbWA</a>
49	<a href="#">Scapula Anatomy and Function</a>	<a href="https://youtu.be/uodGGoUae2EQ">https://youtu.be/uodGGoUae2EQ</a>
50	<a href="#">Lumber Vertebrae   Skeleton System</a>	<a href="https://youtu.be/L_5RBvILHUo">https://youtu.be/L_5RBvILHUo</a>
51	<a href="#">Metatarsal Bone Anatomy &amp; Function </a>	<a href="https://youtu.be/CGVUMVXCNm8">https://youtu.be/CGVUMVXCNm8</a>
52	<a href="#">Patella Bone Anatomy &amp; Function  Lower</a>	<a href="https://youtu.be/MHiAxXYXpE8">https://youtu.be/MHiAxXYXpE8</a>
53	<a href="#">Phalanges Anatomy   Upper Limb Bones</a>	<a href="https://youtu.be/J0ni60Es8A4">https://youtu.be/J0ni60Es8A4</a>
54	<a href="#">Radius Bone Anatomy   Upper Limb Bones   Skeleton System   HAP Lecture Notes   NEET Biology</a>	<a href="https://youtu.be/-DZea2S_-0E">https://youtu.be/-DZea2S_-0E</a>
55	<a href="#">Comparison of Cervical, Thoracic, Lumbar Vertebrae   Vertebral Column Bones   Vertebrae differences</a>	<a href="https://youtu.be/rEiDbE5zOC4">https://youtu.be/rEiDbE5zOC4</a>
56	<a href="#">Tarsal bone Anatomy   Lower Limb Bones</a>	<a href="https://youtu.be/zZj8fZSdlA8">https://youtu.be/zZj8fZSdlA8</a>
57		
58	<a href="#">Calcaneus Bone Anatomy</a>	<a href="https://youtu.be/sNKDKNjk0bs">https://youtu.be/sNKDKNjk0bs</a>
59	<a href="#">Metacarpal Bone Anatomy  </a>	<a href="https://youtu.be/_oBmYV14VVg">https://youtu.be/_oBmYV14VVg</a>
<b>Nervous System</b>		
60	<a href="#">Cranial Nerve Mnemonics</a>	<a href="https://youtu.be/8NrWZOkZqAA">https://youtu.be/8NrWZOkZqAA</a>
61	<a href="#">Spinal Nerve Mnemonics</a>	<a href="https://youtu.be/Uh7WpxJgCgg">https://youtu.be/Uh7WpxJgCgg</a>
<b>Muscle Tissue - Skeletal Muscle</b>		
62	<a href="#">Muscle Tissue Introduction- part 1</a>	<a href="https://youtu.be/E1H2j40I0K4">https://youtu.be/E1H2j40I0K4</a>
63	<a href="#">Muscle Tissue -Part 2</a>	<a href="https://youtu.be/O_33NzbHm4w">https://youtu.be/O_33NzbHm4w</a>
64	<a href="#">Muscle Tissue Part 3</a>	<a href="https://youtu.be/-Fsjq_c_JmY">https://youtu.be/-Fsjq_c_JmY</a>

65	<a href="#">Muscle Tissue Part 4</a>	<a href="https://youtu.be/ViE6yLWLUK8">https://youtu.be/ViE6yLWLUK8</a>
66	<a href="#">Types of Muscle Fiber</a>	<a href="https://youtu.be/ox4HdEVyUek">https://youtu.be/ox4HdEVyUek</a>
67	<a href="#">Skeletal , Cardiac and Smooth Muscle Comparison</a>	<a href="https://youtu.be/7X5vnLgA6yo">https://youtu.be/7X5vnLgA6yo</a>
68	<a href="#">Smooth Muscle Tissue Anatomy</a>	<a href="https://youtu.be/TQOtOY4NT8Uc">https://youtu.be/TQOtOY4NT8Uc</a>
69	<a href="#">Cardiac Muscle Tissue Anatomy</a>	<a href="https://youtu.be/mAOKu4FRF00">https://youtu.be/mAOKu4FRF00</a>
70	<a href="#">Smooth Muscle Contraction and Relaxation</a>	<a href="https://youtu.be/AVAoews6GdE">https://youtu.be/AVAoews6GdE</a>
71	<a href="#">Neuromuscular Junction (Hinglish)</a>	<a href="https://youtu.be/kdjrfue8LIo">https://youtu.be/kdjrfue8LIo</a>
<b>Urinary System/Excretory System</b>		
72	<a href="#">Anatomy of Kidney   Structure of Kidney</a>	<a href="https://youtu.be/6XRy8nYdEIs">https://youtu.be/6XRy8nYdEIs</a>
73	<a href="#">kidney blood supply</a>	<a href="https://youtu.be/BCKtA-sdhuo">https://youtu.be/BCKtA-sdhuo</a>
74	Kidney Function (Hindi)   Why We Need Kidney   Urinary System	<a href="https://youtu.be/83d8lyCSgxU">https://youtu.be/83d8lyCSgxU</a>
75	Renal Physiology: Glomerulus & Bowman capsule	<a href="https://youtu.be/Kk-W7meDpf8">https://youtu.be/Kk-W7meDpf8</a>
76	Renal Physiology: GFR	<a href="https://youtu.be/AtIP-EGcyz0">https://youtu.be/AtIP-EGcyz0</a>
77	Urinary System Proximal Convoluted Tubule-#PCT  #Reabsorption & #Secretion	<a href="https://youtu.be/4NqyzLhQHzk">https://youtu.be/4NqyzLhQHzk</a>
78	Urinary System: Loop of Henle Physiology   Countercurrent Multiplier   Vasa Recta   NEET Biology	<a href="https://youtu.be/cJYncxMGYTw">https://youtu.be/cJYncxMGYTw</a>
79	Urinary System: Loop of Henle Physiology   Countercurrent Multiplier   Vasa Recta   NEET Biology	<a href="https://youtu.be/cJYncxMGYTw">https://youtu.be/cJYncxMGYTw</a>
80	Urinary System: Distal Convoluted Tubule Reabsorption and Secretion   NEET Biology   GPAT  UGC NET	<a href="https://youtu.be/PLlwNldbZqM">https://youtu.be/PLlwNldbZqM</a>



81	Urinary System: Collecting Duct Reabsorption & Secretion  NEET    GPAT   Anatomy Lecture (Hinglish)	<a href="https://youtu.be/6SSQs8p5PnE">https://youtu.be/6SSQs8p5PnE</a>
82	Urinary System: Regulation of GFR  MCQ  NCERT Biology   NEET   GPAT  CSIR NET  Nursing exam-Hinglish	<a href="https://youtu.be/qDt12UjwGLk">https://youtu.be/qDt12UjwGLk</a>
83	Renin Angiotensin Aldosterone System - RAAS Mechanism   Urinary System Regulation  GPAT   NEET	<a href="https://youtu.be/kknTIg_E1nk">https://youtu.be/kknTIg_E1nk</a>
84	Urinary System: Micturition Reflex   GPAT  NEET   Biology Lecture  CSIR NET  Anatomy	<a href="https://youtu.be/-pDIIdNnd3o">https://youtu.be/-pDIIdNnd3o</a>
<b>Reproductive System</b>		
86	Female Reproductive System Function  NEET  Biology Lecture  Anatomy  GPAT  CSIR NET  GATE Pharmacist	<a href="https://youtu.be/DJaeSoDEOu8">https://youtu.be/DJaeSoDEOu8</a>
87	<a href="#">Introduction of Female Reproductive Syst</a>	<a href="https://youtu.be/SR_ZDHrEQ3M">https://youtu.be/SR_ZDHrEQ3M</a>
88	<a href="#">Female Reproductive System   Histology</a>	<a href="https://youtu.be/2RdvpvKlypI">https://youtu.be/2RdvpvKlypI</a>
89	<a href="#">Fallopian Tube Anatomy</a>	<a href="https://youtu.be/wRQOz_8iMa8">https://youtu.be/wRQOz_8iMa8</a>
90	<a href="#">Uterus Anatomy   Structure &amp; Function</a>	<a href="https://youtu.be/4TRhacYrKvc">https://youtu.be/4TRhacYrKvc</a>
91	<a href="#">Vagina Anatomy   Histology of Vagina</a>	<a href="https://youtu.be/DJWawaMQdwk">https://youtu.be/DJWawaMQdwk</a>
92	<a href="#">External female genitals Anatomy in Hindi</a>	<a href="https://youtu.be/yeh51fn3hfg">https://youtu.be/yeh51fn3hfg</a>
93	<a href="#">FEMALE REPRODUCTIVE CYCLE IN HINDI  </a>	<a href="https://youtu.be/bxwQQu25cBo">https://youtu.be/bxwQQu25cBo</a>
94	<a href="#">Oogenesis in Hindi   Oogenesis Process  </a>	<a href="https://youtu.be/qkxjDIHBV7k">https://youtu.be/qkxjDIHBV7k</a>
95	<a href="#">Menstrual cycle in Hindi  </a>	<a href="https://youtu.be/-c3iqBxoZVA">https://youtu.be/-c3iqBxoZVA</a>
96	<a href="#">Perineum Anatomy   MCQ</a>	<a href="https://youtu.be/E2puPDGjiPA">https://youtu.be/E2puPDGjiPA</a>

<b>Male Reproductive system</b>		
97	<a href="#">Male Reproductive System   Function</a>	<a href="https://youtu.be/pglwIjdCSIw">https://youtu.be/pglwIjdCSIw</a>
98	<a href="#">Scrotum in Hindi   Male Reproductive Syste</a>	<a href="https://youtu.be/KihiL-Oyn9Q">https://youtu.be/KihiL-Oyn9Q</a>
99	<a href="#">Testes Structure   Male Reproductive Sys</a>	<a href="https://youtu.be/IUPFx5NzqGs">https://youtu.be/IUPFx5NzqGs</a>
100	<a href="#">Spermatogenesis in Hindi</a>	<a href="https://youtu.be/I2zzExQLVjU">https://youtu.be/I2zzExQLVjU</a>
101	<a href="#">Hormonal Control on Spermatogenesis</a>	<a href="https://youtu.be/KyU-qkzYUIU">https://youtu.be/KyU-qkzYUIU</a>
102	<a href="#">Sperm Structure   Sperm Anatomy  </a>	<a href="https://youtu.be/pFq1FSOwcMw">https://youtu.be/pFq1FSOwcMw</a>
103	<a href="#">Sperm Model   Science Model</a>	<a href="https://youtu.be/V0xlCE7gqQ4">https://youtu.be/V0xlCE7gqQ4</a>
104	<a href="#">Ducts of the Testes   Epididymis Anatomy</a>	<a href="https://youtu.be/XF7zEOJXIVg">https://youtu.be/XF7zEOJXIVg</a>
105	<a href="#">Ducts of the Testes- PART 2</a>	<a href="https://youtu.be/XegpOpDqh7s">https://youtu.be/XegpOpDqh7s</a>
106	<a href="#">Accessory Sex Glands   Male Reproductiv</a>	<a href="https://youtu.be/Td3n6XEw24U">https://youtu.be/Td3n6XEw24U</a>
107	<a href="#">Penis Anatomy   Penis Structure  </a>	<a href="https://youtu.be/rZwzVUy657I">https://youtu.be/rZwzVUy657I</a>
108	<a href="#">MECHANISM OF PENIS EREACTION</a>	<a href="https://youtu.be/PcEda7bXzyw">https://youtu.be/PcEda7bXzyw</a>
109	<a href="#">Fertilization in Hindi  </a>	<a href="https://youtu.be/Ikfjt4pxpsY">https://youtu.be/Ikfjt4pxpsY</a>
110	<a href="#">Fertilization Summary</a>	<a href="https://youtu.be/4xI72BkMH1Q">https://youtu.be/4xI72BkMH1Q</a>
<b>Endocrine System-</b>		
111	<a href="#">Hormone in Hindi   Hormone Classification</a>	<a href="https://youtu.be/w8U2Y8NOIRA">https://youtu.be/w8U2Y8NOIRA</a>
112	<a href="#">What is Hormone ?   Hormone functions</a>	<a href="https://youtu.be/St_Neup3iS0">https://youtu.be/St_Neup3iS0</a>
113	<a href="#">CIRCULATING &amp; LOCAL HORMONE</a>	<a href="https://youtu.be/XywZJnVvV5o">https://youtu.be/XywZJnVvV5o</a>

114	<a href="#">Hormone Mechanism of Action</a>	<a href="https://youtu.be/E8eJFTgEfLw">https://youtu.be/E8eJFTgEfLw</a>
115	<a href="#">Adrenaline &amp; Acetylcholine Mechanism of action</a>	<a href="https://youtu.be/aTTDzx2IQR4">https://youtu.be/aTTDzx2IQR4</a>
116	<a href="#">HORMONE MECHANISM SUMMARY</a>	<a href="https://youtu.be/QJK4v1XuFC4">https://youtu.be/QJK4v1XuFC4</a>
117	<a href="#">Lipid Soluble Hormone Mechanism  </a>	<a href="https://youtu.be/42hYcetGgWQ">https://youtu.be/42hYcetGgWQ</a>
118	<a href="#">Pituitary Gland Hormones Tricks</a>	<a href="https://youtu.be/KKiHVgB0J8w">https://youtu.be/KKiHVgB0J8w</a>
119	<a href="#">Thyroid Hormone Function</a>	<a href="https://youtu.be/39vng6Pw_28">https://youtu.be/39vng6Pw_28</a>
120	<a href="#">Adrenal Gland Hormone in Hindi</a>	<a href="https://youtu.be/sm7yRQGPCSc">https://youtu.be/sm7yRQGPCSc</a>
121	<a href="#">Hormones of Human Body</a>	<a href="https://youtu.be/VCXvJKy_TL8">https://youtu.be/VCXvJKy_TL8</a>
122	<a href="#">Pituitary Gland in Hindi</a>	<a href="https://youtu.be/5ezZB1SP4vY">https://youtu.be/5ezZB1SP4vY</a>
123	<a href="#">Hypophyseal Portal System in Hindi  </a>	<a href="https://youtu.be/nvsXfowSZIQ">https://youtu.be/nvsXfowSZIQ</a>
124	<a href="#">Human Growth Hormone Functions</a>	<a href="https://youtu.be/mkicit1C0Go">https://youtu.be/mkicit1C0Go</a>
125	<a href="#">Regulation of Prolactin Hormone</a>	<a href="https://youtu.be/B1ugKbqYe8U">https://youtu.be/B1ugKbqYe8U</a>
126	<a href="#">Antidiuretic Hormone (ADH)   Function</a>	<a href="https://youtu.be/Igz91B9zkbQ">https://youtu.be/Igz91B9zkbQ</a>
127	<a href="#">OXYTOCIN   Function of Oxytocin</a>	<a href="https://youtu.be/TEOTgE07mpg">https://youtu.be/TEOTgE07mpg</a>
128	<a href="#">Thyroid Hormone Synthesis  </a>	<a href="https://youtu.be/SGyd-TTOCfs">https://youtu.be/SGyd-TTOCfs</a>

## **E content development for Pharmacology**

S.NO	Name of the module	Date of launching e content	Link of the relevant document YOUTUBE
1	Agonist and Antagonist    What is Agonist & Antagonist	15 march 2020	<a href="https://www.youtube.com/watch?v=jw49hZWqYAE&amp;feature=youtu.be">https://www.youtube.com/watch?v=jw49hZWqYAE&amp;feature=youtu.be</a>
2	Receptor Effector Coupling    How Receptor take part in Action when Drug Bind    Learn by Pictograms	15 march 2020	<a href="https://www.youtube.com/watch?v=bP_Utfu2HWM&amp;feature=youtu.be">https://www.youtube.com/watch?v=bP_Utfu2HWM&amp;feature=youtu.be</a>
3	Sympathetic and Parasympathetic Nervous System Effect on Body Organs	18 Mar 2020	<a href="https://www.youtube.com/watch?v=N94nlxV4eG4&amp;feature=youtu.be">https://www.youtube.com/watch?v=N94nlxV4eG4&amp;feature=youtu.be</a>
4	cAMP PATHWAY   G-PROTEIN COUPLED RECEPTOR (GPCR)  Adenyl Cyclase Pathway	21 march 2020	<a href="https://www.youtube.com/watch?v=krHyf5_uEw&amp;feature=youtu.be">https://www.youtube.com/watch?v=krHyf5_uEw&amp;feature=youtu.be</a>
5	IP3 DAG signaling pathway PIP2-Cascade  GPCR Calcium & Phospholipase C Pathway	22 March 2020	<a href="https://www.youtube.com/watch?v=hI-4I9Yph98&amp;feature=youtu.be">https://www.youtube.com/watch?v=hI-4I9Yph98&amp;feature=youtu.be</a>
6	Superinfection  Pharmacology   Meaning & Explanation   Example & Treatment   How to Reduce it	23 March 2020	<a href="https://www.youtube.com/watch?v=fKN50BJZ0zc&amp;feature=youtu.be">https://www.youtube.com/watch?v=fKN50BJZ0zc&amp;feature=youtu.be</a>
7	Receptor Tyrosine Kinase (RTK)   Cell Signalling   Mechanisms  Transmembrane Enzyme Linked Receptor	24 March 2020	<a href="https://www.youtube.com/watch?v=SxKBn7AkQGM&amp;feature=youtu.be">https://www.youtube.com/watch?v=SxKBn7AkQGM&amp;feature=youtu.be</a>
8	JAK STAT Signaling Pathway  Trick to Learn Drugs Follow This Pathway  With MCQ of Exams	25 March 2020	<a href="https://www.youtube.com/watch?v=6W80zuu4PDA&amp;feature=youtu.be">https://www.youtube.com/watch?v=6W80zuu4PDA&amp;feature=youtu.be</a>
9	Nuclear Receptor Signaling-NRS  Structure & Function Mnemonics to Learn -Drugs Follow  Transcription	25 March 2020	<a href="https://www.youtube.com/watch?v=9R4YD49wpY0&amp;feature=youtu.be">https://www.youtube.com/watch?v=9R4YD49wpY0&amp;feature=youtu.be</a>
<b>Antimicrobial Pharmacology</b>			
10	<a href="#">Antibiotics Introduction Hindi</a>		<a href="https://youtu.be/LU27kz8-Hg0">https://youtu.be/LU27kz8-Hg0</a>
11	<a href="#">Problems With Use of Antibiotics</a>		<a href="https://youtu.be/eO03cgNVHjA">https://youtu.be/eO03cgNVHjA</a>
12	<a href="#">Choice of Antimicrobial</a>		<a href="https://youtu.be/wIWPUho">https://youtu.be/wIWPUho</a>

	<a href="#">Agent</a>		Mh6w
13	<a href="#">Choice of Antimicrobial Agent Part 2</a>		<a href="https://youtu.be/Ev8oX513jB8">https://youtu.be/Ev8oX513jB8</a>
14	<a href="#">Choice of Antimicrobial Agent Part 3</a>		<a href="https://youtu.be/oOKwVo6G0sM">https://youtu.be/oOKwVo6G0sM</a>
15	<a href="#">Combined use of Antimicrobial Agent  </a>		<a href="https://youtu.be/-WH1fHcvMEo">https://youtu.be/-WH1fHcvMEo</a>
16	<a href="#">Prophylactic use of Antibiotics</a>		<a href="https://youtu.be/h_q7K1RjvzE">https://youtu.be/h_q7K1RjvzE</a>
17	Minimum Inhibitory Concentration(MIC) Minimum Bactericidal Concentration Post Antibiotic Effect	26 March 2020	<a href="https://www.youtube.com/watch?v=t01OKisD9bg&amp;feature=youtu.be">https://www.youtube.com/watch?v=t01OKisD9bg&amp;feature=youtu.be</a>
<b>Sulfonamide &amp; Cotrimoxazole</b>			
18	Sulfonamide Pharmacology  Classification Learn By Tricks   Mechanism of Action  Spectrum-part 1	26 March 2020	<a href="https://www.youtube.com/watch?v=BELUkB3old8&amp;feature=youtu.be">https://www.youtube.com/watch?v=BELUkB3old8&amp;feature=youtu.be</a>
19	Sulfonamide Pharmacokinetics Side Effects learn by Tricks  Therapeutic Uses  Drug Interaction-Part-2	27 March 2020	<a href="https://www.youtube.com/watch?v=Nz4zYTCHnsE&amp;feature=youtu.be">https://www.youtube.com/watch?v=Nz4zYTCHnsE&amp;feature=youtu.be</a>
20	Corona Virus 2019 Origin and Evolution   Any China Link?	29 March 2020	<a href="https://www.youtube.com/watch?v=wVKch8W5D2I&amp;feature=youtu.be">https://www.youtube.com/watch?v=wVKch8W5D2I&amp;feature=youtu.be</a>
21	Covid-19 Pathophysiology	29 March 2020	<a href="https://www.youtube.com/watch?v=iifm5ZuGxIo&amp;feature=youtu.be">https://www.youtube.com/watch?v=iifm5ZuGxIo&amp;feature=youtu.be</a>
22	Cotrimoxazole Pharmacology Side Effects  Medical Uses Drug Interaction Trimethoprim sulfamethoxazole	30 March 2020	<a href="https://www.youtube.com/watch?v=HyD2UIQv5Ds&amp;feature=youtu.be">https://www.youtube.com/watch?v=HyD2UIQv5Ds&amp;feature=youtu.be</a>
23	Corona Virus Replication   nCoV19 COVID19 treatment Options Virus Site SARS Cov2 Therapeutic Target	30 March 2020	<a href="https://www.youtube.com/watch?v=6dtkxK6tsZ8&amp;feature=youtu.be">https://www.youtube.com/watch?v=6dtkxK6tsZ8&amp;feature=youtu.be</a>
<b><math>\beta</math>-Lactams Antibiotics</b>			
24	$\beta$ -Lactams Mechanisms of Action	3 April	<a href="https://www.youtube.com/">https://www.youtube.com/</a>

	Cell Wall Synthesis Inhibitor Penicillin Made Easy PART-1	2020	<a href="https://www.youtube.com/watch?v=cLHHOKOd4rg&amp;feature=youtu.be">watch?v=cLHHOKOd4rg&amp;feature=youtu.be</a>
25	Penicillin G Spectrum  Side Effect  Therapeutic Uses  Resistance Learn By Mnemonics & Tricks- PART-2	3 April 2020	<a href="https://www.youtube.com/watch?v=A38Lsoze8rE&amp;feature=youtu.be">https://www.youtube.com/watch?v=A38Lsoze8rE&amp;feature=youtu.be</a>
26	Penicillin Classification Tricks Acid & Penicillinase Resistance Extended Spectrum Penicillin PART-3	4 april 2020	<a href="https://www.youtube.com/watch?v=Nb82iLzrgtM&amp;feature=youtu.be">https://www.youtube.com/watch?v=Nb82iLzrgtM&amp;feature=youtu.be</a>
27	Corona Virus  (Covid-19) diagnosis Parameter	5 April 2020	<a href="https://www.youtube.com/watch?v=05hfkIVm-so&amp;feature=youtu.be">https://www.youtube.com/watch?v=05hfkIVm-so&amp;feature=youtu.be</a>
28	Beta Lactamase Inhibitor- Clavulanic Acid, Salbactam    Mechanism & Pharmacology   GPAT    NEET PG	7 April 2020	<a href="https://www.youtube.com/watch?v=cUCIS55jJTU&amp;feature=youtu.be">https://www.youtube.com/watch?v=cUCIS55jJTU&amp;feature=youtu.be</a>
29	Cephalosporin Classification Mnemonics Learn five Generation	7 April 2020	<a href="https://www.youtube.com/watch?v=BYD92rgzO70&amp;feature=youtu.be">https://www.youtube.com/watch?v=BYD92rgzO70&amp;feature=youtu.be</a>
30	Antitubercular drugs classification Mnemonics and Tricks	9 April 2020	<a href="https://www.youtube.com/watch?v=fUO5Rj3hKcQ&amp;feature=youtu.be">https://www.youtube.com/watch?v=fUO5Rj3hKcQ&amp;feature=youtu.be</a>
31	Cholinergic Drugs classification Mnemonics & Tricks	9 April 2020	<a href="https://www.youtube.com/watch?v=SvVuGpc8ivw&amp;feature=youtu.be">https://www.youtube.com/watch?v=SvVuGpc8ivw&amp;feature=youtu.be</a>
32	Adrenergic drug classification	10 April 2020	<a href="https://www.youtube.com/watch?v=NaT8RW4eTPU&amp;feature=youtu.be">https://www.youtube.com/watch?v=NaT8RW4eTPU&amp;feature=youtu.be</a>
33	Beta Blocker Classification Mnemonics	10 April 2020	<a href="https://www.youtube.com/watch?v=gs_jxI2xvUE&amp;feature=youtu.be">https://www.youtube.com/watch?v=gs_jxI2xvUE&amp;feature=youtu.be</a>
34	Antidepressant Classification Mnemonics	12 April 2020	<a href="https://www.youtube.com/watch?v=KMacGg3JWH0&amp;feature=youtu.be">https://www.youtube.com/watch?v=KMacGg3JWH0&amp;feature=youtu.be</a>
35	Antibiotics Drug Resistance  Cross Resistance  How to prevent Drug Resistance  Drug Tolerant microbe	15 April 2020	<a href="https://www.youtube.com/watch?v=VJNgQRvJuek&amp;feature=youtu.be">https://www.youtube.com/watch?v=VJNgQRvJuek&amp;feature=youtu.be</a>
36	Fluoroquinolones Mechanisms of Action Target Site  Topoisomerase Inhibitor  How Fluoroquinolone Work	25 April 2020	<a href="https://www.youtube.com/watch?v=XKrBHnkzDfE&amp;feature=youtu.be">https://www.youtube.com/watch?v=XKrBHnkzDfE&amp;feature=youtu.be</a>
37	Fluoroquinolone Classification	26 April	<a href="https://www.youtube.com/">https://www.youtube.com/</a>

	Mnemonics   Pharmacology  Uses & Side Effect Tricks Spectrum	2020	<a href="https://www.youtube.com/watch?v=JR3U8eIINDA&amp;feature=youtu.be">watch?v=JR3U8eIINDA&amp;feature=youtu.be</a>
38	Aminoglycoside, Macrolide, Tetracycline Mechanism of action	1 May 2020	<a href="https://www.youtube.com/watch?v=tqJ8VFDrUJI&amp;feature=youtu.be">https://www.youtube.com/watch?v=tqJ8VFDrUJI&amp;feature=youtu.be</a>
39	Tetracycline ADR & Uses Mnemonics	3 May 2020	<a href="https://www.youtube.com/watch?v=OjOEO_LpObc&amp;feature=youtu.be">https://www.youtube.com/watch?v=OjOEO_LpObc&amp;feature=youtu.be</a>
40	Tetracycline Classification Mnemonics & Tricks    Pharmacology	3 May 2020	<a href="https://www.youtube.com/watch?v=lfQY-AWxLfY&amp;feature=youtu.be">https://www.youtube.com/watch?v=lfQY-AWxLfY&amp;feature=youtu.be</a>
41	Chloramphenicol Pharmacology    Side Effect & Uses	7 May 2020	<a href="https://www.youtube.com/watch?v=lcsv-oXb2v8&amp;feature=youtu.be">https://www.youtube.com/watch?v=lcsv-oXb2v8&amp;feature=youtu.be</a>
42	Tetracycline: Comparison of Demecolcycline, Tigecycline, Doxycycline, Minocycline	7 May 2020	<a href="https://www.youtube.com/watch?v=OTieescA0qY&amp;feature=youtu.be">https://www.youtube.com/watch?v=OTieescA0qY&amp;feature=youtu.be</a>
43	Aminoglycoside Pharmacology   Classification Mnemonics    ADR, Uses, Mechanism & Resistanc	9 May 2020	<a href="https://www.youtube.com/watch?v=WMZ6cAvucS4&amp;feature=youtu.be">https://www.youtube.com/watch?v=WMZ6cAvucS4&amp;feature=youtu.be</a>
44	Aminoglycoside Comparison   Gentamicin   Streptomycin	10 May 2020	<a href="https://www.youtube.com/watch?v=5NQTxdzNucQ&amp;feature=youtu.be">https://www.youtube.com/watch?v=5NQTxdzNucQ&amp;feature=youtu.be</a>
45	Macrolide Classification Mnemonics   Erythromycin Pharmacology, Mechanism, Uses, ADR    GPAT  Part-1	13 May 2020	<a href="https://www.youtube.com/watch?v=x8QM1g3_8ZQ&amp;feature=youtu.be">https://www.youtube.com/watch?v=x8QM1g3_8ZQ&amp;feature=youtu.be</a>
46	Macrolide - Ketolide  Azithromycin  Roxithromycin  Clarithromycin,,Fidaxomicin  GPAT	14 May 2020	<a href="https://www.youtube.com/watch?v=-FJiLnuWW6w&amp;feature=youtu.be">https://www.youtube.com/watch?v=-FJiLnuWW6w&amp;feature=youtu.be</a>
47	Glycopeptide Antibiotics Classification Mnemonics  Mechanism, ADR, Uses   Vancomycin	16 May 2020	<a href="https://www.youtube.com/watch?v=Fq3yDc0SnAw&amp;feature=youtu.be">https://www.youtube.com/watch?v=Fq3yDc0SnAw&amp;feature=youtu.be</a>
48	Oxazolidinone Antibiotics Mnemonics   Linezolid Pharmacology,Mechanism, Side Effect and Uses    GPAT	17 May 2020	<a href="https://www.youtube.com/watch?v=1Vf5fcTqg8g&amp;feature=youtu.be">https://www.youtube.com/watch?v=1Vf5fcTqg8g&amp;feature=youtu.be</a>
49	Lincosamide Antibiotics Mnemonics   Clindamycin Pharmacology   Mechanism,Side Effects and Uses	18 May 2020	<a href="https://www.youtube.com/watch?v=kNgUqww2CDk&amp;feature=youtu.be">https://www.youtube.com/watch?v=kNgUqww2CDk&amp;feature=youtu.be</a>
<b>Anti-Viral Drugs</b>			

50	Anti HIV Drugs Classification Mnemonics   AntiRetro Viral    Anti Viral Drugs   GPAT    NEET PG	20 May 2020	<a href="https://www.youtube.com/watch?v=yAMa999e4CI&amp;feature=youtu.be">https://www.youtube.com/watch?v=yAMa999e4CI&amp;feature=youtu.be</a>
51	Antiviral Drug Classification Mnemonics   GPAT Pharmacology Lecture	21 May 2020	<a href="https://www.youtube.com/watch?v=Riv-4TLILwk&amp;feature=youtu.be">https://www.youtube.com/watch?v=Riv-4TLILwk&amp;feature=youtu.be</a>
52	Anti HIV Drugs Mechanism of Action  Antiretro Viral Mechanism	23 May 2020	<a href="https://www.youtube.com/watch?v=b2gFTpay4iM&amp;feature=youtu.be">https://www.youtube.com/watch?v=b2gFTpay4iM&amp;feature=youtu.be</a>
53	Anti HIV Drugs Pharmacology    NRTI    NNRTI    Protease & Integrase Inhibitors   GPAT    NEET PG	23 May 2020	<a href="https://www.youtube.com/watch?v=t0ljVMISfp8&amp;feature=youtu.be">https://www.youtube.com/watch?v=t0ljVMISfp8&amp;feature=youtu.be</a>
54	Anti Herpes Virus Drugs Pharmacology    Mechanism   Side Effects	27 May 2020	<a href="https://www.youtube.com/watch?v=QiHBOjhRhBQ&amp;feature=youtu.be">https://www.youtube.com/watch?v=QiHBOjhRhBQ&amp;feature=youtu.be</a>
55	Anti Influenza Drugs Mechanism of Action, Pharmacology, Side Effects    Antiviral    GPAT    NEET PG	28 May 2020	<a href="https://www.youtube.com/watch?v=qJIWXSblsmw&amp;feature=youtu.be">https://www.youtube.com/watch?v=qJIWXSblsmw&amp;feature=youtu.be</a>
<b>Drugs for STD &amp; UTI</b>			
56	Treatment for Sexually Transmitted Disease (STD)   NEET PG    GPAT    Staff Nurse Exam Pharmacology	30 May 2020	<a href="https://www.youtube.com/watch?v=-gIgttCV27w&amp;feature=youtu.be">https://www.youtube.com/watch?v=-gIgttCV27w&amp;feature=youtu.be</a>
57	Urinary Tract Antiseptic	1 June 2020	<a href="https://www.youtube.com/watch?v=qzjVoKy0RJQ&amp;feature=youtu.be">https://www.youtube.com/watch?v=qzjVoKy0RJQ&amp;feature=youtu.be</a>
58	Urinary Tract Infection Facts    Drug of Choice for UTI	2 June 2020	<a href="https://www.youtube.com/watch?v=peGPGgKo3_4&amp;feature=youtu.be">https://www.youtube.com/watch?v=peGPGgKo3_4&amp;feature=youtu.be</a>
<b>Anti-Malarial Drugs</b>			
59	Antimalarial Drugs Mnemonics	4 June 2020	<a href="https://www.youtube.com/watch?v=QTiBAqPJ52o&amp;feature=youtu.be">https://www.youtube.com/watch?v=QTiBAqPJ52o&amp;feature=youtu.be</a>
60	Anti Malarial Drug Mechanism  Life Cycle of Plasmodium	7 June 2020	<a href="https://www.youtube.com/watch?v=VRpLLnJp1i0&amp;feature=youtu.be">https://www.youtube.com/watch?v=VRpLLnJp1i0&amp;feature=youtu.be</a>
61	Malaria Treatment Mnemonics    Antimalarial Therapy	10 June 2020	<a href="https://www.youtube.com/watch?v=1w-XmVZJytc&amp;feature=youtu.be">https://www.youtube.com/watch?v=1w-XmVZJytc&amp;feature=youtu.be</a>
<b>Antifungal drugs</b>			



62	Antifungal drugs classification Mnemonics	11 June 2020	<a href="https://www.youtube.com/watch?v=5O2_JwXRQ78&amp;feature=youtu.be">https://www.youtube.com/watch?v=5O2_JwXRQ78&amp;feature=youtu.be</a>
<b>Anthelmintic Drugs</b>			
63	Anthelmintic Drugs Classification	12 June 2020	<a href="https://www.youtube.com/watch?v=d53oH4Tao3E&amp;feature=youtu.be">https://www.youtube.com/watch?v=d53oH4Tao3E&amp;feature=youtu.be</a>
64	Anthelmintic Drugs Mebendazole and Albendazole Pharmacology and Mechanism of Action- HINDI- Part-2	19 June 2020	<a href="https://youtu.be/FCFfMMuJASw">https://youtu.be/FCFfMMuJASw</a>
65	Anthelmintic Drug Pyrante l Pamoate & Piperazine Pharmacology, Side Effect Mnemonics, Mechanism-Part-3	20 June 2020	<a href="https://youtu.be/w_3vv0yiIJ4">https://youtu.be/w_3vv0yiIJ4</a>
66	Anthelmintic Drug Diethylcarbamazine Pharmacology, ADR Mnemonics- Filariasis Treatment-Part-4- GPAT NEET	21 June 2020	<a href="https://youtu.be/1qvx67zW9fY">https://youtu.be/1qvx67zW9fY</a>
67	Anthelmintic drug IVERMECTIN Pharmacology    Mechanism of Action    Uses & Side Effect Part-5- GPAT	22 June 2020	<a href="https://youtu.be/YiqoZnuBeXA">https://youtu.be/YiqoZnuBeXA</a>
68	ANTHELMINTIC DRUGS Praziquantel and Niclosamide Mechanism of Action- Part-6-	22 June 2020	<a href="https://youtu.be/aFki5nXuEiE">https://youtu.be/aFki5nXuEiE</a>
<b>Anti-Cancer Drug</b>			
69	Anti Cancer Drug Classification Mnemonics- Alkylating Agents- Part-1	23 June 2020	<a href="https://youtu.be/7Q9U1hE76IE">https://youtu.be/7Q9U1hE76IE</a>
70	Anti Cancer Drugs Classification Mnemonics -Part-2-	23 June 2020	<a href="https://youtu.be/tq7ac712uGw">https://youtu.be/tq7ac712uGw</a>
71	Anti Cancer Drug Classification Mnemonics Part 3- Cytotoxic Drugs-GPAT    NEET PG   B.Pharm  D.Pharm	24 June 2020	<a href="https://youtu.be/KnXWhvWyg44">https://youtu.be/KnXWhvWyg44</a>
72	Anti Cancer Drug Classification Mnemonics -Part 4 =	24 June 2020	<a href="https://youtu.be/gc0rXGeI_38">https://youtu.be/gc0rXGeI_38</a>
73	Anti Cancer Drug Classification Mnemonics- Part 5-Hormonal Drugs	26 June	<a href="https://youtu.be/vLcqS8Mc4cA">https://youtu.be/vLcqS8Mc4cA</a>
74	Anti Cancer Drug Mechanism Part 1-Alkylating Agents & Antimetabolite= GPAT   NEET PG  CSIR NET	1 July	<a href="https://youtu.be/RTF5clthl3c">https://youtu.be/RTF5clthl3c</a>

75	Microtubule damaging agents like Vinca alkaloids and Taxanes; Antitumor Antibiotics (Antracyclin Derivatives) and Topoisomerase I & II Inhibitors discuss with Models.	7 july	<a href="https://www.youtube.com/watch?v=9rQUu4ttTOY">https://www.youtube.com/watch?v=9rQUu4ttTOY</a>
76	Anti Cancer Drug Mechanism-Part 3=Tyrosine kinase Inhibitors Side effects & Uses    GPAT    Pharmacist Exam, Drug Inspector Exam, NIPER JEE Preparation   NEET PG	11 july	<a href="https://youtu.be/Eqpvgs_s05g">https://youtu.be/Eqpvgs_s05g</a>
77	Anti Cancer Drugs EGF (HER 1 & HER 2) Inhibitors	16 july	<a href="https://youtu.be/Z55HWWENcNo">https://youtu.be/Z55HWWENcNo</a>
78	Anti Cancer Drugs Angiogenesis Inhibitor	17 july	<a href="https://youtu.be/nKLkKTj_218">https://youtu.be/nKLkKTj_218</a>
79	Anti Cancer Drugs CD 20 inhibitors Pharmacology & Mechanism   GPAT Lecture	20 july	<a href="https://youtu.be/qUxACk0Fudk">https://youtu.be/qUxACk0Fudk</a>
80	Anti Cancer Drugs Proteasome Inhibitors=Pharmacology & Mechanism	21 july	<a href="https://youtu.be/W56Cz2ydy3c">https://youtu.be/W56Cz2ydy3c</a>
81	Anti Cancer Drug Toxicity Mnemonics   Prevention   GPAT Lecture   B.Pharm    NEET PG	22 july	<a href="https://youtu.be/BczgI5oavmI">https://youtu.be/BczgI5oavmI</a>
<b>Immunosuppressant Drugs</b>			
82	Immunosuppressant Classification Mnemonics   GPAT Lecture  NEET PG  Pharmacist   Staff Nurse  NET JRF	23 july	<a href="https://youtu.be/m5zvgdPgr0I">https://youtu.be/m5zvgdPgr0I</a>
83	Immunosuppressant Mechanism Of Action	24 july	<a href="https://youtu.be/Wsh1WS077pE">https://youtu.be/Wsh1WS077pE</a>
84	Immunosuppressant Drug: #CalcinurinInhibitor Pharmacology	27 july	<a href="https://youtu.be/h63LJXB8hyo">https://youtu.be/h63LJXB8hyo</a>
85	Pharmacology of mTOR Inhibitors with #tricks & #Mnemonics	28 july	<a href="https://youtu.be/MImcHquU5pg">https://youtu.be/MImcHquU5pg</a>
<b>Vaccine</b>			
86	<a href="#">Types of Vaccine in Hindi</a>		<a href="https://youtu.be/H9ATw3qdixc">https://youtu.be/H9ATw3qdixc</a>
87	<a href="#">MCQ on Vaccine</a>		<a href="https://youtu.be/Je8xGuEiC4Q">https://youtu.be/Je8xGuEiC4Q</a>

### Microbiology (B.Pharm 3<sup>rd</sup> Semester)

1	Scope Of Microbiology	<a href="https://youtu.be/48Sy9CbQG-Q">https://youtu.be/48Sy9CbQG-Q</a>
2	Difference between Prokaryotic and Eukaryotic cells   NEET  GPAT	<a href="https://youtu.be/1WsuJdcDOcM">https://youtu.be/1WsuJdcDOcM</a>
3	History of microbiology	<a href="https://youtu.be/NHaXqqoLGkc">https://youtu.be/NHaXqqoLGkc</a>
4	Comparison of Light microscope Vs Electron Microscope   30+ points  GPAT  CSIR NET  GATE  NEET  CET	<a href="https://youtu.be/1hYo9AW4zxY">https://youtu.be/1hYo9AW4zxY</a>
5	Microscope Types, Parts & Uses   Mnemonics   GPAT   UPSC   SSC   NET GATE   NEET   Pharmacist   MCQ	<a href="https://youtu.be/sp95kcZMkUQ">https://youtu.be/sp95kcZMkUQ</a>
6	Bright Filed Microscope Principle & Working in Hindi   Advantage   GPAT   NET   GATE   UPSC   SSC	<a href="https://youtu.be/TAx9493GDEo">https://youtu.be/TAx9493GDEo</a>
7	Microscope Principle Magnification & Resolving Power -Hindi   GPAT   NEET   UPSC   SSC   NET  Part 1	<a href="https://youtu.be/PKK2MExQzb0">https://youtu.be/PKK2MExQzb0</a>
8	Microscope Principle Image Magnification   Ray Optics   Part 2   GPAT   SSC   CSIR NET   GATE   NEET	<a href="https://youtu.be/HQmgTdKYmqA">https://youtu.be/HQmgTdKYmqA</a>
9	Dark field Microscope Principle & Working in Hindi   NEET   GPAT   UPSC   NET Preparation   GATE	<a href="https://youtu.be/C3F3MGjJJoq4">https://youtu.be/C3F3MGjJJoq4</a>
10	Phase Contrast Microscope Principle & Working (Hindi)   GPAT Lecture   NEET   CSIR NET MCQ   GATE	<a href="https://youtu.be/tPdSK_8c45Y">https://youtu.be/tPdSK_8c45Y</a>
11	Fluorescence Microscope Principle & Working (Hindi)   GPAT  NEET   CSIR NET MCQ   GATE   UPSC Exam	<a href="https://youtu.be/24uTx4fHlIM">https://youtu.be/24uTx4fHlIM</a>
12	Transmission Electron Microscope (TEM)  Principle & Working   Sample Preparation   Mnemonics   Hindi	<a href="https://youtu.be/fo4UKzExh9Q">https://youtu.be/fo4UKzExh9Q</a>
13	Scanning Electron Microscope (SEM)   Principle & Working   GPAT   CSIR NET   GATE   DBT BET   Hindi	<a href="https://youtu.be/vctNdVOZhDQ">https://youtu.be/vctNdVOZhDQ</a>
14	Diuretic Classification Mnemonics   Diuretics MCQ   GPAT   NEET PG Pharmacist   Drug Inspector	<a href="https://youtu.be/oSlIXEdMw1A">https://youtu.be/oSlIXEdMw1A</a>

15	Bacteria Classification Mnemonics (Part -1)  Classification of Bacteria on the Basis of Shape   GPAT	<a href="https://youtu.be/7A2ioj8Ss-A">https://youtu.be/7A2ioj8Ss-A</a>
16	Bacteria Classification Tricks (Part -2)  Classification of Bacteria on the Basis of Staining   GPAT	<a href="https://youtu.be/qdXD0-pjGBE">https://youtu.be/qdXD0-pjGBE</a>
17	Bacteria Classification Tricks (Part -3)  Based on Nutrition   CSIR NET   GPAT   GATE   NEET   UPSC	<a href="https://youtu.be/QcoLdh0NXko">https://youtu.be/QcoLdh0NXko</a>
18	Bacteria Classification Tricks (Part -4)  Based on Temperature   CSIR NET   GPAT   GATE   NEET   UPSC	<a href="https://youtu.be/1PM45cGxD2c">https://youtu.be/1PM45cGxD2c</a>
19	Bacteria Classification Based on Gas Requirement   CSIR NET   GPAT   NEET   PHARMACIST  (Part -5)	<a href="https://youtu.be/Nl6b2XUh50Q">https://youtu.be/Nl6b2XUh50Q</a>
20	Bacteria Classification on the Basis of Number of Flagella   NET   GPAT   GATE   NEET  (Part -6)	<a href="https://youtu.be/6M2nXD3iE0I">https://youtu.be/6M2nXD3iE0I</a>
21	Classification of Bacteria   Based on pH and Salt Requirement   NET   GPAT   GATE   NEET  (Part -7)	<a href="https://youtu.be/Oi6eIqQvw1Y">https://youtu.be/Oi6eIqQvw1Y</a>
22	Classification of Bacteria   Based on Pressure   Spore Formation   Motility   Part -8   GPAT Lecture	<a href="https://youtu.be/k8kZvTjX4H8">https://youtu.be/k8kZvTjX4H8</a>
23	Bacteria Cell wall   Gram Positive Bacteria Cell Wall Structure   Cell Wall Model   MCQ   Hindi	<a href="https://youtu.be/u7LdQ8Cq4eU">https://youtu.be/u7LdQ8Cq4eU</a>
24	Bacteria Cell wall   Gram Negative Bacteria Cell Wall Structure   Cell Wall Differences  MCQ   Hindi	<a href="https://youtu.be/bY6p0kdNALM">https://youtu.be/bY6p0kdNALM</a>
25	Gram Staining    Gram Staining Procedure   Gram Staining Principle   Positive and Negative Staining	<a href="https://youtu.be/41qnKbNFHpg">https://youtu.be/41qnKbNFHpg</a>
26	Difference Between Prokaryotic & Eukaryotic Ribosome   70S vs 80S Ribosomes   MCQ on Ribosomes	<a href="https://youtu.be/W0Tn3iHJkF8">https://youtu.be/W0Tn3iHJkF8</a>
27	Bacteria Cell   Structure of Bacterial Capsule	<a href="https://youtu.be/E7qNkjrXsxE">https://youtu.be/E7qNkjrXsxE</a>
28	Bacterial Cell   Structure of Flagella	<a href="https://youtu.be/Ir_O5hykKm0">https://youtu.be/Ir_O5hykKm0</a>
29	Bacterial Cell   Structure of Pili	<a href="https://youtu.be/BFU5SbW3Zo0">https://youtu.be/BFU5SbW3Zo0</a>
30	Bacterial Cell   Cytoplasmic Inclusions	<a href="https://youtu.be/zZJGrNbaywM">https://youtu.be/zZJGrNbaywM</a>
31	Motion of Bacteria	<a href="https://youtu.be/syucscD_HwI">https://youtu.be/syucscD_HwI</a>

32	Bacterial Spore	<a href="https://youtu.be/EuQOzNG7-B0">https://youtu.be/EuQOzNG7-B0</a>
33	Bacterial Growth Requirement	<a href="https://youtu.be/DrO6xgDWBvg">https://youtu.be/DrO6xgDWBvg</a>
34	Culture Media Constituents	<a href="https://youtu.be/v5wAyi9vmQw">https://youtu.be/v5wAyi9vmQw</a>
35	Classification of Culture Media - Part 1	<a href="https://youtu.be/SdgR1hp0x3U">https://youtu.be/SdgR1hp0x3U</a>
36	Classification of Culture Media - Part 2	<a href="https://youtu.be/-PEASgbJLXw">https://youtu.be/-PEASgbJLXw</a>
37	Classification of Culture Media - Part 3	<a href="https://youtu.be/rZghQ0fkJsA">https://youtu.be/rZghQ0fkJsA</a>
38	Bacterial Growth Curve in Hindi	<a href="https://youtu.be/cGtcFz0toqE">https://youtu.be/cGtcFz0toqE</a>
39	Factor affecting growth of Bacteria	<a href="https://youtu.be/G9NsTWppiPo">https://youtu.be/G9NsTWppiPo</a>

**PRESENTATIONS:**

1. Research Paper Entitled “Development & characterization of solasodine rich solanum torvum extract loaded nano particle for the treatment of neuropathic pain. DST sponsored National seminar on Instrumentation and characterization organized by School of physical sciences, Banasthali University (22-23 Dec 2016) (**Oral Presentation**)
2. Research Paper Entitled Antinociceptive Effects Of Solasodine Rich Methanolic Extract of Solanum Torvum Fruit In Vincristine Induced Neuropathic Pain In Rats. India International Science Festival (IISF) - Young Scientists’ Conclave (YSC), **Dec 8-11, 2016, Abstract ID: INDG\_6**
3. Research paper entitled “*Standardized fruit extract of Momordica charantia L protect against vincristine induced neuropathic pain in rats by modulating GABAergic action, antimutotoxic, NOS inhibition, anti-inflammatory and antioxidative activity*”. In abstract book (**Guffic Award Category**) of 47th Annual Conference of Indian Pharmacological Society (IPSCON-2014) at Guwahati Medical College, Guwahati (**28-30 Dec 2014**)(**Oral Presentation**)
4. Research paper entitled “*Antinociceptive effect of Momordica charantia L (MC) in rat model of vincristine-induced neuropathic pain.*” In 2nd Annual conference of **Pharma Nutrition: 2013** on “Discovering the interface between Nutrition & Pharma at **Singapore. (15-17th April, 2013).**
5. Research paper entitled “*Attenuating effect of Punica Granatum Fruit Extract in rat model of Tibial & Sural Nerve Transection induced neuropathic pain.*” in **45th Annual Conference of Indian Pharmacological Society (IPSCON-2012) held at Srimati Kishoritai, Bhojal College of Pharmacy , New kamptee, Nagpur, Maharashtra, India ( 5-7 Jan 2013) (Oral Presentation)**
6. Research paper entitled “*Ameliorative potential of ferulic acid in chronic constriction injury-induced painful neuropathy in rats*” in **AICTE sponsored seminar on modern trend in Phytopharmaceutical Drug development held at Sri Balaji College of Pharmacy, Jaipur ( 17-18 Sept 2012) (Oral Presentation)**

7. Research paper entitled “*A bioequivalence evaluation of two different olanzapine orodispersible tablet formulation*” presented AICTE Sponsered National Seminar **held at Rajasthan Pharmacy College, Jaipur, Rajasthan (AUG 2009) (Poster Presentation)**
8. Research paper entitled “*Amelorative effect of amiloride in vincristine induced neuropathy in rats*” in **40th Annual Conference of Indian Pharmacological Society (IPSCON-2007) held at NIPER, Mohali ( November 2007 ) (Poster Presentation)**

### **ABSTRACT CONTRIBUTIONS:**

1. Research paper entitled “Design & development of control release matrix tablet of naproxen” in abstract book of **ICMR & DST Sponsored National Conference on Innovative drug delivery system at Laureate Institute of Pharmacy, Kathog, Kangra, HP (22-23 Aug 2014)**
2. Research paper entitled “Development and characterization of colon targeted drug delivery of Satranidazole in abstract book of **NIPICON-2013 at Nirma University, Ahemdabad (18-20 Jan 2013)**
3. Research paper entitled “*Synthesis of Novel Celecoxib Derivatives useful as potential Anti-inflammatory Agents*” in abstract book of **13th Tetrahedron Symposium---Asia Edition on Challenges in Bioorganic & Organic Medicinal Chemistry at Taipei, Taiwan (27-30 November 2012)**
4. Research paper entitled “*Antibacterial activity of Curcuma Longa, Syzygium Aromaticum And Citrus Limon*” in abstract book of **AICTE sponsored seminar on morden trend in Phytopharmaceutical Drug development held at Sri Balaji College of Pharmacy, Jaipur ( 17-18 Sept 2012)**
5. Research paper entitled “*In vitro anthelmintic activity evaluation of Alstonia scholaris Linn. (Apocynaceae) bark*” in abstract book of Conference- Folk & Herbal Medicine, organised by **Department of Botany, MLSU, Udaipur , Rajasthan (Nov.2010)**
6. Research paper entitled “*Development of pH dependent and microflora activated approach to optimize delivery of satranidazole to colon*” in abstract book of 6th International Symposium on Innovations in pharmaceutical Sciences and Technology held at **PERD, Ahmedabad from 26<sup>th</sup> to 28<sup>th</sup> November,2010**

7. Research paper entitled “*Development & Validation of LC-MS/MS method for determination of telithromycin in Dog plasma*” in abstract book of 6th International Symposium on Innovations in pharmaceutical Sciences and Technology held at **PERD, Ahmedabad from 26<sup>th</sup> to 28<sup>th</sup> November,2010**
8. Research paper entitled “*Invitro anthelmintic activity evaluation of Acorus calamus linn. (Araceae)-*” in abstract book of Symposium on current status and opportunity in aromatic and medicinal plants -**Aromed 2010- held at CIMAP, Lucknow**
9. Research paper entitled “*Deferential effect of Rosiglitazone in Tibial and Sural nerve transaction and oxaliplatin induced peripheral neuropathy in Rats*” in abstract book of Conference- 41th India Pharmacological Society –**IPSCON-2008- held at AIIMS, New Delhi**

#### **TRAININGS, WORKSHOPS & CERTIFICATIONS**

1. **Attended Refresher Course conducted by JNVU, Jodhpur (27/01/2022 To: 10/02/2022)**
2. **Attended Orientation Programme at Rajasthan University June 3 to 29, 2019**
3. Faculty development programme on "Sustainable Mental Health: An Insight into the Learners' World" organized by Department of Psychology, Banasthali University, Banasthali, India (23rd to 29th March, 2017).
4. Workshop on “**Molecular pharmacology techniques**” organized by 47<sup>th</sup> Annual Convention of Indian Pharmacology Society at Guwahati medical College, Guwahati (27 Dec 2014)
5. Workshop on “**Basic & Research Concept of Depression & Cognitivedysfunction**” in Ist IBRO neurosciences School at Panjab University Chandigarh (3–8 Nov 2014)
6. Workshop on “**Techniques in Surgical and Behavioural Pharmacology**” organized during 45<sup>th</sup> Annual Convention of Indian Pharmacology Society at Srimati Kishoritai, Bhoyal College of Pharmacy New kamptee, Nagpur, Maharashtra, India (**4 Jan 2013**)
7. Two week **QIP** programme on **Natural Products & Disease Management-** An Update at MCOPS, Manipal (**11-23rd June 2012**).
8. One day seminar on “**Intellectual Property and Innovation Management in Knowledge Era**” sponsored by National Research Development Corporation, New Delhi at Banasthali University (**28<sup>th</sup> Jan 2012**).



9. Two days' workshop on **NMR** sponsored by DST at Banasthali University (**3-4 Dec 2011**)
10. A week long workshop on **Macroscopic, Microscopic Identification & Standardization of Herbal Drug** organized by Department of Dravyaguna Vigyan at National Institute of Ayurveda, Jaipur (**14-18<sup>th</sup> December, 2009**)
11. Attended one day Workshop on “**Emerging opportunities in customer career Industry**” in Edufest Organized by **Times of India group (28<sup>th</sup> June 2009)**
12. Attended one day Workshop on **Clinical Research** organized by Indian Academy of Clinical Research in association of Birla Institute of Scientific Research, Jaipur. (**2008**)
13. Attended three day conference of International society for heart research (ISHR)- 2007 held at S.P. Medical College, Bikaner (**2007**)
14. Attended three day Annual conference of Indian Pharmacological Society held at SMS Medical College, Jaipur (**2006**)
15. Attended a week long Introductory course in Body Language organized by Rajasthan Patrika (PIEh<sup>3</sup>) in Jan-**2004**, Udaipur

S.No.	Student Name	Class	Year	Title	Supervisor/Co-Supervisor
1	Bhvnes Baniya	PhD	Ongoing		Supervisor
2	Farhana Khan	PhD	Ongoing		Co-Supervisor
3	Malvika Pant	PhD	2018-2023		Co-Supervisor
2	Kajol Rastogi	M.Pharm	2017-18	Development of new animal model of neuropathic pain	Supervisor
3	Pragati Chauhan	M.Pharm	2017-18	Effect of purpurin on STZ induced Alzheimer disease in rats	Supervisor
4	Malvika Pant	M.Pharm	2016-2017	Comparative study of chemotoxic substance on peripheral neuropathy in rats	Supervisor
5	Priti Sharma	M.Pharm	2016-2017	Comparative study of injury induced models of peripheral neuropathic pain in rats	Supervisor
6	Isha Singh	M.Pharm	2016-2017	Investigation on the effect of <i>Lannea coromandalica</i> on peripheral neuropathy in rats	Supervisor
7	Disha Sharma	M.Pharm	2016-2017	Development of novel bone forming agents from nature inspired sources	Supervisor

8	ShipraKartik	M.Pharm	2015-2016	A study on the toxic effects of Troglitazone on rat brain astrocytes and protection by DHA	Supervisor
9	Islamun Jahan	M.Pharm	2015-2016	A study on de novo fatty acid synthesis in right ventricle dysfunction associated with pulmonary hypertension	Supervisor
10	NehaSrivastava	M.Pharm	2015-2016	A study to investigate the effect of MK-801 on Neurogenesis in 6-hydroxydopamine induced rat model of Parkinson disease	Supervisor
11	Monika Binwal	M.Pharm	2015-2016	Effect of silver nanoparticle on kidney development	Supervisor
12	Vipin Saraswat	MD Ayurveda	2012-2014	Antimicrobial & Antifungal activity of <i>Prosopis cineraria</i> on drug resistant microbes.	Co- Supervisor
13	Shilpi Raj	B.Pharm	2011	Pharmacist Job Satisfaction in Rural Indian pharmacist	Supervisor
	Renu Tomar	B.Pharm	2011	Sleep quality & sleep related Problem Associated with female pharmacy students	Supervisor

**BOOKS PUBLISHED**

1. **Vivek Jain**, Learn Human Biology Through Crossword Puzzles Jumble Words & Spellation. (2021) Arihant Publisher, New Delhi ISBN: 978-93—25295-29-2
2. **Vivek Jain**, Pradeep Jain, Sandeep Sethia. Investigation of Enzyme activity of E. Coli. In Adverse Condition" Challenge to Survival. VDM Verlag Dr Muller publishing, Germany. 2011 (ISBN 978-3-639-31192-1) (**First author**)
3. Sandeep Sethia,**Vivek Jain**, Pradeep Jain. Synthesis And Biological Evaluation Of Some **Sulfonamide Schiff's Bases Lambert academic publishing, Germany 2012 (ISBN 978-3-659-12047-3) (Co-author)**
  
3. Yashumati Ratan, Ashutosh Pareek, **Vivek Jain**. Synthesis of Antimalarial Compounds and their Intermediates. VDM Verlag Dr Muller publishing, Germany. 2011 (ISBN 978-3-639-35441-6). (**Co-author**)
  
- 4 Ashutosh Pareek, **Vivek Jain** and Yashumati Ratan. Pulsatile Drug Delivery System: Future opportunities and challenges. Lambert academic publishing, Germany. 2011 (ISBN 978-3-8443-9210-4). (**Co-author**)

**Workshop, Seminar, organized, co-organized or organizing committee member**

**CO-ORDINATION OF WORKSHOPS**

Organizing secretary of 1<sup>st</sup> IBRO- APRC School of Neuroscience at Department of Pharmaceutical sciences, MLSU (Aug 2019)

Organizing secretary of 1<sup>st</sup> IBRO- APRC Banasthali School of Neuroscience at Department of Pharmacy, Banasthali University (21-26 Aug 2017)

Co-ordinator of Logophilia College Vocabulary Workshop (11-13 April, 2015) by Logophilia Education Pvt. Ltd. at Banasthali University, Banasthali, Rajasthan.

Organizing committee member of National Conference on emerging trends in chemical & Pharmaceutical sciences at Department of chemistry & Department of Pharmacy, Banasthali University (12-13 march 2015)

Organizing committee member of AICTE Sponsored National Seminar held at Rajasthan Pharmacy College, Jaipur, Rajasthan (AUG 2009)