# Workshop on Artificial Intelligence (17-18<sup>th</sup> February 2020)

## TEACHER'S ACTIVITY BEPORT 2019-2020

FACULTY: SCIENCE DEPARTMENT: ELECTRONICS IQAC ACTIVITY No: SVC/2019-20/ELECT/NK/5

NAME OF THE ACTIVITY:	Workshop on Art	tificial Intelligence	
DATE	FACULTY	DEPARTMENT/COMMITTEE	COORDINATOR NAME
17-18 <sup>th</sup> February 2020	Science	Electronics	Dr Neeru Kumar,
			Dr Neha Verma, Mr Hari
			Singh
TIME	VENUE	NUMBER OF PARTICIPANTS	NATURE: Outdoor/Indoor
09:30 AM-04:30 PM	ICT Lab III	40	Indoor
SUPPORT/ASSISTANCE:	Sri Venkateswar	a College, University of Delhi,	
	Innovians Techn	ologies in association with TEC	HNEX'20 Indian Institute of
	Technology (BHL	J), Varanasi	

## BRIEF INFORMATION ABOUT THE ACTIVITY (CRITERION NO. - III ):

TOPIC/SUBJECT OF THE ACTIVITY	Two Day Workshop on "Artificial Intelligence"
OBJECTIVES	<ul> <li>To provide a platform where students can learn various concepts of Artificial Intelligence namely Data Structure &amp; Data Manipulation in Python, Understanding the Machine Learning Libraries, Linear Regression Using Opency etc. through hands on session.</li> </ul>
METHODOLOGY	Hands-on and Interactive Sessions in ICT Lab
OUTCOMES	<ul> <li>Students learnt concepts, techniques, and algorithms in Machine Learning beginning with topics such as key growth of AI in different verticals, Disciplines of AI, Classification and Linear Regression and ending up with more recent topics related to Neural Network and Machine Learning.</li> <li>At the end of this two day workshop, students learned about Machine Learning Libraries, Reinforcement learning, Supervised Learning, Unsupervised Learning Clustering and many more.</li> <li>Students discovered the role of AI in autonomous vehicles, understood some of the mathematical models that play a role in building AI software and also implementing some machine learning models.</li> </ul>

## PROOFS & DOCUMENTS ATTACHED (Tick mark the proofs attached):

Notice & Letters ✓	Student list of participation ✓	Activity report ✓	Photos ✓	Feedback form
Feedback analysis	News clip with details	Certificate ✓	Any other	

IQAC Document No:	Criterion No: III	Metric No:
Departmental file No:	IQAC file No:	

Dr. Neeru Kumar	Dr. Neeru Kumar	
SIGNATURE		
TEACHER &	INCHARGE & SIGNATURE	
NAME OF	NAME OF HEAD/ COMMITTEE	IQAC COORDINATOR (SEAL & SIGNATURE)

## For Reference

Criterion I	Curricular Aspects (planning & Implementation)	Criterion V	Student Support & Progression
Criterion II	Teaching Learning & Evaluation	Criterion VI	Governance
Criterion III	Research, Innovations &	Criterion VII	Institutional Values & Best
	Extension		Practices
Criterion IV	Learning Resources and		
	Infrastructure		

# PROOFS SUMMARY REPORT & PHOTOS



Artificial intelligence (AI), sometimes called Machine Intelligence, is the intelligence demonstrated by machines, in contrast to the natural intelligence displayed by humans and animals. Intelligent Machines are influencing nearly every facet of our lives to help improve efficiencies and augment our human capabilities. AI refers to the simulation of human intelligence in machines that are programmed to think like humans and mimic their actions. It is continuously evolving to benefit many different industries. Machines are wired using a cross-disciplinary approach based in Mathematics, Computer Science, Linguistics, Psychology, and many more. The applications for Artificial Intelligence are endless. AI is being tested and used in the healthcare industry for dosing drugs and different treatment in patients, and for surgical procedures in the operating room. Other examples of machines with artificial intelligence include computers that play chess and self-driven cars. Artificial intelligence also has applications in the financial industry, where it is used to detect and flag activity in banking and finance such as unusual debit card usage and large account deposits. Applications for AI are also being used to help streamline and make trading easier.

Today, the amount of data that is generated, by both humans and machines, far outpaces humans' ability to absorb, interpret, and make complex decisions based on that data. Artificial intelligence forms the basis for all computer learning and is the future of all complex decision making. Data Science and Artificial Intelligence are the two most important technologies in the world today. While Data Science makes use of Artificial Intelligence in its operations, it does not completely represent AI. Machine Learning is likely the connection between data science and artificial intelligence since machine learning is the process of learning from data over time. However, it's not the only thing connecting those two together. But, machine learning is the branch of AI that works best with data science. This formed the basis to decide upon our next workshop on Artificial Intelligence subsequent to our Data Science Workshop. Therefore, the Department of Electronics, organized a two day workshop titled "Artificial Intelligence" on 17-18 February, 2020. The workshop was conducted by Innovians Technologies in association with TECHNEX' 20, Indian Institute of Technology (BHU), Varanasi.

Around 40 students enthusiastically participated in the workshop and experienced the tremendous capabilities of Machine Learning. The participation was from different departments that showed an interdisciplinary aspect of AI. The workshop commenced with giving a sapling to our Resource person, Mr. Syed Md. Asdaur Rahman, Trainer for the workshop. This was followed by a welcome address by Dr. Neeru Kumar, Teacher in Charge, Department of Electronics. Consequently, The President, Student Council, Ms Nancy Tyagi, briefly introduced the theme and schedule of the workshop. The technical sessions started soon after the welcome address. Mr Syed explained the role of Artificial Intelligence that how it is concerned with building smart machines capable of performing tasks that typically require human intelligence. The workshop gave an overview of many concepts, techniques, and algorithms in machine learning, beginning with topics such as key growth of AI in different verticals, disciplines of AI, classification and linear regression and ending up with more recent topics related to neural network and machine learning. At the end of this two day workshop, students learned about Machine Learning Libraries, Reinforcement learning, Supervised Learning, Unsupervised Learning Clustering and many more. Also, students discovered the role of AI in autonomous vehicles, understood some of the mathematical models that play a role in building AI software and also implementing some machine learning models. The workshop was full of hands-on sessions along with conceptual knowledge about the contents.

#### **NOTICES (POSTER)**











BY INNOVIANS TECHNOLOGIES
IN ASSOCIATION WITH
TECHNEX'20, IIT VARANASI

You will learn

- >>Python Programming
- >>Opency, NumPy, Pandas, TensorFlow
- >>Statistical Maths for the Algorithms
- >>Classification and Regression

09:30 AM - 04:30 PM

ICT LAB III

Patron: Dr P Hemalatha Reddy (Principal) Convener: Dr Neeru Kumar Co-convener: Dr Neha Verma, Mr Hari Singh Organizing Team: Dr J Lalita, Dr Nutan Joshi Dr Sunita Jain, Dr Rakhi Narang, Ms Shubhra Gupta

#### **FLYER & SCHEDULE**

#### SRI VENKATESWARA COLLEGE UNIVERSITY OF DELHI

**DEPARTMENT OF ELECTRONICS** 

**TWO DAYS WORKSHOP** 

ARTIFICIAL INTELLIGENCE

**INNOVIANS TECHNOLOGIES** In Association with **TECHNEX'20 INDIAN INSTITUTE OF** TECHNOLOGY (BHU), VARANASI

#### WHEN

17th-18th February, 2020 09:30 AM- 04:30 PM

#### WHERE **ICT LAB-III**

Sri Venkateswara Gollege, Dhaula Kuan, New Delhi-110021









#### SPONSORED BY **IEEE EDS DELHI** CHAPTER



#### REGISTRATION

FEE: INR 700/-(LIMITED SEATS ONLY) Fee payable to : Principal, Sri Venkateswara

Gontact Person Ms Mancy Tyagi (President) +91-7042037915

#### **ABOUT THE WORKSHOP**

This workshop will provide a platform where young undergraduate students can learn Artificial Intelligence. Artificial intelligence (AI, also machine intelligence, MI) is intelligence displayed by machines, in contrast with the natural intelligence (NI) displayed by humans and other animals. In computer science AI research is defined as the study of "intelligent agents": any device that perceives its environment and takes actions that maximize its chance of success at some goal.

The workshop will be for two days and some important topics will be covered i.e. Python Programming, ML Library Opencv, NumPy, Pandas, Tensor Flow, Statistical Maths for the Algorithms, Learning to solve statistics and mathematical concepts, Supervised and unsupervised learning, Classification and Regression

#### **SCHEDULE**

#### Monday, 17th February, 2020

Wielcome Address
Introduction to Python Programming, Data Structure & Manipulation
Break
Visualization in Python, Machine Learning: Introduction
Lunch Break
Linear Regression Using Opency, Math of Linear Regression
Break
Linear Regression, Logistic Regression Using Opency

#### Tuesday, 18th February, 2020

TIME	
09:30 AM-11:00 AM	Support Vector Machine Using Openov
11:00 AM-11:15 AM	Break
11:15 AM-12:45 PM	RANDOM FOREST & Decision Tree Algorithm:
12:45 PM-01:30 PM	Lunch Break
01:30 PM-02:30 PM	Introduction to TensorFlow&Keras
02:30 PM-03:00 PM	Unsupervised Learning Glustering:
03:00 PM-03:15 PM	Break
03:15 PM-04:15 PM	Gase Studies and Project
04:15 PM-04:30 PM	Vote of Thanks

## **Student List of Participation**

1.   1618012   Dhyansh Rathore   BSc H Electronics   Post of Ele	DAY	WORKS	HOP ON ARTIFICIAL INTELLIGENCE		Leseas
1.   1618012   Dhyansh Rathore   BSc H Electronics   Post of Ele	5.7	NO ROLL NO	STUDENT'S Name	COURSE	Mornin
3. 1618071 Devahlah Pratap Singh  4. 1617001 Muskan  5. 1618035 Jay Kumar Tomar  6. 1618025 Akshita Singh  6. 1618025 Akshita Singh  7. 1618701 Aman Rawat  8. 1619066 Samridhi Shoor  8. 1619066 Samridhi Shoor  9. 1617041 Priyanshu  10. 1619044 Mohd Haroon  11. 1619051 Vishesh Bisht  12. 1618000 Riya sharma  13. 1617020 Mayank Singh  14. 1617004 Sumedha Singh  15. 1617008 Ankit Sharma  16. 1617043 Ashar Ahmad  17. 1617043 Ashar Ahmad  18. 1617008 Ankit Sharma  18. 1617008 Ankit Sharma  18. 1617008 Ankit Sharma  18. 1617008 Ankit Sharma  19. 1719142 Yash Goel  20. 1119012 Apara Bose  19. 1719142 Yash Goel  21. 1119023 Nirupama Sai  22. 1619062 Ishika Chauhan  18. 5C(H) Electronics  23. 1617011 Nancy Yagi  24. 1617077 Prashant Gupta  25. 1619061 Shivangi Singh  26. (H) Electronics  27. 1619049 Manan Kumar Gautam  18. 5C(H) Electronics  28. 1617027 KUSHAGRA PAL  29. 1619064 Shivangi Singh  20. 1619064 Shivangi Singh  21. 1619069 Chandra Sharkan  22. 1619060 Shivangi Singh  23. 1617017 Prashant Gupta  24. 1617077 RUSHAGRA PAL  25. 1619061 Shivangi Singh  26. (H) Electronics  27. 1619069 Chandra Sharkan  38. C(H) Electronics  39. 1619069 Chandra Shekhar  30. 1619069 Chandra Shekhar  30. 1619068 Satender Singh  31. 1617015 Ankiesh Maurya  32. 1617015 Ankiesh Maurya  33. 1618008 Taruj Kumar  34. 1619001 Pratham Sahay  35. C(H) Electronics  36. 1619068 Satender Singh  37. 1618008 Taruj Kumar  38. 1617015 Ankiesh Maurya  40. 110 Pratham Sahay  41. 110 Pratham Sahay  41. 110 Prath	1	1618012	Divyansh Rathore	BSc H Electronics	-64
1617001	2	1618023	Bharat Bhattacharya		Bhowa
1618025   Akshita Singh   Bac H Electronics   Akshita Singh   Bac (H) Electr	3	1618071	Devashish Pratap Singh		att. Ho
6. 1618025 6. Alshita Singh 6. Alshita Singh 7. 1618701 Arman Rawat 8. 1619056 Samridhi Shoor 8. 1619056 Samridhi Shoor 8. 1619056 9. 1617041 Priyanshu 8. 1619051 10. 1619044 Mohd Haroon 8. Bsc (H) Electronics 11. 1619051 Vishesh Bisht 8. CH Electronics 12. 1618040 Riya sharma 8. Sc (H) Electronics 13. 1617020 Mayank Singh 8. Sc (H) Electronics 14. 1617004 Sumedha Singh 8. Sc (H) Electronics 15. 1617008 Ankit Sharma 8. Sc(H) Electronics 16. 1617043 Ashar Ahmad 8. Sc (H) Electronics 17. 1617051 Tarun Souda 8. Sc(H) Electronics 18. 1617023 Mukul Basu 8. Sc(H) Electronics 19. 1719142 Yash Goel 8. Sc. (H) Mathematics 20. 1119012 Aparna Bose 8. Sc. (PNGG) Life Sciences 10. 1119012 Aparna Bose 8. Sc. (H) Mathematics 21. 1119023 Nirupama Sai 8. Sc. (H) Electronics 22. 1619062 Ishika Chauhan 8. Sc(H) Electronics 23. 1617011 Nancy Tyagi 8. Sc. (H) Electronics 24. 1617017 Prashant Gupta 8. Sc. (H) Electronics Robert Shivangi Singh 8. Sc. (H) Electronics Robert S	4.	1617001			-
7. 1618701 Aman Rawat Bsc. (H) Electronics 8. 1619056 Samridhi Shoor B.5c (H) Electronics 9. 1617041 Priyanshu Bsc(H) Electronics 10. 1619044 Mohd Haroon Bsc hon. Electronics Private Holosom	5.	1618035			
8. 1619056   Samridhi Shoor   B.Sc (H) Electronics   9. 1617041   Priyanshu   Bsc(H)Electronics   DA   10. 1619044   Mohd Harboon   Bsc hon. Electronics   DA   11. 1619051   Vishesh Bisht   Bsc H Electronics   DA   12. 1618040   Riya sharma   Bsc (h) electronics   DA   13. 1617020   Mayank Singh   BSc H Electronics   DA   14. 1617004   Sumedha Singh   B.Sc (H) Electronics   DA   14. 1617004   Sumedha Singh   B.Sc (H) Electronics   DA   15. 1617008   Ankit Sharma   Bsc. (H.) Electronics   DA   16. 1617043   Ashar Ahmad   BSC H Electronics   DA   16. 1617043   Ashar Ahmad   BSC H Electronics   DA   17. 1617051   Tarun Souda   B.Sc (H) Electronics   DA   17. 1617052   Tarun Souda   B.Sc (H) Elect	6.	1618025			
9. 1617041 Priyanshu Bsc(H)Electronics Priyanshu 10. 1619044 Mohd Haroon Bsc hon, Electronics Prizable 11. 1619051 Vishesh Bisht Bsc H Electronics Prizable 12. 1618040 Riya sharma Bsc(h) electronics Prizable 13. 1617020 Mayank Singh Bsc H Electronics Prizable 14. 1617004 Sumedha Singh Bs.c(H) Electronics Prizable 15. 1617008 Ankit Sharma Bsc.(H.) Electronics Prizable 16. 1617043 Ashar Ahmad Bsc H Electronics Prizable 17. 1617051 Tarun Souda Bs.C(H) Electronics Prizable 18. 1617023 Mikul Basu Bs.C(H) Electronics Prizable 19. 1719142 Yash Goel Bs.c. (H) Mathematics Prizable 20. 1119012 Aparna Bose Bsc (prog.) Life Sciences Prizable 21. 1119023 Nirupama Sai Bsc. (PROG) Life Sciences Prizable 22. 1619062 Ishika Chauhan Bsc(H) Electronics Prizable 23. 1617011 Nancy Tyagi Bs.c. (H) Electronics Prizable 24. 1617017 Prashant Gupta Bs.c. (H) Electronics Prizable 25. 1619061 Shivangi Singh Bs.C(H) Electronics Prizable 26. 1619061 Shivangi Singh Bs.C (H) Electronics Prizable 27. 1619049 Manan Kumar Gautam Bs.C(H) Electronics Prizable 28. 1617027 KUSHAGRA PAL BSc(H) Electronics Prizable 29. 1619036 Kanchan Bs.C(H) Electronics Prizable 30. 1619064 Manav kapoor Bsc (H) electronics Prizable 31. 1617601 Chaitanya Pathak Bsc H Electronics Prizable 32. 1619017 Ritesh Singh Soun Bsc. (H) Electronics Prizable 33. 1618041 SATYAM Bsc.(H) Electronics Prizable 34. 1619001 Pratham Sahay Bsc. (H) Electronics Prizable 35. 1619068 Satender Singh Bsc. (H) electronics Prizable 36. 1619068 Satender Singh Bsc. (H) electronics Prizable 37. 1618008 Tanuj Kumar Bsc.(H) Electronics Prizable 38. 1617015 Anikesh Maurya Bsc.(H) Electronics Prizable 39. 1618069 Chandra Shekhar Bsc.(H) Electronics Prizable 30. 1618068 Satender Singh Bsc.(H) Electronics Prizable 31. 1617015 Anikesh Maurya Bsc.(H) Electronics Prizable	7.	The second secon		THE PERSON NAMED OF THE PARTY.	710
10.   1619044   Mohd Haroon   Bsc hon, Electronics   March   11.   1619051   Vishesh Bisht   Bsc H Electronics   Vishesh   12.   1618040   Riya sharma   Bsc (h) electronics   Vishesh   13.   1617020   Mayank Singh   Bsc H Electronics   Vishesh   14.   1617004   Sumedha Singh   Bsc (H) Electronics   Vishesh   15.   1617008   Ankit Sharma   Bsc (H), Electronics   March   15.   1617043   Ashar Ahmad   Bsc H Electronics   March   16.   1617043   Ashar Ahmad   Bsc H Electronics   March   17.   1617051   Tarun Souda   B.Sc (H) Electronics   18.   1617023   Mukul Basu   B.Sc (H) Electronics   19.   1719142   Vash Goel   B.Sc (H) Electronics   19.   1719142   Aparna Bose   Bsc (prog.) Life Sciences   18.   119002   Aparna Bose   Bsc (prog.) Life Sciences   18.   1	8.				A John
11.   1619051   Vishesh Bisht   Bsc H Electronics   Value   12.   1618040   Riya sharma   Bsc (h) electronics   Issue   Issu	100				103
12: 1618040   Riya sharma   Bsc (h) electronics   13: 1617020   Mayank Singh   Bsc H Electronics   14: 1617004   Sumedha Singh   Bsc H Electronics   15: 1617008   Ankit Sharma   Bsc.(H.) Electronics   16: 1617003   Ankit Sharma   Bsc.(H.) Electronics   Mayank Singh   Bsc.(H.) Electronics   Mayan					PATONO
13. 1617020 Mayank Singh BSc H Electronics 14. 1617004 Sumedha Singh B.sc(H) Electronics 15. 1617008 Ankit Sharma Bsc.(H.) Electronics 16. 1617043 Ashar Ahmad BSc H Electronics 17. 1617051 Tarun Souda B.Sc(H) Electronics 18. 1617023 Mukul Basu B.Sc(H) Electronics 19. 1719142 Yash Goel B.Sc. (H) Mathematics 19. 1719142 Aparna Bose Bsc (prog.) Life Sciences 19. 1119012 Aparna Bose Bsc (prog.) Life Sciences 19. 1119023 Nirupama Sai BSC. (PROG) Life Sciences 10. 1119024 Aparna Bose Bsc. (PROG) Life Sciences 10. 1119025 Nirupama Sai BSC. (PROG) Life Sciences 10. 1119024 Nancy Tyagi B.Sc. (H) Electronics 10. 1617017 Prashant Gupta B.Sc. (H) Electronics 10. 1619061 Shivangi Singh B.Sc. (H) Electronics 10. 1619061 Shivangi Singh B.Sc. (H) Electronics 10. 1619049 Manan Kumar Gautam B.Sc(H) Electronics 10. 1619049 Manan Kumar Gautam B.Sc(H) Electronics 10. 1619049 Manan Kumar Gautam B.Sc. (H) Electronics 10. 1619064 Manav kapoor BSC (H) Electronics 10. 1619064 Manav kapoor BSC (H) Electronics 11. 1617601 Chaitanya Pathak BSC (H) Electronics 12. 1619017 Ritesh Singh Soun BSC. (H) Electronics 13. 1618041 SATYAM B.Sc. (H) Electronics 14. 1619001 Pratham Sahay B.Sc. (H) Electronics 15. 1619069 Chandra Shekhar Bsc (H) Electronics 16. 1619068 Satender Singh Bsc (H) Electronics 17. 1618008 Tanuj Kumar BSC. (H) Electronics 18. 1617015 Anikesh Maurya B.Sc. (H) Electronics 19. 1618069 Chandra Shekhar Bsc					VIA VA
14. 1617004 Sumedha Singh B.sc(H) Electronics 15. 1617008 Ankit Sharma Bsc.(H.) Electronics Model 16. 1617043 Ashar Ahmad Bsc. H Electronics Model 17. 1617051 Tarun Souda B.Sc(H) Electronics Model 18. 1617023 Mukul Basu B.Sc(H) Electronics Model 19. 1719142 Yash Goel B.Sc. (H) Mathematics 20. 1119012 Aparna Bose Bsc (prog.) Life Sciences 21. 1119023 Nirupama Sai BSC. (PROG) Life Sciences 22. 1619062 Ishika Chauhan BSC(H.) Electronics 23. 1617011 Nancy Tyagi B.Sc. (H) Electronics 24. 1617017 Prashant Gupta B.Sc. (H) Electronics 25. 1619061 Shivangi Singh B.Sc. (H.) Electronics 26. 1619061 Shivangi Singh B.Sc. (H.) Electronics 27. 1619049 Manan Kumar Gautam B.Sc(H.) Electronics 28. 1617027 KUSHAGRA PAL BSC(H) Electronics 29. 1619036 Kanchan B.Sc(H) Electronics 30. 1619064 Manav kapoor BSC (H) electronics 31. 1617601 Chaitanya Pathak BSC H Electronics 32. 1619017 Ritesh Singh Soun Bsc. (H) Electronics 33. 1618041 SATYAM B.Sc.(H) Electronics 34. 1619001 Pratham Sahay B.Sc. (H) Electronics 35. 1619069 Chandra Shekhar Bsc (H) Electronics 36. 1619068 Satender Singh Bsc. (H) Electronics 37. 1618008 Tanuj Kumar Bsc.(H) Electronics 39. 1618069 Havandca Pa I Singh BSC.(H) Electronics 39. 161806 Anikesh Maurya B.Sc.(H) Electronics 39. 161806 BSC.(H) Electronics 30. 161906 BSC.(H) Electronics 31. 1617015 Anikesh Maurya B.Sc.(H) Electronics 39. 161806 BSC.(H) Electronics					-
15. 1617008 Ankit Sharma Bsc.(H.) Electronics had been been been been been been been bee				The second secon	Mayo
16. 1617043 Ashar Ahmad BSC H Electronics 17. 1617051 Tarun Souda B.Sc(H) Electronics 18. 1617023 Mukul Basu B.Sc(H) Electronics 19. 1719142 Yash Goel B.S.C. (H) Mathematics 20. 1119012 Aparna Bose Bsc (prog.) Life Sciences 21. 1119023 Nirupama Sai BSC. (PROG) Life Sciences 22. 1619062 Ishika Chauhan BSC(H) Electronics 23. 1617011 Nancy Tyagi B.S.C. (H) Electronics 24. 1617017 Prashant Gupta B.S.C. (H) Electronics 25. 1619061 Shivangi Singh B.S.C. (H) Electronics 26. 1619061 Shivangi Singh B.S.C. (H) Electronics 27. 1619049 Manan Kumar Gautam B.S.C (H) Electronics 28. 1617027 KUSHAGRA PAL BSC(H) Electronics 29. 1619036 Kanchan B.S.C (H) Electronics 30. 1619064 Manav kapoor BSC (H) electronics 31. 1617601 Chaitanya Pathak BSC (H) electronics 32. 1619017 Ritesh Singh Soun BSC. (H) Electronics 33. 1618041 SATYAM B.S.C. (H) Electronics 34. 1619001 Pratham Sahay B.S.C (H) Electronics 35. 1619068 Satender Singh BSC (H) electronics 36. 1619068 Satender Singh BSC (H) electronics 37. 1618008 Tanuj Kumar BSC. (H) Electronics 38. 1617015 Anikesh Maurya B.S.C (H) Electronics 39. 1618069 Harmades Pal Singh BSC (H) Electronics 39. 1618040 BSC (H) Electronics 31. 161705 Anikesh Maurya BSC. (H) Electronics 39. 1618040 BSC (H) Electronics 39. 1618040 BSC (H) Electronics 39. 1618040 BSC (H) Electronics 39. 1618069 BSC (H) Electronics 39. 1618070 BSC (H) Electronics 39. 161808 BSC (H) Electronics	67.00	100000000000000000000000000000000000000			graph of the state
17. 1617051 Tarun Souda B.Sc(H) Electronics 18. 1617023 Mukul Basu B.Sc(H) Electronics 19. 1719142 Vash Goel B.Sc. (H) Mathematics 20. 1119012 Aparna Bose Bsc (prog.) Life Sciences 21. 1119023 Nirupama Sai BSC. (PROG) Life Sciences 22. 1619062 Ishika Chauhan BSc(H.) Electronics 23. 1617011 Nancy Tyagi B.Sc. (H) Electronics 24. 1617017 Prashant Gupta B.Sc. (H) Electronics 25. 1619061 Shivangi Singh B.Sc. (H) Electronics 26. 1619061 Shivangi Singh B.Sc. (H.) Electronics 27. 1619061 Shivangi Singh B.Sc. (H.) Electronics 28. 1617027 KUSHAGRA PAL BSC(H) Electronics 29. 1619036 Kanchan B.Sc (H) Electronics 30. 1619064 Manav kapoor BSC (H) electronics 31. 1617601 Chaitanya Pathak BSC (H) electronics 32. 1619017 Ritesh Singh Soun BSC. (H) Electronics 33. 1618041 SATYAM B.Sc. (H) Electronics 34. 1619001 Pratham Sahay B.Sc (H) electronics 35. 1619068 Satender Singh BSC (H) electronics 36. 1619068 Satender Singh BSC (H) electronics 37. 1618008 Tanuj Kumar BSC. (H) Electronics 38. 1617015 Anikesh Maurya B.Sc. (H) Electronics 39. 1618069 Harmades Pal Singh BSC(H) Electronics 39. 1618015 Anikesh Maurya B.Sc. (H) Electronics					
18. 1617023					
19. 1719142		The second secon	Total Control of the	The state of the s	Jende
20. 1119012 Aparna Bose Bsc (prog.) Life Sciences 21. 1119023 Nirupama Sai BSC. (PROG) Life Sciences 22. 1619062 Ishika Chauhan BSc(H.) Electronics 23. 1617011 Nancy Tyagi B.S.C.(H) Electronics 24. 1617017 Prashant Gupta B.S.C. (H) Electronics 25. 1619061 Shivangi Singh B.S.C.(H.) Electronics 26. 1619061 Shivangi Singh B.S.C.(H.) Electronics 27. 1619049 Manan Kumar Gautam B.S.C.(H.) Electronics 28. 1617027 KUSHAGRA PAL BSC(H.) Electronics 29. 1619036 Kanchan B.S.C.(H.) Electronics 30. 1619049 Manav kapoor BSC (H.) Electronics 31. 1617601 Chaitanya Pathak BSC (H.) electronics 32. 1619017 Ritesh Singh Soun BSC. (H.) Electronics 33. 1618041 SATYAM B.S.C.(H.) Electronics 34. 1619001 Pratham Sahay B.S.C. (H.) Electronics 35. 1619068 Satender Singh BSC (H.) electronics 36. 1619068 Satender Singh BSC. (H.) Electronics 37. 1618008 Tanuj Kumar BSC. (H.) Electronics 39. 1618069 Harender Pal Singh BSC. (H.) Electronics 39. 1618069 BSC. (H.) Electronics 39. 1618069 BSC. (H.) Electronics 39. 161807 BSC. (H.) Electronics 39. 161808 Tanuj Kumar BSC. (H.) Electronics 39. 161808 Bac (H.) Electronics 39. 161808 BSC. (H.) Electronics	320	Control of the Contro		The state of the s	Much
21. 1119023 Nirupama Sai BSC. (PROG) Life Sciences Miles Chauthan BSc(H) Electronics Ishika Chauthan BSc(H) Electronics Miles Chauthan BSC(H) Electronics Chauthan BSC(H) Elec					Actor.
22. 1619062 Ishika Chauhan BSC(H.) Electronics 23. 1617011 Nancy Tyagi B.Sc. (H) Electronics 24. 1617017 Prashant Gupta B.Sc. (H) Electronics 25. 1619061 Shivangi Singh B.Sc. (H.) Electronics 26. 1619061 Shivangi Singh B.Sc. (H.) Electronics 27. 1619049 Manan Kumar Gautam B.Sc. (H.) Electronics 28. 1617027 KUSHAGRA PAL BSC(H.) Electronics 29. 1619036 Kanchan B.Sc. (H.) Electronics 30. 1619064 Manav kapoor BSC. (H.) Electronics 31. 1617601 Chaitanya Pathak BSC (H.) Electronics 32. 1619017 Ritesh Singh Soun BSC. (H.) Electronics 33. 1618041 SATYAM B.Sc. (H.) Electronics 34. 1619001 Pratham Sahay B.Sc. (H.) Electronics 35. 1619069 Chandra Shekhar BSC (H.) Electronics 36. 1619068 Satender Singh BSC. (H.) Electronics 37. 1618008 Tanuj Kumar BSC. (H.) Electronics 39. 1618069 Havendez Pal Singh BSC. (H.) Electronics 39. 1618069 Havendez Pal Singh BSC. (H.) Electronics 39. 1618069 BSC. (H.) Electronics 39. 161806 BSC. (H.) Electronics 30. 161806 BSC. (H.) Electronics 31. 161808 BSC. (H.) Electronics 32. 161808 BSC. (H.) Electronics 33. 161808 BSC. (H.) Electronics 34. 161808 BSC. (H.) Electronics 35. 161808 BSC. (H.) Electronics 36. 161808 BSC. (H.) Electronics 37. 161808 BSC. (H.) Electronics 38. 1617015 BSC. (H.) Electronics					1818
23. 1617011 Nancy Tyagi B.Sc.(H) Electronics Prashant Gupta B.Sc. (H) Electronics Prashant Gupta B.Sc.(H) Electronics Brasil Gupta B.Sc. (H) Electronics Brasil Gupta Brasi				BSC. (PROG) Life Sciences	Ningo
24. 1617017 Prashant Gupta B.Sc. (H) Electronics Gupta Gup			Ishika Chauhan	BSc(H.)Electronics	150013
25. 1619061 Shivangi Singh B.Sc(H.) Electronics Photos Shivangi Singh B.Sc(H.) Electronics Shivangi Singh Si			Nancy Tyagi	B.Sc.(H) Electronics	Many
26. 1619061 Shiwangi Singh B. Sc. (H.) Electronics Shiwangi Singh Soun B. Sc. (H.) Electronics Shiwangi Singh Singh Soun B. Sc. (H.) Electronics Shiwangi Singh Singh Singh Singh Singh B. Sc. (H.) Electronics Shiwangi Singh Singh Singh B. Sc. (H.) Electronics Shiwangi Singh Singh Singh B. Sc. (H.) Electronics Shiwangi Singh Singh B. Sc. (H.) Electronics Shiwangi Singh Si	24.	1617017	Prashant Gupta	B.Sc. (H) Electronics	Krank
27. 1619049 Manan Kumar Gautam B.sc(H) Electronics 28. 1617027 KUSHAGRA PAL BSc(H) Electronics 29. 1619036 Kanchan B.Sc(H) Electronics 30. 1619064 Manav kapoor BSc (H) electronics 31. 1617601 Chaitanya Pathak BSc (H) electronics 32. 1619017 Ritesh Singh Soun Bsc. (H) Electronics 33. 1618041 SATYAM B.Sc.(H) Electronics 34. 1619001 Pratham Sahay B.Sc (H) electronics 35. 1619069 Chandra Shekhar Bsc (H) electronics 36. 1619068 Satender Singh Bsc (H) electronics 37. 1618008 Tanuj Kumar BSc.(H) Electronics 38. 1617015 Anikesh Maurya B.Sc.(H) Electronics 39. 1618069 Havender Pal Singh BSc(H) Electronics	25.	1619061	Shivangi Singh	B.Sc(H.)Electronics	Phyon
28. 1617027 KUSHAGRA PAL BSc(H) Electronics 29. 1619036 Kanchan B.Sc(H) Electronics Kam 30. 1619064 Manay kapoor BSc (H) electronics 31. 1617601 Chaitanya Pathak BSc H Electronics 32. 1619017 Ritesh Singh Soun BSc. (H) Electronics 33. 1618041 SATYAM B.Sc. (H) Electronics 34. 1619001 Pratham Sahay B.Sc. (H) Electronics 35. 1619069 Chandra Shekhar BSc (H) electronics 36. 1619068 Satender Singh BSc (H) electronics 37. 1618008 Tanuj Kumar BSc. (H) Electronics 38. 1617015 Anikesh Maurya BSc. (H) Electronics 39. 1618069 Harender Pal Singh BSc (H) Electronics 39. 1618069 BSC (H) Electronics	-26:	1619061	Shivangi Singh	B.Sc.(H.)Electronics	Phinon
28. 1617027 KUSHAGRA PAL BSc(H) Electronics (LAU) 29. 1619036 Kanchan B.Sc(H) Electronics (LAU) 30. 1619064 Manav kapoor BSc (H) electronics 31. 1617601 Chaitanya Pathak BSc H Electronics 32. 1619017 Ritesh Singh Soun Bsc. (H) Electronics 33. 1618041 SATYAM B.Sc. (H) Electronics 34. 1619001 Pratham Sahay B.Sc. (H) Electronics 35. 1619069 Chandra Shekhar Bsc (H) electronics 36. 1619068 Satender Singh Bsc (H) electronics 37. 1618008 Tanuj Kumar BSc. (H) Electronics 38. 1617015 Anikesh Maurya B.Sc. (H) Electronics 39. 1618069 Hazendez Pal Singh BSc(H) Electronics	27.	1619049	Manan Kumar Gautam	B.sc(H) Electronics	Jours
29. 1619036 Kanchan B.Sc(H) Electronics Kaman B.Sc(H) Electronics Kaman B.Sc(H) Electronics Manay kapoor BSC (H) electronics Manay kapoor BSC (H) electronics Manay kapoor BSC (H) Electronics Manay Robert BSC (H) Electronics Manay BSC (H) Electronics BSC (H) Electronics Manay BSC (H) Electronics BSC (H) Electronics Manay BSC (H) Electronics BSC (H	28.	1617027	KUSHAGRA PAL	BSc(H) Electronics	601
30. 1619064 Manay kapoor BSC (H) electronics (A) 31. 1617601 Chaitanya Pathak BSC H Electronics (H) 32. 1619017 Ritesh Singh Soun BSC. (H) Electronics (H) 33. 1618041 SATYAM B.SC. (H) Electronics (H) 34. 1619001 Pratham Sahay B.SC. (H) Electronics (H) 35. 1619069 Chandra Shekhar BSC (H) electronics (H) 36. 1619068 Satender Singh BSC (H) electronics (H) 37. 1618008 Tanuj Kumar BSC. (H) Electronics (H) 38. 1617015 Anikesh Maurya BSC. (H) Electronics (H) 39. 1618069 Havender Pal Singh BSC (H) Electronics (H) 40. 1618069 Havender Pal Singh BSC (H) Electronics (H) 40. 1618069 Havender Pal Singh BSC (H) Electronics (H) 40. 1618069 Havender Pal Singh BSC (H) Electronics (H) 40. 1618069 Havender Pal Singh BSC (H) Electronics (H) 40. 1618069 Havender Pal Singh BSC (H) Electronics (H) 40. 1618069 Havender Pal Singh BSC (H) Electronics (H) 40. 1618069 Havender Pal Singh BSC (H) Electronics (H) 40. 1618069 Havender Pal Singh BSC (H) Electronics (H) 40. 1618069 Havender Pal Singh BSC (H) Electronics (H) 40. 1618069 Havender Pal Singh BSC (H) Electronics (H) 40. 1618069 Havender Pal Singh BSC (H) Electronics (H) 40. 1618069 Havender Pal Singh BSC (H) Electronics (H) 40. 1618069 Havender Pal Singh BSC (H) Electronics (H) 40. 1618069 Havender Pal Singh BSC (H) Electronics (H) 40. 1618069 Havender Pal Singh BSC (H) Electronics (H) 40. 1618069 Havender Pal Singh BSC (H) Electronics (H) 40. 161806 Havender Pal Singh BSC (H) Electronics (H) 40. 161806 Havender Pal Singh BSC (H) Electronics (H) 40. 161806 Havender Pal Singh BSC (H) 40. 161806 Have	29.	1619036	Kanchan	The state of the s	N. S.
31. 1617601 Chaitanya Pathak BSC H Electronics 32. 1619017 Ritesh Singh Soun Bsc. (H) Electronics 33. 1618041 SATYAM B.Sc. (H) Electronics Sout 34. 1619001 Pratham Sahay B.Sc. (H) Electronics 35. 1619069 Chandra Shekhar Bsc. (H) electronics 36. 1619068 Satender Singh Bsc. (H) electronics 37. 1618008 Tanuj Kumar BSc. (H) Electronics 38. 1617015 Anikesh Maurya B.Sc. (H) Electronics 39. 1618069 Harender Pal Singh BSc. (H) Electronics 39. 1618069 Harender Pal Singh BSc. (H) Electronics	30.	1619064			
32. 1619017 Ritesh Singh Soun Bsc. (H) Electronics (H) And Bsc. (H) Electronics (H) And Bsc. (H) Electronics (H) And Bsc. (H) Electronics (H)	31.	1617601			The state of
33. 1618041 SATYAM B.S.C.(H) Electronics  34. 1619001 Pratham Sahay B.S.C.(H) Electronics  35. 1619069 Chandra Shekhar Bsc (H) electronics  36. 1619068 Satender Singh Bsc (H) electronics  37. 1618008 Tanuj Kumar BSc.(H) Electronics  38. 1617015 Anikesh Maurya B.S.C.(H) Electronics  39. 1618069 Harender Pal Singh BSc(H) Electronics	32.			The state of the s	Chart
34. 1619001 Pratham Sahay B.Sc.(H) Electronics (Sott 161906) 35. 1619069 Chandra Shekhar Bsc (H) electronics (			The second secon		214
35. 1619069 Chandra Shekhar Bsc (H) electronics 36. 1619068 Satender Singh Bsc (H) electronics 37. 1618008 Tanuj Kumar BSc.(H) Electronics 38. 1617015 Anikesh Maurya B.Sc.(H) Electronics 39. 1618069 Hazendez Pal Singh BSc(H) Electronics					Soct
36. 1619068 Satender Singh Bsc (H) electronics 37. 1618008 Tanuj Kumar BSc.(H) Electronics 38. 1617015 Anikesh Maurya B.Sc.(H) Electronics 39. 1618069 Hazendez Pal Singh BSc(H) Electronics				B.Sc (H) Electronics	ert
37. 1618008 Tanuj Kumar BSc.(H) electronics 38. 1617015 Anikesh Maurya B.Sc.(H) Electronics 39. 1618069 Hazandez Pal Singh BSc(H) Electronics 40. V140035			Chandra Shekhar	Bsc (H) electronics	CO.D
38. 1617015 Anikesh Maurya B.Sc.(H) Electronics 39. 1618069 Haarander Pal Singh BSctH) Elec tta		1619068	Satender Singh	Bsc (H) electronics	1
38. 1617015 Anikesh Maurya B.Sc.(H) Elec And 39. 1618069 Harrander Pal Singh BSC(H) Elec thr	37.	1618008	Tanuj Kumar	BSc.(H) Electronics	-
39. 1618069 Harrander Pal Singh BSC(H) Elec tha	38.	1617015	Anikesh Maurya		1
40. MIANDE LOS AND ALL SINGH OSCIPILIEC THE	200	1618069	Horander Parsin	The state of the s	H
	40.	1619035	tehita Shaina	RECHIRIOLEONIC	1 ps

### **CERTIFICATE**





# SRI VENKATESWARA COLLEGE (University of Delhi)

# Internal Quality Assurance Cell

#### Chairperson

Prof C. Sheela Reddy Principal Sri Venkateswara College

IQAC Coordinator Dr. N. Latha Department of Biochemistry

External Members Prof Debi P Sarkar Department of Biochemistry University of Delhi South

Prof Alo Nag University of Delhi South Campus

Dr. Gitanjali Yadav NIPGR, Delhi

Internal Members
Dr. Meenakshi Bharat
Department of English

Dr. Lalitha Josyula Department of Electronics

Dr. Namita Pandey Department of Political Science

Dr. A. K. Chaudhary Department of Physics

Dr. K.C. Singh Department of Physics

Dr. Swarn Singh Department of Mathematics

Dr. Neeraj Sahay Department of History

Dr. Vartika Mathur Department of Zoology

Dr. Shruti Mathur Department of Commerce

Dr. Padma Priyadarshini Department of Sociology

Dr. Nimisha Sinha Department of Biochemistry

Shri D. Venkat Ramana 4.0(1/C)

This is to certify that the Activity report (Teacher/Department /Society/Association) has been submitted for documentation to IQAC, Sri Venkateswara College, University of Delhi.

IQAC Coordinator Sri Venkateswara College

> Coordinator, IQAC Sri Venkateswara College (University of Delhi) Dhaula Kuan, New Delhi-110021

PRINCIPAL
Sri Venkateswara College
PRINCIPAL

Sri Venkateswara College (University of Delhi) Dhaula Kuan, New Delhi-110021

Website: www.svc.ac.in

E-mail: iqac@svc.ac.in