



# NFSU BULLETIN

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A NATIONAL FORENSIC SCIENCES UNIVERSITY NEWSLETTER

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## UNION HOME MINISTER SHRI AMIT SHAH VISITS NFSU

Shri Amit Shah, Hon'ble Union Home Minister and Minister of Co-Operation visited the National Forensic Sciences University (NFSU) on 12th July 2021. It was a privilege for NFSU to host the visit of the Hon'ble Home Minister, someone who is at the forefront of propagating the use of scientific techniques of investigation and closely associated with this institution since its very inception. In 2009, Shri Amit Shah, as the then Home Minister of Gujarat, was instrumental in establishing the NFSU's predecessor, the Gujarat Forensic Sciences University (GFSU) as the world's first Forensics University. Considering the enviable progress since then as well as to boost the use of forensic evidence across the country, the Hon'ble Union Home minister, initiated the upgradation of GFSU to be made a national university, the NFSU, and accord the status of the Institution of National Importance (INI) on 1st October 2020. This was the first visit of Shri Amit Shah to NFSU after attaining national status, and a much awaited one for Team NFSU.

In a nearly 3-hour visit of Shri Amit Shah, the NFSU also had the honour to host the Hon'ble Chief Minister of Gujarat, Shri Vijay Rupani, Gujarat's Minister of State for Home Shri Pradeepsinh Jadeja, Union Home Secretary Shri Ajay Kumar Bhalla IAS, Director General of Narcotics Control Bureau (now Commissioner of Police, Delhi) Shri Rakesh Asthana IPS, Gujarat's Additional Chief Secretary Shri Pankaj Kumar IAS and, Additional Secretary in the Ministry of Home Affairs, Ms. Punya Salila Srivastava IAS. All the dignitaries were received and conducted by the Hon'ble Vice Chancellor of NFSU, Dr. J.M. Vyas. He was accompanied by the Campus Director, Prof. (Dr.) S.O. Junare and the Executive Registrar, Shri C.D. Jadeja who were instrumental in overseeing all the arrangements.

During the visit, Shri Amit Shah inaugurated the Centre of Excellence for Research and Analysis of Narcotic Drugs and Psychotropic Substances and launched a Virtual Training Module on Investigation of Crime against Women. Besides this, the guests visited certain Research Centers and laboratories.

## SHRI AMIT SHAH INAUGURATES CENTRE OF EXCELLENCE FOR NDPS



On 12th July 2021, Shri Amit Shah, Union Home Minister and Minister of Co-Operation, inaugurated the Centre of Excellence (CoE) for Research and Analysis of Narcotic Drugs and Psychotropic Substances (NDPS) at NFSU, Gandhinagar. Hon'ble Chief Minister of Gujarat, Shri Vijay Rupani and Gujarat's Minister of State for Home, Shri Pradeepsinh Jadeja were also present on the occasion. Hon'ble Vice Chancellor of NFSU, Dr. J.M. Vyas explained the guests on the various facilities created at the centre as well as about the future plans. Dr. Astha Pandey, Associate Professor at NFSU and the Head of the CoE who worked relentlessly to make this state-of-the-art centre a reality, also accompanied Dr. Vyas.

This Centre of Excellence has followed a MoU with Narcotics Control Bureau (NCB), New Delhi and aims to develop and deploy indigenous, simple, specific, sensitive and validated methods for quantification of NDPS, especially the new psychoactive designer drugs. In order to help trace the origin of drugs smuggled into the country, the CoE of NDPS would assist NCB and the States/UTs in identifying geographical origin of the drugs, including predictive analysis based on GIS mapping of NDPS. It would also undertake training of staff at Central Forensic Science Laboratories (CFSL), State Forensic Science Laboratories, Central Revenues Control Laboratory, and law enforcement officers on procedures and processes for detection and identification of NDPS.

The CoE also envisions to acquire expertise in the advanced areas of instrumental analysis of NDPS and designer drugs. Its future goals include creating state-of-the-art centralized facilities in inter-disciplinary areas of NDPS drugs analysis and create data base to establish network between Forensic Science Laboratories and other laboratories engaged in Narcotic Drugs analysis. It also envisages to create a facility for quality management and proficiency testing, providing technological solutions to India's growing drug abuse and concerns. The CoE of NDPS will also focus on development of onsite detection kits for NDPS.

## SHRI AMIT SHAH VISITS BALLISTIC RESEARCH CENTRE & TESTING RANGE



Hon'ble Home Minister, Shri Amit Shah visited Ballistic Research Centre & Testing Range (BRCTR) of NFSU on 12th July 2021 along with Shri Vijay Rupani, Hon'ble Chief Minister of Gujarat, and Shri Pradeepsinh Jadeja, Gujarat's Hon'ble Minister of State for Home. Dr. J.M. Vyas, Hon'ble Vice Chancellor of NFSU apprised that BRCTR is Asia's only 50 meter Indoor Ballistic Lab equipped with all the modern instruments required to evaluate all types of armored materials like vehicles, jackets, helmets, steel, glass, armored shield, armored panels, patka and cylinder as per national and international standards. In particular, Dr. Vyas highlighted the expertise in jacket testing and vehicle testing. Shri S.G. Khandelwal, Head of BRCTR, and Shri Saurabh Kumar, Scientific Officer (Ballistics), were also present during the visit.



BRCTR is a unique facility for the development of advanced technology in forensic ballistics including research in the area of terminal ballistics and armour materials. It is equipped with the technology which can induce artificial ageing to the materials to determine the serviceability of a product up to a life of 10 years. In order to assess the performance of life saving equipment in extreme weather conditions, it also has the technology to induce thermal stress, which tests the material at the temperatures ranging from -40°C to 150°C. The Vehicle testing facility is able to test the vehicles up to 6 Ton capacity, lift up to a height of 2 meters, rotate 360° and tilt up to 30° in all the directions, thereby creating a real time testing. The Centre also tests Bullet Resistant vehicle tyres in a rotating condition. BRCTR serves the Armed Forces, CAPFs, State Police, and security service providers. Subsequently, in front of BRCTR, Shri Amit Shah did tree plantation with *Kadam* plant which is known for being favourite of Lord Krishna.



## HON'BLE HOME MINISTER VISITS FORENSIC PSYCHOLOGY LABORATORY



During the visit to NFSU on 12th July 2021, Shri Amit Shah, accompanied by Shri Vijay Rupani, Hon'ble Chief Minister of Gujarat, and Shri Pradeepsinh Jadeja, Hon'ble Minister of State for Home of Gujarat, visited the Advanced Forensic Psychology laboratory along with Dr. J.M. Vyas, Hon'ble Vice Chancellor of NFSU. He was received by Air Commodore K.R. Thaakar, Dean of the School of Forensic Psychology. Shri Vishal Parmar, Associate Professor at NFSU and In Charge of this laboratory, was also present. Dr. J.M. Vyas apprised the guests about various technologies installed in this new laboratory such as indigenously designed Brain Electrical Oscillations Signature (BEOS) Profiling System, mobile BEOS system, Layered Voice Analysis System, Suspect Detect System (SDS) and Eye Detect System (EDS). In particular, he explained the functionality and advantages of mobile BEOS, SDS and EDS. Dr. Vyas also apprised the future plans to expand this laboratory with certain other technologies and facilities, and establish a Centre of Excellence for Forensic Psychology.

## VISIT TO FORENSIC ODONTOLOGY LAB BY HON'BLE HOME MINISTER



Shri Amit Shah, accompanied by Shri Vijay Rupani and Shri Pradeepsinh Jadeja, visited the Forensic Odontology Laboratory of NFSU on 12th July 2021. Dr. J.M. Vyas briefed about the facilities and the 2-year M.Sc. Forensic Odontology program offered to dentists which deals with the role of teeth in criminal investigation especially in cases of mass disasters. The laboratory is a state-of-the-art research and analytical unit for forensic identification of the human and non-human dental remains. This unique facility is equipped with cutting-edge equipment for cranio-facial and forensic dental investigations. Its other thrust areas are 2D & 3D Forensic Facial Reconstruction, Forensic Pathology & Radiology, Forensic Dental Genetics (DNA), 3D Forensics etc.

## VISIT TO CYBER DEFENCE CENTRE BY SHRI AMIT SHAH

On 12th July 2021, Hon'ble Home Minister, Shri Amit Shah visited Cyber Defence Centre (CDC) along with Shri Vijay Rupani, Hon'ble C.M. of Gujarat, and Shri Pradeepsinh Jadeja, Gujarat's Hon'ble Minister. Dr. J.M. Vyas, Hon'ble V.C. of NFSU apprised that this Centre is one of its kind and offers highly specialised platform for Cyber-Digital Forensics and Investigation. He explained that the platform has been customised to tackle the emerging Cyber Security challenges and exposes students to multi-dimensional nature of Cyber Security through simulation exercises, war gaming and table top exercises. Prof. (Dr.) N.K. Chaudhary, Dean, School of Cyber Security & Digital Forensics and Head, CDC, was also present and gave valuable inputs. The multi-spectrum and vendor neutral tools at CDC have facilitated high quality research which has been translated into a product form. The platform is highly modular and scalable in design. It houses Intelligent Security Operation Centre Solutions for Financial Institution and Industry which has been built on a highly customisable framework to suit their Cyber Security needs. In order to meet to Cyber Security challenges that the Critical National Infrastructure and Industrial sector is facing, the facility at the CDC is being upgraded with Operational Technology (OT) and Internet-of-Things (IoT) verticals.





## SHRI AMIT SHAH LAUNCHES VIRTUAL TRAINING MODULE ON INVESTIGATION OF CRIME AGAINST WOMEN



Shri Amit Shah, Hon'ble Union Home Minister and Minister for Cooperation, launched a country-wide Virtual Training Programme on Investigation of Crime against Women at an hour long event held at the Auditorium of NFSU on 12th July 2021. At the outset, Dr. J.M. Vyas, Hon'ble Founder Vice Chancellor of NFSU welcomed Shri Amit Shah with a bouquet of flowers and a traditional shawl, and presented a memento to him. In a similar manner, Dr. Vyas also welcomed other dignitaries on the stage - Shri Vijay Rupani, Hon'ble Chief Minister of Gujarat - Shri Pradeepsinh Jadeja, Gujarat's Minister of State for Home - Shri Ajay Kumar Bhalla IAS, Home Secretary, Govt. of India - Shri Rakesh Asthana IPS, Director General of Narcotics Control Bureau (and DG, BSF) - Shri Pankaj Kumar IAS, Additional Chief Secretary, Home Dept. Govt. of Gujarat and, Ms. Punya Salila Srivastava IAS, Additional Secretary in the Ministry of Home Affairs. Shri Amit Shah was also welcomed with a bouquet on behalf of the trainees by Mr. Ahmed Fayaz from Forensic Service of Maldives, undergoing a 5-week training on Polygraph, and from students' side, by Ms. Gloriana Dehwa, a MBA (Homeland Security) student from Zimbabwe. The function was attended by the faculty, staff and students of NFSU, maintaining strict COVID-19 protocol, and was telecast live on number of TV channels.

Dr. J.M. Vyas delivered the opening address and informed that although limited research had been going on in NDPS, there was a need for a dedicated research centre in this field. He thanked Hon'ble Home Minister Shri Amit Shah for reposing faith and providing an opportunity to establish such a modern centre for advanced research in NDPS which will look into all the aspects including the source, composition, source of ingredients and even de-addiction. He also gave an overview of a unique initiative of the Hon'ble Home Minister to launch a Virtual Training Module for police staff which NFSU has specially created with inputs from police officers, judges, advocates, forensic experts, etc.

Speaking on the occasion, Hon'ble Chief Minister of Gujarat, Shri Vijay Rupani thanked the Prime Minister and the Home Minister for setting up the CoE for NDPS as well as Virtual Training Module for crime investigation. He emphasized on the need for reigning in the drug mafia and drug addiction in the country, and brought out that tough laws and strict action is being taken in Gujarat against all kinds of addiction. He also expressed the dire need for protection and safety of women, and highlighted various initiatives taken in this regard in the state of Gujarat.

Hon'ble Home Minister, Shri Amit Shah, thereafter launched the Virtual Training Module on Investigation of Crime against Women. It is a multi-lingual training module on criminal investigation which has been specially designed for police staff across the country from Constable to Police Inspector level. It encompasses all the aspects of scientific aids to investigation. It is a self-paced learning through a dedicated portal with online evaluation and testing for each module. What is important is that it has interactive sessions with practicals to make it interesting and effective.

Shri Amit Shah began his address by informing that soon after forming the government second time in 2019, the Hon'ble Prime Minister, Shri Narendra Modi had decided that considering the outstanding performance in the past of Gujarat's Directorate of Forensic Science as well as Gujarat Forensic Science University (GFSU) under the able leadership of Dr. J.M. Vyas, the GFSU should be upgraded to be the national university, and the Center of Excellence for NDPS should only be set up at this university. He brought out that when this university was started in 2009, he was Gujarat's Home Minister and Shri Narendra Modi was the C.M., and today when it has become a national university, he is the Union Home Minister and Shri Modi is the Prime Minister of the country. He expressed happiness that a small seed sown here in 2009 has now become a huge banyan tree that will strengthen the criminal justice system of the nation.





The Hon'ble Home Minister particularly highlighted the two unique facilities of NFSU, the Cyber Defence Centre (CDC) and the Ballistic Research Centre & Testing Range, and informed that both have all the requisite technologies and are best in Asia. Cyber security is very important for India's security as well as economy, and centres like CDC have important role in the much desired area of cyber security. Protective materials which were earlier tested in the USA and Europe are now being tested at Ballistics Research Center which is of most beneficial to the security personnel across the country and, for taking the nation on course to be self-reliant. Now, with the CoE of NDPS established at NFSU, a detailed analysis will be conducted on all the seized items of drugs. It is a complete unit and at par with the world's best laboratories. He expressed happiness that the dream conceived by Prime Minister Shri Narendra Modi has been fulfilled today. This centre will also prepare a testing kit which will be made available to the police forces across the country.

Shri Amit Shah clearly stated that to strengthen the criminal justice system there is a need for extensive use of forensic science. The era of using third degree methods is over and now even the toughest of the criminals can be cracked and brought to justice on the basis of scientific investigation. To begin with, there must be at least a mobile forensic van in each of the districts so as to have an extension of a FSL, and the same is being planned. However, this needs forensics trained youth, and in turn, the training facilities for which, NFSU will help establish specialised training facilities all over the country and affiliate colleges. Already seven states have expressed willingness to set up forensic science colleges or centres affiliated to NFSU and that he is confident that this University will set up its branches across the country which will offer an opportunity to the youth to study forensic science. He added that our New Education Policy as well as the Prime Minister lays great emphasis on the students getting the best and varied scientific education, and its biggest gainer is going to be the NFSU.

In the end, the Hon'ble Minister informed that the Government of India under the leadership of Shri Narendra Modi has decided that no narcotics substances will be allowed to enter India. Towards this, number of steps have been taken recently and, the quantity of NDPS seized by Narcotics Control Bureau (NCB) during past one and half years is the highest ever catch. Narco-Terrorism is another threat to India as the money it generates is used for terrorism and so it is very important to stop it. Shri Amit Shah further expressed confidence that with the kind of work culture established in this university, it has become a leading institution in forensic science and in the next 4-5 years, this Forensics University will cement its place even more firmly as the most outstanding university in the world, thereby confirming the faith reposed in NFSU by the Hon'ble Prime Minister Shri Narendra Modi. Before closing, the Union Home Minister conveyed his very best wishes to Dr. J.M. vyas and his team of NFSU as well as to Shri Rakesh Asthana and his team of NCB on the inauguration of the CoE of NDPS on the auspicious day of Jagannath Rath Yatra.

Prof. (Dr.) S.O. Junare, Campus Director delivered a vote of thanks. He began with thanking Shri Amit Shah who has been the nerve centre of establishment, development, expansion and upgradation of this university, as also for all the valuable guidance and sparing his valuable time. In addition, he profusely thanked to Shri Vijay Rupani and Shri Pradeepsinh Jadeja, not just for gracing the occasion but also their guidance and assistance at all times. He also expressed gratitude to Shri Ajay Kumar Bhalla IAS, Shri Rakesh Asthana IPS, Shri Pankaj Kumar IAS and Ms. Punya Salila Srivastava IAS for their sustained cooperation and guidance. Prof. Junare also thanked DGP and senior officers of Gujarat Police, Collector of Gandhinagar district, Director and staff of Directorate of Forensic Science Services (DFSS) under MHA, Director and staff of Gujarat's Directorate of Forensic Science (DFS), guests, media personnel, and all those who worked tirelessly to make the entire visit successful. The event was conducted by Dr. Astha Pandey, Associate Professor and ended with singing the national anthem by all the attendees.

## IMPORTANT EVENTS

### DEPARTMENT OF DEFENSE OF USA COLLABORATES WITH NFSU



In a landmark development, the United States Department of Defense has decided to collaborate with NFSU to recover and identify the remains of its missing soldiers through its agency, the Defense Prisoner of War/Missing in Action Accounting Agency (DPAA). It is reported that over 400 US personnel are believed to have gone missing in India during World War II. On 27th May 2021, Mr. Kelly McKeague, Director of DPAA and Dr. J.M. Vyas, Hon'ble Vice Chancellor of NFSU signed the MoU in a virtual mode through a video conference. NFSU, with its renowned expertise and capabilities, would assist in advancing DPAA's effort to find and recover the missing US personnel in India from World War II. The MoU involves mutual capacity building in the humanitarian recovery concept, creating unique research opportunities, student exchange and associated activities in related subjects such as forensic anthropology, forensic archaeology and forensic odontology. It would also establish the framework for identification of cooperative activities to account for the missing US personnel from past military conflicts. The event was attended by Prof. (Dr.) S.O. Junare, Campus Director of NFSU, Dr. Thomas Holland, Director-Partnership & Innovations of DPAA, Prof. (Dr.) N.K. Chaudhary, Head, Centre for International Relations of NFSU, Dr. Abraham Johnson, Coordinator of the Centre and Dr. Gargi Jani, Project Manager at NFSU.

### DELHI POLICE RECRUITS NFSU GRADUATES

In a major boost to the forensic science, Delhi Police has signed a MoU with NFSU for strengthening their forensic capabilities to fight against the crime. Under this MOU, Delhi police has recruited 90 alumni of National Forensic Sciences University as Junior Forensic Assistants in the domain of general forensics and cyber security / digital forensics on a contract ranging from three to five years. They have also recruited 29 forensics specialists from the alumni of NFSU with expertise in the fields of Advanced Cyber Security, Advanced Digital Forensics, Forensic Accountancy, Forensic Chemistry/Toxicology, Forensic Psychology and Forensic Biology/Odontology on a contract between three to five years. These forensic specialists will help the Delhi Police officials at the level of DCP to investigate the crime scientifically with the help of forensic science tools and techniques.

### NFSU CELEBRATES UNITED NATIONS' COUNTER TERRORISM WEEK



Lt. Col. Uri Ben Yaakov



Air Marshal S.S. Soman



Dr. Dalbir Ahlawat



Shri Mahaveer Singhvi

NFSU celebrated United Nations' Counter Terrorism Week from 24th June to 30th June 2021. Towards this, School of Police Science & Security Studies (SPSS) of NFSU conducted a Webinar Series of four Expert Talks on Counter Terrorism for the NFSU students especially from Homeland Security. The inaugural talk was delivered on 24th June 2021 by Lt. Col. Uri Ben Yaakov, Director of International Relations & Senior Researcher at The International Institute for Counter-Terrorism (ICT), Tel Aviv, Israel, on the topic "Anatomy of a Terror Attack". The talk involved detailed arrangements and planning for a terrorist cell in a western country to conduct a significant attack in a shopping mall. It was very well received and generated lot of interest.

The second expert talk was on 25th June 2021 was India-specific by Air Marshal SS Soman (Retd.), former Air Officer Commanding-in-Chief of Western Air Command, and current Chair of Excellence for Defence and Strategic Studies at Savitribai Phule Pune University. His topic was "Military Counters to different faces of terrorism in India" in which he enlightened the students about terrorism in J & K, insurgency in the North-East and the Left Wing Extremism, and the measures initiated by the armed forces to contain it.

The third expert talk of the series covered South Asia and was delivered on 28th June 2021 by Dr. Dalbir Ahlawat, Senior Lecturer with the Department of Security Studies & Criminology at Macquarie University, Sydney, Australia. His topic was "Countering Terrorism in South Asia : Post-US Withdrawal from Afghanistan" in which he covered a wider canvas of terrorism in South Asia and how situation is likely to unfold in the region once the US troops withdraw from Afghanistan. Being a burning issue, students had lot of queries.

Shri Mahaveer Singhvi IFS, Joint Secretary (Counter-Terrorism) in the Ministry of External Affairs, Government of India, touched upon the international scenario in the final expert talk of the webinar series delivered on 30th June 2021. In his topic of "Diplomacy in Counter Terrorism", he enlightened about the wide ranging measures being taken by our diplomats across the world. During the webinar series, all the speakers were introduced by Air Commodore K.R. Thaakar, Dean, School of Police Science & Security Studies (SPSSS) and technical support was provided by Mr. Keval Pandya, Asst. Professor of SPSSS.

### VISIT BY DDG, INDIAN COUNCIL FOR CULTURAL RELATIONS



On 23rd June 2021, Shri Prashant Pise IFS, Dy. Director General of Indian Council for Cultural Relations (ICCR), New Delhi visited NFSU. He held a meeting with Dr. J.M. Vyas, Hon'ble Vice-Chancellor, NFSU and was briefed on the various activities in academic, training, research, and consultancy services for international relations with partner countries. He, thereafter addressed and interacted with the ICCR nominated international students of NFSU.



## ACTIVITIES

### COVID CARE CENTRE ESTABLISHED BY NFSU



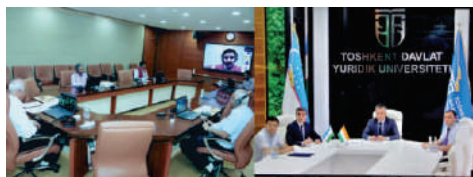
Hon'ble Vice Chancellor of NFSU, Dr. J.M. Vyas, took yet another major step for the well being of the students and staff by promptly constituting a COVID-19 Task Force, setting up of a RTPCR testing facility and establishing a COVID Care Centre (CCC) on the university premises. The CCC has been established for providing preliminary preventive COVID-19 healthcare to its students especially the large number of foreign students residing in hostel, employees and their immediate family members. The Centre was established on 17th May 2021 and attends patients who are mild cases or suspected cases. The medical arrangements were made by Dr. Dharmesh Silajiya with the help of faculty of MBA (Hospital & Healthcare Management) led by Dr. Kagi Shah. The administrative arrangements were coordinated by Air Commodore Kedar Thaakar with the help of Dy Registrar (Coord), Shri V.H. Patel, and the Campus Engineer, Shri R.C. Acharya. It is a 16-bedded facility established at an isolated location on the top floor of the NFSU Guest House with a separate entry. The medical facilities include tools for patient monitoring, oxygen cylinders, oxygen concentrators, PPE kits, medicines, etc. RTPCR tests are conducted at the COVID-19 Testing Facility, set up in May 2020 under the supervision of Dr. Bhargav Patel, Sr. Asst. Professor. The healthcare team is headed by Dr. Dharmesh Silajiya, Dean, School of Forensic Science.

### PARTICIPATION IN 'STUDY IN INDIA' VIRTUAL EXPO 2021

The Study in India Virtual Education Fair and Expo – 2021 was held from 11th June to 15th June, 2021. NFSU actively participated in the Virtual Expo showcasing the courses offered by the University. More than 4100 visitors attended the Study in India Virtual Expo from 30 different countries such as Indonesia, Nepal, Bangladesh, Kenya, Afghanistan, Nigeria and others.

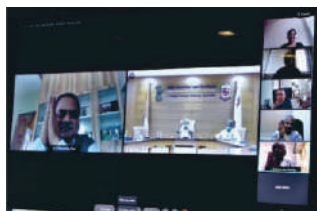
## KNOWLEDGE SHARING

### MoU WITH TASHKENT UNIVERSITY



Tashkent State University of Law (TSUL) located at Tashkent, Uzbekistan signed a Memorandum of Understanding (MoU) with the NFSU on 25th May 2021. Dr. J.M. Vyas, Hon'ble Vice-Chancellor of NFSU and Prof. Hakimov Rahim Rasuljonovich, Rector of TSUL signed the MoU in a virtual mode for collaboration in the areas of mutual interest. The event was attended by Campus Director Prof. (Dr.) S.O. Junare, Executive Registrar Shri C.D. Jadeja, Head, Centre for International Relations Prof. N.K. Chaudhary and the Coordinator, Dr. Abraham Johnson.

### MOU WITH ICFAI LAW SCHOOL, HYDERABAD



ICFAI Law School, Hyderabad, a constituent of the ICFAI Foundation for Higher Education (IFHE), signed a MoU virtually with NFSU on 29th June 2021 to collaborate on various activities related to Forensic Science. The event was attended by Dr. J Mahender Reddy, Hon'ble Vice Chancellor of IFHE, Justice G. Yethirajulu, Justice B. Prakash Rao, Prof. Haragopal Reddy, and Prof. A V Narasimha Rao from ICFAI Law School, and Dr. J.M. Vyas, Hon'ble Vice Chancellor of NFSU, Campus Director Prof. (Dr.) S.O. Junare and Dr. Abraham Johnson, Asst. Professor at NFSU.

## WORKSHOPS / SEMINARS / CONFERENCES

### INTERNATIONAL WEBINAR ON COUNTER TERRORISM



On 5th June 2021, School of Police Science & Security Studies of NFSU organised a joint international webinar with the Global Counter Terrorism Council (GCTC), an international think tank on the topic 'COUNTER TERRORISM: GLOBAL PERSPECTIVE'. Dr. Yogendra Narain, Patron of GCTC and Hon'ble Chancellor of HNB Garhwal University, Uttarakhand delivered the opening address. The session was chaired by Dr. Wael Awad, a well-experienced Writer and Political Analyst from Syria. The speakers included experts from the USA, Russia, Israel, and senior Army and Navy officers from India. Air Commodore Kedar Thaakar, Dean of the school, gave an overview on the current nature of terrorism, and touched upon critical issues of the role of Intelligence, Terror Funding, and Drones. The closing address was delivered by Dr. J.M. Vyas, Hon'ble Vice-Chancellor of NFSU who touched upon the need to use technology to counter terrorism. He highlighted the role of forensic technologies in the investigation of varied terror cases, especially, the use of Narco-analysis test, Digital Forensics, and the emerging field of Drone Forensics. Dr. Vyas brought out that in 2013, this university was the first one to introduce a P.G. course in Homeland Security & Anti Terrorism, which continues to be the only one of its kind in the country. In the end, Shri Aditya Tikoo, Founder Convener of GCTC, thanked NFSU and all the speakers as well as the participants.

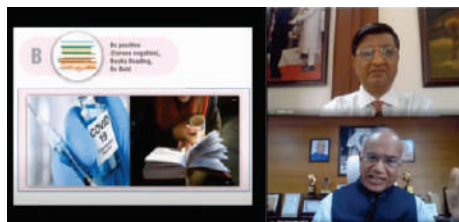
### WEBINAR ON THE US WITHDRAWAL AND SITUATION IN AFGHANISTAN



On 10th June 2021, NFSU's School of Police Science & Security Studies (SPSSS) organized a joint webinar with The Peninsula Foundation, a public-policy research Think Tank based at Chennai and working on international relations, security and technologies. The topic was "War in Afghanistan and the US Withdrawal : Impact on India". In the opening address delivered by Prof. (Dr.) S.O. Junare, Campus Director of NFSU, he emphasised on the importance of

Afghanistan for India from the times of the 'Great Game' as also now with the likely US withdrawal. He brought out that it is an important topic for the MBA (Homeland Security) programme which is a unique course in India. Founder Chairman of The Peninsula Foundation, Air Marshal M. Matheshwaran (Retd.) who has been an ace fighter pilot, a top class Test Pilot and a defence strategist and planner of repute, gave a detailed history of Afghanistan and brought out peculiarities of that nation before placing various possible scenarios in case of the US troop withdrawal. Air Commodore K.R. Thaakar, Dean of SPSSS, in his address, highlighted India's soft power diplomacy in Afghanistan which is aimed at winning "hearts and minds" and strengthening cultural as well as political relations. Accepting that a balanced combination of hard and soft power is the requirement, he felt that India must urgently mobilize a coalition of like minded nations for a major regional diplomatic push to resolve the Afghan crisis. The closing address was delivered by the Hon'ble Vice Chancellor of NFSU, Dr. J.M. Vyas who complimented both the speakers for valuable insights on a complex subject like this. He agreed that the outcome of the US withdrawal presents number of possible scenarios and the fear is about return of terrorism in the Indian sub-continent. In this regard, he brought out how forensic science can contribute to counter it with its vast scope of expertise. In the end, he thanked Air Marshal Matheshwaran for collaboration. This was followed by an exhaustive question answer session. Mr. Keval Pandya, Assistant Professor of SPSSS, conducted the event and presented a vote of thanks.

### WEBINAR ON COVID : THINK POSITIVE, ADOPT CREATIVITY



On 29th May, 2021, NFSU organized a webinar on the subject - 'Let Us Learn: Follow New ABCD and Fight-Out Corona Effectively'. Dr. J. M. Vyas, Hon'ble Vice-Chancellor of NFSU delivered the Presidential address and introduced the renowned Neurologist and Padma Shri awardee, Dr. Sudhir V. Shah. In his talk, Dr. Shah explained an innovative idea of A, B, C, D for overcoming Corona. In his lucid but simple talk, Dr. Shah emphasized that Corona has not gone yet and so, precautions are inevitable. More

importantly, he suggested not to circulate any negative messages about Corona. He advised to have positive thinking, creativity, and engage in hobbies like listening to music, dance, art, sports, and gardening in order to remain free from anxiety, fear, and stress. The webinar was coordinated by Dr. Pranav Dave, Asst. Professor.

### WORKSHOP ON APPLICATION OF MASS SPECTROMETRY

School of Pharmacy of NFSU organized an Online Training on "Application of Mass Spectrometry in Pharmacy and Forensic Science" on 13th May, 2021 in association with SciexPte. Ltd, New Delhi. Speaker for the webinar was Dr. Anoop Kumar. Number of participants attended the webinar whose main feature was its focus on the importance of ensuring forensics toxicology analysis via holistic and precise analytical workflows.

### WORKSHOP ON HPTLC APPLICATION IN FORENSICS

School of Pharmacy at NFSU organized a webinar on "Applications of HPTLC in Food, Pharmacy and Forensic Sciences" on 17th May, 2021 in association with Anchrom Enterprises (I) Pvt. Ltd., Mumbai. Speaker for the webinar was Mr. Vishwajit Kale. Number of participants attended the webinar and key learning topics covered during the training were application of HPTLC in Pharmacy, Forensic Science and Food Science.

### WEBINAR ON HOSPITAL PLANNING AND PROJECT MANAGEMENT

A webinar was organized on 22nd June 2021 by the School of Management Studies on "Hospital Planning and Project Management" wherein the keynote speaker was Mr. Yash Patel, General Manager of Span Hospital, who is not only skilled in healthcare administration but has also managed several projects and hospital facilities in Ahmedabad area. Mr. Patel shared his vast knowledge to the students as he focused on the challenges faced by the industry during Covid-19 pandemic and possible solutions based on his personal experience. The event was coordinated by Ms. Aanika Christian, Assistant Professor, School of Management Studies.

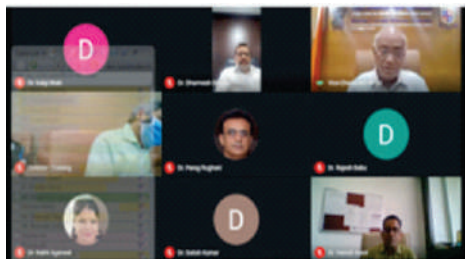
### WEBINAR ON HOSPITAL QUALITY IN PANDEMIC



School of Management Studies organised a webinar on "Fundamentals of Hospital Quality in the Time of Pandemic" on 10th June 2021 for students of MBA Hospital & Healthcare Management. The key speaker for the webinar was Major (Dr.) Sanjay Dalsania, Regional Quality Head, Apollo Hospital Enterprise, Limited, Ahmedabad. The highlights of webinar included various interventions followed by the hospitals in these difficult times. The insight on patient centric care during covid was provided too. The event was coordinated by Dr. Ashwini Pandit, Assistant professor, School of Management Studies



### ONLINE SEMINAR ON 'MOOC AND PODCAST CREATION'



An online seminar on 'MOOC and Podcast Creation' was organized by the School of Open Learning of NFSU on 28th May 2021. Hon'ble V.C., Dr. J. M. Vyas addressed for the faculty members on the need for online learning. Ptof.(Dr.) S.O. Junare, Campus Director, discussed how MOOC and Podcasts have changed the way of learning in this pandemic. A detailed training on MOOC and Podcast creation was conducted by Dr. Parag H. Rughani, Associate Dean of the school. Shri M. Kumar, Joint Director, C-DAC, Hyderabad gave a presentation on MOOC Development and C-DAC's initiatives related to Online Learning.

### WEBINAR TO CELEBRATE 'WORLD NO TOBACCO DAY'

On 31st May 2021, School of Forensic Science, organised a webinar to commemorate the World No Tobacco Day. The expert speaker was Dr. Ashay Shah, an oral and Maxillofacial Cancer Surgeon who gave a didactic lecture and suggested various ideas for increasing awareness about tobacco-related cancer prevention.

### GUEST TALKS

On 3rd June 2021, School of Forensic Science organized an expert talk on Forensic Toxicology by Dr. D. Sengupta, former Director, FSL of West Bengal. Dr. Rakhi Agarwal, Associate Professor, coordinated the

On 10th June 2021, School of Forensic Science, organized an Expert Talk on "Mistry on prowl Forensic Toxicology" by Eminent Speaker Shri P. Ghosh, former Director, CFSL, Kolkata, coordinated by Dr. Rakhi Agarwal.

On 21st June 2021 an expert session was arranged by the School of Forensic Science on the topic of 'Forensic Investigations', delivered by Dr. V.N. Mathur, former Director of Rajasthan FSL, Jaipur.

On 26th June 2021, an expert session was arranged by the International Centre for Humanitarian Forensics (ICHF) at NFSU, by Dr. Dilip Mavalankar, Director of Indian Institute of Public Health, Gandhinagar on "Universal Access for Vaccination and Medicine with reference to the Covid 19", organized by Dr. G.Rajesh Babu, Head, ICHF.

### TRAINING & PRESENTATIONS

#### MEETING ON TRAINING WITH POLICE ACADEMY OF CAMBODIA



On 11th June 2021, a virtual meeting was held between the Police Academy of Cambodia (PAC) and NFSU. The PAC team was headed by H.E. Gen. Prof. Seng Phally, President of PAC and NFSU team led by its Hon'ble Vice Chancellor, Dr. J.M. Vyas comprised Campus Director Prof. (Dr.)S.O. Junare, Executive Registrar Shri C.D. Jadeja, Head, Centre for International Relations Prof. N.K. Chaudhary and Coordinator Dr. Abraham Johnson. NFSU assured full support for various academic courses, training programmes, joint research and establishing special laboratories.

#### TRAINING FOR SENIOR CRIMINAL JUSTICE FUNCTIONARIES

During May-June 2021, eleven training courses including seminars were conducted by the Delhi Campus of NFSU (LNJN NICFS) for the senior Criminal Justice Functionaries in an online mode on various aspects of Criminology and Forensic Sciences. A total of 290 senior officers from various parts of the country participated from Police, Central Police, Judiciary, Correctional Administration, Prosecuting Services, Defence and Forensic Science.

#### TRAINING OF FORENSIC EXAMINATION IN SEXUAL ASSAULT CASES

In May - June 2021, Biology Division of the Delhi Campus of NFSU organized four Special Training Courses on Forensic Examination in Sexual Assault Cases as envisaged under the National Mission for Safety of Women. A total of 62 participants from Medical, Judicial, Prosecuting, Police and Forensics participated. During these courses, Medico legal provisions and examination of survivor and accused were discussed.

### EXPERT TALKS BY NFSU FACULTY

Dr. J. M. Vyas, Hon'ble Vice-chancellor of NFSU delivered an expert talk on "DNA Database: An Inevitable Tool for Forensic Investigation in India" in the International Virtual Conference of Human Identification Solutions(HIDS) 2021, organised by Thermo Fisher Scientific on 20th May, 2021.

On 7th June 2021, Dr. J. M. Vyas, Hon'ble V.C. of NFSU was invited to deliver a talk on "Digital Forensics related Challenges" during Summer 2021 Workshop and Research Experience by the Forensic Investigations Network in Digital Sciences (FINDS), a Research Center of Excellence of Florida International University (FIU), USA. Dr. Vyas discussed the emerging Digital Forensics challenges like IoT Forensics, Cloud Forensics, Darknet, Cryptocurrency, Drone Forensics, Vehicle Forensics and others. He recommended use of Artificial Intelligence and Digital Forensics as a Service (DFaaS) for effective management of Digital Forensics related cases. He emphasized on establishing an international board to address issues of digital forensics and carry out research.

Dr. J. M. Vyas, Hon'ble V.C. of NFSU delivered talk as a Chief Guest on 9th June 2021 at Andhra Pradesh Police Academy during the virtual Induction Training Programme for 51 newly recruited Scientific Assistants for Andhra Pradesh FSL. He explained the importance of forensic science and motivated them to excel.

On 23rd June 2021, Dr. J. M. Vyas, Hon'ble V.C. of NFSU was invited as a Chief Guest in a webinar on 'Understanding Cryptocurrency & Investigating Blockchain' jointly organised by the Rashtriya Raksha University (RRU) and Cyint Technologies, New Delhi. Speaking on the occasion, Dr. Vyas enlightened on the latest tools and technology available in the Digital Forensics domain to combat the Cryptocurrency Crimes.

Dr. Priyanka Kacker, Assistant Professor, School of Forensic Psychology, NFSU delivered a talk on 'Jurisprudence Psychology: Bridging the Gap between the Psychology and Law' in the 2nd International Webinar on Law, Brain and Mind Sciences organized by KIIT School of Law on 2nd May 2021.

Dr. Rakhi Agarwal, Associate professor at School of Forensic Science, NFSU delivered a talk on "Nanomedicine: Risk Assessment and Predictive Toxicology" during AICTE sponsored Quality Improvement Program organized by Birla Institute of Technology, Ranchi on 24th May, 2021.

Dr. Priyanka Kacker, Assistant Professor, School of Forensic Psychology, NFSU delivered a talk on Stress Management for Labour Officers, organized by Mahatma Gandhi Labour Institute, Ahmedabad on 28th May 2021.

Dr. Dhvani Patel, Assistant Professor of School of Medico Legal Studies, NFSU was interviewed on "Importance of teeth in the field of Forensics" by VR live channel, during the show "Family Doctor" on 12th June 2021.

Dr. Jayrajsinh Sarvaiya, Sr. Asst. Professor from School of Engineering and Technology, NFSU was invited to deliver a presentation on 24th June 2021 during the Department of Science and Technology, SEED Division's Brainstorming National Coordination meeting on projects and possible linkages of deliverables.

Dr. Rakhi Agarwal, Associate Professor at School of Forensic Science, NFSU delivered a talk on "Analytical Chemistry in Forensic Investigations and Research" during 15 Days Online Refresher Course organized by Amity University, Noida on 24th June, 2021.

Mr. Partik S. Patel Assistant Professor, School of Cyber Security and Digital Forensics, delivered talks on "Understanding of Internet Surface/Deep/Dark web" on 23rd June 2021 and "Dark Net Market/Onion Routing/Tor Browser" on 24th June 2021 during training for Police Officers of STF Kolkata, organized by Central Academy for Police Training(CAPT), Bhopal.

Ms. Neha Jain, Junior Research Fellow from Delhi Campus of NFSU (LNJP NICFS), delivered a series of lectures related to physical, chemical and biological evidence collection from crime scenes at Atma Ram Sanatan Dharam College, New Delhi in May 2021.

### **PUBLICATION OF BOOKS / CHAPTERS / PAPERS**

Dr. Satish Kumar, Associate Professor at School of Forensic Science along with Dr. Neelakant Varma, Asst. Professor, and Mr. Abhishek Singh, Research Scholar at NFSU, have published a research article on "Deltamethrin Modulates the Native Structure of Hen Egg White Lysozyme and induces its aggregation at physiological pH" in the Vol. 201 (May, 2021) Issue No. 111646 of 'Colloids and Surfaces B: Biointerfaces' (IMPACT FACTOR 5.268).

Mr. Jasmin Kubavat, Assistant Professor at School of Pharmacy, NFSU, Dr. Prasenjit Maity, Associate Dean of School of Engineering and Technology, NFSU and Jaydev Thakarda, Tushar Tyagi, Sagar Bhowmik, all Research Scholars at NFSU, have published a research article on 'Selective Sensing of Thiols By Aryl Iodide Stabilized Fluorescent Gold Cluster Through Turn-Off Excimer Emission Caused By Ligand Displacement' in the Journal of Chemical Sciences, in May, 2021 (IMPACT FACTOR: 1.406)

Ms. Nilimamayee Samal, Asst. Professor at Instrumentation Wing, Delhi Campus of NFSU, has published a chapter 'Innovative Approach to Harvest Energy from Traffic-Induced Deformation' in a book 'Lecture Notes in Electrical Engineering, Vol. 756, published by Springer- Singapore in May, 2021.

Dr. Nandita Chaube, Asst. Professor at School of Forensic Psychology, NFSU, has published a research article with Ms. Simran Pareek, NFSU alumni and Prof. S.P.K. Jena of University of Delhi on 'Personality Traits and Paranormal Beliefs of Psi Experients' in Volume 47 of Journal of Indian Academy of Applied Psychology in May, 2021 (Impact Factor : 0.155).

Dr. Prajesh Prajapati, Assistant Professor at School of Pharmacy, NFSU and Mr. Jigar Raval and Ms. Riddhi Trivedi, both Research Scholars at NFSU have published a review article with Mr. Arvind Kukrety and Ms. Sonali Suman of CDSO, Ahmedabad on 'Nano-Biotechnology and Its Innovative Perspective in Diabetes Management' in the Mini Reviews In Medicinal Chemistry in June, 2021 (Impact Factor: 2.733).

Dr. Hemen Dave, Assistant Professor at School of Pharmacy, NFSU has published a research article with Ms. Anushree Srivastava, Research Scholar and Dr. Kumar Suranjit Prasad, Assistant Professor from Centre of Environmental Science, University of Allahabad on 'Iron Modification of Biochar Developed from Tectonagrandis Linn. F. for Adsorptive Removal of Tetracycline from Aqueous Solution' in the Volume 11, Issue 3 of Analytical Chemistry Letters in June, 2021.

Dr. Dhvani Patel, Assistant Professor at the School of Medico legal studies, published a research article in association with Dr. Selwin Samuel, student at NFSU on "Formulating a Standardized Dental Record Format for Dental Surgeons in India-A pilot study on Dentists at Chennai and Ahmedabad" in Vol 15, No 2 of Indian Journal of Forensic Medicine and Toxicology in June, 2021.

Dr. Priyanka Kacker, Assistant Professor, School of Forensic Psychology, NFSU and Ms. Savithri K.K, M.Phil. student at NFSU, published an article titled "Role of Forensic Psychology in Cyber Investigation" in GAP Indian Journal of Forensics and Behavioural Sciences, Volume II, Issue I, in June, 2021.

Ms. Dixita Nagar of Accounts Department of NFSU published a research paper on "An Empirical Study to Evaluate Factors Affecting Customer Satisfaction on the Adoption of Mobile Banking Track: Financial Management" in Vol. 12, No.10 (May, 2021) of Turkish Journal of Computer and Mathematics Education (Scopus).



## ACHIEVEMENTS

Dr. Biswajeet Dey, Assistant Professor at School of Behavioural Science, NFSU and Ms. Avani Vasani, M.Phil. student, received the Best Paper Award for study titled, 'A Comparative Study on Parental Attachment and Parenting Styles in the Children with Internalized and Externalized Behaviour Problems' at the 47th National Annual Conference of Indian Association of Clinical Psychologists, held at AFMC, Pune on 28th-30th May, 2021.

Ms. Himanshi Khanna, M.Phil. student, received the Best Paper Award for research titled "Relationship between Executive Functions and Academic Performance in Children and Adolescents" at the 47th National Annual Conference of Indian Association of Clinical Psychologists, 2021 held on 28th-30th, May 2021 at AFMC, Pune.

Dr. Pankti Patel, Student of M.Sc Forensic Odontology, won the third prize for Best Scientific Paper Presentation on the topic "Stereomicroscopy- A tool for Dental Profiling" at the 5th International e-conference on Forensic Odontology organized on 30th May, 2021 by the Association of Scientists and Researchers.

Ms. Jyoti Pal, Junior Scientific Assistant from Delhi Campus of NFSU (LNJP NICFS), secured Second Prize in the "Best Writer" category for her paper titled "Structure and Molecular Basis of DNA Duplication for its Genetic Replication" in a Science Communication Workshop held at the IIT, Bombay on 14-15 June, 2021.



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4. P.G. Diploma in Fingerprint Science
5. P.G. Diploma in Forensic Document Examination
6. B.Sc.-M.Sc. Forensic Science (5 year integrated)
7. P.G. Diploma in Crime Scene Management

##### SCHOOL OF MEDICO LEGAL STUDIES

1. M.Sc. Toxicology
2. M.Sc. Forensic Dentistry
3. Post Basic Diploma in Forensic Nursing
4. P.G. Diploma in Toxicology
5. P.G. Diploma in Humanitarian Forensics (under the auspices of ICHF)

##### SCHOOL OF CYBER SECURITY AND DIGITAL FORENSICS

1. M.Sc. Cyber Security
2. M.Tech. Cyber Security
3. M.Sc. Digital Forensics and Information Security
4. B.Tech. - M.Tech. Computer Science and Engineering (Cyber Security) (5 year integrated)

##### SCHOOL OF MANAGEMENT STUDIES

1. MBA in Forensic Accounting & Fraud Investigation
2. MBA in Cyber Security Management
3. MBA in Hospital & Healthcare Management
4. BBA-MBA 5 year Integrated (With Specialization in Forensic Accounting & Fraud Investigation/ Financial Management/Business Intelligence)
5. MBA in Business Intelligence
6. Executive MBA (With Specialization in Forensic Accounting & Fraud Investigation/Financial Management/Human Resource Management)
7. P.G. Diploma in Forensic Journalism

##### SCHOOL OF POLICE SCIENCE AND SECURITY STUDIES

1. M.Sc. Homeland Security
2. M.A. Police & Security Studies
3. P.G. Diploma in Homeland Security

##### SCHOOL OF PHARMACY

1. M.Pharm Forensic Pharmacy
2. M.Pharm Pharmaceutical Quality Assurance (PCI Approved)
3. M.Sc. Chemistry (with specialization in Forensic Analytical Chemistry)
4. M.Sc. Environmental Science (with specialization in Environmental Forensics)
5. M.Sc. Pharmaceutical Chemistry
6. P.G. Diploma in Industrial Safety, Hygiene & Environmental Management

##### SCHOOL OF ENGINEERING AND TECHNOLOGY

1. M.Sc. Forensic Nanotechnology
2. M.Sc. Food Technology
3. M.Tech Civil Engineering (with specialization in Forensic Structural Engineering)

##### SCHOOL OF BEHAVIORAL SCIENCE

1. M.Phil. Clinical Psychology (RCI Approved)
2. M.Sc. Clinical Psychology
3. M.Sc. Neuropsychology

##### SCHOOL OF FORENSIC PSYCHOLOGY

1. M.Phil. Forensic Psychology
2. M.Sc. Forensic Psychology
3. M.A. Criminology (with specialization in Forensic Psychology)
4. P.G. Diploma in Cyber Psychology

##### SCHOOL OF LAW, FORENSIC JUSTICE AND POLICY STUDIES

1. B.Sc.LL.B. (Hons.)(5 year integrated)\*(CLAT 2021)
2. LL.B. (3 year)\*

\*BCI approval awaited

##### SCHOOL OF DOCTORAL STUDIES AND RESEARCH

1. Doctor of Philosophy (Ph.D.) in all relevant disciplines
2. Doctor of Science (D.Sc) in all relevant disciplines
3. Doctor of Law (LLD), D.Litt., in all relevant disciplines

##### SCHOOL OF OPEN LEARNING

1. Certificate Courses (16)

Details are available on NFSU website.

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1. M.A. Criminology
2. M.Sc. Forensic Science
3. B.Sc. - M.Sc. Forensic Science (5 year Integrated)
4. B.Tech. - M.Tech. Computer Science and Engineering (Cyber Security) (5 year integrated)
5. M.Sc. Digital Forensics and Information Security

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“ It is very important for every student of forensic science to develop a fine understanding of human intelligence. ”

- Shri Narendra Modi  
Hon'ble Prime Minister of India



“ The era of third degree torture to solve crimes is over... Time has come to use forensics as evidence to nail criminals ”

- Shri Amit Shah  
Hon'ble Minister of Home Affairs and Co-operation

