

INTERNATIONAL LEGAL AND POLICY CONFERENCE ON
THE FUTURE OF TRANSPORT
OPPORTUNITIES AND CHALLENGES IN THE AVIATION AND SPACE INDUSTRY

FEBRUARY 2-3, 2020

CENTRE FOR AEROSPACE AND DEFENCE LAWS



CADL

Newsletter



SPECIAL EDITION



NALSAR UNIVERSITY OF LAW
HYDERABAD

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NALSAR University of Law

MESSAGE FROM VICE-CHANCELLOR

NALSAR University of Law, Hyderabad is known for its research-based teaching and high quality publications on contemporary and futuristic legal studies, since its very inception. NALSAR has been at the forefront of promoting studies and research in tune with its core objective of promotion of excellence in legal academics and research. Accordingly, the University has developed many Centres of Excellence in diverse specialized areas of Law and Social Sciences to cater to the emerging and new fields of law. Centre for Air and Space Laws (CASL) is one such centre of excellence that was established in 2005, to work in the areas of Air and Space Laws. It has since been upgraded to include Defence Laws and is rechristened as Centre for Aerospace and Defence Laws (CADL).

Indian Aviation has recorded a phenomenal growth rate over the last decade. The growth of general commercial and business aviation in India has been driven by the strong economic growth the country has witnessed in the last two decades. Air travel was once considered a luxury but the new government has taken the bold initiative of connecting small towns as well. This perception has now changed as savings in travel time, comfort, convenience and higher reliability compared to other modes of travel have outweighed the cost differential. The poor connectivity between the metros and smaller cities was the reason for more companies and individuals gradually seeking out to use private jets and helicopters.

Aviation sector has witnessed a paradigm shift from a public sector controlled to a private sector dominated industry with the introduction of open sky policy by the government of India in the early 90s. The changes in regulatory framework to deal with aviation, drones and cargo separately and continuous support for the sector through different schemes like UDAN, Krishi UDAN, have given an added fillip. The reform process in aviation industry had a far reaching impact and helped to unleash the enormous growth potential. Over the past decade, Aviation sector witnessed a robust growth trajectory. There are great opportunities and the future is even far more exciting. Competition is the best regulator for any market and it has already resulted in quality service at affordable price.

With exploitation of outer space becoming less of an abstract notion and more of a reality, commercialization and privatization have become the



Prof. (Dr.) Faizan Mustafa
Vice Chancellor

order of the day. There ought to be an effective legal and regulatory framework to enable operating companies to plan and manage passenger services which can also address the issues and challenges in commercial mining of outer space, celestial bodies and asteroids. Growth in Indian defence production and associated trade will have its own challenges to cope with.

Recently, the Centre for Aerospace and Defence Laws, NALSAR organized the Two-day International Legal and Policy Conference on the Future of Transport: Opportunities and Challenges in Aviation and Space Industry from February 2-3, 2020. I personally felt the urgency, great need and relevance of having this conference to facilitate interactions between the industry and academia on the legislative and policy framework for such activities with the ultimate goal of effective articulation and deliberation in an international scenario.

With these words, I offer to our readers the Special Edition of CADL Newsletter, 2020.

MESSAGE FROM REGISTRAR/CENTRE-HEAD



Prof. (Dr.) V. Balakista Reddy

Professor of Law, Registrar and
Head, Centre for Aerospace and Defence Laws (CADL),
NALSAR University of Law, Hyderabad

It has been a matter of honour and immense pleasure, as the Head of the Centre for Aerospace and Defence Laws (CADL) to be able to host the Two-day International Legal and Policy Conference on the Future of Transport: Opportunities and Challenges in Aviation and Space Industry from February 2-3, 2020. The objectives of the conference were to engage the academia and the industry members to discuss various issues in tune with the CADL mission, which are to:

- Contribute to the growth of Air, Space and Defence Laws in domestic and international arena and help in extending the frontiers of these Laws,
- Play a pivotal role in spreading the importance of aerospace and Defence laws in the 21st Century,
- Promote the study and research of law relating to Aerospace and Defence Laws and to encourage students to gain expertise in these areas,
- Undertake Policy research and advise the Governments both in India and abroad in the realm of fast growing law of Aerospace, Defence and Security Regimes,
- Promote collaborative research in Aerospace and Defence projects having national and global importance,
- Render consultancy services towards resolving issues in the Aerospace and defence sectors,
- Disseminate the knowledge of Aerospace and Defence laws through high quality publications, pioneering research work and study Courses etc., including providing internship opportunities, moot courts, conferences, publications etc.
- Become world reputed repository of knowledge in the field of aerospace and Defence laws
- Create value for all the stake holders and make a difference.

CADL, NALSAR offers various regular and elective courses to LL.B and LL.M students and provides M.A. and Post-Graduate Diploma Courses in Aviation Law and Air Transport Management, Security & Defence Laws, Space and Telecommunication Laws, Advanced Maritime Laws, GIS and Remote Sensing Laws through Distance and on-line mode to the working professionals and fresh graduates. The Centre also publishes Indian Journal of Air and Space Law (IJASL) biannually with the selected articles and papers by students, Academicians, Industry experts and other personalities who are interested in the areas of Air and Space Laws. We have also conducted various moot courts, competitions, workshops, seminars in Air, Space and Defence Laws.

The current geo-political scenario necessitates a shift from competition to cooperation and collaboration towards the betterment of humanity. Extensive research in space and defence technologies clubbed with legal framework will be beneficial for humankind, offering path-breaking and boundless opportunities in global aerospace exploration and commercialization. In the wake of technological advancements in aviation, defence and space industry, a comprehensive framework is mandated so as to bridge the gap between industry and academia. Enabling this will help create a congenial environment favorable for business to bloom.

CADL had organized this conference to brainstorm extensively on various facets of aviation, defence and space sectors, harmonizing the conflicting elements and bring them together. I am happy to report that the Conference achieved its objectives.

I thank the distinguished guests, speakers, organizers, participants and the enthusiastic research scholars, for taking an active part in the maiden International Conference.

ABOUT CENTRE FOR AEROSPACE AND DEFENCE LAWS (CADL)



NALSAR established the Centre for Aerospace and Defence Laws (CADL) in 2005 with the objective of promoting the development of aviation, space, maritime and defence laws and policies. Since then, NALSAR-CADL has been promoting the study of Aerospace and Defence Laws by introducing courses, conducting National and International Conferences, Moot Courts, Workshops and also publishing Newsletters, Journals, Books and Articles, besides awarding a few M.Phils. and Ph.Ds. in the said areas. The objective of introducing these unique and value added courses is to cater to the needs of unprecedented aviation growth coupled with commercialization and privatization of aerospace, defence and maritime industries, which calls for thousands of skilled manpower to meet not only managerial requirements but also legal compliances that arise from the high value transactions.

Vision Statement

To be world's renowned Centre of excellence in the field of Aerospace and Defence Laws, research and education.

Mission Statement

NALSAR University of Law through CADL has envisaged the mission to -

- Contribute to the growth of Air, Space and Defence Laws in domestic and international arena and help in extending the frontiers of these Laws.
- To play a pivotal role in spreading the importance of aerospace and Defence laws in the 21st Century.
- To promote the study and research of law relating to Aerospace and Defence Laws and to encourage students to gain expertise in these areas.
- To undertake Policy research and advise the Governments both in India and abroad in the realm of fast growing law of Aerospace, Defence and Security Regimes.

- To promote collaborative research in Aerospace and Defence projects having national and global importance.
- To render consultancy services to stakeholders for resolving all issues arising out of Aerospace and defence sector to .
- To disseminate the knowledge of Aerospace and Defence laws through high quality publications, pioneering research work, offering Courses etc.
- To become world reputed repository of knowledge in the field of aerospace and Defence laws.
- To create value for all the stake holders and make a difference.

Objectives of CADL

- To provide assistance to Government institutions/organizations and private institutions and industries on all legal aspects relating to Air, Space, Security and Defence.
- To produce well researched expertise on various kinds issues in Aerospace and Defence arena.
- To enhance Research and Publications in the realm of Aerospace and Defence Laws.
- To arrange and offer internship programs to trainees from Aviation, Space and Defence Research Centres.
- To spread awareness programs on Aerospace and Defence Laws education throughout India and abroad.

Pursuant to achieving the coveted objectives, CADL, NALSAR has been continually promoting teaching and research in the field of Aerospace and Defence Laws for more than a decade and half. CADL organized several national and international conferences, workshops, moot courts, publishing books, journals, newsletters etc. to disseminate the significance and importance of Aerospace and Defence Laws.

The Centre for Aerospace and Defence Laws (CADL), NALSAR University of Law has always pioneered in teaching and research in advanced areas. CADL offers various elective/seminar courses for LL.B., LL.M. students including Contemporary Issues in Air and Space Law, Defence Procurement Policy, Public Private Partnership in Aviation Industry, Aerospace and Defence Start-ups etc. These Courses are being offered by the Centre for the past 20 years and produced number of scholars. Many students with degrees in air and space law have now been absorbed in the national mainstream and are working with the airlines, airports, law firms, multinational corporations etc. Several of them have also taken up important assignments abroad, enriching global prospects.

For Regular Students: Every Year we have been offering regular courses on Air and Space Laws to LL.B and LL.M students at NALSAR University of Law. To date, more than 50 Students had opted for this Courses and attained immense knowledge in the Air and Space Laws. There are also few Ph.D Scholars who pursued in Air and Space Laws and Defence Laws.

Distance and on-line Mode: NALSAR University of Law on 1st December, 2008 signed an MOU with Institute of Applied Aviation Management (IAAM), Calicut, to offer one year Post Graduate Diploma course in Aviation Law and Air Transport Management (PGDALATM) with the motive to meet the aspirations of students / individuals pursuing ENGG / MBA / LAW / Aviation-Related courses and serving aviation executives by giving them simultaneously a value added qualification without jeopardizing their current pursuits and the course were commenced in March 2009.

NALSAR University of Law in collaboration with Institute of Applied Aviation Management (IAAM), Calicut introduced a one year 'Post Graduate Diploma in Aviation Law and Air Transport Management' which was inaugurated by Hon'ble Mr. Justice L. Narasimha Reddy, Judge, High Court of A.P. on 21 May 2009 at NALSAR Campus. While launching the programme, he emphasized the importance of aviation education and congratulated NALSAR-IAAM for their unique initiative. It is the first ever academic industry partnership which is a remarkable initiative particularly for the aviation industry.

In terms of the MoU signed between NALSAR University of Law and Institute of Applied Aviation Management (IAAM), Calicut, the first Post-graduate Diploma Course in Aviation Law and Air Transport Management (PGDALATM) was launched at Cochin on 23rd April, 2009, at Hyderabad on 21st May, 2009 and at Bangalore on 23rd July, 2009. Total 115 students admitted to the programme out of which 25 students were admitted at Cochin, 60 students at Hyderabad and 30 students at Bangalore.

Out of a total of 115 candidates admitted during 2009 – 2010, 102 candidates were found eligible for award of the P.G. Diploma in Aviation Law and Air Transport Management. The Diploma Award Ceremony was held on September 2, 2010 at NALSAR Campus. Shri. G.M. Rao, Group Chairman, GMR Group was the Chief Guest and awarded Diploma Certificates. Capt. S.N. Reddy and Dr. Padmini Reddy Gold Medal and Asian Institute of Transport Development Gold Medal were awarded to the Topper and Second Topper respectively at the function.

During 2010-2011, admissions for the second batch of PGDALATM were made and a total of 191 candidates were admitted. The onsite classes were conducted at Bangalore, Cochin, Delhi, Hyderabad and Kolkata.

NALSAR- IAAM signed an MOU with Government of Sharjah, Department of Civil Aviation and launched the first ever unique Aviation Law and Air Transport Management program in the UAE in May 2010. With a view to enhance the quality and reach of air and space law studies across the world, the Centre had launched the first ever Post Graduate Diploma in Aviation Law and Air Transport Management (PGDALATM) in Sharjah (UAE) 2010-2011 and successfully conducted the One year PG diploma in Air Law and Air transport Management at Bangalore, Cochin, Calcutta, Delhi, Hyderabad and Sharjah, Dubai.

During 2011, the admissions to the 3rd Batch Post-Graduate Diploma in Aviation Law and Air Transport Management (PGDALATM) were made and a total of 132 students were admitted. The contact classes were conducted at Hyderabad, Bangalore, Mumbai, New Delhi Centres.

With the concept of “Education at door steps of Needy Students”, NALSAR through CADL has also launched few innovative on-site and online courses. In the year 2013, CADL, NALSAR has also started innovative 'online-onsite' courses such as Master's Degree in Aviation Law and Air Transport Management (MALATM); Master's Degree in Space and Telecommunication Laws (MSTL); One-year PG Diplomas in Aviation Law and Air Transport Management (PGDALATM); One-year PG Diploma in GIS and Remote Sensing Laws (PGDGRSL) under the aegis of Centre for Air & Space Law. The objectives of these courses are to cater to the needs of the unprecedented growth in aviation sector coupled with the commercialization of space technologies has created the need for thousands of skilled manpower to meet the requirements of rapidly growing aerospace and telecommunications sectors. In view of 2G controversy, there is an urgent need to have specialisation in the upcoming discipline of telecommunication laws. The Centre also undertook collaborative research activities in areas of common concern with State Governments; Multi-National Corporations such as the GMR group, Non-Government Organizations and other International Organizations. The enrolled students in the year 2013 for the One Year Post-Graduate Diploma in Aviation Law and Air Transport Management, 25 students have successfully completed their course and the Diplomas were awarded in the Twelfth Annual Convocation held on August 2, 2014.

During 2014, CADL, NALSAR, started a Centre at New Delhi for conducting the onsite sessions for the 2-Year Master's Degree in Aviation Law and Air Transport Management and One Year Post-Graduate Diploma in Aviation Law and Air Transport Management in order to accommodate the growing demand and having regards to the needs of the working professionals from New Delhi. During the year, 74 candidates were admitted to Master's Degree in Aviation Law and Air Transport Management; 08 candidates were admitted to Master's Degree in Space and Telecommunication Laws; 13 candidates were admitted to PG Diploma in Aviation Law and Air Transport Management.

During the year 2015, 88 candidates were admitted to Master's Degree in Aviation Law and Air Transport Management (Delhi & Hyderabad Centres); 10 candidates were admitted to Master's Degree in Space and Telecommunication Laws (Hyderabad Centre). Onsite sessions were conducted at Delhi and Hyderabad

Centres and examinations were conducted both at Hyderabad and Delhi Centres. 19 students have become eligible for award of Master's Degree in Aviation Law and Air Transport Management; 04 students of Master's Degree in Space and Telecommunication Laws; 07 students of Post-Graduate Diploma in Aviation Law and Air Transport Management.

Ms. Sadaf Amrin Fathima, student of Master's Degree in Space and Telecommunication Laws (2015) has been awarded the prestigious 'DAAD Scholarship' for pursuing Master's Programme in the University of Munich, Germany.

In 2017, the Centre for Air and Space Law (CASL) was changed as Centre for Aerospace and Defence Laws (CADL) to expand its research in the area of Defence Laws also.

During 2018, CADL offered M.A. (Aviation Law and Air Transport Management) and P.G. Diploma in Aviation Law and Air Transport Management courses through Directorate of Distance Education. The Centre also offered a Certificate Programme on Advanced Air Laws during February 8 – 12, 2018. The programme was offered at NALSAR as a residential programme and a total of 24 candidates registered for the programme and the certificates were awarded to the successful candidates.

Brief background about Masters and Diploma Courses

The objective of introducing these unique courses is to cater to the needs of unprecedented aviation growth coupled with commercialization of telecom & space technologies, which requires a large and highly skilled workforce to meet not just the managerial requirements of the rapidly growing aerospace industry but also the legal complications that arise from the high value transactions involving the market participants. These courses seek to meet the burgeoning demand of the industry from the supply-side by producing legal and managerial aerospace experts which India is facing an acute shortage. NALSAR's initiative crystallize an academic – industry partnership in the domain of Air Transport Management, Aviation, Space, Remote Sensing, GIS and Telecom Laws which makes the programme first of its kind not only in India but also in this part of the world. The aforesaid courses are unique value-added qualifications which would help the aspirants to acquire global placements in aero-space and telecom industries.

The uniqueness of the programme: The curriculum of the programme is a tailor-made to meet the professional needs of the aviation industry-airport, airline, aerospace and related sectors so that the products are in a position to directly take on the core managerial positions in any of these sectors. A lawyer who has been traditionally endowed with rational mind can now be seen as a 'Professional Aviation Manager' because of the specialization, sector specific knowledge and competence in the aviation industry that he/she receives during the program. Similarly, a manager who is endowed with analytical ability is now in a position to function at a higher lever with a greater competence by acquiring the specific knowledge of the rules of the game i.e. Aviation Law. This unique advantage of a comprehensive understanding of the industry its operational aspects, managerial functions and of the general management module interlined with the aviation specific module such as advanced airport management and airline management. Thus it provides a comprehensive understanding of the industry with the practical exposure.

Conduct of the Programme: Master's Degree and PG Diplomas are of 'Blended version' (a mix of Onsite and Online) sessions spread across four and two semesters respectively. Each semester will have Onsite intense session by the subject experts, followed by Online session where participants will work on the case studies/project assignments and upload them on the dedicated web portal. Under the mode of intense e-learning process, the students can have access to subject experts specializing in various areas of the subject. The relevant updated materials will be uploaded from time to time. At the end of the final semester, students are required to submit a Dissertation.

United Nations Recognition for Air and Space Law courses offered by CADL, NALSAR

CADL's (earlier known as Centre for Air and Space Law (CASL) innovative courses on Space and Telecommunication Laws have been recognised by the United Nations Organization Office for Outer Space Affairs (UNOOSA), Vienna in its updated Directory on Education Opportunities in Space Law (A/AC/105 /C.2/2015/CRP.9). This Education Directory by UNOOSA recognizes and showcases the innovative education opportunities in Aerospace Industry available across the world. These courses offered by Centre for Aerospace and Defence Laws (CADL), NALSAR are a unique combination of Law, Management and Technology in the field of aerospace.

Following are the Masters and Diploma Courses:

1. Two-Year M.A. (Aviation Law & Air Transport Management)
2. Two-Year M.A. (Security & Defence Laws)
3. Two-Year M.A. (Space and Telecommunications Law)
4. One-Year Post Graduate Diploma in Aviation Law & Air Transport Management
5. One Year Post-Graduate Diploma in Advanced Maritime Laws

One-Year Post Graduate Diploma in GIS and Remote Sensing Laws

TWO-YEAR M.A. (AVIATION LAW & AIR TRANSPORT MANAGEMENT)

The aviation industry has always been a very unique industry in itself. Its rapid growth across the globe coupled with usage of the best and the most innovative technologies and increasing contribution to the economic and infrastructural development of a country makes the international civil aviation sector particularly important from both legal as well as management perspective. Legal and Management aspects of International Civil Aviation are so well interconnected that the study of one aspect is incomplete without the study of the other. Thus NALSAR through its Centre for Aerospace & Defence Laws (CADL) proposes to introduce 2-Year M.A. (Aviation Law & Air Transport Management) programme.

Through this programme NALSAR aims to create an industry of aviation lawyers catering and specializing in both legal and management aspects of international aviation law. The course participants would not only have a sound and strong foundation on legal and management patterns of international civil aviation sector but also will be well-equipped to handle practical and contemporary aspects and challenges faced in the daily governance of the aviation industry. The unique advantage of this programme is the comprehensive understanding of the aviation industry which would include its operational aspects, legal management and technical knowledge with a special focus on catering to the contemporary requirements of the growing aerospace industry.

The programme also aims to meet the needs of personnel currently involved in the aviation industry, students of aviation and aviation enthusiasts who wish to upgrade their skills at tertiary level in the field of management in air transportation and application of aviation law. In addition, the program is designed to have considerable application for personnel in related technologically based service and business industries.

This programme is a unique blend of law and management subjects, giving the candidate a broad career prospect in the industry. The course is a two-year programme consisting of 12 subjects, stretched in to four semesters. The syllabus include General Principles of Law, International Air Law, Principles of Management, Airport Management, Airline Management, Domestic Air Laws in India, Aviation Safety, Security and Liability Laws, Air Space and Air Transport Management, Aviation Marketing, Aviation Economics, Aviation

Corporate Laws, and Aviation Contracts and Tenders. Apart from this, the candidates in the last semester are required to submit a dissertation on a topic selected by them in the concerned area, along with a field-work report for the partial fulfillment of the requirements for the degree in M.A. (Aviation Law and Air Transport Management).



**Centre for Aerospace & Defence Laws (CADL)
Directorate of Distance Education
NALSAR University of Law, Hyderabad**

Course Material

M.A.(AVIATION LAW AND AIR TRANSPORT MANAGEMENT)

Compiled by:

Prof. (Dr.) V. Balakista Reddy

(For private circulation only)

Defence studies, War studies, Strategic studies as currently taught only in a handful of Universities in India. Teaching and research activities are done in many universities of India, having as its primary focus on India's national security. In all departments of Defence studies the approach to the study of national security is interdisciplinary encompassing disciplines like Geopolitics and Military Geography, Science and Technology, Economics of Defence, Conflict Management and Conflict Resolution. However the above universities / institutions despite their commendable efforts are unable to provide a wholesome education and knowledge having due regards to the international legal framework, world politics and contemporary practices. NALSAR is the only University offering such a diverse course on defence and security studies from a legal perspective.

M.A. (Security & Defence Laws) intends to equip the course participants with national and international legal framework governing the defence and security industry in the global, regional and Indian context. The course would further train the participants in developing a strong foundation in management and governance of the defence sector by drawing from experiences across the globe and comparing the same in Indian context. National defence is not only the responsibility of the armed forces but it is a responsibility of all the citizens of a nation. The aim of the defence studies is closely related to other spheres of life. Hence, the course will focus not only defence personnel of the country but will attract numerous scholars across the globe who is engaged in research related activities in defence and strategic studies.

Recent move towards liberalisation and privatisation of defence industry also demands for a programme of this kind. With an objective of bridging the gap between Law and defence studies, the University intends to offer this Course through its Centre for Aerospace & Defence Laws (CADL).

The programme will be particularly beneficial for Serving members of the armed forces, policy makers and stakeholders working in the government departments, defence public sector undertakings, negotiators and diplomats who represent the country in the negotiations for various defence procurements, Aerospace Engineers/Students pursuing Aerospace Engineering, Law Graduates desiring specialization in defence Law, M.B.A students and Graduates undergoing various defence and strategic studies related Programmes. Hyderabad being hub of aerospace and defence sector, large number of defence professional working in this area needs upgradation of their skills towards legal and policy issues.

Also, there is a high demand for law professionals with expertise in security and defence laws. With the help of this programme, the candidates can be well placed for roles in international institutions, government department (ministries of foreign affairs, defence, justice, home affairs and development), non-governmental organisations, law firms and also in private sectors (defence and security companies).

The course is a two-year programme consisting of 12 subjects, stretched in to four semesters. The syllabus include General Principles of Law, International Security, Diplomacy and Conflict Resolution, Defence Technology and Law, International Institutions and Global Security, Defence Management and Strategic studies, Defence Contracts and Tenders, Defence Procurement Policies, Regional Security, Terrorism and Counter-Terrorism, Aviation, Space, Maritime and Cyber Security Laws. Apart from this, the candidates in the last semester are required to submit a dissertation on a topic selected by them in the concerned area, along with a field-work report for the partial fulfilment of the requirements for the degree in M.A. (Security and Defence Laws).



**Centre for Aerospace & Defence Laws (CADL)
Directorate of Distance Education
NALSAR University of Law, Hyderabad**

Course Material

M.A. (SECURITY AND DEFENCE LAWS)

Compiled by:

Prof. (Dr.) V. Balakista Reddy

(For private circulation only)

TWO-YEAR M.A. (SPACE AND TELECOMMUNICATIONS LAW)

Telecommunications is an infrastructure in which rapid technological advance has been occurring and the risk of obsolescence is comparatively higher than other infrastructural sectors. Telecommunications is also one of the few infrastructure sectors, where facility is never really completed as the telecommunications network that is established has to be either constantly expanded to achieve higher consumer penetration or has to be constantly upgraded to allow the network to provide the latest services possible. This growth and need in the industry demands skilled experts with superlative Legal knowledge.

The increasing number of Countries involved in space activities has emphasized the need for effective laws and policies on space activities not just on an international level, but also on the national level. The successful operation of space law, policies and institutions in a country relies on the presence of suitable professionals. With the more innovation in technology and need for new and advanced techniques require the blend of various skills to succeed in the field.

The combination of Telecommunication and Space Law is such a unique blend which enables one to meet the needs of rapidly expanding industry. To meet the need and to enable the research and study in Space and Telecommunications Law, NALSAR University of Law through its Centre for Aerospace and Defence Laws (CADL), had initiated to offer Course in this area.

Through this programme NALSAR University seeks to address the need and promotion of legal shortcomings in the space and telecommunications Laws.

This idiosyncratic Course enables the learner to gain an understanding in both Space and Telecommunications Law. The curriculum of the programme includes the General Principles of Law, International Space Law, telecommunication Laws both International and national, Technology and its relation to Space and Telecommunications, IPR Issues in Space and Telecommunication technology, commercialization and issues relating to the Cyberspace and security threats, laws relating to remote sensing and geospatial data and also contemporary issues in space and telecommunication sector. This amalgamation of the subjects enables a non-legal person to understand the laws and a non-technical person know the technicality.

This programme is suitable for those interested in the legal, space and telecommunication industry. One can make career prospects in the ministry or a space or telecommunication agency if he/she wishes to work for the government. One can also work with the space or telecommunication industry in a commercial space or telecommunication company or at a law firm which specializes in space or telecommunication law. If one prefers academia, working at a university or a research institute is also a good option.

ONE-YEAR POST GRADUATE DIPLOMA IN AVIATION LAW & AIR TRANSPORT MANAGEMENT

The aviation industry has always been a very unique industry in itself. Its rapid growth across the globe coupled with usage of the best and the most innovative technologies and increasing contribution to the economic and infrastructural development of a country makes the international aviation sector particularly important from both legal as well as management perspective.

Through this programme NALSAR aims to cater to the growing needs of the aviation industry and caters to impart knowledge and train the participants in the in the legal as well as management aspect.

The curriculum of the programme is a tailor-made to meet the professional needs of the aviation industry which includes airport, airline, aerospace and related sectors so that the trained professionals are in a position to directly take on the core legal-cum-managerial positions in any of these sectors. A lawyer who is traditionally been endowed with rational mind can perform the multiple role in the form of an aviation professional who can serve in the capacities of aviation lawyer, manager and technical support. Similarly, a manager who is endowed with analytical ability is now in a position to function at a higher level with greater competence by acquiring the specific knowledge of the rules of the game – Aviation Law.

The unique advantage of the above programme is the comprehensive understanding of the aviation industry which would include its operational aspects, legal management and technical knowledge with a special focus on catering to the contemporary requirements of the aerospace industry.

This programme is a unique blend of law and management subjects, giving the candidates a broad career prospect in the industry. The course is a one-year programme consisting of 6 subjects, stretched in to two semesters. The syllabus includes General Principles of Law, International Air Law, Principles of Management, Airport Management, Airline Management, and Domestic Air Laws in India.



**Centre for Aerospace & Defence Laws (CADL)
Directorate of Distance Education
NALSAR University of Law, Hyderabad**

Course Material

**P.G. DIPLOMA (AVIATION LAW AND
AIR TRANSPORT MANAGEMENT)**

Compiled by:

Prof. (Dr.) V. Balakista Reddy

(For private circulation only)

ONE YEAR POST-GRADUATE DIPLOMA IN ADVANCED MARITIME LAWS

The programme is the initiative of Centre for Aerospace & Defence Laws (CADL) of NALSAR University towards providing a comprehensive legal education thereby enabling the learner to develop an advanced understanding of a specialized area of maritime law and promote research in the area of maritime laws as there are very few universities in the country that are engaged in conducting teaching and research in the discipline of maritime laws. India is rapidly integrating its economy with more than 90% of the country's trade being conducted through oceans and also the sea provides passageway to 45,000 merchant ships worldwide and over 90 percent of global trade. Hence, there is an urgent need to strengthen and popularize maritime legal education in India. There is a growing need for students specialized in laws of sea. Shipping legal firms handling corporate shipping, insurance and port management are seriously looking for young and talented students trained in the legal regime of international and national maritime sector.

This programme is suitable for those in both the legal and maritime industry who are looking to enhance their career prospects. It provides highly specialised knowledge and research skills relevant for both legal practitioners and those operating more generally within the legal environment of the maritime sector. It would also assist anyone working in profession concerned with international trade and maritime environment depending on the chosen line of specialty within the research framework.

It is mainly designed for lawyers, legal advisers, judges and legal draftsmen. But the programme is also open to law graduates of any country who intend to pursue a legal career in the field of maritime law whether in the public or private sectors, whether in practice, administration or academia.

The course is a one-year programme consisting of 6 papers stretched in to 2 semesters. The syllabus includes General Principles of Law, International Maritime Laws, Maritime Security, Maritime Laws in India, International Trade and Maritime Transport Services, and Contemporary Issues in Maritime Laws.



**Centre for Aerospace & Defence Laws (CADL)
Directorate of Distance Education
NALSAR University of Law, Hyderabad**

Course Material

P.G. DIPLOMA (ADVANCED MARITIME LAWS)

Compiled by:

Prof. (Dr.) V. Balakista Reddy

(For private circulation only)

Today every area ranging from missile and unmanned aerial vehicle technology to urban administration, e-governance, remote sensing, energy sector, and even advertising and marketing depend on geospatial data. GIS and Remote Sensing are two exciting areas of technology to work on. Geographic information system (GIS) is a special system which is designed to capture, store, manipulate, analyze, manage, and present all types of geographical data on earth. GIS technology is an integrated database which has all the information like population characteristics, economic development opportunities, and vegetation types, maps etc. GIS allows to link the databases and maps and create dynamic displays. It also provides tools to visualize, query, and overlay the databases which are technically not possible through spreadsheets.

While GIS helps in explaining and predicting the events on earth, remote sensing is an art and science of measuring the earth with the help of sensors. Remote sensors generally collect the data by detecting the energy that is reflected back from Earth. These sensors are arranged on airplanes and satellites. Remote sensors collect the data in the form of images and manipulate them for analyzing and visualizing the data. GIS and Remote sensors are interrelated as these remote sensors are integrated within GIS systems to visualize and interpret the collected data.

To compete in the ever-growing demand for subject-specific expert in the Industry, and with a view to enable careers in the GIS and Remote Sensing Laws, NALSAR University of Law through its Centre for Aerospace and Defence Laws (CADL), had initiated to offer Course in this area. The program enables candidates of researching, choosing and assessing map source information for use in the arrangement or amendment of maps and diagrams to different scales. Candidates can have the employments identifying with examining information gave by remote sensing techniques.

The curriculum of the programme is a tailor-made to meet the professional needs of the remote sensing and geoinformatics industry. The course is a one-year programme consisting of 6 papers stretched into two semesters. The papers include General Principles of Law, Remote Sensing Technology and Law, GIS Technology and Law, Coastal Mapping and Coastal Zone Management, Satellite Technology, Remote Sensing, GIS and IPR Issues, and Remote Sensing and GIS Applications in Resource Management.

Remote sensing and GIS is increasingly used by both Public and private companies that sell imagery and data to Google, Bing, scientists, academic and research libraries, and others. Specialists may also find employment at consulting firms, software development firms, and scientific laboratories, where they are expected to improve technologies, software, or data analysis techniques. They can also be hired by various Government organizations who work in this area.

The above Masters and Diploma on-site/online courses are conducted through distance mode and have produced more than 600 students from past 10 years. Most of the students of these courses are working professionals from Ministry of Civil Aviation, DGCA, Airports Authority, Private Airlines etc.

M.A and P.G. Diploma Courses in Aviation, Defence, Space, Remote Sensing and Maritime Laws

1. Could you tell us briefly about University and the Centre for Aerospace and Defence Laws (CADL)?

About NALSAR and CADL: NALSAR University of Law, Hyderabad, is a government institution of national eminence in the field of legal education and research, is a residential University established in 1998 under the National Academy of Legal Studies and Research University Act (Act 34 of 1998). NALSAR University of Law is approved by the Bar Council of India & University Grants Commission. It has been graded as Category-I University by the UGC under Categorization of Universities (only) for Grant of Graded Autonomy Regulations, 2018. NALSAR has been accredited by NAAC with 'A' grade (A+ as per new grading system) with 3.60 CGPA out of 4.00 which is the highest score among all the National Law Schools evaluated till date.

NALSAR has consistently ranked as number one Law University in India has always endeavoured to promote quality research in contemporary legal issues. One of the contemporary but neglected areas in Indian legal realm is Air and Space laws. To fill this gap and to promote further studies and research in the aerospace law, the University established the Centre for Air and Space Law (CASL) in 2005. Since then, NALSAR-CASL has evolved inarguably a leader in promoting the study of and training in the specialized fields of Air and Space Law. Recently the Centre has been upgraded as Centre for Aerospace and Defence Laws (CADL).

2. Are courses offered through Directorate of Distance Education (DDE) at NALSAR recognized?

Yes, NALSAR University has been graded as Category-I University by the UGC and as per the clause 4.10 of the Categorization of the University under [Categorization of Universities (only) for Grant of Graded Autonomy] Regulations, 2018. The Courses have also been recognized by United Nations under “Education Opportunities in Space Law: A Directory” as notified by the Secretariat of the United Nations on 23 March 2017 in document “A/AC.105 /C.2/2017/CRP.10”.

3. What contents will be provided in the two years M.A. and one year P.G. Diploma Courses? How are these courses conducted?

The duration is two years for the M.A. Programme and one year for the P.G. Diploma. The courses (M.A. & P.G. Diploma in Aviation Law and Air Transport Management) provide introduction to law and also management initially. Later, on the core legal side, the course will also cover subjects like International and

Domestic Air Laws; Aviation Safety, Security and Liability Law; Aviation Contracts & Tenders and Aviation Corporate Laws besides Air Transport Economics and Statistics. In the management, subjects like Airport Management; Airline Management, Aviation Marketing etc. are covered. In the final semester of M.A. programme, the students will have to submit a Dissertation on a selected topic.

The course on M.A. (Security and Defence Law) begins with introduction to law, international security diplomacy and Conflict Resolutions, Defence Technology and Defence Laws, International Institutions and Global Security, Defence Management and strategic studies. The course also touches the contemporary subjects like defence Contracts & Tenders, Defence Procurement Policies, Defence Laws and Policies in India, regional security and Global Governance, Terrorism and Counter-Terrorism, Aerospace and Maritime Security, Cyber Space and Cyber Security etc. In the final semester, the students will have to submit a Dissertation on a selected topic.

The curriculum of the M.A. (Space and Telecommunication Laws) programme includes the General Principles of Law, International Space Law, telecommunication Laws both International and national, Technology and its relation to Space and Telecommunications, IPR Issues in Space and Telecommunication technology, commercialization and issues relating to the Cyberspace and security threats, laws relating to remote sensing and geospatial data and also contemporary issues in space and telecommunication sector. In the final semester, the students will have to submit a Dissertation on a selected topic.

The course on P.G. Diploma (Advanced Maritime Laws) begins with the introduction of law and maritime security. Later on, the course deals with the specific subjects like International Maritime Laws, Maritime Security and Law of the Sea, Maritime Laws in India, International trade and Maritime Transport Services, and Maritime Laws and contemporary issues.

The syllabus of P.G. Diploma (GIS and Remote Sensing Laws) include General Principles of Law, Remote Sensing Technology and Law, GIS Technology and Law, Coastal Mapping and Coastal Zone Management, Satellite Technology, Remote Sensing, GIS and IPR Issues, and Remote Sensing and GIS Applications in Resource Management.

Personal Contact Sessions will be conducted through online lectures, case study, assignments etc. Candidates will be provided with the Self Learning Material and

support through email and web using remote accessibility of e-resources such as Manupatra, Heinonline, JSTOR, SCCOnline etc.

4. What are the eligibility criteria and who can pursue these courses?

Candidates with Bachelor's Degree in any discipline from any recognized University can pursue the said Programmes. In addition, candidates with 3-year Degree/Diploma in Aircraft Maintenance Engineering (AME) are also eligible to apply. However, the AME students have to produce an experience certificate of not less than 3 years.

5. I am a full time regular employee. Am I eligible to pursue these courses?

Yes. These courses are offered through Onsite-Online mechanism using Open Distance Learning mode. There will be Personal Contact Sessions for a duration of 5 – 7 days in a semester which are live streamed and Archived for latter accessibility for the enrolled students. Rest of the time guidance will be provided through emails / website. Attendance at the contact sessions is not mandatory but strictly recommended so that the candidate gets the inputs of experts and can gain subject knowledge. Students can also take these courses while pursuing their regular studies.

6. How to apply for these Courses?

The Online Application Form is available on the website www.nalsarpro.org The duly certified hard copy of the submitted 'Online Application Form' along with the enclosures listed below shall reach 'The Directorate of Distance Education, NALSAR University of Law, Justice City, Shameerpet, Medchal District, Hyderabad – 500101; Telangana, India' within 10 days from the date of submission of online application.

7. What is the application deadline and what is the selection process?

The last date to apply for the academic year 2020 – 2021 is till Mid-June, 2020. Direct Admission subject to fulfilment of the eligibility criteria for the said course.

8. What is the fee structure for these courses?

S. No.	Name of the Course	Course Fee
1.	Two-Year M.A. (Aviation Law and Air Transport Management)	Rs. 40,000/- p.a. (for Defence Personnel- Rs. 35,000/- p.a.)
2.	Two-Year M.A. (Security and Defence Laws)	
3.	Two-Year M.A. (Space and Telecommunication Laws)	

4.	One-Year P.G. Diploma (Aviation Law and Air Transport Management)	Rs. 30,000/- (for Defence Personnel- Rs. 25,000/-)
5.	One-Year P.G. Diploma (Advanced Maritime Laws)	
6.	One-Year P.G. Diploma (GIS and Remote Sensing Laws)	

9. Can the Course fee be paid in Installments?

As a policy the University does not permit installments. In few deserving cases of financial difficulties, request may be made to the Director, DDE and such requests will be considered on case-to case basis and the University reserves the right to decide on them.

10. What is the schedule for the personal contact sessions/Online classes and where do we attend them?

The schedule will be intimated to the students in advance through email. Tentatively classes will be conducted for seven days for the M.A. programme and for five days for the PG Diploma programme in a semester. The classes will be conducted at NALSAR Campus, Shameerpet only and can be attended through online mode also. However, the exams will be held on campus, i.e. NALSAR University of Law, Justice City, Hyderabad.

11. What is the pattern of evaluation and schedule for the examinations?

Evaluation for courses includes assignments and a written examination. Each paper is evaluated for 100 marks out of which 30 marks are for assignments and 70 marks for the end term written examination. In case of M.A. Programme, students have to submit a Dissertation in the IV Semester on a selected topic, which carries 150 marks for written submission and 50 marks for viva-voce.

12. How will the quality of the syllabus and readings be ensured and continually updated to fit the changing needs and requirements?

Recognizing the dynamic nature of courses being offered and the need to constantly evaluate and update them, NALSAR University has constituted a high powered Committee consisting of Judges, Experts from Aviation and Defence Industries, Senior Professors of Law and Management etc.

Thus, we have begun with the fundamental belief that students of these courses can learn better only if they are provided with up-to-date information and hence, we

intend to undertake periodic revision of our reading material. Lastly, apart from the reading material, we will also provide updated information to our students through website and email and also we provide remote access of e-resources such as Manupatra, HeinOnline, JSTOR, SCCOnline etc. for projects submission and dissertation.

13. Will the accommodation be provided by the University, during on-campus sessions?

Accommodation can be arranged in NALSAR Campus, Hyderabad on request and on payment basis. Limited accommodation is available, hence, it will be on sharing and on first come first serve basis.

14. What employment opportunities will the students have after the completion of these courses? Whether NALSAR will provide job guarantee or job assistance?

Aerospace and defence sectors being truly international in nature do not confine themselves to Indian borders. Students pursuing these courses will be able to enter the global market and boost their career profiles. Students can expect employment as Managers (Airline Managers, Safety and Security Managers, Operations Managers, International Relations Manager (Handling, Bilateral and Traffic Rights), Legal and Financial Consultants. Job opportunities are also available in Government Organizations such as the DGCA, AAI and various defence organizations. NALSAR being a Government Institution cannot guarantee you job, we will provide you with assistance and guidance to students who are looking for jobs after completing the course by encouraging smooth interaction between students and prospective employers.

Due to an increasing demand of Aerospace and Defence equipments for the armed forces, India continues to be one of the promising markets in the world. Recently, FDI limit has been increased from 26 percent to 49 percent in the defence sector under the automatic route and above 49 percent on a case-to-case basis under the approval route. The policy aims to promote the programmes like 'Make in India', 'Made in India', 'Skill in India' etc. to help the private industries also. Increasing private participation in Indian defence Industry, there are huge job opportunities. The new entries like Reliance, TATA, Mahindra etc. are now entering into defence manufacturing, hence requiring the people in domain knowledge and expertise in the defence industry.

15. How these programmes will help various stakeholders in Aerospace and Defence industries in India?

Indian Aerospace and Defence sectors are fastest growing industries among the world. These programmes

will be beneficial for the Serving members of the Aerospace and defence industries, policy makers and stakeholders working in the government departments, public sector undertakings, negotiators and diplomats who represent the country in the negotiations for various defence procurements, Aerospace Engineers/Students pursuing Aerospace Engineering, Law Graduates desiring specialization in aerospace and defence Laws, M.B.A students and Graduates undergoing various aerospace, defence and strategic studies related Programmes.

Also, there is a high demand for law professionals with expertise in aerospace and defence laws. With the help of these programmes, the candidates can be well placed for roles in international institutions, government departments (ministries of foreign affairs, defence, justice, home affairs and development), non-governmental organisations, law firms and also in private sectors (aerospace and defence companies).

16. Who are our students?

We have students with a wide spectrum of professional backgrounds, coming from Indian Armed Forces, Aviation Management, Airports Authority of India, Indian Space Research Organization, International Airports Pvt. Ltd., private airline companies like Emirates, IndiGo, Qatar Airways, etc., Directorate General of Civil Aviation, Security Private Limited Companies, Ministry of Law and Justice, advocates, academicians, fresh graduates etc.

Centre for Aerospace and Defence Laws (CADL), NALSAR, as an institution stands for par excellence research and through its courses, journals, newsletters, moot courts, conferences and other activities, bringing the attention of the Aerospace and Defence community to forefront and highlighting its contemporary issues and challenges at a global level.

The *Indian Journal of Air and Space Law (IJASL)*, an exclusive and vital part of the CADL, is inclusive of articles from authors, scholars, and students across the world. This area of study draws its relevance on various specialties: each of which is undergoing doctrinal and practical transformation as a result of new and emerging contemporary developments. This Journal was conceived with the intention to highlight recent developments, relate them to theoretical issues and critically analyse their implications. It caters to a broad spectrum of audience such as students interested in the field of international aerospace and defence laws, practicing lawyers, judges, research scholars and for all the other interested professionals.

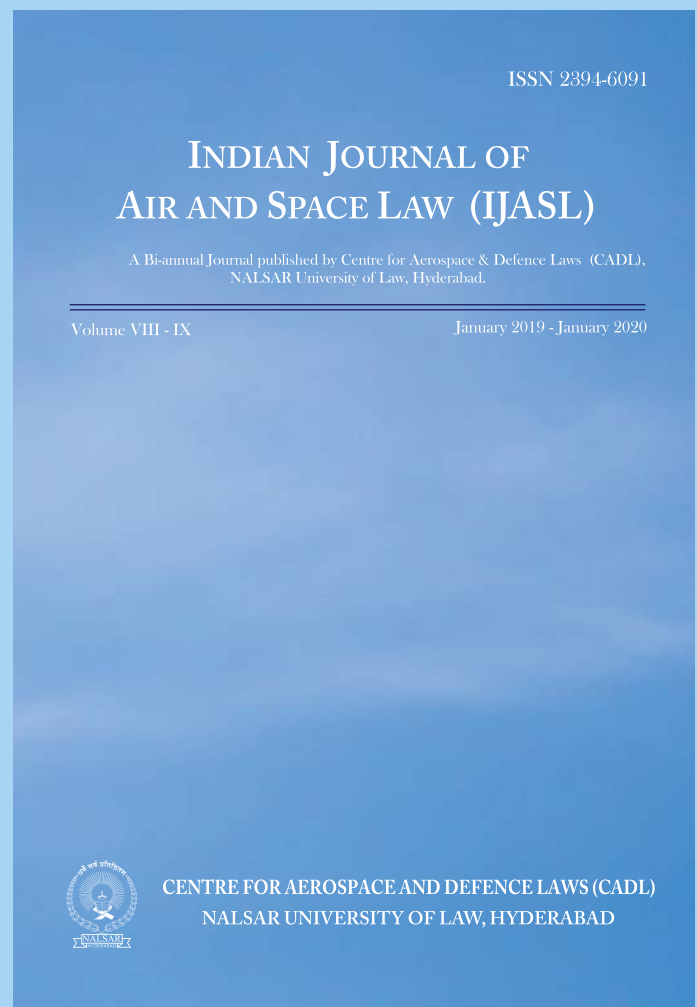
Advancement and implementation of ever-evolving aerospace technology has resulted in tremendous global impact to diversify the field on numerous levels and calls for a further heated debate and research in this field. Nevertheless, apart from the academic and practical point of view, such interest for increasing need for exploration and uses of outer space can also be seen through scientific thriller movies, books and illustrations as well.

With the augmentation of globalization, intermingling and interdependence of economies, liberalization of space policies, technological developments in aerospace industry, privatization of certain aerospace segments, and the growing trends in non-interventionist bilateral and multilateral agreements, there is a development of new trends that are emerging in the aerospace industries throughout the world. Privatization and intensified global competition are forcing the aviation and space industries to become responsive, increasingly competitive and committed by focusing more closely on their stakeholders.

The recent venture of the Indian space agency ISRO to explore the surface of Mars is one instance which shows that the Indian aerospace technology is fast evolving, in response to the development happening elsewhere. While, India has accomplished international acclaim in the area of aerospace technology development and utilization, there is still the need for integration for efforts at the national level, from the standpoint of the

private sector. Nevertheless, it is an undeniable fact that the Indian Aviation sector is still in need for reformation in terms of liability, compensation and regulation of competition. At the same time, military missiles and satellites technology requires at par development with the International standards, in an effective and efficient manner as opposed to purchasing the same from other states at an exorbitant price. Therefore, the effort of this Journal is to promote and encourage a healthy and innovative debate on all facets of aerospace industry and ensure that the ethical standards of research are complied with.

Till now, we have published and released nine volumes of this Journal. The Journal is our modest venture in further and advance research in the field of aviation and space law, and we at Centre for Aerospace and Defence Laws, sincerely hope, to keep up with our efforts for the continuation of the Journal.



International Legal and Policy Conference on the Future of Transport Opportunities and Challenges in Aviation and Space Industry

The transport industry is going through a profound transformation driven by technology, innovation, automation, and sustainability, thereby making the system efficient, reliable, and safe for the movement of people and the movement of goods. We see a growing demand for better services and the customer experience in the fields of aviation, space, and the general transport sector in India and across the globe. 2020 is the beginning of a new era in which the aviation, space, and transport sector(s) in general will see exponential growth. Innovation, technology, and automation will transform the way we experience mobility, whether it be the movement of people or the movement of goods. With rapid growth and sea changes foreseen in the aviation, space, and general transport sector(s), a dialogue on the legal and policy issues are equally relevant, as businesses need certainty more than ever, given the enormous investments involved; and the growing policy/regulatory/legal concerns need a fresh look as some of the laws are out-dated or not cohesive with the modern technological developments.

With this importance exponential growth of transport industry in mind, NALSAR University of Law through its Centre for Aerospace and Defence Laws (CADL) had organized the two-day *International Legal and Policy Conference on the Future of Transport: Opportunities and Challenges in Aviation and Space Industry* on February 2-3, 2020. The objective behind this platform was to promote the sector by sharing experiences that may help the overall growth and competitiveness of the transport industry, raise awareness of the benefits that transport sector brings to an economy, and build partnerships between academia and industry to ensure that the next generation of lawyers and policy experts are equipped with the necessary skills for the future.

Given the international nature of the aerospace business, NALSAR University of Law, Hyderabad, is glad to be collaborated with the University of Mississippi School of Law, United States of America, well known for its academic research in the field of aviation and space laws. From the industry, we had GMR Group, who is a pioneer and leading airport and infrastructure operator in India. Besides, we had Sarin & Co, a boutique law firm specializing in aviation law. We also had a student-run journal, Indian Journal of Law and Public Policy (IJLPP), as a supporter of the conference.

Along with regulators, policymakers, industry, NGOs, consumer activists, think tanks, academia, and students in the field of aviation, space and general transport sector(s), the conference hosted industry experts/speakers from BCAS, DGCA, ISRO, MEA, Air Vistara, Boeing, GMR, GVK, Ola, Bounce and law firms specialized in aviation and space industry. Students from across the country and the alumni of Centre for Aerospace and Defence Laws

(CADL) of NALSAR University of Law had participated and presented papers at the two-day conference.

The conference was first of its kind where we brought the legal and policy experts together with the transport industry to share: what opportunity and challenges lie ahead for the sector; why specific policies or legal rules need to be changed; and where the stakeholders can find common ground to work together for the benefit of the industry and keep up with the increasing expectations of customers.

At this conference, a wide range of legal and policy issues relating to the aviation, space, and transport sector in general by experts coming from government, industry, legal and policy analysts, and academicians has been debated. The conference was unique as it was organized by the law school that have contributed to this field of law over many years through their teaching and research work. Equally befitting was the presence of industry partners who are well versed with the business and legal challenges that the industry is facing today.

Topics which were discussed at the Conference include:

- Policy considerations on urban mobility - congestion, air quality and innovation in the transport sector;
- Legal and policy considerations for commercial drone operations;
- Airport infrastructure, customer experience, congestion, slot allocation, airport charges, etc.;
- Airline economic sustainability: what strategies should the government consider to boost the competitiveness of the airline market; how to promote MRO services in India; what customer experience means to airlines; and how the civil aviation policy of the Indian government supports the aviation industry;
- Commercialization of space activities, international cooperation, the liability of launch country and other private parties involved in commercial space activities and the necessity for national space legislation to promote private actors in the space sector; and
- The women in the transport panel will discuss the issues of diversity and inclusiveness in the workplace. Given that the percentage of women in the transport sector is deficient, the panel will include role models who could encourage younger women to join the sector by discussing the skills required for the future.

International Legal and Policy Conference on the Future of Transport Opportunities and Challenges in Aviation and Space Industry took place on 2nd – 3rd of February, 2020 and was organized by the Centre for Aerospace and Defence Laws (CADL) at NALSAR, headed by Prof. V. Balakista Reddy, in association with GMR Group, University of Mississippi, USA and Sarin & Co. The Conference was conducted with nearly 45 speakers and more than 300 participants attended it in-person and more than 100 viewed it online. The participants range from Academicians, students to the Industry experts and researchers.

The Conference was opened with the Keynote speeches by Prof. Faizan Mustafa, Vice Chancellor, NALSAR University of Law, Padma Shree Dr. Y. S. Rajan, Distinguished Professor (Fmr.), Indian Space Research Organisation (ISRO), Mr. GBS Raju, Chairman, Airports, GMR Group, Mr. T Krishna Prasad, IPS, DGP and Chairman Road Safety Authority, Telangana, Justice A. Muhamed Mustaque, Kerala High Court, PCK Ravindran, ICAO Consultant and Aviation Advisor to UAE and Prof. (Dr.) V. Balakista Reddy, Head, Centre for Aerospace and Defence Law (CADL), NALSAR University of Law, Mr. Sagar Singamsetty, Overseas Academic coordinator, Adjunct Faculty, CADL at NALSAR University.

Prof. Faizan Mustafa, Vice-Chancellor, NALSAR while welcoming the guests highlighted the teaching and research activities of Centre for Aerospace and Defence Laws (CADL) in the last 20 years. While inaugurating the Conference as Chief Guest, Mr. GBS Raju, Chairman, Airports, GMR Group highlighted the passenger traffic and the need for aviation infrastructure in India. Further, he highlighted the expansion of Hyderabad Airport to accommodate future growth in passenger and cargo, by integrating technology and processes like e-boarding, ATRS, Self-Bag Drop, Facial Recognition, etc. Hon'ble Justice A. Muhamed Mustaque, Sitting Judge, Kerala High Court shed light on the importance of space technology in the contemporary world and emphasized the need for domestic space regulation in India.

Dr.P.C.K Ravindran, ICAO Consultant and Aviation Advisor to Government of Sharjah, UAE highlighted the future aviation growth in India compared to other countries around the globe. Padma Shree Dr. Y.S. Ranjan, Distinguished Professor (Former), ISRO shared his experiences on his association with Dr. A.P.J. Abdul Kalam in light of a legal and policy essay competition in the field of air and space law conducted by Mr. Sagar Singamsetty, an alumnus of NALSAR. Capt. S.N. Reddy, Secretary and CEO, Telangana State Aviation

Academy highlighted various initiatives taken by the Government of Telangana to promote the State as a hub for aerospace and defence sectors. Mr. T. Krishna Prasad, IPS, DGP and Chairman Road Safety Authority, Government of Telangana emphasized on the growing scope and development of Urban Mobility and multimodal transport, with safety being highest priority.

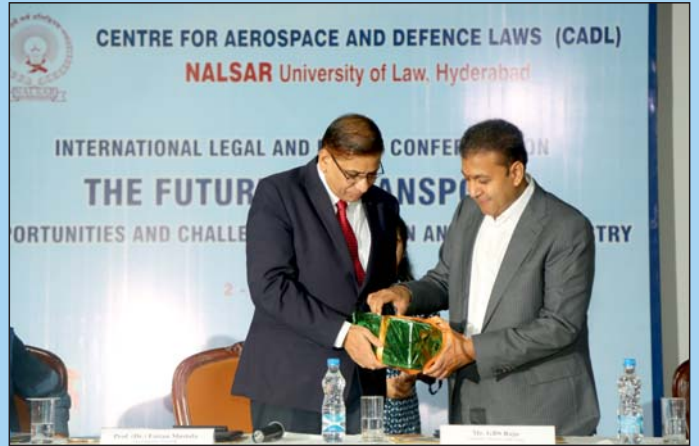
During the inauguration Volume VIII & IX of Indian Journal of Air and Space Law (IJASL), was released by Mr. GBS Raju, Chairman, Airports, GMR Group. The IJASL consisted of the top 10 essays of the 1st APJ Abdul Kalam Essay writing Competition which was held in October and the Results were finalised in December. The winners of the Competition were announced during the Inauguration of the Conference and winners were awarded cheques of Rs. 50,000/- , Rs. 30,000/- and Rs. 20,000/-. The shortlisted essays addressed various contemporary topics and issues like space security and space cooperation, actual carrier and contracting carrier, changing dynamics of aircraft manufacturing, cyber-attacks in outer space, challenges in lunar mining, cyber terrorism, espionage from outer space and airspace, challenges in registration Convention, 1975 etc.

The Conference Souvenir was released by Prof. Faizan Mustafa, Vice Chancellor, NALSAR University of Law during the inauguration of the Conference. Abstracts/Papers were called on various emerging issues in Aviation and space sectors. The selected abstracts were published in the Conference Souvenir. Justice A. Muhamed Mustaque, Kerala High Court had released Teaching and Research Activities of Air and Space Law at NALSAR. Teaching and Research Activities of Air and Space Law at NALSAR is composed of the achievements of former Centre for Aerospace and Defence Laws (CADL), Centre for Air and Space Law (CASL) and NALSAR University of Law. This also included various activities conducted by the CASL/CADL and NALSAR University on Air and Space Law in India and across the world in last one and half decade.

The Conference had addressed various aspects of Air, Space Law and future of Transport industry. Prominent personalities like Mr. Kumar Abhijeet, Legal Officer, Ministry of External Affairs, Government of India, Dr. Akhil Prasad, Director, Country Counsel India & Company Secretary, Boeing, Mr. Sridhara Murthi, Director, International Institute of Aerospace Engineering and Management, Jain University & Former Managing Director, ANTRIX Corporation Ltd., Mr. Charles Stotler, Associate Director, Air and Space Law Program, The University of Mississippi School of Law, Mr. Andrew Charlton, Managing Director, Aviation

Advocacy, Switzerland, Mr. Carlo Maasbommel, VP International Business Development, PAL- V International, Mr. Ravi Kini, Partner, MV Kini, Mr. Ashok G. V, Partner, Fatum Law, Ms. Neelu Khatri, Managing Director, BluOrange Synergies, Mr. Pradeep Panicker, Dy CEO, GMR Group, Mr. Zon Edamuttath, Asst. Vice President, Mumbai International Airport, Mr. James Jordan, Snr. Associate, HFW Singapore Office, Ms. Anuradha Reddy, Aviation Historian, INTACH

Telangana, Capt. Mamatha, Executive Director, Flytech Aviation, Mr. Kishore Kumar Maley, Founder, Aeromate and others had discussed various issues in Aviation and space sectors in two-day Conference with seven (7) sessions and three (3) fireside chats. They had also interacted with participants during the sessions, networking event held over dinner on 2nd February, 2020 and during and after the Conference.



FIRESIDE CHAT-1

Fireside chat with Padma Shree, Dr. Y. S Rajan, Distinguished Professor (Fmr.), Indian Space Research Organisation (ISRO) by Mr. Charles Stotler, Associate Director, Air and Space law program, The University of Mississippi school of Law and Mr. Sridhara Murthi, Director, International Institute of Aerospace Engineering and Management, Jain University & Former

Managing Director, ANTRIX Corporation Ltd., brought light on various issues and aspects in space law. The speaker Dr. Y. S Rajan had shared his experience and enlightened the participants on various issues.



SESSION-1: THE FUTURE OF SPACE INDUSTRY

The first panel discussion in the Conference had addressed the scope and future of Space Industry. The panel was moderated by Mr. V Gopalakrishnan, Former Policy Analyst, Indian Space Research Organisation (ISRO) and the panel consisted of Mr. Kumar Abhijeet, Legal Officer, Ministry of External Affairs, Government of India, Mr. Sridhara Murthi, Director, International Institute of Aerospace Engineering and Management, Jain University & Former Managing Director, ANTRIX Corporation Ltd., Mr. Charles Stotler, Associate Director, Air and Space Law Program, The University of Mississippi School of Law, Mr. Ashok G. V, Partner, Fatum Law.

The panel addressed the questions like how the growth of space industry can make impact on common Man's Life, need and scope of international obligation for domestic space regulations in India, scope and comparison of Indian space legislations with American Space legislations, delimitation on the agenda on UNCOPUOS in the light of emerging space transport, concerns of space debris and space pollution in wake of emerging practice by the space industries, standards and compatible infrastructure of space industries for sustainable environment, collaboration and cooperation between the institutes like NASA, ESA, Roscomos with young governmental agencies, and future of space industry in next 10 years.

During the panel discussion Mr. Kumar Abhijeet foreshadowed that increasing commercialization of Space would require legal and legislative backing to increase investor support. This would necessarily call for the process of law-making to be an inclusive process. He emphasised that the delimitation of outer space would be an important cog for liability regimes to be put in place. Mr. Sridhara Murthy carried the discussion forward by presenting a broad picture of the potential that the Space industry holds and the benefits that India could reap should it position itself strongly in Space. He also called for the government to lead the private sector into Space. Mr. Charles Stotler, from the Air and Space Law Centre at the University of Mississippi, provided a global perspective to the discussion highlighting the importance of co-operation between different space regulating agencies. Finally, Mr. Ashok G.V. provided a commercial perspective on how a 'Space lawyer' integrates international legal obligations into contract law. Further, he touched upon different legal aspects of space exploration and other activities. The discussion provided a holistic picture of the emerging trends in the Space industry and made recommendations to the government towards inviting the private sector into Space.



SESSION-2: THE FUTURE OF AIRLINE INDUSTRY

The second panel discussion was held post-lunch which was sponsored by Sarin & Co. It discussed on the future of Space Industry. The panel was moderated by Mr. Sagar Singamsetty, Overseas Academic Coordinator, Adjunct Faculty, CADL at NALSAR University. The Panel Consisted of Dr. Benarji Chakka, Associate Dean, Alliance School of Law, Mr. Andrew Charlton, Managing Director, Aviation Advocacy, Switzerland, Mr. PCK Ravindran, ICAO Consultant and Aviation Advisor to UAE, Mr. Ravi Kini, Partner, MV Kini.

The panel discussed on issues like the recent announcement by Indian government about the sale of Air India, closure and sale of various airlines like Kingfisher and Jet Airways etc, in light of regulatory burdens both on Airlines and Governments, effective control and substantial ownership in commercial aviation sector, Artificial Intelligence and emerging technologies in Aviation Industry, Environmental issues and compatible environmental standards of airlines and climate change pledge in Aviation, threats of other modes of transport like speed trains on the Airlines, issues of Aviation regulations and Laws in India and future of Aviation in 10 years.

The panelist substantially addressed the issues concerning the technological, commercial and

policy based developments in the Airline Industry. Dr. Banerjee Chakka discussed on the Data gathering and the Artificial Intelligence aspects of Technology. He highlighted the paced growth of these technologies and how it poses significant challenges to the Airline Industry with emphasis in terms of issues in privacy, data security and the regulation of Artificial Intelligence services. Mr. Andrew Charlton had made some provocative arguments of looking beyond the Chicago convention of 1944 in light of the emerging threats posed by huge companies with large capitals, which take over the airline industry which changed the perspective of looking at Aviation Industrial problems. Mr. PCK Ravindran discussed the image of the airline industry through statistics and proposed significant course of actions to be taken in future to maintain this image and to make the industry more profitable. Mr. Ravi Kimi concluded the session by mentioning several policy decisions made by the current government to improve the aviation industry. Policies like UDAN Scheme, Open Sky Policy, Rupee Raftaar, next generation Airports, and Green Aviation Policy were discussed briefly. The session was concluded on a positive note of their effectiveness in the Indian Aviation Industry.



FIRESIDE CHAT-2

Mr. Syed Tamjeed, President, Indian Journal of Law and Public Policy had chat with Dr. Akhil Prasad, Director, Country Counsel India & Company Secretary, Boeing during this session. During this chat Dr. Prasad answered several interesting questions based on his work as an in-house Lawyer of an Airline Company, Boeing. He discussed the potential of the airline companies for prosperity in India. He highlighted the need of focus on various service sector industries like telecom, finance

along with the Airline Industry. He said that the initiatives taken by the government are great however, he addressed the need of implementation of the same. He shared his experience and need of an in-house counsel in present subject-specific knowledge based companies. Concluding his interview, he hoped that the airline industry will make significant growth by providing enough opportunities for lawyers to prosper globally in the Airline Industry.



SESSION-3: THE FUTURE OF AIRPORTS

Session-3 on the future of Airports was moderated by Dr. George Moses, Director (Legal) at Airports Economic Regulatory Authority (AERA), Ph.D., Leiden University of Law, The Netherlands. Ms. Neelu Khatri, Managing Director, BluOrange Synergies, Mr. Pradeep Panicker, Dy CEO, GMR Group, Mr. P. Manu Kulkarni, Partner, Poovayya & Co, Ms. Ramya Sankaran, Associate Partner, Gagrats, Mr. Zon Edamuttath, Asst. Vice President, Mumbai International Airport had discussed on future of Airports in this discussion.

This discussion had answered various questions on the future of Airports which included how the customer experience mean to Airports including the passenger wait time and ways to address this issue, policy and regulatory issues in respect of private airport companies, issues of establishing more International Airports in same city due to increase in travel demand in light of competition between the airports, Airport expansions in relation to environmental and other Laws, Role and challenges faced by the Airport Authority of India (AAI), issues of slot allocation and policy initiatives on the same by the government, role of technologies in customer-friendly Airports and the Airports are trying to adopt various disruptive technologies to enhance customer experience, privacy issues due to the facial recognition technology (FRT) and the future of Airports in next decade.

Ms. Neelu Khatri presented a power-point presentation depicting the growth rate of Indian Airline Sector. She posed this unprecedented growth as both challenge and

opportunity. In her concluding remarks she said that by 2030 India will be 3rd biggest country in Airline Sector which awaits many exciting opportunities. Following her, the stage was taken over by Mr. Pradeep Panicker, Dy CEO GMR group, who focused his speech on the infrastructural requirements of the airport terminals and the need to manage them efficiently. He also brought light upon various projects undertaken by GMR group and new innovations that the company seek to bring in. In his concluding remarks he praised the decision of introducing public-private partnership in managing airports where the Indian companies are performing excellently, while giving example of the improvement in rankings of Hyderabad and Delhi Airport. Then the stage was then taken over by Mr. Manu P. Kulkarni, Partner, Povayya & Co. who talked about the legal and policy aspects in expanding Airline sector. He highlighted the grey areas of recent laws regulating airline industry and also appreciated the aviation tribunal for maintain complete transparency in issuing orders. The next speaker Ms. Ramya Sankaran, presented on the interesting topic that is Slot trading. She explained what slot trading is and how it functions, how it is practiced in Industry, types of slot trading, their pros and cons. The last speaker of the session, Mr. Zon Edamuttath, Asst. Vice President, Mumbai International Airport have highlighted the recent security challenges, how can the timing of check in be reduced, the problems faced by the security guards and various other aspects.



FIRESIDE CHAT-3

During this session, Mr. Carlo Maasbommel, VP International Business Development, PAL-V International was interviewed by Mr. Sagar Singamsetty, Overseas Academic Coordinator, Adjunct Faculty, CADL at NALSAR University. During this session, Mr. Carlo had introduced the idea of flying Car and PAL-V, which was first flying car, based in The Netherlands as a combination of car and flight and thus can be used to drive also and fly also. He also addressed the requirements and non-requirements of infrastructure for these flying cars. He started the interview with

development from the prototype phase to the launch in market to the requirements of airstrip and technical data relating to the same. He emphasised on the purposes of the flying car which majorly used by Police and Coast Guard for Aerial surveillance and practical actions, Non-Governmental organizations who use it as the first respondent vehicle for Supply of medical aid and during Disaster Management and ultimately as Taxi Service. He also highlighted the challenges of flying cars which include Battery, Turbulence, Safety, Infrastructure and lack of regulation.



SESSION-4: THE FUTURE OF TRANSPORT

Session-4 had highlighted on one of the main theme of conference which is future of Transport Industry. This session was conducted with two panels.

Panel-1: Future of Urban Mobility

Panel-1 was moderated by Mr. Pinaki Nandan, Head, Centre for Management Studies, NALSAR University. The panel comprised with Mr. Pawan K. Mulukutla, Head of Urban Mobility, Bosch India, Ms. Vinita Varghese, Sr. Legal Counsel, Ola (ANI Technologies Pvt. Ltd.), Mr. Rajaram Surianarayanan, Government Relations & Public Policy Lawyer, Bounce, Mr. T Krishna Prasad IPS, DGP and Chairman Road Safety Authority, Telangana.

The panel had discussed on the theme of future of Urban mobility which highlighted how the technology and innovation was transforming in relative to people and goods, the shift to artificial intelligence and machine learning as enablers for the transport sector issues and role of regulation of the evolving mobility sector. The discussion also addressed the issues of Environmental concerns and debates on environment and economic interests, security and safety of urban transport services, Use of technology and AI in innovative transport sector and regulatory issues on the same, issues of increase of ownership of private vehicles and decline in usage of public transports, and future of urban mobility on next decade.

Mr. Prasad began the discussion by highlighting the relationship between 'Urban Mobility' and 'Urban Planning'. He explained how mass transit and more public transport are key to a sustainable future. Further, he advised that more attention must be given to intra-city transport and how the regulations must on par with emerging technologies. Ms. Varghese emphasised the need for connecting the peripheries of urban centres with the cores so as to take a more sustainable route. She emphasised on how public transport could play a major role in the future. Mr. Rajaram talked about the growth of platforms and service providers which deal in public transport. He talked about Bounce, a start-up which allows people to rent two-wheelers and park them anywhere in the city. He also spoke about the legal and sociological challenges that the company faced while introducing the technology to the public. Mr. Pawan Mulukutla highlighted the issues in Urban Mobility in India.



Panel-2: Future of Urban Air Mobility (Drones)

Panel-2 was moderated by Mr. Sagar Singamsetty, Overseas Academic Coordinator, Adjunct Faculty, CADL at NALSAR University and the panel consisted of Capt. Amit K. Garg, Senior Flight Operations Inspector in the Directorate General of Civil Aviation (DGCA) and Alumni, CADL, NALSAR University, Mr. A Suresh Kumar, Air Commodore, Indian Air Force, Mr. James Jordan, Snr. Associate, HFW Singapore Office.

This panel addressed some of the issues on economics of urban mobility, issues of airspace ownership in Unmanned Aerial Systems (UAS), growth of drone industries, market barriers and challenges to drone industry including the policy regulations, security aspects, privacy issues etc., new technologies and risks for the same in urban mobility, regulations for new technologies and challenges faced by UAS.

The panel had discussed issues on Urban Unmanned Vehicles and the role that they could play in transportation of people within urban centers. Both industry and academic views were expressed. The panel had introduced the concept of UAS and categorised it in to Passenger drones, Large unmanned cargo aircraft, Small parcel Drones. The panel had highlighted the challenges of UAS which included the Integration of UAS into the air-space, Inherent challenges in real time detection and avoidance, Vulnerabilities – Hacking of UAS is a pertinent problem. The session also highlighted the legal challenges and legal rights like Potential for violation of privacy rights, Property rights – Air space ownership, Malafide/Illegal use of UAS. The panel had also discussed the registration, insurance, regulations for UAS.



NETWORKING EVENT

Day-1 of the Conference was concluded with the networking event and dinner sponsored by the NALSAR University of Law. The participants and the speakers had interacted with each other over dinner and the alumni of CADL had attended as well.



SESSION-5: NEW AND EMERGING LEGAL AND POLICY ISSUES IN SPACE SECTOR

Day-2 of the Conference was started with session-5 which is themed as the new and emerging legal and policy issues in space sector. This session had given an opportunity to raise and discuss new and emerging issues in space sector by practitioners and students. Given the recent developments in the space sector one can acknowledge the growing potential of this industry. However, the legal and policy framework need to catch-up with the technological evolution. Our idea through this session was to discuss the legal and policy considerations that industry and government alike should take into account.

The session was moderated by Ms. Poorvi Kantroo, Doctoral Candidate, Centre for Aerospace and Defence Laws (CADL), NALSAR University. This session had both in-person speakers and some presentations were made through Skype. The speakers in this session are Mr. Gurbachan Sachdeva, Professor, NALSAR University of Law, Mr. Chinmoy Roy, Legal Officer, Antrix Corporation Limited, and presentations by the selected students and researchers of the essay writing competition. The presenters include Ms. Sheena Rajpal & Ms. Sameera Kagita, Law College Dehradun, Uttaranchal University, Ms. Keertana Venkatesh, Gujarat National Law University, Mr. Sudarshan BK & Ms. Bhumika SR, Ramaiah College of Law Ms. Ishita Das, National University of Juridical Science, who presented in-person while, Dr. PJ Blount- Postdoctoral Researcher, Faculty of Law, Economics, and Finance, University of Luxembourg, Adjunct Professor, LL.M. in Air and Space Law University of Mississippi School of Law, Ms. Vani Kaushik, National University of Juridical Science and Ms. Paniz Bahmani, Allameh Tabataba'i University, Tehran had presented through Skype.

Mr. Gurbachan Sachdeva had delivered his presentation on the Space Tourism which also highlighted the presumptions and components of space tourism, challenges to space travel and space hospitality. He emphasised that the presumptions include Threshold of Technology, Commercial Viability of Operations, Regularity of Scheduled Services, and Credibility of Competitors while the components of space tourism include Space Hospitality, Regulatory Authority and others. He also highlighted and introduced space debris and other issues. Mr. Chinmoy Roy had presented on the cyber security in outer space and he had brought light upon the chances and challenges of cyber-attacks in outer space which may lead to disruption to the infrastructure. He also addressed the legal and regulatory issues when there is a cyber-attack. Ms. Sheena Rajpal & Ms. Sameera Kagita had presented their paper which is on need for space mining, while the winner of the essay writing competition Ms. Keertana Venkatesh had presented her paper on the topic of cyber security policy for outer space, where she highlighted the need, challenges and recommendations for the same. Mr. Sudarshan BK & Ms. Bhumika SR had presented on the space debris, Ms. Ishitha Das presented on the Legal Challenges Relating to Mining of the Lunar Resources. Through online video conference call, Dr. PJ Blount had presented on Cybersecurity and Space law, while Ms. Vani Kaushik presented on whether there is a need to revisit the registration convention and the last presentation was made by Ms. Paniz Bahmani on International Law on cyber terrorism in outer space.



SESSION-6: WOMEN IN TRANSPORT

Session-6 was themed as women in Transport and is moderated by Ms. Priya Iyengar, Partner, Compass Law Associates. The session was convened with the objective to know and address the role of women in the transport sector. This is so because the transport industry is undergoing changes driven by technology and ever-increasing need for sustainable solutions. So are the job qualifications and skills needed. This session address how can we make sure supply and demand meet? The session answered this by concluding and fostering a more inclusive and gender balanced workforce will address the supply and demand of the professional irrespective of gender. The aim of this session is to increase the visibility of women in the transport sector and their representation at all working levels.

The session had raised and addressed the issues on views of diversity at workplace and its impact on productivity, cultural inclusiveness, real issues in employment of women in transport industry, role and impact of technology on women in transport, initiatives taken by the Government to empower women and encourage their participation in transport sector, pay gaps on gender basis and the participation of women in the development of transport sector.

The panel members who addressed the above questions are Ms. Anuradha Reddy, Aviation Historian, INTACH Telangana, Capt. Mamatha, Executive Director, Flytech Aviation, Ms. Neelu Khatri, Managing Director, BluOrange Synergies.

Ms. Anuradha Reddy had retrace the birth and development of the aviation industry in India and the role of women in its development. Capt. Mamatha had addressed the issues relating to the Women in aviation transport. She also quoted that “Gender equality cannot be achieved without men. There are no female values or male values. Just Human values”. Wing commander Nellu Khatri had addressed the issues and challenged faced by women in Air force. She had talked about her experience as women in various organizations and the Indian Air force itself. She shared her experience in the Indian Air force.



SESSION-7: NEW AND EMERGING LEGAL AND POLICY ISSUES IN AVIATION SECTOR

New and Emerging Legal and Policy Issues in Aviation Sector is the theme of the session-7, which concluded the 2 day Conference. It addressed the issues relating to the aviation industry from industry perspective. It deals how the Aviation industry from a technology standpoint has evolved and brought forth the growing concerns from a legal, regulatory and policy level that needs to be addressed by the industry or by the government to ensure the airlines, the airports and the consumers are protected and there is a healthy competition in the market.

The speakers of this session are Mr. Vikrant Pachnanda, Advocate at Pachnanda Law Offices, Dr. Aisha Sharfi, Asst. Professor, Head of Centre for Commercial Laws, Alliance University, Mr. Syed Tamjeed Ahmad, Aerospace Lawyer at Sarin & Co, Ms. Priya Iyengar, Partner, Compass Law Associates, Mr. Kushank Sindhu, Partner, Sigma Chambers Advocates and Solicitors, Mr. Kishore Kumar Maley, Founder, Aeromate.

Mr. Vikrant Pachnanda had highlighted the Warsaw convention and said it was, only proof of the accident and not negligence which is required to be shown to compensate the injured passengers without evidence. He also highlighted the need for strict implementation of laws towards the unruly passengers. Dr. Aisha Sharfi had addressed the environmental issues due to frequent flyers and aviation sector. Mr. Syed Tamjeed discussed on the Export of Aircrafts from India in Legal and Practical Perspective. He said that the leasing of Aircrafts is not easy and thus is hindering the development of the aviation sector. He also highlighted the Conflict between aircraft rules and Customs acts. Ms. Priya Iyengar discussed about the Competition law and Aviation Sector. Mr. Kishore Kumar Maley had emphasised on how the growth of Aviation industry helps other transport sectors.



KEYNOTE SPEAKERS PROFILE

Mr. GBS Raju

G B S Raju is the Chairman and Director of GMR Aerotech. He has played a major role in GMR's foray into the Airport Sector, with the development of Hyderabad, Delhi and Istanbul Airports, and recently winning Cebu Airport (Phillipines) and Mopa Greenfield Airport (Goa). He is also one the Group Directors for GMR Infrastructure and GMR Varalakshmi Foundation, the CSR Arm of the GMR Group.



Padma Shree, Dr. Y.S. Rajan

Padma Shree Dr. Y S Rajan is an Honorary Distinguished Professor in the Indian Space Research Organisation, and has held various positions including Member of International Academy of Astronautics, Vice-Chancellor in Punjab Technical University, Chairman of the Board in Nalanda University and Adjunct Professor in Birla Institute of Technology & Science (BITS), Pilani. He has co-authored the path-breaking book India 2020: A Vision for the New Millennium along with A P J Abdul Kalam. He was awarded Padma Shri for his contribution in Science and Engineering in 2012.

Mr. T. Krishna Prasad

T. Krishna Prasad is the DGP and the Chairman of the Road Safety Authority of Telangana. He specialises in Sustainable Urban Mobility and Smart Cities. He has had three decades of experience in Infrastructure Development in Ports, Airports, Rail Road, BRTS, Metro and Industrial Clusters.

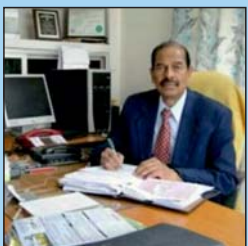
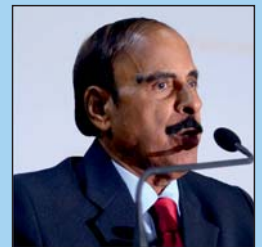


Justice A. Muhamed Mustaque

Justice A Muhamed Mustaque is the Judge of the Kerala High Court, Ernakulam. He has obtained his Post-Graduation from Paris XI University in Space and Telecommunication Law and had studied a Private International Law Course from The Hague Academy of International Law. He is a member of the International Institute of Space Law and the Indian Society of International Law.

Prof (Dr.) PCK. Ravindran

Prof (Dr.) PCK. Ravindran is a Flier, Aeronautical Engineer, International Aviation Management Expert, Aviation Law Specialist and a leading international aviation / Air Transport Expert, ICAO. He has over four decades of continuous hands-on experience in all facets of aviation management-airport, airline and aerospace. He has held top level positions/Board level assignments in Airport Authority and Airlines and Civil Aviation Regulatory Authorities. He is a member of several international Committees on Aviation. He is the Chairman, Institute of Applied Aviation Management (IAAM), India with international centers, imparting higher level aviation education Courses. He is the Chairman, Institute of Applied Aviation Management (IAAM), India with international centers, imparting higher level aviation education courses. His latest books include Commercial Management – Aviation Trends and Challenges and Airport Management: World Class and Beyond.



Capt. S.N. Reddy

He is Principal Secretary & C.E.O. of Telangana State Aviation Academy. He was Flying Instructor/DGCA Examiner on HS 748, BOIENG 737 and AIRBUS A300, as a result most of the Sr. Pilots in India have been trained by him. He Worked as G.M (Operations & Training); Director Flight Safety, Director Operations; Regional Director Indian Airlines/Air India. He has more than 25, 000 hours of flying experience. He was Aviation Advisor and Special Secretary to Government of Andhra Pradesh.

SPEAKERS PROFILE

Dr. Kumar Abhijeet

Dr. Kumar Abhijeet completed his doctoral studies in space law from the Institute of Air and Space Law, University of Cologne, Germany. He is currently a Legal Officer at the Ministry of External Affairs. He participated in Workshop on space law conducted by the Hague Academy of International Law. Dr. Abhijeet is also an alumina of International Visitors Leadership Programme (IVLP) – A U.S. Government premier professional exchange program for emerging international opinion leaders and was invited to visit many of the top United States governmental and non-governmental institutions related to outer space including NASA. His latest book is *National Space Legislation for India* published by Springer. He presented his paper for three consecutive times in the prestigious International Astronautical Congress. He had the privilege to be the only invited speaker from India in the First United Nations Conference (2018) on Space Law and Policy held in Moscow, Russia. He is a member of the International Institute of Space Law (IISL), Paris.



Mr. Sridhara Murthi

Sridhara Murthi is the Director of International Institute of Aerospace Engineering and Management, Jain University, Bangalore. He has managed Antrix Corporation to outstanding success. He is an expert in Space Policy and International Space Law with high level experience in the Boards of International Academy of Astronautics, International Institute of Space Law and International Astronautical Federation. He has experience in promoting international collaborations and represented in the United Nations Committee on Peaceful Uses of Outer Space.

Mr. Charles Stotler

Charles Stotler is an Associate Director of the LL.M. Program in Air and Space Law and Research Counsel to the National Center for Remote Sensing, Air and Space Law. He teaches courses on air and space law, serves as faculty advisor to students participating in the Manfred Lachs Space Law Moot Court Competition and advises students on LL.M. theses. His research focuses on the effects of the fragmentation of international law on aerospace governance and on rule of law for outer space activities.

Mr. Stotler also advises a broad array of clients on law, policy and regulatory issues, both independently as well as in support of the work of Aviation Advocacy, a Swiss-based consultancy. He focuses on activities and technologies that push policy and regulatory boundaries, such as unmanned aircraft systems and novel uses of space applications.

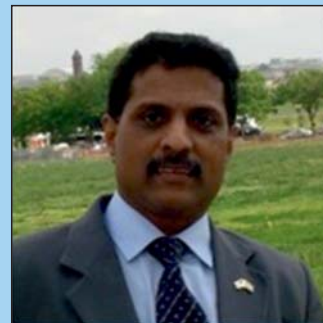


Mr. Ashok G.V.

Ashok G.V., is a Partner with Factum Law, Bengaluru, India. As an attorney, he specialises in Commercial disputes representing clients from aerospace, healthcare, manufacturing, remote sensing and technology industries in Intellectual Property, Taxation and Company. He advises space technology companies on SATCOM regulations and remote sensing regulations amongst other things. He is a member of the International Advisory Council of the International Academy of Space Law, an organisation which is engaged in promoting the peaceful use of outer space and has delivered talks at the Kalpana Chawla Annual Space Policy Dialogue and the Asia Pacific Satellite Communications Council's conference on space policy and regulations. Ashok has also authored several papers and articles on the subject of regulating commercial space activities, responsible use of space, privacy concerns surrounding remote sensing data mining and legal issues in space sustainability.

Mr. V. Gopalakrishnan

V. Gopalakrishnan is a Policy Analyst (Space Law & Policy) with the Indian Space Research Organisation (ISRO), Bangalore. His professional experience of over twenty-five years at the ISRO includes a good blend of techno-managerial and legal aspects pertaining to satellite projects and international cooperation in outer space activities. He has been a member of the Indian delegation to Legal Sub Committee meetings of UNCOPUOS (the United Nations Committee on the Peaceful Uses of Outer Space), and has participated in international consultations on the 'UNIDROIT Space Assets Protocol', a Code of Conduct for the long-term sustainability of outer space activities, legal aspects of space security, legal aspects of space debris management, etc. He is also a Fellow of the Institution of Engineers (India) and member of International Institute of Space Law.



Dr. Benarji Chakka

Benarji Chakka is the Associate Dean at Alliance School of Law and has graduated from Andhra University, with B.A.L and LL.B degrees. He has published research articles and three books in the field of International Humanitarian Law and International Aviation and Space Law. He was associated as a judge with Manfred Lachs International Space Law Moot Court Competition for Asia-Pacific Round. He is an Executive Council member of the Indian Society of International Law, member of the European Society of International Law. He has written a book called “Settlement of Commercial Disputes in International Air Transport: A Legal Study” Published by LAP LAMBERT Academic Publishing.

Mr. Andrew Charlton

Andrew Charlton is the managing director of Aviation Advocacy, an independent air transport focused strategic consulting and government affairs consultancy based in Switzerland, with an office in Brussels. It was established in 2006. Andrew has wide-ranging experience in the legal, commercial and aero-political aspects of all parts of the aviation industry. He has been involved in some of the most major developments in the industry. Previously, Andrew was the Chief Legal Officer of Qantas Airways before being responsible for Government Affairs for IATA and then SITa.



Mr. Ravi Kini

Ravi Kini has significant experience in the aviation sector has led him to advise on ground-handling issues across a number of airports. His experience extends to advising bodies, such as IATA, on Competition Law issues. He has also represented Air India Express before the Court of Inquiry into the cause of the accident at Mangalore Airport in May 2010. His extensive experience includes advising India's national carrier. He negotiated and drafted the contracts for the leading aviation company's purchase of 68 commercial aircrafts from Boeing, in a US\$7 billion deal. He also assisted in the formation of its low-cost subsidiary, Air India Express. He regularly drafts and vets aircraft leasing agreements.

Mr. Sagar Singamsetty

Indian born Dutch national, Sagar Singamsetty pursued his undergraduate legal studies at NALSAR University of Law, Hyderabad, India. After graduation from NALSAR in 2003, Sagar practiced law for a year in Hyderabad. In August 2004, Sagar was awarded a Huygens Scholarship by the Netherlands government to pursue graduate studies (LL.M) in air and space law at the University of Leiden, The Netherlands. He graduated in his Master's degree course with a Cum laude (Honors degree) in January 2006. Upon his graduation, he joined AerCap Aviation Solutions B.V. (In the Netherlands), as their Manager, Contracts dept., for Asia Pacific region. Later, Sagar got the opportunity to further broaden his legal and regulatory skills by joining TNT Express as their Legal Counsel in 2008. In March 2013, Sagar moved to FedEx Express, as their Senior International Legal Advisor. Currently, he is working at Amazon Europe where he is a Senior Transport Policy Advisor based in Brussels, Belgium. His focus areas are the following: General Aviation Law; Aviation Security; (EU) Customs Law, General transport (Multimodal law) and logistics; E-commerce, international contract negotiations and Regulatory compliance. In 2011, Sagar as Chief-Editor had published a compilation of articles on air and space law – book titled as 'Contemporary Issues and Future Challenges in Air and Space law'. He currently resides in Brussels, Belgium with his wife (who is also a Nalsarite).



Dr. Akhil Prasad

Dr. Akhil Prasad is Director, Country Counsel India and Company Secretary with Boeing India and is based at New Delhi. Akhil has worked across various industries in the area of legal, risk and compliance, taxation, regulatory and corporate affairs. He has worked for Steel, Office Automation, Computer Hardware, Media & Entertainment, IT/ITES, Private Equity, Mutual Funds and now Aerospace and Defence. Akhil has been nominated to the Corporate Law Committee of the Federation of Indian Chambers of Commerce and Industry. Akhil is a visiting faculty with the National Law University – Delhi and Jodhpur. Akhil is the Vice – Chairman and an Advisory Board member to the Corporate Counsel Committee of the International Bar Association. He is an avid speaker and has participated in seminars in India and outside (Boston, Dubai, London, Madrid, Paris, Singapore, New York, Tokyo, Vancouver, & Vienna).

Mr. Syed Tamjeed

Syed Tamjeed is an Aerospace Lawyer at Sarin & Co. He holds an advanced LLM degree in Air & Space Law from Leiden University. He was a former Erasmus Mandamus Trainee with Boeing and is interested in Space law, Regulation of Drones & Autonomous System in Aviation and Chemical Regulations in Aviation amongst other things.



Ms. Neelu Khatri

Neelu Khatri is currently leading BluOrange Synergies, which works with a French Company in expanding the India Operations for Defence and Aerospace and has a Nuclear and Space Programme Participation. She was worked in Honeywell Presidential, which dealt with Aerospace, Defence and Space Business. She Worked with Defence Research Development Organisation Dr Sathesh Reddy to introduce Inertial Navigation technology from Honeywell. Neelu was from the first batch of lady officerws ever inducted in the Indian Air Force and was also the first to rise to the position of Wing Commander. She has written many books which include “Opportunities in the Indian Defence Sector” and “Unlocking the Potential – The Indian Aerospace and Defence Sector”.

Mr. Pradeep Panicker

Mr. Pradeep Panicker is the Deputy Chief Executive Officer of GMR Hyderabad International Airport Ltd. Prior to joining GHIAL, he has held various portfolios at GMR Delhi International Airport. Mr. Panicker has been one of the key members of the successful team that won the bid for modernization of Indira Gandhi International Airport (IGIA), New Delhi and its takeover. He is the Founder President of Air Cargo Forum India (ACFI), a not for profit association that offers a common platform to the air cargo community. He has presented insightful papers and shared his knowledge at various conferences including those of Aerodrome India, Indo-US Aviation, British Airport Group, Air Cargo Agents Association of India, and so on. He is an in-house faculty who has been instrumental in developing and delivering various training programs related not only to Aviation but also Management.



Mr. Manu Kulkarni

Manu Kulkarni is a third-generation lawyer; and the head of Dispute Resolution Practice and Partner at Poovayya & Co. He has significant experience in dispute resolution with a special focus on regulatory litigation.

He specializes in Regulatory Litigation and Policy with a focus on disputes in the aviation, ports and electricity sectors. He has about a decade's experience in the aviation regulatory sector, i.e. more or less from the time Airports Economic Regulatory Authority commenced the tariff determination exercise in the country and from the time the first set of appeals were filed before the then Airports Economic Regulatory Authority Appellate Tribunal regarding the broad policy framework laid down by Airports Economic Regulatory Authority.

Ms. Ramya Sankaran

Ramya Sankaran has pursued Masters in Air and Space Law from McGill University, Canada, and joined Gagrats, Advocates & Solicitors, a tier I aviation law firm in Mumbai, India, in the year 2013. With over 6 years of experience as a transactional lawyer, she has expertise working in the aviation, corporate, commercial, banking and finance sectors, involving cross-border as well as domestic transactions. On the aviation sphere, she is proficient in transactions involving acquisition, sale, leasing and financing of aircraft and allied equipment, trading in airport slots, commercial co-operation of airlines (code-sharing, joint venture, etc), investment in aviation sector and regulatory compliance.



Mr. Zon Edamuttath

Zon Edamuttath is the Asst. Vice President, Security & Landside Operations, Mumbai International Airport Limited. He started his career with Indian Para Military Force and was deployed at CSMI Airport, Mumbai from 2002. He has 18 years of extensive aviation experience in various fields and embraced the core values of integrity, innovation & growth with wide variety of practical application, he has implemented airport security CONOPS for throughput enhancement at security check point with best of breed emerging technologies.

Dr. George Moses

Dr. George Moses is the Director (Legal) at Airports Economic Regulatory Authority (AERA). He is a certified airport professional with a demonstrated history of working in the aviation industry. He is skilled in litigation management, Air and Space Law, Aeronautical Communication and Navigation equipment and Airport management. He is an experienced guest/visiting faculty in Air and Space law with a Doctor of Philosophy (Ph.D.) focused in Air and Space Law from Leiden University.



Mr. Carlo Maasbommel

Carlo Maasbommel is the Vice President International Business Development at PAL-V since 2017, whose goal is to design a roadable aircraft. He is a specialist in forming incorporations for high net worth individuals and offshore constructions worldwide.

Mr. Pawan Mulukutla

Pawan Mulukutla is the Head of Urban Mobility at Bosch India. He focuses on a Develop and steer a strategy for the Urban Mobility work stream to deliver business solutions and develops and lead research on urban mobility, including good practice, lessons learned, enabling conditions, and additional sub-topics of high value. His area of expertise is Integrated public transport, walking & cycling, road safety, transport demand management, air-quality, new sustainable mobility and mobility planning.



Ms. Vinita Varghese

Vinita Varghese is the Senior Legal Counsel at OLA, and manages the core operations there. She is a corporate commercial lawyer with 8+ years of experience, including more than a year of in house experience in a tech company, 3+years of dispute resolution experience as well as more than a year of capital markets and debt restructuring. With a keen interest in education and community programs, she has undertaken pro bono work with legal aid centres and contributed to fund-raising efforts for charities helping underprivileged women and children.

Mr. Rajaram Surianarayanan

Rajaram Surianarayanan is a Lawyer, graduating from Campus Law Centre, Faculty of Law, University of Delhi in 2018. He currently works in the Policy & Government Partnerships team at Bounce- a 2-Wheeler ride sharing company, which currently operates in Bangalore & Hyderabad. At Bounce, he works on policy advocacy, business expansion and regulatory affairs. Prior to Bounce, he worked in the Office of Smt. Kalvakuntla Kavitha, Hon'ble Member of Parliament (L.S)-Nizamabad Constituency (2014-19) and undertook legal training from Shri. Devadatt Kamat, Senior Advocate, Supreme Court of India.



Mr. Pinaki Nandan

Pinaki Nandan is the Head of the Centre for Management Studies at the NALSAR University. He has experimented with teaching-learning techniques such as ideation labs, setting up an incubation centre, etc. He has completed his MBA from the Edwards School of Commerce, University of Saskatchewan, Canada.



Wing Commander Amit Garg (Retired)

Wing Commander Amit Garg (Retired) served the Indian Air Force for nearly 22 years as a helicopter pilot and instructor. During this career he enjoyed flying all over the Himalayas including in the world's highest battlefield in the Siachen Glacier. Thereafter, since May 2014, he has been working as a Senior Flight Operations Inspector in the Directorate General of Civil Aviation (DGCA) where he has been very closely drafting aviation regulations. He is an alumnus of the National Defence Academy, the Defence Services Staff College and CADL, NALSAR from where he obtained his Master's degree in Aviation Law and Air Transport Management in 2017. He carries on with his passion for sharing knowledge and conducts Aviation and Law training for newly inducted Flight Operations Inspectors in DGCA. Recently he has been inducted into the DGCA's core team for drafting regulations pertaining to the operation of UAS. He firmly believes that air operations, especially, low level and limited range aviation operations are set for a paradigm shift in

the very near future.

Mr. James Jordan

James Jordan is a Senior Associate at international law firm, HFW. Has ten years' experience in advising the aviation and aerospace sectors. He acts for some of the largest airlines in Asia (including India) on a range of commercial, corporate, litigious and regulatory matters. He has handled some of the region's most significant aviation accidents on behalf of operators and their insurers. He is a specialist in emerging technologies. He has been named one of Singapore's 20 most influential lawyers under 40 by Singapore Business Review in December 2019.



Air Commodore A Suresh Kumar

Air Commodore Aketi Suresh Kumar, is an alumnus of National Defence Academy and was commissioned as a Fighter Pilot in the IAF on 17 Dec 1988. He is a graduate of the Defence Services Staff College and Army War College, MHOW. He has flown Hunter, MiG-23 BN and MiG-27 aircraft, indigenous Lakshya RPV, the Heron and Searcher recce RPAs and mini UAVs. He has more than 2500 hrs on fighters and Remotely Piloted Air craft (UAVs). He Commanded a RPA Squadron, served as a Joint Director RPA (Operations) and as a Director in the Directorate of Air Staff Requirement at Air HQ during which he was involved in co-ordinating the acquisition and up gradation of RPA systems and other combat systems as per the perspective plans of the IAF. He Commanded a C-130 Base and currently the co-ordinator for R&D activities of combat systems.

Prof (Dr.) G.S. Sachdeva

Prof (Dr.) G.S. Sachdeva is one of the pioneer-scholars in India in the field of Air and Space Law for over three decades. He is currently Adjunct Professor, NALSAR University of Law, Hyderabad. He is Visiting Faculty for the WB National University of Juridical Sciences, Kolkata. He pursued his post-Doctoral studies in Air and Space Law at Indian Society of International Law, New Delhi. He has written extensively in professional law journals in India and abroad and has contributed chapters in over twenty edited books. He is the author of four books on Space Law, two books on Air Law and had circulated a Monograph on “Space Tourism—Industry of the Twenty First Century” in 1999. He is National Panellist for Drafting of Space Legislation for India (Space Activities Act). He is on the Advisory/Editorial Boards of several Law Journals in India and abroad. He has also been selected as Member of Study Group 3.26 of International Academy of Astronautics, (IAA) Paris.

**Ms. Sheena Rajpal**

Sheena Rajpal is from the Law College of Dehradun and is pursuing her B.B.A.LL.B (Hons.). Her career objective is to become a legal adviser and prove as an asset to the organization by fulfilling individual and organisational goals. She has been a Member of Eco Club of her college, and is a volunteer of Make a Difference NGO.

Ms. Sameera Kagita

Sameera Kagita is a fifth year BBA.LL.B (Hons.) student from Law College Dehradun, Uttaranchal University. She has had a keen interest in Space Law and Commercial Laws and wishes to pursue a career as a lawyer in a law firm.

**Mr. Sudarshan B.K**

Sudarshan B.K. is pursuing B.A. LL.B (3rd year) at the Ramaiah College of Law, Bangalore and is currently a member of its' Moot Court Society. He has completed a certified course organised by International Centre for Culture and Education with an 'A' grade. He has participated in a few article and essay writing competitions, namely 'Vidhi Aagaz' by Pen Acclaims, the NLSIU IPR Technology Law Essay Competition and the Birla School of Law's essay competition. He has interned with an NGO, 'Yuva Bengaluru' and also a litigation internship at the chambers of M.S. Bhagwat and Associates for 2 months.

Ms. Bhumika S.R

Bhumika S.R.. is pursuing B.A. LL.B (3rd year) at Ramaiah College of Law, Bangalore. She has participated in intra- college moots. She has interned with an NGO, 'Sambhav Foundation' and also at 'Dua Associates' Bangalore and a litigation internship at the chambers of M S Bhagwat and associates.



Ms. Keertana Venkatesh

Keertana Venkatesh is an undergraduate student of law at Gujarat National Law University. She has participated in the 2018 Manfred Lachs Space Law Moot Court Competition, where her team was adjudged as the Winner of the ISRO National Funding Rounds and Runners-Up of the Asia-Pacific Regional Final. She received the 2018 International Institute of Space Law (IISL) Young Scholars Award for being adjudged as the Best Oralist for the Final and Preliminary Rounds of the Asia-Pacific Regional Rounds. Her interest lies in public international law, international space law and humanitarian law.

**Ms. Ishita Das**

Ms. Ishita Das has completed her undergraduate training from National Law University, Jodhpur, and has pursued LL.M. from The W.B. National University of Juridical Sciences, Kolkata. Prior to starting her post-graduate education, she worked in the legal services industry for 2 years in Delhi. Later on, she decided to utilize her legal training and exposure to the public sector to teach the next generations of law students at National Law University and Judicial Academy, Assam, wherein she taught courses such as Cyber Law. She is currently slated to pursue PhD from the NALSAR University of Law, Hyderabad, in the areas of International Space Law and Cyber Law.

Ms. Paniz Bahmani

Paniz Bahmani is doing her Post-Graduate from the Allameh Tabatabai' University in Master of International Law. She is a Research Assistant and a Teacher Assistant in a course for Space Law for Communication M.A. Students) and is a Researcher at Aramesh Shahbazi Law Firm.

**Ms. Vani Kaushik**

Vani Kaushik is a 4th year student, B.A. LL.B. (Hons.) from The West Bengal National University of Juridical Sciences (NUJS), Kolkata. She has interned at Tier 1 law firms such as Shardul Amarchand Mangaldas, Khaitan and Co., Luthra and Luthra Partners. She had qualified for the quarterfinalist at the World Rounds of the 17th Edition of the John H. Jackson Moot Court Competition, 2018-19 and Runners Up in the Asia Pacific Round of the John H. Jackson Moot Court Competition, 2018-19.

Dr P.J. Blount

Dr P.J. Blount is a Research Fellow in Cybersecurity Governance and Regulation at SES and the Department of Law, University of Luxembourg. This position and his research is made possible by an Industrial Fellowship from Luxembourg National Research Fund. He also serves as an adjunct professor in the LL.M in the Air and Space Law at the University of Mississippi School of Law. Previously, he served as Research Counsel for the National Center for Remote Sensing, Air, and Space Law at the University of Mississippi School of Law; an adjunct professor at New Jersey City University, and as a Visiting Scholar at the Beijing Institute of Technology School of Law. His teaching includes courses such Space Security Law, International Telecommunications Law and Cyberlaw. His primary research areas are legal issues related to space security and cyberspace governance. He has published and presented widely on the topic of space security law and has given expert testimony on space traffic management before the U.S. House of Representatives Subcommittee on Space. Blount serves as the co-editor-in-chief of the Proceedings of the IISL; as a former editor-in-chief of the Journal of Space Law; and as an editorial board member of the Journal of Astrosociology. Additionally, he serves on the Board of Directors of the International Institute of Space Law.



Mr. Chinmoy Roy

Chinmoy Roy, after completing his Bachelor of Laws (LLB) from the National University of Study and Research in Law, Ranchi in the year 2015, started his career with Saha & Ray Advocates, Kolkata. After a brief stint there, he started practising in Delhi High Court as an advocate for about two years. It was during this time that he developed an affinity towards the potential larger impact that can be made by being in government service. Subsequently, he got selected to serve in the legal department of Antrix Corporation Limited, the commercial arm of Indian Space Research Organisation, where he is serving currently in the capacity of Junior Legal Officer. Having developed an academic inclination towards space law, he is actively involved in research and allied aspects of space law. He is also pursuing M.A. (Security and Defence Laws) with the Centre for Aerospace and Defence Laws of the NALSAR University of Law, Hyderabad.



Ms. Poorvi Kantroo

Poorvi has been an active member of the Centre for Aerospace and defence since its nascent stage in 2010, during her LLM days in 2010. Under the stewardship of Dr. Balakista Reddy (her mentor and thesis supervisor), she has assisted in organizing several international and national conferences and moot courts on various contemporary facets of air and space law. She has been an associate editor for Centre for Air and Space Law Journal and newsletter. On request from IISL, she has also been a judge at the prestigious Manfred Lachs Moot Court Competition 2015. Previously, she headed the legal team at Aryavarta Space organization, a growing civil sector Space Research Organization, (officially registered as a Non-Government Organization), and directed a team of professionals and interns.

Ms. Anuradha Pingle Reddy

Anuradha Pingle Reddy is a Hyderabad based Aviation Historian and has written a book called Aviation in the Hyderabad Dominions. She has been awarded the 2019 Aero India Bangalore Award for Aviation History.



Captain Mamatha

Captain Mamatha is the Executive Director and the first lady Chief Flying Instructor at the Flytech Aviation Academy in Hyderabad. Her ambition was to be a doctor, however, she applied to the AP Flying Club (now AP Aviation Academy). Normally, it takes a student about one year to get a 'pilot's license' but she applied and got the license permission in 1995 after two years of sustained negotiations. Today, Flytech Aviation Academy is spread over 275 acres at Vanasthalipuram and shows an annual turnover of Rs 2 crore. It has 300 students and 60 staffers and boasts of 10 Cessna and Beach Barron aircraft for training.

Ms. Priya Iyengar

Ms. Priya Iyengar is a Founding Partner of Compass Law Associates. She specializes in Corporate Law, Industrial & Labour Laws with Strategic IR & HR Management and Aviation Law. She has over seventeen years of experience in Formation of Companies, Corporate Reorganization and Reconstruction, Joint Ventures, Shareholder Agreement, Statutory filings under Company Laws, Merger & Acquisitions, Labor and Employment Laws Statutory Compliance, International Commercial Arbitration, Conflict Analysis, Management, and Resolution.



Mr. Vikrant Pachnanda

Mr. Vikrant Pachnanda pursued an integrated degree in law and arts from Gujarat National Law University (GNLU), Gandhinagar focusing on international investment arbitration and aviation law. He is the Founder and Managing Editor of India Law Journal which he founded as a law student in 2008. He was also one of the Founders and Student Managing Editors of the GNLU Journal for Law, Development and Politics. Post graduating from GNLU in 2011, Mr. Pachnanda joined Luthra & Luthra Law Offices in Delhi. In 2012, he joined the chambers of Mr. Najmi Waziri, Chief Counsel for the Delhi Government during the subsequent year and trained under him till his elevation as an Hon'ble Judge of the Delhi High Court in April 2013. Thereafter, he pursued his LLM from Cornell Law School. Mr. Pachnanda has authored several articles that have been published in various journals including the Asialaw IP Review and the Asian Yearbook of International Law. He represented GNLU, which was the only Indian university selected to represent India at the International Negotiation Competition on Climate Change, to negotiate a proposed Copenhagen Protocol in Copenhagen in 2009.



Dr. Aisha Sharfi

Dr. Aisha Sharfi is a PhD from the West Bengal National University of Juridical Sciences (WBNUJS), Kolkata. An alumni from the prestigious WBNUJS, Dr. Aisha worked on legal regulations surrounding financing of aircrafts under Cape Town Convention for her PhD thesis. One of her primary interest areas is air and space law, exploring regulations concerning satellite telecommunication services as part of her LL.M thesis. Prior to moving to Bengaluru in 2016 and joining Alliance University, Dr. Aisha served for three years at the Ford Foundation Centre for Human Rights and Citizenship Studies at WBNUJS, exploring the intricacies of various aspects of protections of human rights through law. Dr. Aisha has been involved with the National Disaster Management Authority, preparing a compendium of laws on disaster management. Her areas of interest include corporate law including corporate social responsibility and corporate governance, law and technology and air and space law.

Mr. Kushank Sindhu

Kushank Sindhu is presently an Independent Law Practitioner and has in the past worked with L&L Partners Law Officers, Chambers of A.D.N.Rao Chambers and in the Corporate Legal Group of ICICI Bank. His article titled “Land Acquisition and Allied Issues in Airport Construction”, has been confirmed for publication by NALSAR University of Law in “Compendium on Civil Aviation Regulations in India.”



Mr. Kishore Kumar Maley

An alumnus of both IIM Bangalore and Toulouse Business School in France, Kishore Kumar Maley is a seasoned aerospace professional with over 16 Years of diverse experience at both national and international level. Two decades of education and rich experience of handling responsibilities in different roles in Airline/MRO sector and Aerospace and Aviation IT Sector has helped him to understand the need of the hour in Aerospace and Aviation ecosystem.

1. Padma Shree Dr. Y.S. Rajan, Eminent Scientist of ISRO. While talking about the future of the Space Industry, he said that the Space industry is growing very fast and it is envisaged that in the next 14 years there will be launch of around 20,000 satellites. It has also got military dimension as the question of public sector, private sector, civilians have got intertwined and the challenge is the security; so if India wants to be a big player in the Space Industry, strategic cooperation is necessary. When asked about whether privatization will lead to commercialization of research in the space sector, he said “industries play a very important role in any sector. The commercialization is instrumental for any activity.” When speaking about his association with ex-president Dr. APJ Abdul Kalam, and the book Mission reach, beyond 2020, he said that “it started back in 1965, and the book was not only an individual effort but the labour of around 500 people from different industries coming together.” With regards to sustainability and contribution of the space industry in terms of environmental pollution he said that “the environmental issues need to be addressed seriously and needs to be seen as to what we have. The pollution by the space industry is very small compared to what is caused by nuclear activities, carbon etc.”



2. Justice A. Muhamed Mustaque, Sitting judge of Kerala High Court. He said that “this kind of conference is the need of the hour. India does not have a robust legal regime of policies to advance space innovations and aviation transport, so it is looking for its future developments in many other industries which are underdeveloped. India is becoming a space faring country and private players are also entering the market, hence there is a need to have a legal regime which should support the business and in that context the conference is really helpful in convergence of policy makers' mind and the requirement of people of the industry.” Upon the question of what kind of reforms we can expect in the future, he said that “we need a law instead of a policy to regulate the industry.” When asked about what kind of reformations are expected with introduction of technologies like automation, AI in Indian Judiciary in navigation of justice, he said that “law supports the use of Satellite data evidence in Courts and the introduction of AI can also help in transforming the justice system not only in improving infrastructure but also to expedite the judicial process and also to make the justice system more effective and efficient. The biggest challenge that Indian Judiciary faces is the cost and delay which can be done away with introduction of new emerging Technologies in the judiciary system.”



3. Capt. S.N. Reddy, Former Aviation advisor to Andhra Pradesh, Presently, he is the Principal Secretary and Chief Executive Officer to the Telangana State Aviation Academy: He spoke about a few challenges in the aviation transportation sector. He said that in order to make the air transport safe, we need to adopt certain measures. The measures should include setting up of safe aircrafts and airports with modern equipments, the pilots need to be trained to use such modern equipments. Speaking about infrastructure and security of airports, he emphasized that in order to maintain security there has to be high sensitive detectors and scanning machines so as to detect a small pin or explosives and the hand baggage has to be scanned very carefully and systemically to avoid any accidents to the aircrafts. He also said that the Telangana govt. has taken initiatives to advance the industry. The Govt. is also encouraging the participation in aerospace and defence industry in order to do so and so far Mahendra and TATA have come to manufacture the parts of helicopter which will be supplied to the defence sector for civil aviation. He also spoke about aircrafts maintenance engineering and the challenges attached to that. He further said that the pilots shall be given training as per the DGCA and ICAO Guidelines.



4. Dr. P.C.K Ravindran, Policy advisor of ICAO and UAE- Dr. Ravindran had spoken about air transport management system. He had highlighted a few issues in the sector. While addressing the issues, he said that a balanced approach has to be adopted in terms of quality of manpower, policy, regulations and the managerial aspects. As further advancement takes place, the biggest challenge we face is to get the right personnel to do the right job. He also pointed out that there is a shortage of skilled manpower hence there is a need to improve the situation in order to move forward. Speaking about what kinds of reforms are needed, he said that continuous monitoring in a balanced manner with a professional approach and has to be adopted. He also said that India should follow the example of Dubai airport in terms of infrastructure and should be used as a role model for India. When asked about the impact of new emerging technologies, he said that certain levels like common area of activities can be turned over to AI. The peripheral jobs can be converted to AI.



5. Dr. Kumar Abhijeet, Former Professor of NLSIU, Bangalore and author of National Space legislation for India. Speaking about his book back in 2013, when he presented a proposal for his doctoral program, the space activities were quite popular in India which has inspired him to do research on whether a space legislation would be required in India to regulate space activities in future. He said that the book focuses on the need for national legislation. When we talk about legislation, it is largely to address the need of the stakeholders depending upon the kind of activity that we are trying to regulate. In Indian context, we are trying to regulate an activity which takes place in the global community, where India is trying to engage a private party to take up an activity in outer space and in situations where the state comes in between the two activities, which has to bear the liability is in question. India's liability in this context would be to authorize any non-govt. activities. The book talks about the best approach suitable for India and also addresses the fact that it can be done by way of legislation which will provide stability. It addresses all the concerns of all the stakeholders, international community, state and private entities. Although there is no necessity of national space legislation but it acts as a tool to authorize and supervise. The legislation provides for transparency rather than by contract, tender or license. Talking about the future of space industry in India, he said that India has a very bright future as we are engaged in activities such as remote sensing, satellite launching, satellite navigation which are very important for the space industry.



6. Ms. Neelu Khatri, Managing Director of BluOrange Synergies and Former Wing Commander. While speaking about the importance of the conference, she said the University's role in brainstorming the current regulatory and policy affairs and changes that are needed to enhance the industry is instrumental. When asked about the future of the industry, she said that the past regulations and policies which brought about privatization and policies to help the private sectors have proven to be helpful in bringing the change in the industry. The operationalization of such policies is taking place in the present. We need to support the Govt. to bring in such policies and also need to further address the issues concerning taxation, customs imports, operationalization of policies and infrastructure. She also emphasized on the need to reform the MRO sector which is at a disadvantage.



7. **Mr. James Jordon**, senior associate, HFW. He spoke about air taxis and drones and he said that the conference is a great opportunity to engage in discussions about the industry and to see what the future holds for India in the transportation sector and to share the idea and opinions. About the regulatory challenges faced by India, he said that it will be very challenging to set up a mobility network both centrally or city by city. The private sectors in India are moving quickly as compared to the regulators. The regulations that are in place are outdated due to technology not only in India but worldwide. Hence there is a need to have the regulations to keep in pace with technological development.



8. **Mr. Rajaram**, Senior Manager of Policy Affairs in Bounce: Bounce is a ride sharing company based in Bangalore and also operates in Hyderabad. They are an application (app) based company and is designed to make personal mobility better. While speaking about the challenges faced from a regulatory point of view, he said that there are quite a few regulations that have to be followed, which sometimes affect the operation of the company. He also addressed the issue of obtaining licenses from all the state governments and for that the states had to adopt the central law. Speaking about the contribution of Bounce in the future of transportation, he said that Bounce believes that mobility is a fundamental right, hence, it is able to make the commuters get access to two wheelers. He also emphasized on the need for institutionalized support from central and state govt. He also said that the initiatives had been welcomed by various institutions such as IT parks and educational institutions. He said that the conference will help in discussing the issues by people who are involved in the mobility sector.



9. **Dr. Divya Tyagi**, Assistant Professor of GNLU and the Head of the Centre of Air and Space Law, GNLU. Recognizing the contribution of the conference, he said that only a very few Universities offer Air and Space Law, hence the number of such events are also very few in number. He appreciated the efforts of NALSAR in conceptualizing the conference and successfully organizing it. He also said that such conferences are instrumental in encouraging the interested students further. When asked about the sustainability of aerospace industry in India, he said that the aviation and space industry, especially the space industry is at a nascent stage and we need certain uniform and standardized norms to help the aviation and space industry to gain sustainability.



10. **Mr. Syed Tamjeed Ahmed**, Aviation lawyer in Sarin and Co in Delhi. While speaking about the future of the aviation industry, he said certain reforms are needed and in the future there is a chance to see some new players and also consolidation. When asked about the news of privatization of Air India, he said the biggest challenge has to be the issue of effective control. When asked about whether the substantive ownership is hindering the growth of the aviation sector, he said that it can be answered both positively and negatively because on one hand it supports the domestic industry and also on the other hand it affects mergers and acquisitions. He also talked about UDAN policy as an important development in the aviation sector. Speaking about environmental issues, the issue of climate change can never be mitigated but can be reduced. But at the same time the whole industry cannot be blamed. In the coming years it is going to pose the biggest challenge to industry. He also said that India needs at least two airports in the major cities and it will also create competitive advantage and if the prices are reduced then the final beneficiary will be the consumers. The advancements like bullet trains and high speed trains will also affect the industry. He also said that we need really good lawyers who can make sure that business can thrive in the legal manner and the conference will provide a platform to get to know people from the industries and lawyers who are working in the sector.



11. **Dr. Aisha Sharfi**, Asst. prof. Alliance University: Ms. Aisha spoke about environmental concerns of the aviation industry. She said that the conference had successfully presented a holistic approach of transportation in various sectors and was also able to generate awareness and create a lot of opinions. While speaking about her presentation she said that India is currently at an expansion spree and is now focusing on network, connectivity etc. India is at a nascent stage when it comes to the aviation sector and this is the right time to address the environmental concerns. Speaking about the recent developments, she pointed out that in 2019, the Indian Air force announced that for one of the aircrafts, they are switching over to biofuel instead of jet fuel. The role of ICAO has been instrumental in this regard. It has recently come up with a global database which is a network point to connect different companies, airlines, start-ups who are working in the field of bio-fuel and also came up with the regulations regarding noise emissions, carbon emissions,. She also highlighted the challenges such as the high cost of manufacturing biofuel and the production of biofuel is also very less as compared to jet fuel. Lastly, she said the role of universities in advancement of the industry is very important in creating interest in people and encouraging them.



12. **Ms. Keertana Venkatesh**: Ms. Venkatesh is the winner of the Dr. APJ Abdul Kalam Essay Competition. The topic of her essay was cyber security policy for Outer Space. She talked about the future challenges in the space sector. While speaking about the importance of the conference she said that the conference was a great way to generate ideas regarding the upcoming challenges in the space industry. She also highlighted the need for domestic laws and policies as well as international framework to govern or provide the minimum threshold for cyber security due to the vulnerability of space objects to cyber-attacks. Thus, her paper addresses and analyses the issues that might arise in the future and provides certain possible solutions for both the domestic and international level. She also said that there is a need to impose international regulations in the domestic legal framework so that the private actors can indemnify their stakes. When asked about how the challenges in the space industry can be addressed, she said, in order to strengthen the legal regime of the space industry, certain important steps can be taken such as adopting flexible definition, providing certain thresholds and imposing liability clauses within the domestic framework to hold private actors responsible irrespective of their signatures to the treaty. Other challenges such as space mining, mitigation of space debris are also important and need to be addressed.



13. **Ms. Ishita Das**, runner up of APJ Abdul Kalam Essay Competition. Speaking of the importance of the conference, she said that the conference played a very vital role in not only spreading awareness but also sparking up discussions about very relevant issues. She pointed out that while article of the Outer space treaty specifies that “no state can claim any outer space resources by way of sovereignty”, it doesn't specify whether private actors can do that or not and that is the central point of her presentation.



14. **Mr. N. Shri Raghunandan Kumar**, Director of Planetary society. The Planetary society of India was established in 2003 with the mandate to create awareness of astronomy and Space Sciences. There is a need of awareness to be created in the public regarding astronomy and space, and thus it works as an informal educator to create awareness of any space or astronomical activities. While speaking about the significance of the conference, he said that transportation plays an important role in the advancement of any industry. The conference highlighted a lot of aspects, challenges and opportunities in both aviation and space industry. He also said that there is a need for Space Law regarding space laws, as many of the entrepreneurs feel discouraged in taking risks. Speaking about Space advocacy, he said that the inadequacies which exist in the space industry need to be addressed and represented by the Government.

15. **Ms. Tripti Bhushan**, Assistant Professor of Law in Kalinga University. While highlighting the importance of cyber law in the space industry, she said that with the emergence of new technologies, the space industry can advance. She further said that there is a need to have proper guidelines with regard to cyber security in the Aviation and Space industry.

PHOTO GALLERY







UPCOMING EVENTS

1. 2nd Dr. APJ Abdul Kalam Air and Space Law and Policy Essay Competition

The aerospace industry in the 21st century is enjoying rapid growth and development, but remains rooted in the foundations, efforts, and ideas of yesterday. Faced with a wide variety of emerging industry practices and complex issues, law and policy in the aerospace sector must not only continue to develop apace, but also foster development and innovation. The objective of this annual essay competition is to offer insight into pertinent issues and challenges, offering potential solutions and analyses from professionals and experts in the fields of air and space law. Moreover, these insights demonstrate the global nature of air and space activities, and how current and future challenges require a progressive approach in the development and application of law and policy. By delving past headlines and buzzwords to explore current and future challenges and solutions, these essays should present a rigorous legal examination relevant to the missions and efforts of international and regional organisations, civil aviation professionals, international and national space agencies, private operators, investors, insurers, and aviation and space consultancies.

The 1st edition of the Essay Competition has been a success with more than 50+ entries from across the globe and all the entries were reviewed by a global jury that consist experts in the area of Aviation and Space Laws. The winners of the 1st Dr. APJ Abdul Kalam Air and Space Law and Policy Essay Competition are:

- i. Winner: Ms. Keertana Venkatesh, COUNTERING CYBER-ATTACKS IN OUTER SPACE: CHALLENGES AND SOLUTIONS IN LAW AND POLICY, received a cash prize of INR 50,000 along with a Certificate as a token of appreciation.
- ii. 1st Runner-Up: Ms. Ishita Das, 'BRINGING A PIECE OF MOON TO YOUR HONEY': THE LEGAL CHALLENGES RELATING TO MINING OF THE LUNAR RESOURCES, received a cash prize of INR 30,000 along with a Certificate as a token of appreciation.
- iii. 2nd Runner-Up: Ms. Vani Kaushik, NEED FOR REVISITING THE REGISTRATION CONVENTION, 1975, received a cash prize of INR 20,000 along with a Certificate as a token of appreciation.

The 2nd edition of Dr. APJ Abdul Kalam Air and Space Law and Policy Essay Competition will be announced in June 2020 by Sagar Singamsetty, Founder and Chief-Editor of the Essay Competition.

2. Publications

The Centre for Aerospace and Defence Laws (CADL) is going to publish and release the new volume of Indian Journal of Air and Space Law (IJASL) and two edited books on Aviation Law and Space Law respectively.

3. Launch of CADL Website

CADL is going to launch its own website with the URL as www.cadl.nalsar.ac.in

4. CADL Blog

The Centre will also be starting its own blog on the CADL website to post latest updates in the aviation, space, defence and maritime industry.

5. Admission for CADL Courses for academic year 2020-21

For the academic year 2020-2021, CADL is going to offer the following courses:

S. No.	Name of the Course
1.	Two-Year M.A. (Aviation Law and Air Transport Management)
2.	Two-Year M.A. (Security and Defence Laws)
3.	Two-Year M.A. (Space and Telecommunication Laws)
4.	One-Year P.G. Diploma (Aviation Law and Air Transport Management)
5.	One-Year P.G. Diploma (Advanced Maritime Laws)
6.	One-Year P.G. Diploma (GIS and Remote Sensing Laws)

Important Dates:

- Release of Notification and Application: Form- March-April, 2020
- Last Date for Receipt of Application: Mid-June, 2020
- Commencement of Classes: August-September, 2020

For any queries, contact us at 040-23498445/446 or email us at cadladmissions@nalsar.ac.in

6. SAVE THE DATE: 2nd International Legal and Policy Conference on the Future of Transport

The 2nd International Legal and Policy Conference on the Future of Transport, will be held in HYDERABAD in April/May, 2021. More details about the Conference will be shared in the third quarter of year 2020.

Centre Head



Prof. (Dr.) V. Balakista Reddy, Professor of International Law and Registrar at NALSAR University of Law. He also heads the Centre for Aerospace and Defence Laws and Centre for Tribal and Land Rights at NALSAR. Dr. Reddy obtained his LL.M in International Law from Osmania University and M. Phil. and Ph.D. in International Air and Space Law from Jawaharlal Nehru University (JNU), New Delhi. He has more than 20 years of teaching and research experience. Recently, Dr.Reddy was awarded the Meritorious Teachers Award-2017 by the Higher Education Department, Government of Telangana.

Dr.Reddy is an internationally recognized expert in the field of International Law and International Air & Space Law. An avid reader, prolific writer and an able academic administrator has often led him to achieve laurels in his academic life. Known globally for his contribution to the field of air and space law, Dr. Reddy has presented papers at numerous prestigious national and international forums including the United Nations. Dr.Reddy was instrumental in organizing the 78th Session of Institute of International Law conference, 2017 at NALSAR. He is also a member of the Drafting Committee constituted by Indian Space Research Organization for Drafting of Model Space Legislation for India.

Prof. Reddy is a strong believer of Academic Social Responsibility (ASR) and took up several initiatives such as drafting legislations for State and Central Governments, imparted special training to officials of State and Central Governments, NGOs, adopted villages to make land litigation free etc. Through Centre for Aero Space and Defence Laws Dr.Reddy introduced innovative courses viz. Aerospace, Defence, Telecom, GIS and Remote Sensing Laws.

A prolific writer, Dr. Reddy has contributed extensively to various national and international journals on different facets of International law. His books on (1) Air Law and Policy in India (1994) (2) Recent Trends in International Space Law and Policy (1997) and (3) Emerging Trends in Air and Space Law, (2007) (4) Space Law and Contemporary Issues (2012) have won international acclaim. Dr.Reddy is a Visiting Faculty to several reputed national and international universities.

Besides, supervising of M.Phil., Ph.D., Masters and Diploma students, Dr. Reddy teaches LL.B. and LL.M courses including International Law, International Trade Law, International Air and Space Laws, International Intellectual Property law, International Banking and Insurance Laws, Comparative Corporate and Competition Laws, International Environmental Law, and International Humanitarian and Refugee Laws.

Research Associates



Ms. Ruchi Jain

Research Associate, Centre for Aerospace and Defence Laws (CADL), NALSAR University of Law, Hyderabad.

She did her B.B.A.LL.B.(Hons.) from MATS University, Raipur with specialization in Corporate Laws. She participated in various National Moot Court Competitions, National Parliamentary debates and National/International Conferences. She was awarded gold medal for outstanding academic achievement in 2017 by the MATS University. She did her LL.M. in Constitutional Law from National Law University, Odisha. There she got associated with the Centre for Child Rights and was also involved into various projects sponsored by the UNDP and Department of Justice, Government of India. She cleared her UGC-NET in July, 2018. Thereafter, she joined NALSAR University of Law as a Research Associate, Centre for Aerospace and Defence Laws (CADL).



Ms. Bangaru Laxmi Jasti

Research Associate, Centre for Aerospace and Defence Laws (CADL), NALSAR University of Law, Hyderabad.

She did her B.A.LL.B (Integrated) from Padala Rama Reddi Law College, Osmania University. She was awarded gold medal for outstanding academic achievement. She did her LL.M - International Law and International Security from University of Glasgow, United Kingdom. She also has P.G. Diploma in Cyber Laws from NALSAR University of Law, Hyderabad. She is practicing as an Advocate in High Court of Telangana and is associated in the Chambers of D. Prakash Reddy, Senior Advocate and former Advocate General for the state of Telangana. She joined as a research associate in CADL and working since then in space and Defence studies.



Ms. Apala Das

Research Associate, Centre for Aerospace and Defence Laws (CADL), NALSAR University of Law, Hyderabad.

Apala Das is currently working as a Research Associate for the Centre for Aerospace and Defence Laws in the NALSAR University of Law, Hyderabad. She had joined the Centre in November, 2019. She had done her B.A. LL.B (Hons.) from WBNUJS, Kolkata in 2014 and LL.M in Business Laws from NLSIU, Bangalore. After her LL.M, she was working as a practicing advocate in Durgapur. Her area of interests are Cyber Laws, Intellectual Property Rights and also in Aviation and Space Laws.



CENTRE FOR AEROSPACE AND DEFENCE LAWS (CADL) DIRECTORATE OF DISTANCE EDUCATION NALSAR UNIVERSITY OF LAW, HYDERABAD

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ADMISSION NOTIFICATION 2020-21

NALSAR University of Law established by Act 34 of 1998 is engaged in teaching and research in law and allied disciplines. In recognition of its academic standards National Assessment and Accreditation Council (NAAC) awarded it 'A' grade (A+ as per new grading system) with a score of 3.60 out of 4.00 which is the highest amongst all National Law Universities in the country. NALSAR has also been accorded with the status of Category-I under UGC (Categorization of Universities (only) for Grant of Graded Autonomy) Regulations, 2018.

NALSAR established the Centre for Aerospace and Defence Laws (CADL) in 2005 with the objective of promoting the development of aviation, space, maritime laws and policies. Since then, NALSAR-CADL has been promoting the study of Aerospace and Defence Laws by introducing courses, conducting National and International Conferences, Moot Courts, Workshops and also publishing Newsletters, Journals, Books and Articles, besides awarding a few M.Phils. and Ph.Ds. in the said areas. The objective of introducing these unique and value added courses is to cater to the needs of unprecedented aviation growth coupled with commercialization and privatization of aerospace, defence and maritime industries, which calls for thousands of skilled manpower to meet not only managerial requirements but also legal compliances that arise from the high value transactions. CADL invites applications for admission to the following courses:

S.No.	Name of the Course	Course Fee
1.	Two-Year M. A. (Aviation Law & Air Transport Management)	Rs.40,000/- p.a. (for Defence personnel – Rs.35,000/- p.a.)
2.	Two-Year M. A. (Security & Defence Laws)	
3.	Two-Year M. A. (Space & telecommunication Laws)	
4.	One-Year P.G. Diploma (Aviation Law & Air Transport Management)	Rs.30,000/- (for Defence personnel – Rs.25,000/-)
5.	One-Year P. G. Diploma (Advanced Maritime Laws)	
6.	One-Year P. G. Diploma (GIS & Remote Sensing Laws)	

Eligibility

Bachelor's Degree or an equivalent Degree in any discipline from any recognized University; (OR) 3-year Degree/Diploma in Aircraft Maintenance Engineering (AME) will be applicable to S.No.1 & 3, (OR) Students appearing for the final year examination of Graduation / Engineering are also eligible to apply. In such a case, the admission will be subject to submission of passing certificate of the qualifying examination on or before September 30, 2020.

Admission Procedure: Direct Admission subject to fulfillment of the eligibility criteria for the said courses. The Online portal for submitting the Application Form is available at www.cadl.nalsar.ac.in

Curriculum for Masters Programmes:

Semester	Two-Year M.A. (Aviation Law & Air Transport Management)	Two-Year M. A. (Security & Defence Laws)	Two-Year M. A. (Space & Telecommunication Laws)
I	<ul style="list-style-type: none"> • General Principles of Law • International Air Law • Principles of Management • Airport Management 	<ul style="list-style-type: none"> • General Principles of Law • International Security, Diplomacy and Conflict Resolution • Defence Technology and Defence Laws • International Institutions and Global Security 	<ul style="list-style-type: none"> • General Principles of Law • Space Technology and Law • International Space Law • Information Technology and Law
II	<ul style="list-style-type: none"> • Domestic Air Laws in India • Aviation Safety, Security and Liability Laws • Airline Management • Air Space & Air Traffic Management 	<ul style="list-style-type: none"> • Defence Management and Strategic Studies • Defence Contracts and Tenders • Defence Procurement Policies: National and International Perspectives • Defence Laws and Policies in India 	<ul style="list-style-type: none"> • International Telecommunications Law • Space Technology, Telecommunications and IPRs Issues • Commercialization of Space Activities and Legal Issues • Cyberspace, Cyber Law and Security Issues
III	<ul style="list-style-type: none"> • Aviation Contracts & Tenders • Aviation Corporate Laws • Air Transport Economics and Statistics • Aviation Marketing 	<ul style="list-style-type: none"> • Regional Security and Global Governance • Terrorism and Counter Terrorism • Aviation, Space and Maritime Security Laws • Cyber Space, Cyber Security and National Defence 	<ul style="list-style-type: none"> • Telecommunication Laws in India • Law of Remote Sensing and Geospatial Data • Trade Laws relating to Space and Telecommunications • Space Law and Contemporary Issues
IV	• Dissertation	• Dissertation	• Dissertation

Curriculum for Diplomas:

Semester	One-Year P. G. Diploma (Aviation Law & Air Transport Management)	One-Year P. G. Diploma (Advanced Maritime Laws)	One-Year P. G. Diploma (GIS & Remote Sensing Laws)
I	<ul style="list-style-type: none"> • General Principles of Law • Principles of Management • International Air Law 	<ul style="list-style-type: none"> • General Principles of Law • International Maritime Laws • Maritime Security and Law of the Sea 	<ul style="list-style-type: none"> • General Principles of Law • Remote Sensing Technology and Laws • GIS Technology and Law
II	<ul style="list-style-type: none"> • Airport Management • Airline Management • Domestic Air Laws in India 	<ul style="list-style-type: none"> • Maritime Laws in India • International Trade and Marine Transport Services • Maritime Laws and Contemporary Issues 	<ul style="list-style-type: none"> • Coastal Mapping and Coastal Zone Management • Satellite Technology, GIS, RS and IPR Issues • Remote Sensing and GIS Applications in Resource Management.

Important Dates :

Release of Notification and Application Form **March - April, 2020**

Last date for Receipt of Application Form **Mid June, 2020**

Commencement of Classes **August-September, 2020**

Admission Procedure :

Direct Admission subject to fulfillment of the eligibility criteria for the said courses. The Online portal for submitting the Application Form will be available at

www.cadl.nalsar.ac.in

Email ID : cadladmissions@nalsar.ac.in

Sd/-

Prof. V.Balakista Reddy
Registrar & Coordinator, CADL



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