



राजस्थान RAJASTHAN

BA 722033

MEMORANDUM OF AGREEMENT

This Memorandum of Agreement (hereinafter referred to as the "MOA") made on this 5th day of December, 2020 ("Effective Date")

Between

NIIT University, established under the NIIT Vishwavidyalaya Neemrana (Alwar) Adhinyam, 2010, by the State Government of Rajasthan, having its campus at NH-08, Delhi-Jaipur Highway, Neemrana, Dist.- Alwar, Rajasthan and admission office at 8, Balaji Estate, Ground Floor, Guru Ravidass Marg, Kalkaji, New Delhi hereinafter for the sake of convenience and brevity referred to as "**NU**" or "**University**" (which term and shall, wherever the context so admits, be deemed to mean and include its successors-in-office and interest and permitted assigns) of the FIRST PART.

And

Infosys, a company within the meaning of the Companies Act, 2013, having its registered office at Plot No. 47, Sy. No. 10, Electronics City, Hosur Road, Bengaluru hereinafter for the sake of convenience and brevity referred to as "**Infosys**" (which term and expression shall, wherever the context so admits be deemed to mean and included its successors-in-office and interest and permitted assigns) of the SECOND PART.

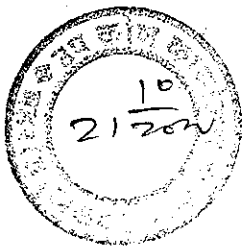
NU and Infosys are hereinafter jointly referred to as "**Parties**" and individually as a "**Party**".

Whereas:

- A. Infosys is a global leader in next-generation digital services and consulting engaged in continuous improvement through building and transferring digital skills, expertise, and ideas from its innovation ecosystem.

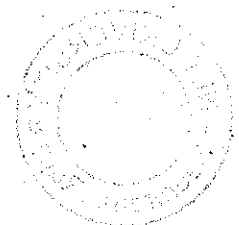


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राज्य परिषद के निर्वाचन कार्य	
1. आधारभूत आवश्यकताओं के लिए	15
(धारा 3-क)-1	
2. शाय और पक्षी संरक्षण हेतु	30
(धारा 3-क)-1	
कुल	45
राजस्थान राज्य वन्यजीव विभाग	



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दिनांक: 7/12/2020
 काम की: राजस्थान राज्य वन्यजीव विभाग
 जाति: राजस्थान राज्य वन्यजीव विभाग
 पद: राजस्थान राज्य वन्यजीव विभाग
 स्थान: राजस्थान राज्य वन्यजीव विभाग
 राजस्थान राज्य वन्यजीव विभाग



- B. NU is a premier institution and multi-disciplinary university which focuses on higher education in emerging areas of technology and management.
- C. NU and Infosys have agreed to enter into an arrangement whereby the Parties shall jointly work towards setting up of a program "Master of Technology (Cyber Security) [hereinafter referred to as "**Programme**"]], at the Campus, as a joint initiative to attract bright and experienced professionals/managers of Infosys to a career in Cyber Security and to transform them into competent and skilled professionals in this field.
- D. The Parties hereto are desirous of reducing to writing the terms and conditions of the arrangement, through these presents.

NOW THEREFORE THIS MOA WITNESSES AS UNDER:

1. DEFINITIONS:

- 1.1 "Academic Council" means it is the Authority of the University as specified in Section XXI (II) of the Act and is the principal academic body of the University.
- 1.2 "Academic Year" means the period of 12 months, starting from January of a given year to December of the same year.
- 1.3 "Academic Regulation" means the regulations which guide the operations of all academic programmes of the University.
- 1.4 "Act" means the NIIT Vishwavidyalaya Neemrana (Alwar) Adhinyam, 2010.
- 1.5 "Applicant" means an employee of Infosys who at the instance of Infosys applies for admission to the Programme at NU by submitting the prescribed application form and undergoes NU's admission process for admission to the Programme.
- 1.6 "Batch" means the group of Students who undergo the Programme at the Campus after registering into the Programme.
- 1.7 "Campus" means the Campus of NU located at NH-08, Delhi-Jaipur Highway, Neemrana, Dist.- Alwar, Rajasthan.
- 1.8 "Candidate" means an Applicant who has been offered admission to the Programme.
- 1.9 "Classroom" shall mean the physical classroom at the Campus with restricted access to Students as also it includes the internship location required to deliver the Programme to the Students.
- 1.10 "Disclosing Party" means the Party who discloses the Confidential Information.
- 1.11 "Faculty" mean qualified and assigned teachers/facilitators of NU to impart education and guide the students in the learning of the Programme.



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- 1.12 "Internship" means students' practice in Infosys location under the guidance of industry mentor from Infosys and NU faculty as per the prescribed terms and conditions under Annexure 3. Formalisation of internship process and operational modalities will be reviewed and drafted by Programme Advisory Committee at the end of first semester.
- 1.13 "MOA" means this duly signed Memorandum of Agreement and all annexures appended to this MOA, forming an integral part of this MOA and includes any amendment there to as agreed between this parties in writing with mutual consent.
- 1.14 "Programme" means the M.Tech (Cyber Security) programme that will be offered by NU as fully described in **Annexure-1** attached with this MOA.
- 1.15 "Programme Advisory Committee" means an advisory committee set up jointly in which Infosys and NU will have equal representation in terms of number of members to provide suggestions to enrich the Programme. The Program Advisory Committee will comprise of the President, Dean (Industry Linked Programs) and two senior faculty members of the University and includes four senior managers from Infosys nominated by Infosys.
- 1.16 "Programme Fees" means fees paid by Infosys as per Annexure 2 of this MOA.
- 1.17 "Proprietary Rights" or "IP" means any intellectual property rights of any party for (i) the course materials, copyrights, moral rights, (ii) trademark and trade name rights and similar rights, (iii) trade secret rights, (iv) patents, designs, algorithms and other similar rights, (v) all other intellectual property rights of every kind and nature and however designated, whether arising by operation of law, contract, license or otherwise, including any software, ideas, concepts, know-how, development tools, techniques or any other proprietary material or information, (vi) all registrations, initial applications, renewals, extensions, continuations, divisions or reissues there of now or hereafter made, existing, or in force (including any rights in any of the foregoing), including, without limitation, all current and future worldwide patents and other patent rights, copyrights, trademarks, service marks, trade names, mask work rights, trade secret rights, technical information, know-how, moral rights and the equivalents of the foregoing under the laws of any jurisdiction, and all other proprietary or intellectual property rights throughout the universe, including without limitation all applications and registrations (and all renewals and extensions) relating to any of the above.
- 1.18 "Receiving Party" means the Party receiving the Confidential Information.
- 1.19 "Student" means a Candidate admitted by NU as per the eligibility criteria and selection process as approved by the Academic Council of the University and who registers into the Programme and further agrees and conforms to the conduct as per the rules and regulations of NU.

2. OBJECTIVE



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The objectives of entering into this MOA by the Parties are:

- 2.1 To design and develop the Programme and implement it in a phased manner, starting from academic year 2020-21 for a Batch of minimum 60 students.
- 2.2 To provide alternative career opportunities to experienced employees and endeavour to prepare and develop them as specialists for various roles in Cyber Security through the Programme.
- 2.3 To facilitate industry-academia partnership for better education of the Students.

3. TERM AND TERMINATION

- 3.1 This MOA shall continue to be in full force and effect for a period of three (3) years from the Effective Date. The MOA may be renewed mutually by both parties in writing.
- 3.2 Either Party may terminate this MOA for convenience by giving a clear six (6) months prior written notice. In the event of termination or expiration of this MOU, NU will continue to fulfil the obligations under the Agreement until the then enrolled batches of the Students complete the Programme and Infosys shall continue to pay the Program Fee on that account. The provisions of this MOA that are intended by their nature to survive such termination or expiration shall survive.
- 3.3 This MOA may be terminated by either party upon giving prior notice in writing to the other if the other party commits a material breach of any of the terms of this Agreements, which is incapable of being remedied or in the case of a breach which is capable of being remedied, fails to remedy the breach within thirty (30) days of receipt of a notice in writing from the party not in breach specifying the breach and required its remedy. .
- 3.4 Notwithstanding the termination of this MOA for any reasons whatsoever, both Parties shall continue to discharge their obligations under this MOA to complete the Programme in an efficient manner for the ongoing academic year for the Students that are already enrolled for the Programme in accordance with the Agreement.

4. REPRESENTATIONS AND WARRANTIES

- 4.1. Infosys represents and warrants that it has all the rights, titles, licenses, intellectual property, permissions and approvals necessary to perform its obligations under this Agreement.
- 4.2. NU represents and warrants that it has all valid licenses, approvals and affiliations in accordance with applicable laws to perform its obligations under this Agreement.
- 4.3. NU represents and warrants it will conduct its obligations under Programme in accordance with applicable laws and regulations.



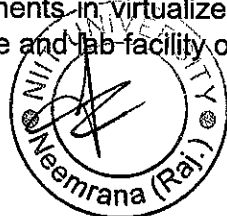
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4.4. NU represents and warrants that the Faculty and administration involved in the Programme are qualified, trained and hired in accordance with applicable laws and regulations.

5. RESPONSIBILITIES OF NU

NU agrees:

- 5.1 To conduct the selection process of the Students/Applicants shortlisted by Infosys, which includes development and assessment of eligibility criteria developed by Infosys and approved by NU, followed by conducting written examinations and finally, conducting joint interview with Infosys representatives, of such shortlisted Applicants.
- 5.2 Conduct all academic activities for the Batch of Students enrolled for the Programme.
- 5.3 Offer the Programme at the Campus and evaluate the internship of Students as per the terms of this MOA leading to the award of the M.Tech (Cyber Security) degree to the Students successfully completing the Programme.
- 5.4 Provide educational and residential infrastructure to the Students at the Campus.
- 5.5 Take responsibility for overall curriculum development, delivery, evaluation & certification as per the academic regulations of the NU.
- 5.6 Provide facilities including hostel, class room, auditorium, canteen, library and recreational facilities for the Students in a time-bound manner.
- 5.7 Regularly provide to Infosys complete information on academic progress, discipline and conduct for all the Students after the end of each semester of the Programme.
- 5.8 Subject to receiving signed documents delineating the respective obligations between the Students and Infosys, to handover Provisional and Final Degree Certificates of all Students to Infosys for safe-keeping and further handling such Students as per the terms of his/ her enrolment.
- 5.9 Handle Students and any grievance-escalations pertaining to the areas that NU is responsible for, such as academic and on-Campus matters etc in accordance with NU's student handbook.
- 5.10 Take suitable action against the Students in case of any breach of discipline/rules/code of conduct of NU.
- 5.11 To provide access to NU's Learning Management System around the Virtual Labs where the Students can avail the various tools for virtual learning, including additional web-resources, video-lectures, demonstrations. NU will setup Cyber Security labs & provide required lab capability & facilities to the students to access & conduct experiments in virtualized or simulated environment so that they can access them online and lab facility on the Campus as prescribed in Programme.



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6. RESPONSIBILITIES OF INFOSYS

Infosys agree:

- 6.1 To make available to NU relevant information as permitted within the obligations that Infosys has with its clients, software vendors, **its own** IP protection policies and guidelines (documents, case studies, recommend for purchase by the University any special software and other mutually agreed resources) for facilitating the development of the curriculum, course design, structure, which is to be delivered by NU.
- 6.2 Provide assistance, support and participation required for overall development of the Programme.
- 6.3 Provide for internship in timely manner as per the academic regulation of NU and as may be mutually agreed between the parties as per the design of the Programme.
- 6.4 Provide all other necessary support as may be reasonably requested, discussed upon and mutually agreed between the parties from time-to-time.
- 6.5 As far as possible and basis their availability, make available its senior executives for expert/guest lectures and supervision during internship as and when required for the Programme, in the interest of this MOA.
- 6.6 Assume complete responsibility for background verification , at its own cost and inform NU in writing in case anything adverse is found against the Students.
- 6.7 Sponsor the Students and pay the Programme Fees on behalf of selected Students as per **Annexure- 2** attachment with this MOA.
- 6.8 Promote the Programme and assume responsibility of Student acquisition in as much as at least 60 Students are registered in the Program to form a Batch and bear all expenses related to these activities.
- 6.9 Help in finalisation of Student enrolment by shortlisting Applicants, develop and assess the eligibility criteria in accordance with NU's admission policy and conduct the assessment jointly with NU for selecting the final set of candidates in accordance with Section 5.1 above.

7. JOINT RESPONSIBILITIES OF THE PARTIES

- 7.1 Recognize that the Programme is a path-breaking initiative and agree to closely work with each other in a manner that befits cooperation between the two organizations.
- 7.2 Set up a Programme Advisory Committee, with equal representation of members from Infosys and NU to advice upon the different facets of the Programme including the curriculum, content and delivery thereof. Additionally, every six months in an



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Academic year, Programme Advisory Committee will also review and recommend changes to the course prepared by NU.

8. PAYMENT OF FEES

8.1 As stated above, NU shall be entitled to receive the fees payable by a Students for registering into the Programme and undergoing the same (in short 'the Fees') in terms of Annexure-2.

8.2 Infosys shall sponsor the Programme Fees and taxes, if and as applicable, and accordingly pay the same to NU on behalf of the Students as per the timelines prescribed for the same. The Student shall become entitled to undergo the Program on receipt of Fees on their behalf, by NU.

8.3 Infosys shall pay NU the Programme Fees fifteen days prior to commencement of each semester in an academic year.

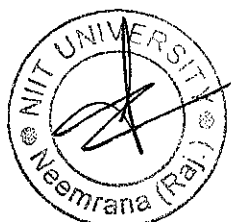
8.4 Each party shall bear their own costs and expenses under this MOA unless otherwise agreed by the parties.

9. INTELLECTUAL PROPERTY RIGHTS

9.1 Each party will own and retain all of its right, title, and interest in and relating to its intellectual property rights in its products and services and Confidential Information. Except as provided herein, this Agreement will not be construed to grant any license under any trade secret, patent, patent application, industrial design, trademark, copyright, mask work, confidential process, formula, plan, computer program, data or other valuable confidential information or know-how to either party. Parties hereby provide, non-exclusive, royalty free, revocable license to use the information, documents and other resources (in short 'the Content') for the purposes of this MOA, whether in physical, electronic or any other form.

9.2 The Proprietary Right in curriculum, teaching methodology, content, schedules, , assessments etc. created for and during delivery of the Programme shall vest with NU.

9.3 Notwithstanding anything contained herein, Infosys will have all rights, titles and benefits (including intellectual property right) over the projects and assignments that Students create, work, process, analyse and deal for an Infosys' client/customer under the internship programme at Infosys locations. Such projects and assignments will remain confidential and will not be disclosed to NU in its entirety. Infosys will share the assessment reports with NU about the progress and merit of the Students under the internship programme. However, Infosys will share the projects and reports created, worked, processed, analysed and dealt by Students during their internship which does not contain any Infosys' client information or any confidential information of Infosys.



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9.4 Neither Party shall use each other's trademarks, logos, trade names except for the purpose of jointly executing the terms of this MOA, without prior written consent of the other Party, which should not be withheld unreasonably.

10. CONFIDENTIALITY

10.1 The Parties hereby agree that all non-public, confidential, proprietary or trade secret information as disclosed by one to the other including Course Material, Proprietary Rights, information in relation to the MOA, Programme model and any notes, compilations, studies, interpretations, presentations, a party's client information, information related to a party's business, correspondence or other writings made available by one to the other whether in physical or electronic form, whether after or prior to the execution of this MOA, and whether specifically marked "Confidential" or not, including any verbal indication that has been documented in writing and marked as "Confidential" shall be deemed to be Confidential Information ("**Confidential Information**".) The Parties agree that all Confidential Information shall be treated with utmost confidence by itself and the personnel to whom the same has been shared and shall not disclose to any person such information otherwise than in terms of this MOA. The Parties shall impose a similar duty of confidentiality on its employees and personnel to whom such Party is permitted to transfer such information in accordance with the terms hereof. It is further agreed by the Parties hereto that any such disclosure to any employees and personnel shall be on a strictly need-to-know basis only.

10.2 Neither Party shall, without the prior written consent of the other, display or disclose all or any part of the Confidential Information, in any manner or circumstances whatsoever, to any person or any third party and the Confidential Information shall be used by that Parties and their authorized personnel, directly or indirectly, solely for the purpose the MOA. Neither Party shall use the Confidential Information in any way detrimental to the other.

10.3 The Confidential provisions shall not apply to information that the Receiving Party can demonstrate (i) was in its possession at the time of disclosure and without restriction as to confidential (ii) at the time of disclosure is generally available to the public or after disclosure becomes generally available to the public through no breach of agreement or other wrongful act by the Receiving Party, (iii) has been received from a third party without restriction on disclosure and without breach of agreement or other wrongful act by the receiving Party (iv) is independently developed by the Receiving Party without regard to the Confidential Information of the Disclosing Party, or (v) is required to be disclosed by law, regulation or order of a court of competent jurisdiction or other government authority, to the extent of such required disclosure. Except in compliance of part (v) of the previous sentence, the parties agree that this clause does not apply to any personal data processed under this Agreement. However, such disclosure of personal data will be subject to applicable data protection laws.

10.4 The obligations under this clause shall survive during the term of this Agreement and shall survive the termination of this Agreement.



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11. INDEMINITY AND LIMITATION OF LIABILITY

11.1 Indemnity: The Parties indemnify, defend and hold harmless each other against all claims, actions, loss, liability, including reasonable attorney fees suffered or incurred by the indemnified Party arising out of or in connection with any: (a) any claim that while providing services or fulfilling obligations under this Agreement, the death or personal injury of any person is caused or has damaged real or tangible personal property; (b) third party claims with respect to infringement of their intellectual property rights;

The indemnity is conditional upon indemnified party giving indemnifying party prompt written notice of, and cooperating with indemnifying party in connection with, the defense of any such claim, suit or action, including appeals and negotiations. This clause shall survive the termination of this Agreement.

11.2 Limitation of Liability: In no event shall either Party be liable to the other Party or any other person or entity for any special, exemplary, indirect, incidental, consequential or punitive damages of any kind or nature whatsoever (including, without limitation, indemnity in respect of any claim against the party) or loss of records or data, whether in an action based on contract, warranty, strict liability, tort (including, without limitation, negligence) or otherwise, even if such Party has been informed in advance of the possibility of such damages or such damages could have been reasonably foreseen by such Party.

Either Party's liability to the other party arising out of or in connection with this Agreement regardless of the form or nature of the action giving rise to such liability (whether in contract, tort or otherwise) and including any and all liability and any damages shall not exceed, in the aggregate, the total fees paid by Infosys to NU for the Programme in the preceding twelve (12) months period immediately preceding the date on which such liability arose

Notwithstanding anything contained in this Agreement, the limitations and exclusions set out in Clause 11.2 above shall not apply to expenses, costs, damages, losses incurred by either party, arising out of claims of:

- i. with regards to Intellectual Property Rights;
- ii. under clause 11.1 (Indemnity)
- iii. breach of confidentiality and data privacy obligations under the agreement;
- iv. bodily injury (including death) or damage to real or tangible personal property;
- v. arising from any negligence, wilful misconduct, fraud, misrepresentation, and or violation by Vendor of any laws, rules, ordinances and regulations.

12. FORCE MAJEURE

Notwithstanding any provision to the contrary of this MOA, neither Party shall be liable for any delay in performing its obligations under this MOA if such delay is caused by circumstance beyond its reasonable control and includes but not limited to acts of God, terrorist activities, government sanctions, actions or decrees of governmental bodies, communication line failures not the fault of the affected Party (hereafter referred to as a "Force Majeure Event"). A Party affected by the Force Majeure Event shall notify as soon as practicable the other Party of the occurrence of such event and subsequent restoration of normal condition.



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13. GOVERNING LAW AND JURISDICTION

13.1 This MOA and all matters arising from it any dispute resolution referred to below shall be governed by and construed in accordance with the law of India.

13.2 All disputes relating to or arising out of or in connection with this MOA (in short 'the Dispute') shall be first attempted to be settled through good-faith negotiation between the authorized representatives of the Parties. The affected Party shall give written notice of dispute within ten (10) days of such occurrence of the event and the dispute be attempted to be settled through the authorized signatories to this MOA.

13.3 If the Dispute remains unresolved for a period of 30 days, the same shall be referred to the sole arbitrator jointly appointed by both the Parties in accordance with the Arbitration and Conciliation Act, 1996. The decision of the sole arbitrator shall be final and binding on the Parties. Each Party shall bear their respective costs of arbitration. The place of Arbitration shall be Delhi and the language of arbitration shall be English.

13.4 The Parties submit to the executive jurisdiction of the competent court at Delhi.

14. MISCELLANEOUS

14.1 Academic Regulations and Disciplinary Regulations of NU known as 'Student Handbook' as applicable for its post graduate programmes shall apply to the Programme and any other understanding or arrangement shall be subject to the said Regulations.

14.2 Subject to confidentiality clauses mentioned herein or otherwise and without infringing upon the Proprietary Rights of Infosys, NU as a statutory University, asserts its right to run another M.Tech programme with specialization in Cyber Security in partnership with other organization (s) or on its own at its sole discretion and Infosys shall have no objection to the same. It is clarified further that if any customization is proposed by Infosys in the Programme or proposes any customization of any topics, electives and labs of the Programme and if such customization is agreed by NU, then such part of the Programme is confidential and exclusive between the parties. NU represents and warrants that it will not duplicate or use such portion of this Programme for other organisation without taking Infosys' prior consent.

14.3 Announcements and Publicity; Neither Party shall make any public disclosures, press/ media release or announcements regarding this MOA or its subject matter without the prior written consent of the other Party, which consent shall not be withheld unreasonably. Prior written consent shall include consent given by electronic mail from the authorized signatory of the Party.



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- 14.4 General Assignment: Neither this MOA nor the rights, licenses and obligations provided hereunder may be assigned by either Party without written consent of the other Party.
- 14.5 Headings: The headings in the MOA are for reference purpose only and are not intended to be taken into account in the interpretation of the provisions of this MOA.
- 14.6 Waiver: No delay, neglect or forbearance on part of either Party in enforcing against the other Party any term or condition of this MOA shall either be or be deemed to be waiver or in any way prejudice any right of that Party under MOA. No right, power or remedy in this MOA conferred upon or reserved for either Party is exclusive of any other right, power or remedy available to that Party.
- 14.7 Entire Agreement: This MOA embodies the entire understanding and MOA between the Parties in connection with the subject matter of this MOA and neither Party is relying on any representations, promises, terms, conditions or obligations oral or written, express or implied other than those contained in this MOA. The terms of this MOA are legally binding on both the Parties. Neither Party seeks to exclude liability for fraudulent misrepresentation.
- 14.8 Variation: This MOA may not be released, discharged, supplemented, interpreted, amended, varied or modified in any manner except by an instrument in writing signed by a duly authorized officer or representative of each of the Parties.
- 14.9 Notices: All notices under this MOA shall be in writing and all such notices shall be deemed to have been duly given when delivered, if delivered by courier or other messenger (including registered mail) during normal business hours of the recipient; or if transmitted by fax or email and a successful transmission report or return receipt is generated; or on the fifth business day following mailing, if mailed by national ordinary mail, postage prepaid; or on the tenth business day following mailing, if mailed by airmail, postage prepaid, in each case addressed to the person mentioned hereunder and to the recent address, email address, or facsimile number notified to the other Party.
- NU:
[Registrar]
SHIVENDRA MATHUR
Email: Registrar@niituniversity.in
- Infosys:
Varadharaj V.
Infosys Ltd.,
Plot no 44, Hosur Road
Electronic City, Phase 1, Bangalore- 560100
Email: varadharaj_v@infosys.com
- 14.10 Invalidity: Any term or provision of this MOA which is invalid or unenforceable in any jurisdiction shall, as to such jurisdiction, be ineffective to the extent of such invalidity or unenforceability without rendering invalid or unenforceable the remaining terms and provision of this MOA or affecting the validity or enforceability of any of the terms or provisions hereof in any other jurisdiction.



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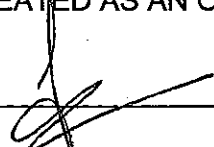
14.11 Counterparts: This MOA may be executed in one or more counterparts, each of which will be deemed to be an original copy of this MOA and all of which, when taken together, will be deemed to constitute one and the same MOA.

14.12 Press Release: The Parties may, with the prior consent of each other, issue the press release for the Programme and make statement in the media in this regard.

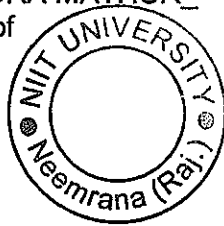
14.13 Amendment: If during the operations of the MOA, circumstances arise which call for alteration/modification to this MOA, such alteration/modification shall be mutually discussed and agreed upon in writing by the Parties.

IN WITNESS WHEREOF, THE PARTIES HERETO HAVE SET THEIR RESPECTIVE HANDS ON THE DATE AND YEAR FIRST HEREINBEFORE MENTIONED, IN DUPLICATE, EACH TO BE TREATED AS AN ORIGINAL.


Sign



Name: Dr. SHIVENDRA MATHUR
(For and on behalf of
NIIT University)



Sign



Name: Mr. Vishal Salvi
CISO & SVP, Infosys
(For and on behalf of Infosys)

Witnesses:

1.

2.

Annexure 1
(Refer Section 1.14)

1. The M.Tech (Cyber Security) Programme shall be of approximately 2-years duration, consisting of 4 (four) semesters.
2. The first 2 semesters shall be conducted on the Campus.
3. The last 2 semesters shall be conducted off the Campus at Infosys locations in conformity with the relevant Academic Regulation of NU.
4. Each Batch of the Programme shall be of a minimum of 60 Students.
5. The Programme structure is as follows:

2-Year INFOSYS - NIIT University MTech in Cyber Security Programme Architecture

Total 76 Credits)

Semester I (NIIT University) (18 weeks including Exam) (Jan – May)						Semester II (NIIT University) (18 weeks including Exam) (Aug - Dec) (Specialization: INFRASEC & VM)					
#	Course Title	L	T	P	C	#	Course Title	L	T	P	C
1	Analytics and Big data (CS 502)	3	0	2	4	1	Advance Network Security Part-I (CS 532)	3	0	2	4
2	System and Network Security (CS 511)	3	0	2	4	2	Vulnerability Assessment & Penetration Testing (CS 512)	3	0	2	4
3	Platform and Cloud Security (CS 521)	3	0	2	4	3	Advanced Cyber Security Tools for INFRASEC & VM (CS 5221)	0	0	4	4
4	Cryptography (CS 531)	3	0	2	4	4	Electives-I	3	0	2	4
5	Information Security Risk Assessment and Assurance (CS 541)	3	1	0	4	5	Electives-II	3	0	2	4
6	Cyber Security tools (CS 551)	2	0	4	4	6	Electives-III	3	0	0	3
Total Semester L-T-P-C		17	1	12	24	Total Semester L-T-P-C		15	0	12	23
[Jun-Jul - 2 months for I/NC courses (if any) and Two Compulsory Courses]											
Course-I : Professional Communication (TA 531) – (2 Credits)											
Semester II (NIIT University) (Specialization: Cyber Defense Operations)						Semester II (NIIT University) (Specialization: IOT & Blockchain Security)					
#	Course Title	L	T	P	C	#	Course Title	L	T	P	C
1	Advance Network Security (CS 532)	3	0	2	4	1	IOT Security	3	0	2	4

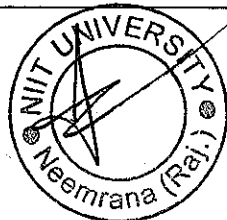


2	Cyber Security Operations	3	0	2	4	2	Blockchain Security	3	0	2	4
3	Advanced Cyber Security Tools for Cyber Defense Operations (CS 5222)	0	0	4	4	3	Advanced Cyber Security Tools for IOT & Blockchain Security (CS 5223)	0	0	4	4
4	Electives-I	3	0	2	4	4	Electives-I	3	0	2	4
5	Electives-II	3	0	2	4	5	Electives-II	3	0	2	4
6	Electives-III	3	0	0	3	6	Electives-III	3	0	0	3
Total Semester L-T-P-C		15	0	12	23	Total Semester L-T-P-C		15	0	12	23

Semester III (Industry)					Semester IV (Industry)						
#	Course Title	L	T	P	C	#	Course Title	L	T	P	C
1	Internship (NUCS 601)	-	-	-	12	1	Internship (NUCS ____)	-	-	-	15

ELECTIVE COURSES:

Semester II (ELECTIVE I & II COURSE) Select Any Two						Semester II (ELECTIVE III COURSE) Select Any One					
#	Course Title	L	T	P	C	#	Course Title	L	T	P	C
1	Cyber Forensics (CS 572)	3	0	2	4	1	Industrial Control Systems & SCADA Security	3	0	0	3
2	Security Analytics (CS 552)	3	0	2	4	2	Cyber Crimes & Cyber Laws (CS 582)	3	0	0	3
3	AI & ML in Cyber Security	3	0	2	4	3	Social Media, Behavioural Aspects (CS 592)	3	0	0	3
4	IoT & Blockchain Security (** required course for IOT & Block Chain stream)	3	0	2	4						
5	Threat intelligence	3	0	2	4						
6	Advance network security – Part II (** required course for INFRASEC & VM stream)	3	0	2	4						



Annexure 2
(Refer Section 6.7)

1. Infosys will pay a Programme Fee of INR 6.50 lacs (Rupees six lacs and fifty thousand only) per student to NU towards the Fee covering total tuition fees for two (2) years [four (4) semesters] and charges for standard hostel accommodation for the on-Campus academic semesters. Taxes, if and as applicable will be charged extra. Subject to point 2 below, any additional charges will not be paid by Infosys or the Students.
2. Fees mentioned above, does not cover charges towards laptops, books, mess , laundry, stationery, any additional outsourced training or simulation outside the Programme which Student wants to undergo at his/her will, transportation , conveyance. The Mess and laundry expenses will be paid by the Student directly to NU at the then prescribed rates and terms.
3. The semester fees will be paid by Infosys on or before the day of enrolment of the Students at the Campus. The Students will be permitted to register in the Programme only after Infosys has approved the Students and the semester fees is paid to NU.
4. One single consolidated Invoice and receipt for the Programme will be raised for each semester with name of each Student and their corresponding semester fee, and the same will be handed over to Infosys before beginning of each semester.
5. No refund of the fees shall be done by NU in case a Student withdraws from the Programme during a semester or has to discontinue the Programme for whatever reason during a semester.
 - 5.1 A batch would be of 60 students and every effort will be made to ensure all students complete the program. In the event of an unavoidable circumstance which is mutually acceptable to both Infosys and NU, a student withdraws from the program, the batch size of the subsequent batch will be increased beyond 60 to make do this loss in registration.
 - 5.2 No refund of the fees shall be done by NU in case a Student withdraws from the Programme during a semester or has to discontinue the Programme for whatever reason during a semester.
 - 5.3 Notwithstanding anything contained above, Infosys will pay the full program fee for at least a batch size of 55 students regardless of withdrawals at any stage of the programme.
6. In case a student falls short of the academic eligibility requirements for the completion of the Programme and is required to stay beyond the stipulated duration of two years of the Programme, the requisite fee along with the hostel fee as applicable will have to be paid by Infosys for the extended duration of the Programme.



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Annexure 3

Industry Practice or Internship

Industry Practice (IP) is an educational instrument seeking to link Industry Experience with University Instruction.

The objectives of IP are:

- (i) Meet the rapidly changing needs and challenges of a professional workplace
- (ii) Enable students to acquire learning by applying the knowledge and skills they possess, in unfamiliar, open-ended real life situations
- (iii) Bear an economic relevance to society.

These objectives are achieved by bringing the reality of the world of work into the process of education. IP creates the required setting for experiential and cooperative learning and education, by providing students with an opportunity to work on relevant assignments, under the guidance of professional experts and under the supervision of faculty. Consequently, Industry Practice serves as a platform that facilitates and promotes partnership and intellectual exchange between academia and industry.

Concept

Industry Practice, of twelve month duration, carrying twenty seven units credit and divided into two semesters of (12 credit units + 15 unit credits)is operated during the last two semesters of the programme. This facilitates a stream of well-prepared students to work on developmental projects in industry.

Aim

Industry Practice is directed towards providing an opportunity to students to experience the world of work, by participating in live projects in industry, even before they graduate. Apart from the academic benefits, this also serves to hone their problem solving skills, and build team spirit, initiative, and leadership skills, which makes the eventual transition to the professional world smoother and better.

Methodology

After a brief orientation, the students are involved directly in addressing the predefined problems of the host organization. The students are encouraged to work independently, under the technical guidance of a professional expert and the general guidance of the resident faculty. They are periodically required to defend the technical aspects of their work through written and oral presentations. Emphasis is laid on the importance of teamwork, development of leadership qualities, and the need for effective time management.

There are three points of intervention to help the students and evaluate them during the process. There is of course the industry mentor who helps the students with day



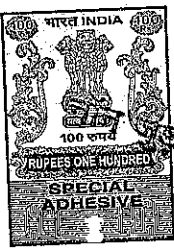
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to day activities within the organization, the faculty mentor who assists in evaluation of the academic deliverables and clarifies technical and doubts relating to the work of the student. There is also a regional faculty who helps in interaction with the student to cater to any help they may need outside of the industrial practice process.



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राजस्थान



**Memorandum of Understanding
between
NIIT University, Neemrana
and
IBM India Pvt. Ltd**

This Memorandum of Understanding ("MOU") is entered into and effective as of March 18, 2015 ("Effective Date"), by and between:

IBM India Private Ltd., a company incorporated under the provisions of the Companies Act, 1956 and having its registered office at Subramanya Arcade, Bannerghatta Road Bangalore 560076 and hereinafter unless the context otherwise requires be referred to as "IBM".

And

NIIT University, having its registered office and campus at Neemrana, Distt. Alwar, Rajasthan, hereinafter unless the context otherwise requires be referred to as "NU".

WHEREAS NU intends to provide skills in the area of data science to students through novel techniques and methodologies for the benefit of students.

WHEREAS IBM and NU have agreed to collaborate on endeavoring to provide students with training that may lead to enhanced skills in the area of data science;

NU and IBM agree that this is intended to be a document of understanding between the parties to perform the functions of each as set out in section I and II of this MoU. However, for the avoidance of doubt, it is hereby clarified that neither party shall have any liability nor responsibility to the other on failure to fulfil the activities set out in sections I and II herein.

Now therefore this MOU witnesses:

I - DEFINITIONS

"Faculty" hereby refers to Teaching Staff of NU,

"Students" hereby refers to all the students of NU

"Software" or "Product" means computer software packages identified for introduction in the Program

"Courseware" hereby refers to books or education material given in any form like printed books, CDs, PDFs etc.

I. Foreseen benefits of the collaboration

a) NU

- Opportunity to design innovative curriculum using relevant methodologies and software;
- Opportunity to learn from the practitioners in the industry, i.e, from IBM or IBM business partners

b) IBM

- Propagation of analytics software, technology knowledge and skill to various students in the area of business analytics and data science, so as to enable the availability of skilled resource pool armed with relevant software skills.

II – TERMS AND CONDITIONS

a) Courseware and Training

NU will develop a curriculum and courseware specializing in analytics, for students of their B Tech program, for which the intellectual property shall remain with NU, as per the course coverage guided by IBM and approved by the Academic Council of NU. The University shall provide trained and experienced faculty to deliver this curriculum and will be responsible for the course delivery. IBM at its discretion will provide inputs for course material, identified guest lecture and evaluation support. This may be free or charged by IBM to NU.

The responsibilities of the parties are listed in Annexure 1 to this MoU.

b) Software

IBM will attempt to provide relevant IBM Software required for this MoU through IBM's WW Academic Initiative program. However any software that is not available for free under IBM's WW Academic Initiative program, will have to be separately procured by NU under standard commercially available terms. This software should be used strictly for training and enablement purposes as set out in this MoU for students and faculty members of NU. No commercial usage is allowed. Software is available under applicable IBM International Program License Agreements (IPLA) and terms and the provisions of this MOU only. The list of software required for this MoU shall be agreed between the parties. NU shall however take a final decision on purchase of such software.

c) The selection of a student into the course offered by NU will not be construed as a commitment of consideration of employment or an offer for employment by IBM.

III - BREACH OF MOU

In the event of a material breach of the terms of this MOU by either party hereto, such other party shall be entitled to call upon the breaching party to rectify such breach within fifteen days from the date of the prior written notice, failing which the non-breaching party shall be entitled to terminate this MOU.

V – TERM AND TERMINATION

The MOU shall be effective from the effective date, and shall be valid for a *term of 05 years*, unless terminated earlier by either party, or extended mutually by both parties hereto, on the same terms and conditions as herein.

This MOU will terminate upon written notice by either party.

If at any time any party wishes to withdraw from further evaluations and discussions in connection with the subject matter of this MOU and terminate this MOU, it may do so with or without cause and without liability by providing the other party with prior written notice of 180 days of its intention to withdraw from further evaluations and discussions. Notwithstanding the above, if IBM intends to terminate after commencement of a regular semester in the University, the notice of such will be given so that termination is effective at the end of the semester, but such notice will in no event exceed 180 days. If IBM has not given a commitment on its services for a semester, which is yet to commence, and provides a prior written notice of 30 days for termination of this MoU, such notice of 180 days shall not apply and the MoU shall terminate after 30 days of such notice.

In the event of termination of this MOU for any reason whatsoever, including termination due to breach by IBM, any software or courseware licenses granted to NU by virtue of this MOU, shall also stand automatically terminated without any further act of parties. NU will also return or destroy at IBM's discretion, all material provided by IBM including courseware slides, soft copy courseware provided by IBM towards trainings.

The following obligations will survive termination of this MOU for any reason:

Use and nondisclosure of confidential information,
Limitation of Liability.

VI – LIMITATION OF LIABILITY

Neither party shall be liable for any indirect, punitive, special, incidental or consequential damages, loss of business, data, revenue, profits, or for any third party claims against the other arising out of or in connection with this MOU, whether for breach of this MOU or in torts, whatsoever.

Further, the Parties agree that IBM shall not be liable for any direct loss or damage to NU, its customers, or any third party, as a result of or in connection with this MOU.

VII – GOVERNING LAW AND ARBITRATION

This MOU shall be governed by and construed in accordance with the laws of India, without regard to its conflict of laws provision and shall be subject to the exclusive supervisory jurisdiction of the courts in Bangalore.

Any and all disputes, controversy or claims related to or arising in connection with this MOU shall first be referred to the **President of NU and Director, Business Analytics and Strategy Service Line leader, IBM Global Business Services, India** for an informal resolution. If this informal resolution does not resolve the dispute, then the matter will be referred to and settled by binding arbitration in accordance with the Arbitration and Conciliation Act, 1996. The parties shall mutually agree upon and appoint a sole arbitrator. The status of any such arbitration shall be Bangalore. The award of the arbitration may be enforceable in any court of competent jurisdiction. Each party shall bear its own costs and fees in connection with the arbitration. All proceedings shall be conducted, including all documents presented in such proceedings, in the English language. The English language version of this Agreement prevails over any other language version.

VIII – GENERAL

This MOU shall not be construed to be an agency or a partnership or joint venture or an employment relationship. Neither party shall be entitled to bind the other party with any third party by its actions, unless it has specifically obtained the prior written consent of such other party to do so.

Each party is an independent contractor, and nothing under this MOU shall be construed to create an employment relationship, whether for tax or for any other purpose, nor any partnership or joint venture between the parties. No provision of this MOU grants either party any express or implied right of authority to assume or create any obligations or responsibility on behalf of or in the name of the other party, or bind the other party in any manner or thing whatsoever. Neither party nor its personnel shall be considered employees of the other.

Neither party shall assign or transfer this MOU or any benefits or rights or obligations accruing to it under this MOU, without the prior written consent of the other party.

IBM shall during the term of this MOU be entitled to audit the courseware & the software license usage records of licenses hosted on NU premises as well as training attendance records maintained by NU. This audit can be conducted only during reasonable business hours.

The existence and substance of this MOU and the rights and obligations of the parties herein will be kept confidential by NU and will not be disclosed to any third party without the prior written consent of IBM. Notwithstanding the foregoing, NU may make such disclosure to the extent required by law, court or statutory authority, in which case NU will promptly inform IBM to allow IBM a reasonable opportunity to obtain a protective order. IBM and NU agree not to use the trademark, trade names, services or any other proprietary marks of the other party in any advertisement, press releases, publicity matters or other promotional materials without prior written approval of the other party. Any press release, publicity or media interaction pertaining to this MoU signing or IBM activities on campus need to have prior written consent from IBM. The IBM logo shall not be used by NU in any of their communication. All references to IBM in any form of communication, materials, including course ware, shall not be published without being approved by IBM in advance. The use of IBM Logo shall be subject to prior written permission by IBM and under the terms of the applicable agreement such as Trade Mark License Agreement executed between NU and IBM or IBM's parent or affiliates. Any violation of this paragraph will amount to material breach and will lead to the termination of this MoU.

This MOU supersedes all prior oral or written communication, discussions and representations communicated between the parties hereto in respect of the subject matter of this MOU. Any modification to this MOU shall only be made by way of a written document duly executed by representatives of both parties hereto.

If any provision of this MOU is held to be unenforceable or illegal under certain circumstances for any reason, such decision shall not affect the validity or enforceability of such provisions under other circumstances or the remaining provisions hereof and such provisions shall be reformed only to the extent necessary to make them enforceable under such circumstances.

Any notice under this MOU will be in writing and delivered by hand or by registered mail, return receipt requested, to the other party at the registered office or as may be substituted by the notice. If any notice is sent by mail, notice will be effective on the date of receipt.

NU shall maintain at all times, a one-point contact for the IBM trainings being conducted at the institution. Any change in the contacts below will be promptly notified to IBM.

IN WITNESS WHEREOF, the parties hereto have executed this MOU on the date, month and year, hereinafter written.

NIIT University, Neemrana

For IBM India Private Ltd.

Name:

Name: AKILA VASUDEVAN

Designation: Registrar

Designation: DIRECTOR, IBM GLOBAL SERVICES INDIA PVT LTD

Signature: _____

Signature: _____

WITNESSES:

Manshe
Registrar
NIIT UNIVERSITY
Neemrana

Akila

MRS. AKILA VASUDEVAN

Sanyal
Dr. SUMANT SANYAL



Annexure I to MoU

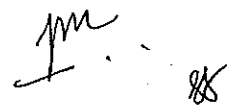
- a) IBM and NU, acknowledge the growing need for consulting and delivery skills, in the area of data science. The objective is to endeavor to have a number of graduating professionals skilled on analytics using relevant methodology and software. Both IBM and NU are keen to cooperate in a way that shall benefit NU students pursuing a career in the area of analytics.
- b) NU shall rollout a value added program in the area of data science with relevant software and methodology delivering it to the enrolled students from their B Tech batch. IBM shall endeavor to provide reasonable support as set-forth below to have NU commence and conduct this initiative. Such support may include, and inputs in curriculum design, inputs on assignments, software, industry projects and evaluation by IBM Subject Matter Experts.
- c) The curriculum will be developed by NU, which may include inputs from designated subject matter experts from IBM. There may be additional specialized offerings and curriculum, which may be reviewed and updated by IBM and NU from time to time with mutual agreement.
- d) Joint Co-ordination Committee - To guide the execution of the activities agreed under this MoU, NU and IBM may constitute a Joint Co-ordination Committee (hereinafter referred to as "Committee") as follows:
 - Vice-Chancellor / Head of NU or his nominee as the Chairperson;
 - One representative from each party as members
 - A Project Coordinator from NU who shall also be the Convener of the Committee

Chairperson of the committee may recommend changes in the member's from time to time in consultation with the nominating parties and have the same approved by the Head, NU.

The Committee shall recommend on course curriculum, course content, delivery, determination of fee. The Committee shall monitor and review the activities under this MoU and recommend such decisions with respect to any aspect regarding this MoU for the purpose of removing any impediment, promoting the programs arising from this MoU, approving the content and recommending changes therein, the program prospectus and fee structure.

Following are the proposed roles and responsibilities:

- e) IBM
 - Appoint member to the committee
 - Provide guidelines for student selection



- Deploy SMEs for providing inputs for curriculum design
- Support to students by way of providing them real world challenges for assignments and project experience
- Provide SME support for up to 2 guest lectures per analytics subject. This support is most likely to be remotely through video conferencing infra provided by NIIT
- Provide SME support for evaluation of assignment and mentoring up to 90 min of time per student during the program

f) NIIT University

- Appoint members and Program Convener to the Joint coordination Committee
- To develop the curriculum of the program as required
- Promote the program through various channels, develop collateral and market
- Conduct the admissions, deliver Courses agreed as per the curriculum, conduct evaluations/assessments and issue degree accordingly
- Provide detailed session plan
- Share the student data with IBM who apply and enroll to the program as per prescribed format from IBM
- Share the performance and evaluation details of students as required
- Nominate faculty members to conduct the program
- Provide the required infrastructure and other support for running the courses as per IBM's specification

List of Courses

- Business Analytics
- Distributed DBMS
- Big Data Concepts
- Inferential Statistics for Data Science
- Predictive modelling for Data Science
- Data Science Project

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Memorandum of Association (MOA)

for

Collaboration for conducting joint programs on Cybersecurity and Privacy

between

NIIT University, Neemrana

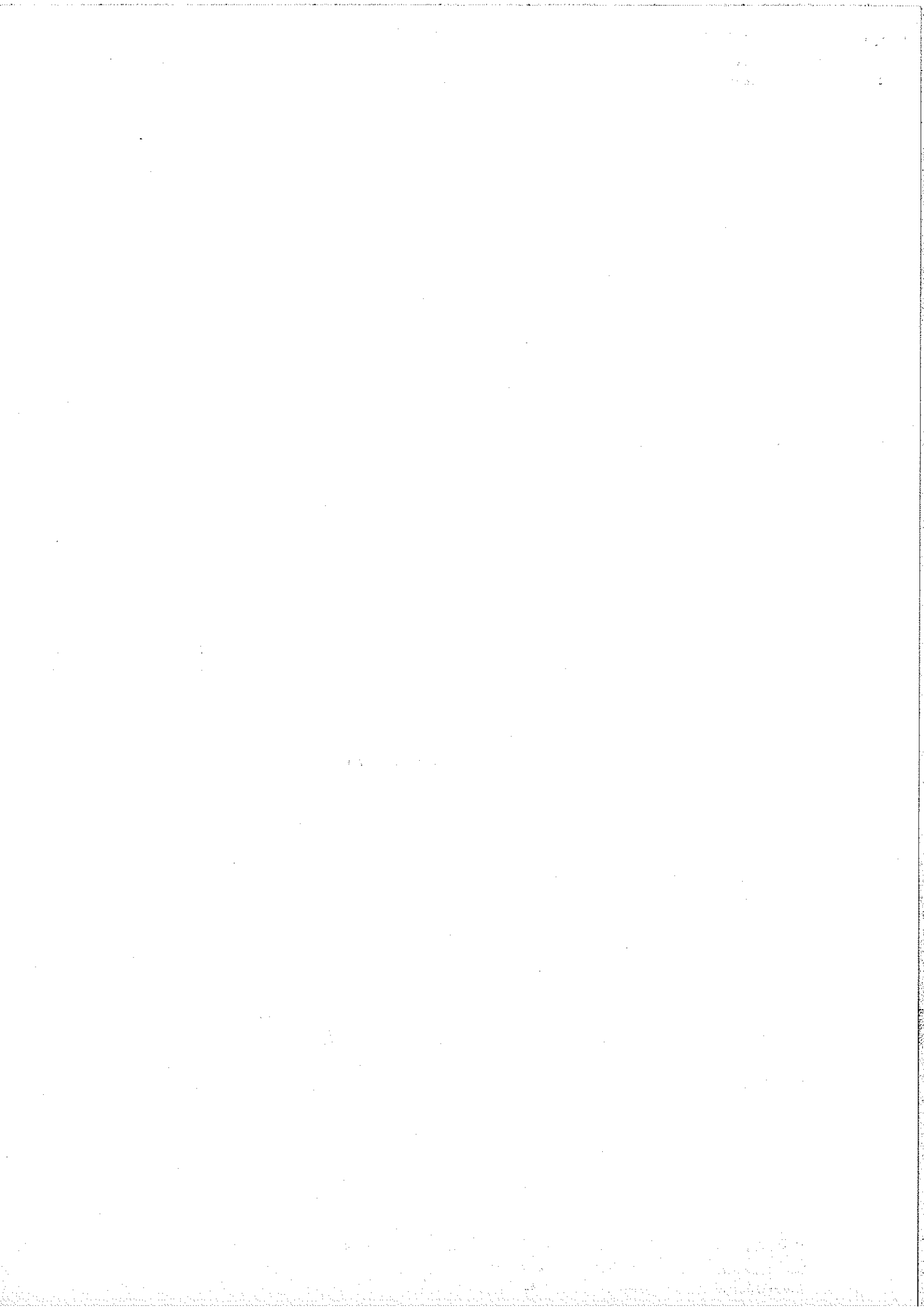
and

DATA SECURITY COUNCIL OF INDIA, Noida

Signed on 23rd day of December 2019

Dr. V.S. Rao President NIIT University, NH 8, Delhi- Jaipur Highway, District Alwar, Neemrana, Rajasthan 301705	Mr. Vinayak Godse Vice President Data Security Council of India NASSCOM Campus, Plot No. 7-10, Sector 126, Noida, UP, India -201303
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1. PREAMBLE

This Memorandum of Association (MOA) is made on 6th day of November 2019.

Between

NIIT University (NU) is a not-for-profit University established by the Government of Rajasthan in 2009, having its office NH 8, Delhi- Jaipur Highway, District Alwar, Neemrana, Rajasthan 301705 hereinafter referred to as "**NU**" which expression, shall unless repugnant to the context or meaning thereof include its successors and permitted assigns.

And

Data Security Council of India with its office, at NASSCOM Campus, Plot No. 7-10, Sector 126, Noida, UP, India -201303, hereinafter referred to as "**DSCI**" which expression, shall unless repugnant to the context or meaning thereof include its successors and permitted assigns.

1.1 NU and **DSCI** shall hereafter individually referred to as the 'Party' and collectively as the 'Parties'

WHEREAS

NU offers undergraduate, postgraduate and doctoral programmes in Computer Science and Engineering, Electronics and Communications, Biotechnology and GIS-Management; and

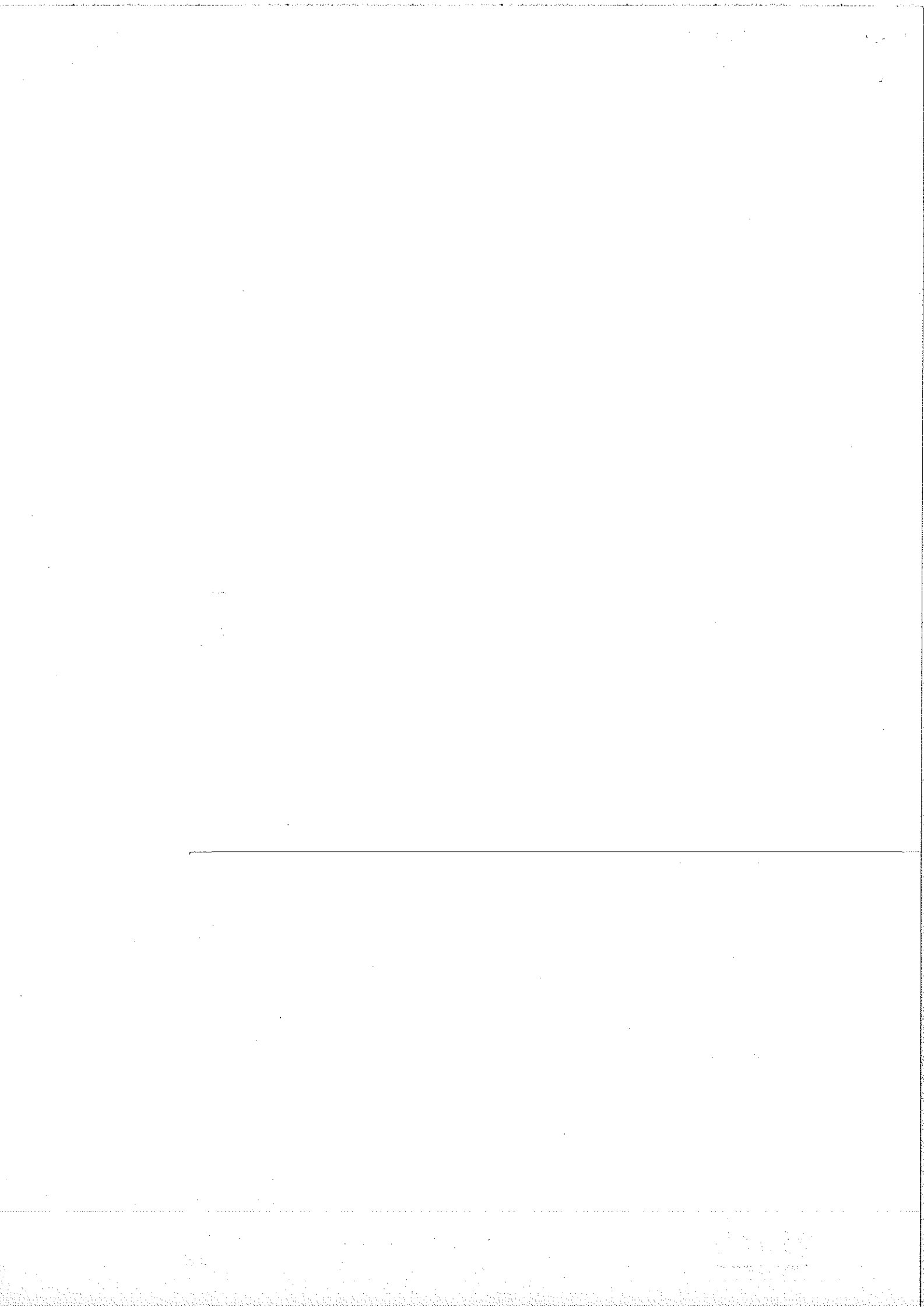
NU has partnered with the corporates and started MBA in Finance and Banking, MBA in Business Analytics. Similarly, **NU** has a partnered with the corporates to start courses in Data Science, AI and Cyber Security; and

DSCI, in collaboration with the Government of India is in a process of setting up **National Centre of Excellence** for Cyber Security Technology Development (**NCoE**) in Noida. It is a national initiative and will work as a multiplier for cyber security research, innovation, and product development; and

The **NCoE** initiative, in conjunction with **DSCI**'s other initiatives like Use Case Clearing House (**UCCH**), Cyber Security industry building, skill building and any such government programs that include regional initiative like Telangana Cyber Security CoE aims at building critical cyber security capability accelerating its CS momentum; and

The parties wish to join hands together to offer certain courses to the students with the objective to have more and more professionals in the relevant field of technology.





2. AUTHORIZED SIGNATORY

For NU:

the President, NU

And

For DSCI:

the Vice President, DSCI

3. FUNCTIONARIES AND CONTACT ADDRESSES, PHONE, EMAIL

3.1.NU:

S. No	Name	Designation	Phone / Fax	Email
1	Dr. V.S. Rao	President	+91 1494 660 602	President.Office@nii-tuniversity.in
2	Prof. Debashis Sengupta	Area Director, Computer Science and Engineering	+91 1494 660 684	debashis.sengupta@nii-tuniversity.in

3.2 Data Security Council of India, Noida

S. No	Name	Designation	Phone / Fax	Email
1	Rama Vedashree	CEO	+91-120-4990253	rama@dsci.in
2	Vinayak Godse	Vice President	+91-9873083123	vinayak.godse@dsci.in

All correspondence on the joint programs shall be between respective focal points identified in the above table.



4. EFFECTIVE DATE

4.1. Commencement:

The effective date for the commencement of this MOA will be the date of signing of the MOA by NU and DSCI.

4.2. Duration:

This MOA is valid for a period of **4 years** from the date of signing of MOA. If further extensions are required, it shall be by mutual consent of the Parties in writing.

5. Objectives

NU being an esteemed institution practices research, innovation and entrepreneurship, focuses on training, developing and strengthening the practical application of information and cyber security, encompassing the process and technology elements of cyber threat detection and mitigation.

DSCI would like to introduce Hackathons, Niche skill building training programs, Collaboration projects, Market research and Workshops on Cyber security and privacy in various DSCI Initiatives engagement like CoE, UCCH, Skill building, Cyber security industry building, any other such programs.

5.1. NU through the Center and **DSCI** will work jointly as an official academic partner & focus on various areas for Cybersecurity and Privacy. Below listed are the core objectives of this collaboration:

- (i) Strengthening further research and innovation in the field of cyber security
- (ii) Contributing to the realization of national goals and strategies of cyber security
- (iii) Promoting technology thinking in cyber security and developing security technology community
- (iv) Developing niche skills and capability for cyber security technology development and entrepreneurship
- (v) Creating a conducive ecosystem for translating research into market-ready products
- (vi) Incubating innovative cyber security ideas and start-ups
- (vii) Foster co-creating technologies and products with leading industry players and government institutions



6. Role of The Parties

6.1 NIIT University

6.1.1. **NU** for facilitating & conducting the Cybersecurity and Privacy programs - trainings, workshops and projects, **NU** will make the necessary arrangements in terms of finalizing the venue and provision of meals and refreshments along with co-ordination of logistics, provision of printed training material and hosting the program.

6.1.2. Role of **NU** will be as follows:

- (i) Providing academic and educational support to the initiatives carried in the university premises and at the regional and national level
- (ii) Execution of co-creation research and technology development projects
- (iii) Access to technology lab and infrastructure for cyber security research
- (iv) Conducting IP oriented research work in the area of cyber security
- (v) Focussing on cyber security in the academic programs and projects for under-graduate and post-graduate courses
- (vi) Logistic support for industry interactions, training, capability building, hosting hackathons and challenges, paper presentations, conferences, show-cases, and other such initiatives
- (vii) Based on availability of Faculty resource and if there will be no overlap with **NU** Academic Calendar events, participation in deliberations around cyber security problem statements and uses cases. Organizing campaigns and drive participation in the regional and national technology centric initiatives
- (viii) Incubation facility and space for cyber security entrepreneurship activities
- (ix) Development of the community of cyber security enthusiast around the campus area

6.2. DSCI

6.2.1. Role of DSCI will be as follows:

- (i) Promoting the expertise and work carried by the university at the regional and national level. And providing visibility at the level of industry and government
- (ii) Providing opportunities to participate in national, industry and strategic cyber security initiatives

- (iii) Developing and nurturing connections with industry and extending help in exploring the possibilities
- (iv) Assist in defining short-term and long-term cyber security research agenda
- (v) Assist in organizing skill and capability building programs, challenges and hackathons, and other such initiatives
- (vi) Guide the cyber security research and technology development through initiatives like use case clearing house and industry mentorship programs
- (vii) Exploring the possibilities of co-creation projects to carry out cyber security research
- (viii) Creating opportunities for the university students and researchers in industry and large national initiatives
- (ix) Building agenda of cyber security in the existing incubation activities. Aid the process of incubation and on-boarding of cyber security start-ups
- (x) Assist in building technical infrastructure, accessing core technologies, and lab infrastructure for cyber security research and incubation
- (xi) Extending support of cyber security ecosystem for productization and commercialization of the research

6.3. Provisions for SOW

- 6.3.1. A separate SOW will be signed by both the Parties for undertaking any of the specific initiatives/objectives under this MOA.
- 6.3.2. The commercial terms of SOW would be mutually agreed upon by both the parties.
- 6.3.3. Such separate SOW will cover the detailed arrangements between the parties for any joint program or initiative.

7. CONFIDENTIALITY

Both NU and DSCI agree that due regard shall be given to the confidentiality of the information which may come their way in the dealings under this MOA. The terms of this MOA and the information shared under this MOA are confidential information.



8. MODIFICATIONS

Any further modifications to this MOA, if required, would be through amendments with mutual consent in writing.

9. FORCE MAJEURE

Neither Party shall be held responsible for non-fulfillment of their respective obligation under the MOA due to exigency of one or more of the unforeseen events such as but not limited to Acts of God, war, flood, earthquake, cyclones, strikes, lockouts, epidemics, riots, civil commotion etc. provided on the occurrence and cessation of such events, they effected thereby shall give notice in writing to other Party within one month of such occurrence or cessation. If the force-majeure conditions continue beyond six months, the Parties shall then mutually decide about the future course of action.

10. JURISDICTION

The Courts at Delhi shall alone have the jurisdiction to decide any dispute arising out of or relating to or connected with this MOA.

11. TERMINATION

During the tenure of this MOA, either Party may terminate and nullify this MOA by providing prior written notice of 30 days to the other Party for any of the reasons - Cause/ /Force Majeure

11.1 Termination for Cause: For the breach of obligations/ responsibilities/ conditions of this association by the other Party, with an opportunity to cure/rectify such a situation within thirty (30) days to the defaulting Party and no remedial action is taken to the satisfaction of the aggrieved Party.

11.2 Termination for Force Majeure: in the event of "Force Majeure" as defined in this MOA.

Termination shall not affect the projects/ assignments agreed to be undertaken by both the Parties before such termination and both the Parties should complete such projects/ assignments as if this MOA is in operation.

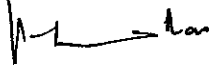
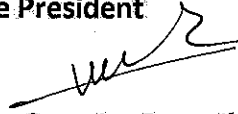
On termination, Each Parties shall handover the data and disk to the Party owning it.

11.3 Obligations upon Termination

Following termination or expiration of this MOA, in addition to any other obligations existing hereunder or otherwise at law or in equity,

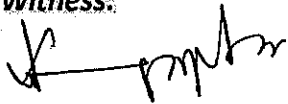
- (a) The rights and obligations of the Parties thereto shall be settled by mutual discussion; the financial settlement if any shall take into consideration not only the expenditure incurred but also the expenditure committed by the Parties hereto.

IN WITNESS WHEREOF, the Parties hereto have caused this MOA to be signed in their respective names on this 23rd day of December 2019

<p>Dr. V.S. Rao President</p>  <p>NIIT University, NH 8, Delhi- Jaipur Highway, District Alwar, Neemrana, Rajasthan 301705</p>	<p>Mr. Vinayak Godse Vice President</p>  <p>Data Security Council of India NASSCOM Campus, Plot No. 7-10, Sector 126, Noida, UP, India -201303</p>
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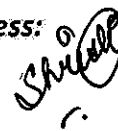
Witness:



Name: **Prof. Debashis Sengupta**
Area Director,
Computer Science & Engineering

Address: NH 8, Delhi- Jaipur Highway, District
Alwar, Neemrana, Rajasthan 301705

Witness:



Name: **Shristi Srivastava**
Administrator-DSCI-NCoE

Address: Data Security Council of
India NASSCOM Campus, Plot No.
7-10, Sector 126, Noida, UP, India -
201303



MEMORANDUM OF UNDERSTANDING
Esri Contract Number 2015A1336

This Memorandum of Understanding ("MOU") is between **Environmental Systems Research Institute, Inc. ("Esri")**, a corporation organized and existing under the laws of the State of California, United States of America, with its principal place of business at 380 New York Street, Redlands, California USA 92373, and **NIIT University ("NU")**, a University, legislated and existing under the laws of India and located at Neemrana, Dist. Alwar (Rajasthan), India.

Esri is the developer, copyright owner, and licensor of geographic information system ("GIS") software and provides traditional training courses in the use of Esri Software and in GIS technologies; and

NU is a University set up in 2009 with the vision of being the leading institution of innovation and learning in the emerging areas of knowledge society. It has been developed as an institute of excellence based on the four core principles that make learning industry linked, technology based, research-driven and seamless.

NU and Esri have previously entered into an Education Site License Agreement for the licensing of Esri GIS software. NU and Esri wish to expand their relationship and collaborate to facilitate the education and training of selected students in the use of GIS technologies.

NU is delivering a post-graduate technology programme in GIS to meritorious students.

Esri wishes to sponsor selected students enrolled in such post-graduate programmes in GIS by offering scholarships in an amount to be determined annually by Esri.

Accordingly, Esri and NU agree that this MOU, when signed by both parties, will confirm their mutual agreement on the terms and conditions of the Parties' collaboration and Esri's sponsorship of NU students enrolled in the GIS Programme.

1. TERM AND TERMINATION

1.1 This MOU shall be effective from and after the date it is signed by both parties and shall continue in effect for a term of five (5) years unless earlier cancelled by either party upon written notification to the other as provided below.

1.2 This MOU may be terminated prior to the expiration of the term:

- a. By either party, for a material breach of this MOU by the other party, which remains uncured for more than thirty (30) days after receipt of notice thereof;
- b. By NU or Esri, for convenience, provided that termination by either party for convenience shall not affect the ability of NU to fulfill its obligations under any commitment made by NU or Esri in good faith and in accordance with this MOU; or
- c. By NU or Esri, upon the insolvency of either party, including any assignment for the benefit of creditors, the filing of a petition in bankruptcy, the placing in receivership, or the equivalent of any such proceedings, though known or designated by some other name or term.

2. SPONSORSHIP PROGRAM

2.1 Esri Responsibilities

- a. Esri agrees to sponsor students in the GIS Programme in cooperation with NU. The Esri scholarship will be used to cover student university and hostel expenses only. For the 2014-2015 academic year, Esri will remit US \$60,000. The first installment of US \$32,250 will be released upon execution of this MOU and net thirty (30) days of the date Esri completes export screening of student names and notifies NU of same, and the second installment of US

\$27,750 will be sent no later than August 10, 2015. Any additional fees in connection with the GIS Programme or hostel expenses are the responsibility of the students.

- b. Annually beginning in August 2015, for the 2015-2016 academic year, Esri agrees to donate 30% of its dividend earned as a shareholder in NIIT GIS, Ltd. The amount of the dividend (and thus the amount of the annual scholarship) will be variable. Therefore, beginning in June 2015, Esri will notify NU in writing, the amount that Esri will be making available to NU for scholarship for that year. Such amount will then be paid to NU in one lump sum in August of that year provided the export screening has been completed.
- c. Esri will collect student names from NU for US export screening, and will notify NU of the results, and in the event there are any issues. Esri agrees to use student names only as necessary for the performance of Esri's obligations under this MOU.

2.2 NU Responsibilities

- a. NU shall be responsible for selecting the students who are the recipients of the scholarship, and providing their names to Esri for export Denied Party screening through the Esri point of administrative contact identified in section 2.4.
- b. NU agrees to obtain any consent required under Indian privacy laws prior to disclosing student names to Esri.
- c. NU agrees that the scholarship funds paid by Esri to NU pursuant to this MOU will be used solely for the required university and hostel expenses of the students selected in GIS Programme.
- d. Subject to the annual donation limits determined by Esri, the amount of the scholarship to be disbursed to the students shall be decided by the NIIT University at the beginning of the admission year.

2.3 Curriculum details: The current approved curriculum of the Programme is attached hereto as Exhibit 1. The curriculum is subject to revision. Changes to the curriculum, if any, will be communicated to Esri.

2.4 Esri and NU have agreed to establish this program for the purpose of enhancing the ability of selected individuals to use GIS technologies to solve and manage environmental and social problems.

2.5 Each party shall identify a point of administrative contact to coordinate the sponsorship program. NU will provide student information to Esri's point of administrative contact.

For NU:
Name: Dr. Parul Srivastava
Email: area.gis@niituniversity.in

For Esri:
Name: Annie L'Heureux
Email: alheureux@esri.com

3. EXPORT COMPLIANCE

Each Party will comply with all applicable U.S. export laws and regulations and will neither undertake, nor cause, nor permit to be undertaken, any activity that (1) is illegal under any applicable laws, decrees, rules or regulations in effect in the United States; or (2) would have the effect of causing the other Party to be in violation of any applicable laws, decrees, rules or regulations in effect in the United States. NU specifically will not reexport, resell or otherwise dispose of technology or goods transferred pursuant to this MOU, except in accordance with all U.S. Government export licenses and regulations, as they may be amended from time to time.

4. GENERAL

4.1 This MOU is personal to the parties and may not be assigned or transferred by either party or by operation of law. Any attempt to assign or otherwise transfer any interest in this MOU shall be void; provided, however, that rights to payments due to either party under this MOU may be assigned so long as notice of any such assignment or transfer is furnished promptly to the other party in writing.

4.2 This MOU does not establish a principal and agent, employer and employee, or partnership relationship between Esri and NU, and no such relationship shall be deemed to exist between them. Neither party shall have the power to obligate or bind the other party.

4.3 Any legal notice required or permitted in this MOU shall be addressed as follows:

To Esri:

Environmental Systems Research Institute, Inc.
380 New York Street
Redlands, CA 92373-8100
USA
Attention: Director of Contracts and Legal Services
Facsimile: (909) 307-3020
Telephone: (909) 793-2853, ext. 2248
E-mail: kmoreno@esri.com

To NU:

NIIT University
Neemrana, Dist.
Alwar (Rajasthan)
India
Attention: Registrar
Facsimile: (01494) 302418
Telephone: (01494) 302 405
E-mail: Registrar@niituniversity.in

Either party may change its representative or address above by written notice to the other.

E-mail may be used as a medium for providing notice under this MOU; provided, however, that any such e-mail shall not be deemed effective unless and until receipt of such e-mail notice is acknowledged by the receiving party.

4.4 This MOU can be modified only by a subsequent written agreement signed by Esri and NU.

4.5 This MOU constitutes the whole and complete agreement between Esri and NU concerning the subject matter hereof and supersedes all prior written or oral agreements between the parties. In signing and delivering this MOU, neither party has relied upon any oral or written representations or inducements that are not set forth in this MOU.

5. TAXES

Each party is responsible for the payment of its own respective taxes, if any, arising out of the MOU, and neither party shall be responsible for taxes on income of the other party.

6. GOVERNING LAW AND JURISDICTION

This MOU is governed by and shall be construed in accordance with the laws of the State of California. The federal and state courts residing in Riverside or San Bernardino County, California, have jurisdiction over any claim brought under this MOU, and the parties hereby consent to the personal jurisdiction of such courts.

7. ASSIGNMENT, DELEGATION, AND SUBCONTRACTING

7.1 **No Assignments.** NU and students may not assign any of their rights under this MOU, except with the prior written consent of Esri. All assignments of rights by NU is prohibited under this subsection, whether they are voluntary or involuntary, by merger, consolidation, dissolution, operation of law, or any other manner.

IN WITNESS WHEREOF, the parties have caused this MOU to be executed and effective as of the last date written below.

NIIT UNIVERSITY
RAJENDRA KUMAR PANDEY
President
By: [Signature]
NIIT University
Neemrana, Rajasthan

Printed Name: _____
Title: _____
Date: _____

ENVIRONMENTAL SYSTEMS
RESEARCH INSTITUTE, INC.
(Esri)
By: [Signature]
Authorized Signature

Printed Name: Jack Dangermond
Title: President
Date: 13 APRIL 2015

Exhibit 1
Curriculum Details

List of GIS Courses in MTech

Code	Course Title	L	T	P	C
Semester I					21
GIS 561	Cartography and Photogrammetry	2	0	2	3
GIS 511	Remote Sensing and Digital Image Processing	3	0	2	4
GIS 561	GIS, Geospatial Databases and Technology Trend	2	0	4	4
GIS 541	GIS Programming	2	0	4	4
GIS 571	Geostatistics, Geocomputation and Spatial Analysis	2	0	2	3
TA 531	Oral and Written Communication	3	0	0	3
Semester II					21
GIS 502	Advanced Remote Sensing and Digital Photogrammetry	2	0	4	4
GIS 512	Advanced GIS Programming	2	0	4	4
GIS 532	Geospatial Field Techniques and Application Integration	2	0	4	4
GIS 542	GIS Project Management -I	2	0	2	3
	Professional Elective I	2	0	2	3
TA 521	Advanced Productivity Tools	3	0	0	3
Semester III					18
	Professional Elective II	2	0	2	3
	Professional Elective III	2	0	2	3
	Open Elective 1	3	0	0	3
GIS 601	GIS Project Management II (Research Project)	2	0	4	4
NU 522	Contemporary Issues	2	0	0	2
MGT 582	Technology Management	3	0	0	3
Semester IV					12
NU 612	Internship				12
Total Semester Credit					72

Description of Courses Offered in MTech

Professional Compulsory Courses

Course Title: Cartography and Photogrammetry

LTPC: 2023

Course Description:

Students are introduced to basics of Cartography and Photogrammetry. They will further learn topographic and thematic maps, basic characteristics of map, cartographic representation of geographic objects, Generalization, Symbolization and scalable output generation. Also, in photogrammetry they will be introduced to concepts of scale, tilt and relief displacement, parallax and orientation theory.

Topics covered:

Types of maps, Earth coordinates and datum, Map Projections, Scales and coordinate systems, Ground Survey and positioning, Digital cartographic information and digitizing maps, Symbolization of features attributes as points lines and areas, Multivariate mapping and map composition, Satellite Navigation Systems, Fundamentals, Scale concept, Tilt and Relief Displacement, Methods of depth perception, Concept of Parallax, Theory of orientation, Stereo coverage

Course Title: GIS, Geospatial Databases and Technology Trend

LTPC: 2044

Course Description:

This course intends to introduce students with the basic concepts of GIS which will help them in understanding the difference between GIS and Information Systems in general, GIS Components and functions of GIS: h/w & s/w requirements, Data types and spatial data models. Idea of conceptual, logical and physical models. Geospatial Databases will give an exposure to RDMS, Database normalization Representation of the real world via a vector and raster representation model. Spatial data and attribute data, their sources, types of attributes (such as nominal, ordinal, interval, ratio). geographical data formats (such as coverage, geo- database, shape file, grid, dxf, dwg, geo-tiff, GML). Spatial Data quality and uncertainty, Non Spatial Database Creation, Database Design using RDBMS, principal operations in a DBMS (selection, insertion, updating, deletion Normalization rules, Data quality and sources of error in GIS). With a view to introduce students to various Technology Trend, they will be acquainted with GIS Customization, Cloud GIS, Data warehousing, OLAP, SDSS, distributed, spatial modeling, parallel and GPU, Spatial data infrastructure (i.e. integration and standards etc.), Free and Open Source tools and web resources). They will be made familiar with spatial decision problems and decision support systems.

Topics covered:

Spatial input techniques and devices, Non Spatial Database Creation, Introduction to Database, ER Model, ER to Relational Model, Normalization (1NF to 5NF), Query Languages - RA and SQL
GeoDatabase: Types, Functionalities, Datamodels, Technology Trend

Course Title: Geostatistics, Geocomputation and Spatial Analysis

LTPC: 2023

Course Description:

Students will be introduced to various statistical tools of Image Processing. Students would learn Spatial modeling and multi criteria analysis - Principles and components of multi -criteria Decision Making, Main multi-criteria evaluation methods/ techniques, Quantitative vs. qualitative multiple-criteria

evaluation Techniques, Practical application on spatial multiple criteria decision making. This course further intends to provide them an understanding of Geo-computation and spatial analysis, Geo-computation models, spatial computation concepts (network, track and distance computation), Computational spatial statistics, Search, classification, prediction and modeling, Knowledge discovery in spatial data. They will also learn concepts of Contents based image retrieval, data mining concept, artificial intelligence and machine learning methods for knowledge discover and pattern recognition. Spatial models (Numerical, fuzzy, statistical etc.), programming for spatial modeling using Python and R, Issues related to Geo-computations.

Topics Covered:

Statistics for Image Processing, Spatial modeling and multi criteria analysis, Geo-computation models, Data mining concept

Course Title: GIS Programming

LTPC: 2044

Course Description:

This course focuses on introducing students to basic programming concepts: flow chart etc. To further meet the challenging requirement of JAVA in GIS industry, they will be given exposure to Structure of core JAVA program, Pre-processors Directive (Core JAVA, C#. Net , VB .Net), Data Types- Literal constant, Variables, Pointer, String, const, Qualifier, Reference, Bool, Enumeration, Array, Vector, Complex Number, Typed of, Volatile Qualifier, Pair, Class Type; Expression: Expression, Arithmetic, Relational and Logical Operator, Assignment Operator, Precedence, Increment Decrement, Conditional Operators, Size of, new, delete, Comma operators, Bit Wise Operators, Type Conversion. Statements: Simple and Compound Statements, Declaration Statements, if, switch, for, Loop, while, do while, break statements, continue statements, goto. Abstract Container Types-Vector, Sequence Container, Iterators, Multimap, Multiset.

Topics covered:

Basic programming concepts, Java and C#, OOPS Programming, Introduction to Arc Objects, Accessing Maps and Layers, Interface Programming, Venturing into ArcCatalog

Course Title: Advance Remote Sensing and Digital Photogrammetry

LTPC: 2044

Course Description:

Students will be introduced to Data Processing for stereo generation, Control requirement for Satellite Triangulation, Sensor Modeling: Physical sensor models, Polynomial Rectification, RFM/RFC Automatic DEM generation (Concept in image matching Area Based Matching, Feature Based Matching, Relation Based Matching). They will be made familiar with structures of DTM (Contours, Grid, and TIN), DEM interpolation techniques (IDW, spline, kriging etc) Grid Sampling criteria, Grid re-sampling methods, DTM derivatives (slope maps, aspect, maps, view sheds, and watershed)

Topics to be covered:

Microwave Remote Sensing, LiDAR, Thermal & Hyperspectral Remote Sensing, Hyper-spectral Remote Sensing, Hyperspectral Data processing techniques, Digital processing of Microwave data, Data Processing for stereo generation, Definitions DTM, DEM, DSM, nDSM, Applications and visualization, Differential Rectification ortho-image/ image map generation

Course Title:

LTPC: 2023:

Course Description:

1. The main aim of this course is to develop an understanding that project management is critical process of defining and achieving a target while optimizing the use of overall resources.
Overview of GIS project: Introduction, Concepts and scope, Conceptual framework for Initiation and planning of GIS project, Technology Seminar for product/output, Strategic purposes, Scoping of the system-Case studies, Planning of Project proposals, Timeline Development, Development of Team, Data designing, Structuring of the data – selection of data model, System requirements, Cost benefit analysis, Risk Analysis, Dealing with legal issues, Comparative Evaluation Proposal Structure and Development, Discussion of Sample Projects, RFP Assessment in development of proposal
2. The aim will be achieved by developing an understanding that projects are not only entrepreneurial activities to fulfill some time-bound operational objectives for earning profits, but are critical milestones in the overall framework of organization/group. Students will be trained to analyze the top-down process of enterprise and research level strategy planning leading to specific goals with project planning and management as the central idea.

Topics to be covered:

Introduction to concepts and scope

Initiation and Planning

Cost Benefit Analysis, Risk Management

Proposal Development

Required Text Book: Thinking About GIS by Roger Tomlinson.

Course Title: Advanced GIS Programming

LTPC: 2044

Course Description:

This course intends to introduce students with concepts of Website and web services, Basics of HTML and XML, GIS system architecture, data interoperability and OGC standards, web server, application server and database server, GIS servers (Geoserver, Mapserver, ArcGIS server etc.), Web 2.0 and AJAX, public participation in web GIS (e.g. OSM), Geo-web services, web mapping applications (Google map, Bhuvan, Bing map etc.), location based services and mobile mapping, latest trends in web based GIS (distributed GIS, cloud GIS, pervasive computing etc.) development of mashup application using geo-web services.

Topics covered:

Object Based Programming, Integration of GIS with other Platforms, GIS Web Systems

Open Elective

Course Description: Principles and Practices of DMS and Architecture around Data Management

LTPC: 3003

Course Description:

This course aims to cover GIS system architecture design strategies and infrastructure architecture alternatives that support successful enterprise operations. Students will learn comprehensive guidelines for planning and selecting the right system solution to meet organization's needs. This course will also cover performance validation and system capacity planning techniques for enterprise GIS deployments.

This will help in identifying and collecting user workflow requirements for an enterprise GIS system. Describe software alternatives for each identified user workflow. Recognize factors that impact GIS software performance and scalability. The will focus on how to identify network bandwidth requirements and remote client performance expectations. Develop a target enterprise hardware design to support your system performance needs.

Topics covered:

System design process, GIS software technology, Software performance, Server software performance, GIS data administration, Network communications, GIS product architecture, Platform performance, Information security, Performance management, System implementation

Course Title: Business Environment and Fundamentals of Management

LTFC: 3 0 0 3

Course Description:

Basic understanding of business concepts, analytical tools and frameworks sharpen the edge of skills-set and capabilities of a student. This course intends to provide an overview of management of a business organization in a challenging, complex and dynamic environment which is by now well globalised. It would enable the students to be acquainted with the processes, policies and factors governing the performance of a business organization. The students will acquire the basic skills of evaluating the GIS projects in terms of its economic and business feasibility and its socio-economic implications at large. The course will use lectures, group projects and case studies to develop learners' analytical thinking and decision-making skills.

Topics covered:

Principles and process of management, Basics of organizational behavior, The firm and its macroeconomic environment, Role of Government policies and societal issues in shaping the overall business conditions, Globalization and its implications for GIS, Analysis of industry and competition, Basics of marketing management: Marketing Mix; Positioning , Financial aspects of a business: time value of money, capital structure and budgeting, managing cost and control, Business analysis, Business planning, Application of business concepts and frameworks to GIS projects

Professional Electives

Course Title: Geoinformatics for Environment

LTFC: 2023

Course Description:

This course would enable students develop skills widely adopted by industries, research communities, and decision makers to monitor, to study and to enhance environment analysis. With integration of Geospatial technology students would be able to understand use of this tool in assessment of impacts on environment on timely basis. The course will introduce students to applications of Geoinformatics to various domains related environment such as Environmental Geodesy, Geo-environmental indicators, Environmental Surveying and Surveillance, Maps in Environmental Monitoring, Satellite Environmental Sensing, Weather, Climate and Global Warming, Environmental Pollution and Environmental Impact Assessment etc.

Topics covered:

Need of environment monitoring, challenges and practices, Introduction to GIS in environmental management and monitoring, Dimensions of space, time and scale, Digital Earth Concept, Environmental Geodesy (Fundamentals of Surveying and Geodesy, concept of GNSS and GPS), Geo-

environmental indicators, Environmental Surveying and Surveillance, Maps in Environmental Monitoring, Satellite Environmental Sensing, Weather, Climate and Global Warming, Environmental Pollution, Environmental Impact Assessment,

Course Title: Mobile GIS

LTPC: 3003

Course Description:

This course introduces students to concepts in Mobile GIS technology, GPS theory, and the integration of GPS and GIS data. Students will learn how to use hand-held GPS units, hand held personal computers, and GPS software. Students would be able to plan a mobile project for use within an enterprise system and can choose appropriate data management and transaction models to support real-time field data collection. They will be able to create mobile map services that are optimized for use in the field and assess security needs and options for a mobile project. This will help in quickly configuring and deployment of a mobile project. Additionally, this will provide students a tool to synchronize data collected in the field with a geodatabase optimized for a mobile project. The course will emphasize the integration of geospatial technologies for field surveys.

Topics covered:

Types of Mobile GIS Technologies, Cloud/Online GIS, Mobile Planning Solution, Customizing / Creation of mobile Apps

Course Title: GIS for Monitoring Natural Resource and Environmental Impacts

LTPC: 2 0 2 3

Course Description:

Geospatial technology has been widely adopted by industries, research communities, and decision makers to monitor, to study and to enhance natural resources. With integration capacity of GIS it also allows assessment of impacts on natural resources on timely basis. The course will introduce students to applications of GIS to various domains related natural resources such as hydrology, air pollution, coastal zones and risk analysis, human resources (community health), etc. The course also involve active participation by students where students will select research articles, studies, project reports related to respective modules and discuss them in the class to bring out their understanding about GIS application. This activity will be a group activity.

Topics Covered:

Spatial Data, Uncertainty, Need of Environmental Impact Assessment, Cell based modeling, Geodatabase Design guide, Analyzing geographic relationships, Hydrology, Water cycle, Constructing Hydrograph and interpretation, Hydrological Modeling - Surface water, Ground water, Air pollution, Pollution/Contamination study, Wetlands and Coastal Zone Management
Wetlands, Coastal Zone Management, Public Health, Medical Mapping, Public Health, Disease Ecology, Resource Management, Conservation, Landscape Ecology, Raster Overlay analysis, Cost analysis for movement, Change Detection Analysis

RE: Final List : M.Stanley

MG, Rajiv <Rajiv.MG@morganstanley.com>

Wed 10/28/2020 5:46 PM

To:Geetica Rastogi <Geetica.Rastogi@niituniversity.in>;Girkar, Madhura <Madhura.Girkar@morganstanley.com>

Cc:campusindia <campusindia@morganstanley.com>

Hi Geetica,

After completion of all the interview process, we are pleased to confirm 6 months internship offer to below candidate. Please communicate to the candidate and respond to us with the acceptance.

Thank you very much for the support extended in coordinating for the selection process.

1) Vista Vincent.

Regards

Rajiv M G

From: MG, Rajiv (HR)

Sent: Thursday, October 22, 2020 7:07 PM

To: 'Geetica Rastogi' <Geetica.Rastogi@niituniversity.in>; Girkar, Madhura (HR) <Madhura.Girkar@morganstanley.com>

Cc: campusindia <campusindia@morganstanley.com>

Subject: RE: Final List : M.Stanley

Hi Geetica,

As discussed below 3 candidates have cleared the technical round and they will have further rounds of Interview over the weekend.

1) Vista Vincent

2) Sanya Kapoor

3) Sakshi

Next Round : Technical + Professional fitment

We will communicate the candidates about the further interview schedule by tomorrow EOD.

Regards

Rajiv M G

From: Geetica Rastogi <Geetica.Rastogi@niituniversity.in>

Sent: Wednesday, October 21, 2020 4:04 PM

To: Girkar, Madhura (HR) <Madhura.Girkar@morganstanley.com>

Cc: campusindia <campusindia@morganstanley.com>; MG, Rajiv (HR) <Rajiv.MG@morganstanley.com>

Subject: RE: Final List : M.Stanley

Also,

Just wanted to check a bit about the type of(details) interview process so that students are well prepared.

Can you help confirm.

Regards,

Geetica S R Chaudhary

Senior Director -Centre for Industry Collaboration



NIIT University, Neemrana, RJ

Mobile: +91- 9599940601

"Smile Coz Its Contagious"

From: Geetica Rastogi

Sent: Wednesday, October 21, 2020 3:47 PM

To: Girkar, Madhura <Madhura.Girkar@morganstanley.com>

Cc: campusindia <campusindia@morganstanley.com>; MG, Rajiv <Rajiv.MG@morganstanley.com>

Subject: RE: Final List : M.Stanley

Thanks Madhura for the details below.

Will share with students right away.

Find the Resumes attached as seeked.

Regards,

Geetika S R Chaudhary

Senior Director -Centre for Industry Collaboration



NIIT University, Neemrana, RJ

Mobile: +91- 9599940601

"Smile Coz Its Contagious"

From: Girkar, Madhura <Madhura.Girkar@morganstanley.com>

Sent: Wednesday, October 21, 2020 3:45 PM

To: Geetika Rastogi <Geetika.Rastogi@niituniversity.in>

Cc: campusindia <campusindia@morganstanley.com>; MG, Rajiv <Rajiv.MG@morganstanley.com>

Subject: RE: Final List : M.Stanley

Hi Geetika,

Please find below the interview schedule for tomorrow. Also kindly request you to share the resume of these candidates at the earliest.

Kindly request you to inform the candidates to join the below Zoom Meeting room as per the schedule. Please find the manual on Instruction to the Zoom Interviews attached.

Meeting ID: 320 088 0481

Password: 1709

Candidate Name	College Email Id	College Roll Number	Time
Shivam Thakrani	Shivam.Thakrani@st.niituniversity.in	BT17GCS246	8:00 am
Vista Vincent	vista.vincent@st.niituniversity.in	BT17GCS150	9:00 am
Navneeth Krishnan	navneeth.krishnan@st.niituniversity.in	BT17GCS065	10:00 am
Sanya Kapoor	sanya.kapoor@st.niituniversity.in	BT17GCS098	10:30 am
Sakshi	sakshi.dhawan@st.niituniversity.in	Bt17gcs097	11:00 am
Arnav Goel	arnav.goel@st.niituniversity.in	BT17GCS015	11:45 am

Madhura Girkar

Morgan Stanley | Human Resources

Athena Bldg. No. 5, Sector 30 | Mindspace, Goregaon (West)

Mumbai, 400 090

Phone: +91 22 6641-1521

Madhura.Girkar@morganstanley.com

From: MG, Rajiv (HR) <Rajiv.MG@morganstanley.com>

Sent: 21 October 2020 13:44

To: Geetika Rastogi <Geetika.Rastogi@niituniversity.in>

Cc: campusindia <campusindia@morganstanley.com>

Subject: RE: Final List : M.Stanley

Hi Geetika,

Please find below the list of candidates shortlisted for interview process. We will schedule these candidates for the interviews on 22nd October, Thursday and will share the interview schedule shortly.

Next round of interviews. Each interview rounds will have elimination based on the performance in interviews.

1 Technical Interview

1 Technical + Professional fitment

Kindly request you to share the resume of these candidates.

Candidate Name	College Email Id	College Roll Number
Shivam Thakrani	Shivam.Thakrani@st.niituniversity.in	BT17GCS246
Vista Vincent	vista.vincent@st.niituniversity.in	BT17GCS150
Navneeth Krishnan	navneeth.krishnan@st.niituniversity.in	BT17GCS065
Sanya Kapoor	sanya.kapoor@st.niituniversity.in	BT17GCS098
Sakshi	sakshi.dhawan@st.niituniversity.in	Bt17gcs097
Arnav Goel	arnav.goel@st.niituniversity.in	BT17GCS015

Regards
Rajiv M G

From: Geetica Rastogi <Geetica.Rastogi@niituniversity.in>
Sent: Monday, October 19, 2020 11:31 AM
To: MG, Rajiv (HR) <Rajiv.MG@morganstanley.com>
Subject: RE: Final List : M.Stanley

Hi,
Any update on the shortlisted from the test conducted.

Regards,

Geetica S R Chaudhary

Senior Director -Centre for Industry Collaboration



NIIT University, Neemrana, RJ

Mobile: +91- 9599940601

"Smile Coz Its Contagious"

From: MG, Rajiv <Rajiv.MG@morganstanley.com>
Sent: Thursday, October 8, 2020 10:05 AM
To: Geetica Rastogi <Geetica.Rastogi@niituniversity.in>
Subject: RE: Final List : M.Stanley

Hi Geetica,

We will confirm the online test date by tomorrow EOD.

Regards

Rajiv M G

From: Geetica Rastogi <Geetica.Rastogi@niituniversity.in>
Sent: Thursday, October 8, 2020 10:00 AM
To: MG, Rajiv (HR) <Rajiv.MG@morganstanley.com>
Subject: RE: Final List : M.Stanley

Hi,

A very Good morning!

Awaiting your kind response on this.

Post confirmation of date and test syllabus ,will inform students.

Regards,

Geetica S R Chaudhary

Senior Director -Centre for Industry Collaboration



NIIT University, Neemrana, RJ

Mobile: +91- 9599940601

"Smile Coz Its Contagious"

From: Geetica Rastogi
Sent: Monday, October 5, 2020 10:39 AM
To: MG, Rajiv <Rajiv.MG@morganstanley.com>
Subject: Final List : M.Stanley

Dear Rajiv,

PFA final list of shortlisted applicants who will appear for the screening process.

List has 97 students.

Kindly consider this.

Do confirm the date and syllabus of test ,accordingly will inform students.

I proposed 15th Oct from my side.

Regards,

Geetica S R Chaudhary

Senior Director -Centre for Industry Collaboration



NIIT University, Neemrana, RJ

Mobile: +91- 9599940601

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Offer letter from HCI Technologies

gauri.sinha

Tue 10/13/2020 3:19 PM

To:Geetika Rastogi <Geetika.Rastogi@niituniversity.in>

Cc:Sweta Singh <sweta.singh@niituniversity.in>;Centre for Industry Collaboration <NU-CIC@niituniversity.in>

📎 1 attachments (167 KB)

Offer letter.pdf;

Dear Ma'am,

Greetings of the day!

PFA the offer letter from HCI Technologies. I'll be joining the company from November 5th, 2020. Thank you for the constant support.

Regards,

Gauri Sinha

NIIT University, Neemrana, Rajasthan

Class of 2020, Computer Sci. Engineering Major.

Specialization : Cyber Security

+91-9711049421| gauri.sinha@st.niituniversity.in



RE: Test results

Sood, Preeti <preeti.sood@genpact.com>

Sat 12/26/2020 3:50 PM

To:Geetica Rastogi <Geetica.Rastogi@niituniversity.in>

📎 1 attachments (927 KB)

NIIT Internship offer letters.zip;

Hi Geetica

PFA the internship offer letters for the selected students. Their HR Manager will get in touch with them for next steps. Students can reach out to me as well for any concern.

Thanks

Preeti

From: Sood, Preeti

Sent: Monday, December 14, 2020 1:57 PM

To: Geetica Rastogi <Geetica.Rastogi@niituniversity.in>

Subject: RE: Test results

Hi Geetica,

Kindly ask the students to share their details in the attached excel format by 3pm.

Thanks

Preeti

From: Sood, Preeti

Sent: Tuesday, December 1, 2020 1:51 PM

To: Geetica Rastogi <Geetica.Rastogi@niituniversity.in>

Subject: RE: Test results

Hi Geetica,

Kindly ask the selected students to register on the below link, so that we can initiate the offer letter process.

<https://genpact.avature.net/CampusCommunity?pipelineId=55494&source=Campus>

Thanks

Preeti

From: Geetica Rastogi <Geetica.Rastogi@niituniversity.in>

Sent: Tuesday, November 24, 2020 1:08 PM

To: Sood, Preeti <preeti.sood@genpact.com>

Subject: FW: Test results

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Hi,

Thanks for sharing ,all will join.

Kindly help with offer letters.

Regards,

Geetica S R Chaudhary

Senior Director -Centre for Industry Collaboration

NIIT University, Neemrana, RJ

Mobile: +91- 9599940601

"Smile Coz Its Contagious"

From: Sood, Preeti <preeti.sood@genpact.com>

Sent: Monday, November 23, 2020, 14:30

To: Geetica Rastogi

Subject: RE: Test results

Hi Geetica,

PFB the selected candidates names. Pls share their acceptance by tomorrow morning.

S.No.	NAME	Branch	E mail ID
1	Gaddamidi Preethika	CSE	Gaddamidi.Preethika@st.niituniversity.in

2	Nelakuditi Eswar Teja	CSE	NelakuditiE.Teja@st.niituniversity.in
3	Nishank Venkata Talaparthu	CSE	NishankV.Talaparthu@st.niituniversity.in
4	Para Hitesh	CSE	Hitesh.Para@st.niituniversity.in
5	Tanish Verma	CSE	Tanish.Verma@st.niituniversity.in
6	Allanki Manikanta	CSE	ManiK.Allanki@st.niituniversity.in
7	Maruthi Reddy Billa	CSE	BillaM.Reddy@st.niituniversity.in

Regards
Preeti

From: Sood, Preeti <preeti.sood@genpact.com>
Sent: Friday, November 20, 2020 10:20 PM
To: Geetica Rastogi <Geetica.Rastogi@niituniversity.in>
Subject: Re: Test results

Hi Geetica, will share the final names of Monday.

Regards
Preeti
Get [Outlook for iOS](#)

From: Geetica Rastogi <Geetica.Rastogi@niituniversity.in>
Sent: Friday, November 20, 2020 10:11:35 AM
To: Sood, Preeti <preeti.sood@genpact.com>
Subject: Test results

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Dear Preeti,
Students appeared for the test yesterday.
Do share the results please
Regards
Geetica SR Chaudhary

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NIIT| Campus Recruitment | Final Results

Sandip Singh Tugger (IN) <sandip.singh.tugger@pwc.com>

Thu 12/24/2020 3:26 PM

To:Geetika Rastogi <Geetika.Rastogi@niituniversity.in>

Cc:Saloni Dhingra (IN) <saloni.dhingra@pwc.com>

Dear Geetika,

We are glad to inform you that we have selected **1 Students for Cyber Security** roles from the Virtual Campus recruitment process held at **NIIT**.

Please share the offer acceptances with us and pull the selected candidates out of further placement processes.

Below is the PwC eligibility criteria that the students should meet at the time of hiring and joining:

- 1) B.Tech 2017 - 2021 batch
- 2) 60% and above throughout academics (10th, 12th & Graduation)
- 3) No standing arrears/Active backlogs
- 4) Willing to relocate and travel based on business requirement
- 5) Designation & Compensation Offered- During Internship(**Trainee**), Post Conversion to FTE(**Senior Analyst**)

- **B.Tech (Full time Hires)** – Internship Stipend- **Rs 25000 Per month**
- Post Conversion to FTE- **INR Rs 4.4LPA + 35K joining bonus**

Please note that the conversion from Intern to FTE will be applicable on the performance of the candidate during Internship.

Name	Email ID	Contact Number	Gender	% / CGPA in X	% / CGPA in XII	UG Degree	UG Specialization	Institute Name	% / CGPA in UG
Vaibhav Srivastava	vaibhav.srivastava@st.niituniversity.in	8826031105	Male	78	61	BTECH	Cyber Security	NIIT University	68.5

Regards

Sandip Singh

PwC | University Recruitment & Relations

Building 8, Tower B, 8th Floor, DLF Cyber City,

Gurgaon, Haryana - 122002

Mobile: +91 9999261569



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Fwd: EY India || FY23 Batch - Offered Candidate Details Required

Geetika Rastogi

Tue 12/13/2022 8:32 PM

To: Anupam Bhandarkar <Anupam.Bhandarkar@in.ey.com>

📎 2 attachments (3 MB)

EY-NU-updated CVs.zip; Offer Letter Details Required.xlsx;

Hi

Enclosed excel and updated CVs.

Kashish one of the selects does not have a bank account number. She will provide it once she opens one.

Regards,
Geetika

Get [Outlook for Android](#)

From: Anupam Bhandarkar <Anupam.Bhandarkar@in.ey.com>

Sent: Tuesday, December 13, 2022 11:21:57 AM

Subject: EY India || FY23 Batch - Offered Candidate Details Required

Dear Placement Team,

Greetings from EY India..!!

We are writing this mail, as we are about to **Start with Offer roll-out** process to our offered candidates.

Need your help in getting the candidate's details as per the template attached herewith the mail.

This data is critical & the same information will be reflecting in their offer letters.

And also share the updated resumes of the candidates with below required mandatory details in it:

- Full Name
- Email ID
- Phone number
- Alternative number
- 10th, 12th/Diploma, Degree, Post-graduation - year of passing with the mention of starting year & ending year, Institute Name, Percentage, Specialisation/Branch and Degree name (BE/B.Tech, MCA, MSc etc)

Request you **double check on the Offer Acceptance** of each candidate, consolidate the required data & share it at the earliest by **14th Dec 2022, 5:00 PM.**

Please feel free to reach us in case of any queries or clarifications.

Thanks & Regards,

Anupam Bhandarkar

Asst. Manager | University Relations & Hiring

9028180976 | Anupam.bhandarkar@in.ey.com

Website: <http://www.ey.com>

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