Collaborated Publications of HBNI and institutes with whom HBNI has MoU published in 2020

Institute with whom MoU signed	No. of HBNI Collaborated papers	No. of individual HBNI Faculty collaborated
Chennai Mathematical Institute	12	12
ICT	28	20
IIT Bombay	76	71
IIT Kanpur	13	21
IIT Kharagpur	13	19
IIT Madras	92	13
Indian Institute of Science	10	10
Jadavpur University, Kolkata	8	10
Jawaharlal Nehru University	2	3
Panjab University	34	16
The Commis+14:16sariat a l'energieatomique et aux energies alternatives, France (CEA / INSTN France)	Could not be identified	
Ghent University,Belgium	5	3
Tata Institute of Fundamental Research, Mumbai	41	47
IIT Indore	22	20

Source of Data: Scopus

For relevant supporting documents visit: www.hbni.ac.in/aqar/2021/C3/m3_7_2/

3.7.2 Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student /	faculty exchange and collaborative research during the year
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Organisation with which MoU is signed	Name of the institution/ industry/ corporate house	Year of signing MoU	Duration	List the actual activities under each MOU year also	Number of students/leachers participated under MoUs
Canostix GmbH, Gerninny	Canostix OmbH, Germany	2021	2 + Iусяге	Yr-1: uplimizing the Ramon spectroscopy parameters for different blood cells (cancer and non-enterous). Yr-2: Oplimizing the Surface Endanced Ramon spectroscopy (SERS) attivities on those cells, Yr-3: Development of algorithm to know early stage of cancers using the machine learing App	participated under MoUn 4 (PI- Dr. Pratap Kr. Saloo, SPS, Co-PI- MUDr Thaddaus Hocotz, Research Scientist: Dr. Binay K. Sahu)
CSIR NML Jamshedpur	CSIR NML Jamshedpur	2019	2 years	Exchange of information amongst two national laboratories vide methodology of geophymer- produce preparation and characterization of meterials for waste recycling. NML provided procedures for vilization of industrial waste while BARC provided information on characterization vide ration assay, neutron methods and x-ray tools for assaying the monolith	3
ONGC-Ganillinagar	ONGC-Gundhinngnr	2020	2 years	shock plasma tool qualification for well (2km below the ground surface)	2 (Dr Archana Sharma and Dr Rohit Shukla(PPEMD- V)
Collaborative research activity	Andhra University Vizag	2020	3 years	Magnetic pulsed welding for SS/Ti metals and characterisation	5 (Dr. Surender K.Sharma, two stdents and two foculties)
Collaborative research activity	IIPE, Vizog	2021	3 услтя	Shock pulse generator characterisation and optimisation for various medium/rock conditions	5 (Dr. Rohit Shukla (PPEMD-V)two students and two faculties)
RVSKVV, Gwalior	College of Agriculture, Schore	2019	1ill 2024	Devlopment and evalutation of chickpea lines for thermotolerance and nutritive traits	5
AAU, Asssam	Regional Research Station, Shillongani	2021	2024	Evaluation of trombay chickpea genotypes suitable for NE region	5
MGM medical College Indon	RRCAT	2021		To enhance the collaborative research	50
IIT-Infore	HBNI	2020	2019-20	To enhance the collaborative research	20
International Advanced Research Centre for Powder metallungy and new materials (ARCI), Hyderabad	IPR, Gandiinagar	2021	30 montlu	Development of tungaten fiber reinforced tangaten composites (WDW) having functure toughness atteast 2 times that of pure W for use an plasma ficing material. Phase 1 of MoU (involves optimization of experiments & characterization) will be completed in 18 months while Phase 2 (involves characterization, taligue testing & analysis) will be completed by end of 30 months. Refer MoU for more details.	2
Centre for cellular and molecular platforms (CCAMP), Bengaluru	IPR, Gandhinagar	2021	60 months	Year 1: to identify societally relevant techs. Out of these, to conceive commercinitzable technologies for deployment in acciety. Year 2: Market asseament & societal impact evaluation. Identify steps required for chosen technology to convert to innovative market ready solution Year 3: develop and optimize / molify technology based on transhifond inputs Year 4: ratis funds to carryout translationati work. Year 5: Create & secure IP rights for developed innovations, commercialize technology to before the funds.	2
Indian Council of Medical Research, National Institute for research in Tuberculosis	IPR, Gandhinagor	2020	60 nonthe	Phase 1 having a tentue of 18 nuonths will involve optimization trials using available data of nurmal and abnormal cheek x-rays. Subsequently the Phase 2 will involve validation trials of the developed DecCXR (ool at different	2
Chennai Mathematical Institute	FIBNT	2015	5 years	Inentionschemitals Contract work & credit transfer, part of research work, joint guideship	20
ICT	HBNT	2018	5 years	Course work & credit transfer, part of research work, joint guideship	20
IT Bombay	HBNI	2017	5 услтэ	Course work & credit transfer, part of research work, joint guideship	75

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Compilation of dates as neceived from Dean-Academic of various CIS/OCC of HBNI.

ШТ Калупи	HBNI	2018	5 years	Course work & credit transfer, part of research work, joint guideship	21
ПТ Кіштадрш	HBNI	2017	5 yeurs	Course work & credit transfer, port of research work, joint guideship,Academie /computing facility	19
IIT Madras	HBNI	2018	5 years	Course work & credit fransfer, part of research work, joint guideship	13
Indian Institute of Science	1:03NT	2010	10 years	Course work & credit transfer, part of research work, joint guideship	10
Jadavpur University, Kulkata	HEINI	2016	у Асята	Course work & credit (unsier, part of research work, joint guideship	10
Jawahadal University	нви	2017	5 years	Course work & credit transfer, part of research work, joint guideship	3
Panjab University	IIBNI	2017	5 years	Course work & credit transfer, part of research work, joint guideship	16
Ghent University,Belgium	HBNI	2019	5 years	Course work & credit transfer, part of research work, joint guideship	3
Tata Institute of Fundamental Research, Mumbai	IUHNI	2018	5 years	Course work & credit transfer, purt of research work, joint guiduship	47
INSTN, France	HBNI	2018	3 years	Exclange of faculty, research scholars, students, Joint course work, Exclarage of educational/ research material & academic information	120
Centre for Academie Research, Sri Sathya Sai histt. Of Higher Learning, Prusanthi Niluyum. AP	BARC	2018	3 years	Design and development of gumma-florescence dual imaging sentinel lymph node navigation surgery 10 probe	2
Govi. VYT PG Autonomous College, Durg	BARC	2018	3 years	Radiation induced modulication of Chitosan for	2
Indias Agricultural Research Inst., Nilgins, TN	BARC	2018	3 years	adamtive removal of Tettile Organic Dives Study of Diological effect of alpha irradiation in comparison with ganuma rays on pollen of some field cross	2
Tamilnadu Agricultural Univ - Coimbatore	BARC	2018	3 years	Study of behaviour of radolabelled 14-C	2
University of Kaslanir, Stimagar	BARC	2018	3 years	Gliutoxin in avel and plants Estimation of Dilluse Extra Uglaetic Background Light through VHE Gamana ray Obsey wition of Blazars	2
Institute of Genetics & Hospital for Genetic Diseases, Osmania University, Hyderabad	BARC	2019	3 years	Radio Semaining Effect of Inonital Hexaphosphate in Colon Cancer Cells by Targeting EibB Signalling Pathway	2
Worms Sarabhai Space Centra, Thiravanaathaparant, Kerala, India, Pin Code (#5622, Phone: 0471-2564292	H4t, Gandhinagar	2019	1.5 years	Development of plasma crosion measurement facility and conducting experiments to study crosion rate of BN/Silica composite specimens	2
	BARC	2018	2 years	Post-processing of NQR signals in digital domain in FPGA	2
Sikaha O Amahandhin miversity, Bhubaneswar, Ddinha	BARC	2019	2 years	Synthesis of Metal fenite modified MCM-41 (FMMCM) composites as adsorbent for remediation of CrrV()	2
Birla institute of technology and science Pilani, KK Birla Goa campus, Zuarinagar. Doa	BARC	2019	2 years	Design and synthesis of smart supramolecular dyes based on TPE modified PDI cucurbituril conjugates	2
	BARC	2019	2 years	Development of untimicrobial porous polymerie bandage for skin tissue regeneration	2
	BARC	2019	2 Years	Development of Bismuth based materials for	2
	BARC	2019	3 years	pizzoelectric Microsystem in Robotic Role of LexA in radiation and cadmum	2

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