ARIIA
ATAL RANKING OF INSTITUTIONS
ON INNOVATION ACHIEVEMENTS

MoE
Ministry of Education
Government of India

Verification Submitted Institute Data for Atal Ranking of Institutions on Innovation Achievements (ARIIA) - 2020-21

Institute Name: K. J. Somaiya College of Engineering [ARI-C-33584]

List all the departments / centers / units are part of innovation and startup ecosystem of the institite

Srno	Department / Center / Unit Name	Type of Department / Center / Unit	Mention the Stream / Discipline / Sector of focus	Department / Center / Unit Level	Program Type	Student / Benificiary Strength (2019-20)	Academic Staff Strength (2019-20)	Non-academic Staff Strength (2019-20)
1	Computer Engineering	Academic Department with lab facility	Computer Engineering	UG / PG / PhD	Technical	572	30	17
2	Electronics Engineering	Academic Department with lab facility	Electronics Engineering	UG / PG / PhD	Technical	552	27	16
3	Electronics and Telecommunication Engineering	Academic Department with lab facility	Electronics and Telecommunication	UG / PG / PhD	Technical	556	29	15
4	Information Technology	Academic Department with lab facility	Information Technology	UG / PG / PhD	Technical	480	29	15
5	Mechanical Engineering	Academic Department with lab facility	Mechanical Engineering	UG / PG / PhD	Technical	627	33	29
6	Science and Humanities	Academic Department with lab facility	Physics, Chemistry and Mathematics	UG / PG / PhD	Technical	600	22	5
7	Industry Academic Interface	Industry Institute Interface Unit	Industry Interaction, Internships	UG / PG / PhD	Both	0	10	3
8	BloomBox	Pre-incubation unit	Entrepreneurship Cell	UG / PG / PhD	Both	0	0	0
9	BETiC Lab	Research Unit / Park	Medical Device Innovation	UG / PG / PhD	Technical	0	0	0
10	Cisco Centre of Excellence in Data Networking	Centre of Excellence with Advance Tools & Equipment	Data Networking	UG / PG / PhD	Technical	0	0	0
11	Texas Instruments Innovation Centre	Centre of Excellence with Advance Tools & Equipment	Microcontrollers	UG / PG / PhD	Technical	0	0	0
12	Operating System Laboratory	Research Unit / Park	Operating Systems	UG / PG / PhD	Technical	0	0	0
13	High Performance Computing Lab	Research Unit / Park	Information Security	UG / PG / PhD	Technical	0	0	0
14	I C Engine Lab	Research Unit / Park	Automobile	UG / PG / PhD	Technical	0	0	0

List all the departments / centers / units are part of innovation and startup ecosystem of the institite

15	Project Lab	Research Unit / Park	Information Technology	UG / PG / PhD	Technical	0	0	0
16	Research and Development	Research Unit / Park	Research and Development	UG / PG / PhD	Technical	0	0	0

Participation of HEI in Innovation & Entrepreneurship Initiatives of Ministry of Education (Till Today)

Programs/Initiatives	Status	Registration ID
Adopted National Innovation and Start-up Policy at the HEI	Yes	Not Required
Establishment of Institution's Innovation Council (IIC) at HEI	YES	IIC Registration ID : IC201811482
Trained Innovation Ambassadors at HEI	YES	Not Required
Participation in Smart India Hackathon (SIH)	Yes	Not Required
Facilitated listing start-ups/ technologies in Young India combating COVID with Knowledge, Technology and Innovation (YUKTI 2.0) portal of MIC	Yes	Not Required
Participation in National Education Alliance of Technology (NEAT)	No	Not Required

Section 1 > i : Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

Srno	Name of Program (Full Name)	Program Theme ?	Program Type	Program Category	Organizing Department / Centre / Student Body Name	Program Start Date	Program End Date	Program Duration(in Days)	Program Location	Internal Participants (Student)	Internal Participants (Faculty)	External Participants (Student)	External Participants (Faculty)	Total Number of Participants	Had institute spent expenses either from own resource/received fund to organise the program/activity/event?	Did any of the participants received any awards/recognition for startup / innovation ideas / research?
1	Automation with Python	Innovation	Workshop	Institute Lead Activity	KJSCE CODECELL	03-08-2019 00:00:00	03-08-2019 00:00:00	1	Within Campus	37	2	30	0	69	No	No
2	Introduction to Programming using Python	Innovation	Workshop	Institute Lead Activity	KJSCE CODECELL	26-08-2019 00:00:00	27-08-2019 00:00:00	2	Within Campus	320	2	0	0	322	No	No
3	CP BootCamp	Innovation	Workshop	Institute Lead Activity	KJSCE CODECELL	29-08-2019 00:00:00	30-08-2019 00:00:00	2	Within Campus	55	2	0	0	57	No	No
4	CodeSpree	Innovation	Hackathon	Student Lead Activity	KJSCE CODECELL	29-09-2019 00:00:00	29-09-2019 00:00:00	1	Within Campus	79	2	671	0	752	No	No

5	Crackath on	Innovatio n	Hackatho n	Student Lead Activity	KJSCE CODECE LL	11-10-20 19 00:00:00	11-10-20 19 00:00:00	1	Within Campus	80	2	60	0	142	No	Award / Position / Recognition Secured: 10000 INR; Title of Innovation / Start-up Secured the Award / Recognition: CRAKATH ON; Award/Recog nition/Achieve ment Received for: Idea/Innova tion/Prototy pe
6	KJSCE Hackatho n	Innovatio n	Hackatho n	Student Lead Activity	KJSCE CODECE LL	05-10-20 19 00:00:00	06-10-20 19 00:00:00	2	Within Campus	126	2	84	0	212	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees): 176541	Award / Position / Recognition Secured: CASH; Title of Innovation / Start-up Secured the Award / Recognition: KJSCE Hackathon; Award/Recog nition/Achieve ment Received for: Idea/Innova tion/Prototy pe
7	Git and Github	Innovatio n	Worksho p	Institute Lead Activity	KJSCE CODECE LL	24-10-20 19 00:00:00	24-10-20 19 00:00:00	1	Within Campus	65	2	0	0	67	No	No
8	Game Theory	Innovatio n	Worksho p	Institute Lead Activity	KJSCE CODECE LL	06-03-20 20 00:00:00	06-03-20 20 00:00:00	1	Within Campus	12	2	0	0	14	No	No
9	API Worksho p	Innovatio n	Worksho p	Institute Lead Activity	KJSCE CODECE LL	26-02-20 20 00:00:00	27-02-20 20 00:00:00	2	Within Campus	32	2	0	0	34	No	No
10	Speaker Session on 'Why be an Entrepre neur'	Entrepre neurship/ Startup	Mentorin g Session	Student Lead Activity	BloomBo x	28-08-20 19 00:00:00	28-08-20 19 00:00:00	1	Within Campus	100	3	0	0	103	No	No
11	Ideation Worksho p	Innovatio n	Worksho p	Student Lead Activity	BloomBo x	24-09-20 19 00:00:00	24-09-20 19 00:00:00	1	Within Campus	30	2	0	0	32	No	No
12	HULT Prize Somaiya Vidyaviha r	Innovatio n	B-Plan Competiti ons	Institute Lead Activity	BloomBo x	05-11-20 19 00:00:00	05-11-20 19 00:00:00	1	Within Campus	120	0	0	0	120	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees): 15000	No

Section 1 > i : Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

13	Entrepreneurship, Engineering and Innovation- the pillars of a successful start-up'	Entrepreneurship/ Startup	Conference	Institute Lead Activity	BloomBox	21-01-2020 00:00:00	21-01-2020 00:00:00	1	Within Campus	250	5	0	0	255	No	No

Section 1 > ii : Details of Students, Faculties/Staff Participation/Representation in Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up at the State, National and (or) International Level (Organized by External Organizations) sent by the HEI

No Data Flled!

Section 2 > i : List the Academic Programs on Innovation, IPR and Entrepreneurship Development Offered During the Academic Period (2019-20)

Srno	Title of Course/Subject Offered	Program Theme	Type of Course	Course Offering Department/Centre/Unit Name	Level of Course	Program Start Date	Program End Date	Program Duration(in Days)	Mode of Delivery	Total Numbers of Participants	Total Numbers of Contact Hours of Course (Minimum 30 Contact hours)
1	CISCO networking devices and their communication with IoT devices	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Electronics and Telecommunication Engineering	12-01-2020	30-04-2020	110	Offline	9	35
2	Gentle Introduction of Tensorflow for Machine Learning	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Information Technology	21-07-2019	29-11-2019	132	Offline	7	35
3	CISCO networking devices and their communication with IoT devices	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Electronics and Telecommunication	21-07-2019	29-11-2019	132	Offline	5	35
4	MEAN Stack	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Computer Engineering	21-07-2019	29-11-2019	132	Offline	7	35
5	Python for Machine Learning	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Computer Engineering	21-07-2019	29-11-2019	132	Offline	7	35
6	Tool and Technique for Ethical Hacking	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Information Technology	21-07-2019	29-11-2019	132	Offline	16	35
7	High Performance Computing	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Information Technology	21-07-2019	29-11-2019	132	Offline	6	35
8	Associate Analytics I	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Computer Engineering	21-07-2019	29-11-2019	132	Offline	15	35
9	Sound and Music Engineering	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Electronics Engineering	12-01-2020	30-04-2020	110	Offline	5	30
10	Understanding offensive security with Capture the Flag (CTF) gamification	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Information Technology	12-01-2020	30-04-2020	110	Offline	5	30
11	Hands-on CCNA Routing and Switching and Security using Cisco Packet Tracer	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Electronics and Telecommunication Engineering	12-01-2020	30-04-2020	110	Offline	7	30

Section 2 > ii : List the Employment Generation Skill Development Programs Organized by the HEI on Innovation, IPR and Entrepreneurship Development During the Academic Period (2019-20)

No Data Flled!

Section 2 > iii : List the Full Time Faculties had with a Degree (UG/PG/PhD) in Innovation/IPR/Entrepreneurship and (or) Received Specialized Training program of I&E, IPR (MDP, EDP, FDP, Short-term Certificate Course, of minimum 30 hours Duration) conducted by various State, Central Govt. agencies, and Knowledge Agencies in the Academic Period (2019-20)

No Data Flled!

Section 3 > i : List Idea/Innovation Centric Student Clubs Are Functional at the HEI with Access to Co-working Space/Work-stations for Students with Facilities & Equipment Available to promote and Support Innovation, Entrepreneurship and IPR Activities in Campus

Srno	Name of Student Club	Type of Club	Year of Establishment	Type of Facilities Available at the Club	Student Club with Access to Other I&E Facilities at the HEI	No of Programs/Activities Organized by the Student Club During the AY 2019-20	Student Club Team Lead Name	Student Club Team Lead Email	Student Club Team Lead Phone
1	BloomBox	Startup Club	2011	Co-working Space	Innovation Labs,Centre of Excellence with Advance Tools,IPR Cell/Technology Transfer Centre	6	Akshita Biyani	akshita.biyani@somaiya.edu	9892201455
2	BETiC Lab	Innovation Club	2016	Co-working Space,3D Printing	Pre-Incubation Unit,Incubation Unit,Innovation Labs	3	Poojan Dholakia	poojan.d@somaiya.edu	9820632585
3	CodeCell	Innovation Club	2014	Co-working Space	Pre-Incubation Unit,Innovation Labs,Centre of Excellence with Advance Tools	7	Rushang Gajjal	rushang.g@somaiya.edu	9619243034

Section 3 > ii > a : List the Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Centre/Startup Cell) (>= 600 Sq. Ft. Floor Area)

Srno	Name of Pre-Incubation Centre	Type of Facility	Year of Establishment	Type of Facilities Available at the Centre	Pre-Incubation with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with Pre-Incubation Unit, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the Pre-Incubation Unit Provided any Funding Support for Idea/Prototype/Innovation Development and implementation during the Financial Year 2019-20	Had institute Generated Income either from Services Offered by Pre-Incubation Centre/Facilities?	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of Pre-Incubation Centre/Facilities?
1	BloomBox	Startup Cell	2011	Co-working Space	Innovation Labs,Centre of Excellence with Advance Tools,Student Clubs	Innovation Labs,Centre of Excellence with Advance Tools,Student Clubs	Facility Incharge Name: Prof. Sagar Korde / Facility Incharge Email: sagarkorde@somaiya.edu / Facility Incharge Phone: 7045656838	2	No	No	No

Section 3 > ii > a : List the Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Centre/Startup Cell) (>= 600 Sq. Ft. Floor Area)

2	I C Engine Lab	Innovation Centre	2015	3D Printing & Prototype Equipment, Work Stations	Innovation Labs,Centre of Excellence with Advance Tools,Student Clubs	Innovation Labs,Centre of Excellence with Advance Tools,Student Clubs	Facility Incharge Name: Dr. S. S. Bhusnoor / Facility Incharge Email: siddappabhusnoor@somaiya.edu / Facility Incharge Phone: 9920534514	3	No	No	Yes

Source of Grant / Fund	Agency Name	Agency Type	Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)
Institute's Own Fund / Resource	K J Somaiya College of Engineering	Educational Institute	4187000

3	High Performance Computing Lab	Innovation Centre	2017	Work Stations	Innovation Labs,Student Clubs	Innovation Labs,Student Clubs	Facility Incharge Name: Dr. Ujwala Bhangale / Facility Incharge Email: ujawalabhangale@somaiya.edu / Facility Incharge Phone: 9820065925	3	No	No	Yes

Source of Grant / Fund	Agency Name	Agency Type	Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)
Institute's Own Fund / Resource	K J Somaiya College of Engineering	Educational Institute	2654000

Section 3 > ii > b : List the Centre of Excellence (CoE) Facilities with Advance Tools and Equipment at the HEI (>= 1000 Sq. Ft. Floor Area)

Srno	Name of CoE Facility	Year of Establishment	CoE with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with CoE, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the CoE Provided any Funding Support for Idea/Prototype/Innovation Development and implementation during the Financial Year 2019-20?	Had institute Generated Income either from Services Offered by CoE Centre/Facilities?	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of CoE Centre/Facilities?

Section 3 > ii > b : List the Centre of Excellence (CoE) Facilities with Advance Tools and Equipment at the HEI (>= 1000 Sq. Ft. Floor Area)

1	CISCO Centre of Excellence in Data networking	2018	Pre-Incubation,Innovation Labs,Student Clubs		Facility Incharge Name: Dr. Ameya Naik Facility Incharge Email: ameyanaik@somaiya.edu Facility Incharge Phone: 9833275939	5	No	No	Yes

Source of Grant / Fund	Agency Name	Agency Type	Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)
Funding Agency	CISCO	Corporate / Industry Association	4828099

2	Texas Instruments Innovation Centre	2018	Pre-Incubation,Innovation Labs,Student Clubs		Facility Incharge Name: Dr. Ameya Naik Facility Incharge Email: ameyanaik@somaiya.edu Facility Incharge Phone: 9833275939	5	No	No	Yes

Source of Grant / Fund	Agency Name	Agency Type	Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)
Funding Agency	Texas Instruments	Corporate / Industry Association	2028168

3	BETiC Lab	2016	Pre-Incubation,Incubation Unit,Innovation Labs,Student Clubs		Facility Incharge Name: Dr. Ramesh Lekurwale Facility Incharge Email: rameshlekurwale@somaiya.edu Facility Incharge Phone: 9869369543	10	No	No	Yes

Source of Grant / Fund	Agency Name	Agency Type	Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)
Institute's Own Fund / Resource	K J Somaiya College of Engineering	Educational Institute	5369405

Section 3 > ii > c : List the Incubation Facilities at the HEI (>= 1500 Sq. Ft. Floor Area)

No Data FIled!

Section 3 > ii > d : List the Innovation Park/Research Park Facilities at the HEI (>= 5000 Sq. Ft. Floor Area)

No Data FIled!

Section 3 > ii > e : List the IPR Cell/Technology Transfer Centre Facilities at the HEI

No Data FIled!

Section 3 > iii > a : Provide detail list of Faculties as Mentor to help Ideas/Innovations/Startups

No Data FIled!

Section 3 > iii > b : Provide detail list of External Experts/Agencies engaged as Mentor to help Ideas/Innovations/Startups

No Data FIled!

Section 4 : List all the Innovations Generated Developed, Completed and Implemented in Ground with Support of Pre-incubation & Incubation facilities at the HEI and Recognitions Received

No Data FIled!

Section 5 : List all the Ventures/Startups/SME Units Established with Support of Pre-incubation & Incubation facilities at the HEI

No Data FIled!

Section 7 > i : List all the Collaborations with External Agencies and Co-Creation of I&E Activities by the HEI

No Data FIled!

Section 8 > ii : List the IPs Filed/Published/Granted (Copyright & Designs Only) by the HEI as an Applicant / Co-applicant / Co-owner

Srno	Title/Name of IP(Copyright & Designs Only)	Type of IP(Copyright & Designs Only)	IP(Copyright & Designs Only) Registration Number of Copyright/Design	Application Level	Date of Copyright / Design IP Filed/ Published (Year, Month)	Copy of receipt / application screenshot [PDF or Image	Current Status of IP(Copyright & Designs Only) as on 31st March 2020	Has this IP(Copyright & Designs Only) been Commercialized/Transferred to Industry/Startup/Society?
1	Solar Vactination Box	IPRFiledPublished	L- 83966/201	National	2019 - 07	Uploaded	Granted	No
	Department/Centre Name							
	Mechanical Engineering							
2	IoT Based Water Dissemination System for Different Crops	IPRFiledPublished	SW-12756/2019	National	2019 - 08	Uploaded	Granted	No

	Department/Centre Name							
	Information Technology							
3	IoT Based recommendation system for Soil Management in Agricultural domain.	IPRFiledPublished	SW-12597/2019	National	2019 - 07	Uploaded	Granted	No
	Department/Centre Name							
	Computer Engineering							
	Electronics Engineering							
	Mechanical Engineering							
4	Carbon Nanotubes based oil spill duster	IPRFiledPublished	L-83802/2019	National	2019 - 07	Uploaded	Granted	No
	Department/Centre Name							
	Mechanical Engineering							
5	Indigenous solar chulla cum self - contained unit for lighting solution	IPRFiledPublished	L-84667/2019	National	2019 - 08	Uploaded	Granted	No
	Department/Centre Name							
	Mechanical Engineering							

Section 8 > iii : List the IP (Patents only) Filed by the HEI as Applicant / Co-applicant / Co-owner

Srno	Title/Name of Patent	IP Registration Number	Date of Filed/Published (Year, Month)	Application Level	Copy of receipt / application screenshot [PDF or Image]
1	Composition for Brick	201921010282	National	2019 - 08	Uploaded
2	Combinatorial Method For Security Cloud	201921026064	National	2019 - 08	Uploaded

Section 8 > v : List the IPs hold by the Innovation teams/Startups Incubated at the Pre-incubation/incubation Unit of the HEI

No Data Flled!

Section 8 > vi : List the IP Commercialized/Transferred Published & Granted to HEI as Co-applicant/Co-owner

No Data Flled!

Declaration

To,
The ARIIA Committee
MHRD's Innovation Cell
New Delhi

Joint Declaration by the Head of the Institute and Nodal Officer

Dear Sir,

Herewith, myself Dr. Shubha Pandit (Head of Institute) and Mr. Sandeep Parmar (Nodal Officer) jointly declaring on behalf of our institute is that all the information submitted are true and correct to best of our knowledge.
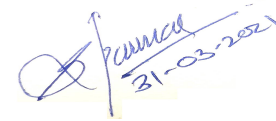
Thank you

The Head of Institute

Nodal officer

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Dr. Shubha Pandit
Head of the Institution,
Mumbai, Maharashtra

Mr. Sandeep Parmar
Nodal Officer,
Mumbai, Maharashtra