



# ARIIA

## ATL 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: SANKALCHAND PATEL COLLEGE OF ENGINEERING, VISNAGAR [ARI-C-381]

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

| Srno | Department / Center / Unit Name          | Type of Department / Center / Unit                               | Mention the Stream / Discipline / Sector of focus | Department / Center / Unit Level | Program Type | Student / Beneficiary Strength (2019-20) | Academic Staff Strength (2019-20) | Non-academic Staff Strength (2019-20) |
|------|--|--|---|----------------------------------|--------------|--|-----------------------------------|---------------------------------------|
| 1    | Civil Engineering Department             | Academic Department with lab facility                            | Civil Engineering                                 | UG / PG / PhD                    | Technical    | 233                                      | 10                                | 1                                     |
| 2    | Mechanical Engineering Department        | Academic Department with lab facility                            | Mechanical Engineering                            | UG / PG / PhD                    | Technical    | 221                                      | 8                                 | 3                                     |
| 3    | Electrical Engineering Department        | Academic Department with lab facility                            | Electrical Engineering                            | UG / PG / PhD                    | Technical    | 122                                      | 4                                 | 0                                     |
| 4    | Electronics and Communication Department | Academic Department with lab facility                            | Electronics and Communication                     | UG / PG / PhD                    | Technical    | 25                                       | 2                                 | 2                                     |
| 5    | Computer Engineering Department          | Academic Department with lab facility                            | Computer Engineering                              | UG / PG / PhD                    | Technical    | 254                                      | 12                                | 1                                     |
| 6    | Information Technology                   | Academic Department with lab facility                            | Information Technology                            | UG / PG / PhD                    | Technical    | 117                                      | 5                                 | 1                                     |
| 7    | Information and Communication Technology | Academic Department with lab facility                            | Information and Communication Technology          | UG / PG / PhD                    | Technical    | 26                                       | 5                                 | 1                                     |
| 8    | MBA                                      | Academic Department with lab facility                            | Management  | UG / PG / PhD                    | Technical    | 80                                       | 5                                 | 0                                     |
| 9    | MCA                                      | Academic Department with lab facility                            | Computer Application                              | UG / PG / PhD                    | Technical    | 55                                       | 3                                 | 1                                     |
| 10   | IPR                                      | IPR Cell / Patent Facilitation Unit / Technology Transfer Centre | IPR   | UG / PG / PhD                    | Technical    | 10                                       | 1                                 | 1                                     |
| 11   | Incubation center                        | Incubation Unit  | Enterpreneurship                                  | UG / PG / PhD                    | Technical    | 100                                      | 2                                 | 1                                     |
| 12   | Pre-Incubation Centre                    | Pre-incubation unit  | Pre Incubation                                    | UG / PG / PhD                    | Technical    | 200                                      | 1                                 | 1                                     |
| 13   | III Cell                                 | Industry Institute Interface Unit                                | Placement   | UG / PG / PhD                    | Both         | 100                                      | 1                                 | 1                                     |

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

|    |            |   |     |               |      |    |   |   |
|----|------------|---|-----|---------------|------|----|---|---|
| 14 | COE Centre | Centre of Excellence with Advance Tools & Equipment | COE | UG / PG / PhD | Both | 20 | 1 | 1 |
|----|------------|---|-----|---------------|------|----|---|---|

**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   | NO     | Not Required    |
| Trained Innovation Ambassadors at HEI  | NO     | 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 | No     | 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    | Workshop on Entrepreneurship Development: Entrepreneurial Mindset | Entrepreneurship/Startup | Workshop           | Institute Lead Activity | MBA  | 22-10-2019 00:00:00 | 22-10-2019 00:00:00 | 1                         | Within Campus    | 98                              | 8                               | 0                               | 0                               | 106                          | Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 12000                        | No   |
| 2    | Social Innovation   | Innovation               | Innovation Contest | Institute Lead Activity | MBA  | 22-02-2020 00:00:00 | 22-02-2020 00:00:00 | 1                         | Within Campus    | 120                             | 4                               | 0                               | 0                               | 124                          | Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 5000                         | 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 Filled!**

**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 | Entrepreneurship                  | Entrepreneurship/Startup | Elective/Core Credit Course | Bachelor | Mechanical Engineering Department | 04-07-2019 | 06-12-2019 | 156 | Offline | 102 | 45 |
| 2 | Entrepreneurship and Business Law | Entrepreneurship/Startup | Elective/Core Credit Course | Master   | MBA                               | 09-08-2019 | 27-12-2019 | 141 | Offline | 54  | 45 |

**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 Filled!**

**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)**

| Srno | Faculty Name        | Department/Centre/Unit Name | Designation    | Do you have a degree in I&E & IPR? | Had the faculty received training on I&E & IPR during AY 2019-20 |                     |                   |                             |                  |
|------|---------------------|-----------------------------|----------------|------------------------------------|--|---------------------|-------------------|-----------------------------|------------------|
| 1    | Dr. Jitendra Sharma | MBA                         | Professor      | No                                 | Yes  |                     |                   |                             |                  |
|      | Training Name       | Training Theme              | Type of Course | Training Agency Name               | Training Agency Type   | Training Start Date | Training End Date | Training Duration (in Days) | Mode of Delivery |

**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    | EDP Cell             | Startup Club | 2019                  | None                                     | Pre-Incubation Unit   | 6   | Dr. Jitendra sharma Jaydeep Patel | hodmba@spcevng.ac.in         | 8153857921                   |

**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                       | Computer Engg Dept Pre-Incubation Centre | Startup Cell     | 2019                  | Co-working Space                           | Incubation Unit   | Incubation Unit   | <table border="1"> <tr> <td>Facility Incharge Name</td> <td>Mehul S. Patel</td> </tr> <tr> <td>Facility Incharge Email</td> <td>mspatel.it@spcevng.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9428458874</td> </tr> </table> | Facility Incharge Name  | Mehul S. Patel  | Facility Incharge Email  | mspatel.it@spcevng.ac.in   | Facility Incharge Phone | 9428458874 | 5 | Yes | No | Yes |
| Facility Incharge Name  | Mehul S. Patel                           |                  |                       |  |   |   |  |   |   |  |  |                         |            |   |     |    |     |
| Facility Incharge Email | mspatel.it@spcevng.ac.in                 |                  |                       |  |   |   |  |   |   |  |  |                         |            |   |     |    |     |
| Facility Incharge Phone | 9428458874                               |                  |                       |  |   |   |  |   |   |  |  |                         |            |   |     |    |     |

**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)**

| Source of Grant / Fund | Agency Name         | Agency Type          | Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees) |
|------------------------|---------------------|----------------------|---|
| Funding Agency         | GOvt Agency (State) | Govt. Agency (State) | 97000   |

**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? |                         |            |   |    |    |    |
|-------------------------|----------------------|-----------------------|--|---|---|---|--|---|---|-------------------------|------------|---|----|----|----|
| 1                       | CCC Lab              | 2012                  | Innovation Labs                                    | NMEICT New Delhi  | <table border="1"> <tr> <td>Facility Incharge Name</td> <td>Mr. Jagat Patel</td> </tr> <tr> <td>Facility Incharge Email</td> <td>hodce@spce.vng.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>8200740283</td> </tr> </table> | Facility Incharge Name  | Mr. Jagat Patel  | Facility Incharge Email   | hodce@spce.vng.ac.in  | Facility Incharge Phone | 8200740283 | 5 | No | No | No |
| Facility Incharge Name  | Mr. Jagat Patel      |                       |  |   |   |   |  |   |   |                         |            |   |    |    |    |
| Facility Incharge Email | hodce@spce.vng.ac.in |                       |  |   |   |   |  |   |   |                         |            |   |    |    |    |
| Facility Incharge Phone | 8200740283           |                       |  |   |   |   |  |   |   |                         |            |   |    |    |    |

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

**No Data Filled!**

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

**No Data Filled!**

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

**No Data Filled!**

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

**No Data Filled!**

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

| Srno | Name of the External Expert/Agency as Mentor | Mentor Expert Area                   | Type of Mentorship      |
|------|--|--------------------------------------|-------------------------|
| 1    | Dr. Chirag Rathod                            | Entrepreneurship/Startup Development | Unstructured Mentorship |
| 2    | Dr. Kruti Patel                              | Entrepreneurship/Startup Development | Unstructured Mentorship |
| 3    | Dr. Kavita Sharma                            | Entrepreneurship/Startup Development | Unstructured Mentorship |

**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**

| Srno | Name of the Innovation Generated with the Support of HEI | Type of Innovation | Nature of Innovation | Name of the HEI Supported Innovation Development | Innovation Developed by | Stage of Innovation/ Stage of TRL it started receiving the Support during the FY 2019-20        | Stage of Innovation/ Stage of TRL reached as on 31st March 2020                            | Status Pre-Incubation/Incubation Support to Innovation as on 31st March 2020 | Had the Innovation Received any Recognition at State, National, International Level Programs during the financial period 2019-20 | Had the Innovation Converted into Venture/ Startup/ SME Unit during the financial period 2019-20 | Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Idea / Prototype / Innovations Development during the financial period 2019-20 | Had the Innovations raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or HEI during the financial period 2019-20 | Had the Pre-incubation/Incubation Centre/HEI received any income/revenue from Idea/Prototype/Innovations for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2019 |
|------|--|--------------------|----------------------|--|-------------------------|---|--|--|--|--|--|--|--|
|      |  |                    |                      |  |                         |   |  |  |  |  |  |  |  |
| 1    | An IOT Based Air Pollution Monitoring System             | Product Innovation | Technological        |  | Student-Faculty         | TRL 1 : Basic research. Principles postulated and observed but no experimental proof available. | TRL 7 : Demonstration system operating in operational environment at pre-commercial scale. | Innovation Development Ongoing   | Agency Name  | SSIP   | No   | No   | No   |
|      |  |                    |                      |  |                         |   |  |  | Agency Type  | Govt. Agency (State)   |  |  |  |
|      |  |                    |                      |  |                         |   |  |  | Award / Position / Recognition Secured   | Recognition by SSIP  |  |  |  |
|      |  |                    |                      | Name   |                         | Type  |  | Gender   |  | Email  |  | Contact  |  |
|      |  |                    |                      | Prof. Ankur J Goswami                            |                         | Faculty   |  | Male   |  | ajgoswami.ce@spcevnng.ac.in  |  | 9429088194   |  |
|      |  |                    |                      | Name   |                         | Type  |  | Gender   |  | Email  |  | Contact  |  |
|      |  |                    |                      | NA   |                         | -   |  | -  |  | -  |  | -  |  |

|                       |                           |                    |               |  |                 |   |  |                                |  |                      |            |    |    |    |
|-----------------------|---------------------------|--------------------|---------------|--|-----------------|---|--|--------------------------------|--|----------------------|------------|----|----|----|
| 2                     | Pesticides spraying Drone | Service Innovation | Technological |  | Student-Faculty | TRL 1 : Basic research. Principles postulated and observed but no experimental proof available. | TRL 2 : Technology formulation . Concept and application have been formulated. | Innovation Development Ongoing | Agency Name                            | SSIP                 | No         | No | No | No |
|                       |                           |                    |               |  |                 |   |  |                                | Agency Type                            | Govt. Agency (State) |            |    |    |    |
|                       |                           |                    |               |  |                 |   |  |                                | Award / Position / Recognition Secured | Recognized by SSIP   |            |    |    |    |
| Name                  |                           | Type               |               |  | Gender          |   |  | Email                          |  |                      | Contact    |    |    |    |
| Prof. Ankur J Goswami |                           | Faculty            |               |  | Male            |   |  | ajgoswami.ce@spcevng.ac.in     |  |                      | 9429088194 |    |    |    |
| Name                  |                           | Type               |               |  | Gender          |   |  | Email                          |  |                      | Contact    |    |    |    |
| NA                    |                           | -                  |               |  | -               |   |  | -                              |  |                      | -          |    |    |    |

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

**No Data Filled!**

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

| Srno | Collaborated Agency Name                       | Collaborated Agency Type | Purpose of Collaboration  | Type of Support Offered | No. of Student Projects/ Ideas / Innovation / Startups from the HEI get benefitted through this partnership | Date of MOU / Agreement Signed on |
|------|--|--------------------------|---|-------------------------|---|-----------------------------------|
| 1    | University of Bedfordshire, UK                 | Educational Institute    | Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities | Mentoring               | 0   | 31-05-2019                        |
| 2    | Kansas State University, USA                   | Educational Institute    | Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities | Mentoring               | 2   | 15-03-2019                        |
| 3    | IIT Bombay                                     | Educational Institute    | Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities | Mentoring               | 10  | 15-03-2019                        |
| 4    | The University of Cagliari, CA, Italy          | Educational Institute    | Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities | Mentoring               | 0   | 03-04-2019                        |
| 5    | Laurentian University, Canada                  | Educational Institute    | Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities | Mentoring               | 0   | 21-06-2019                        |
| 6    | System Realization Lab, University of Oklahoma | Educational Institute    | Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities | Mentoring               | 0   | 10-05-2019                        |

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

**No Data Filled!**

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

**No Data Filled!**

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

**No Data Filled!**

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

**No Data Filled!**

## 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. Dharmesh J. Shah (Head of Institute) and Dr. YOGESHKUMAR SHANKARLAL PATEL (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

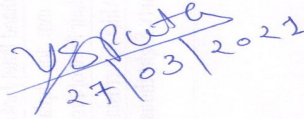
The Head of Institute



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Dr. Dharmesh J. Shah  
Head of the Institution,  
Visnagar, Gujarat

Nodal officer



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Dr. YOGESHKUMAR SHANKARLAL PATEL  
Nodal Officer,  
Visnagar, Gujarat