



Figure: Pressure Control Trainer



Figure: Temperature Control Trainer and Solid-Liquid Extractor



Figure: Solid steam distillation unit, Simple Bath Distillation unit and Sieve Plate Distillation unit



Figure: Shell and Tube Heat Exchanger

7.2 Skill Development Centre

The launch of this centre is a step forward in giving the youth the right kind of direction through skill development towards a brighter future with great employment opportunities, The Chancellor of RGUKT, **Prof. Raj Reddy**

The IIIT R K valley has been recognized as Skill Development Institute under APSSDC (Andhra Pradesh State Skill Development Corporation) program fully funded by AP Government. SIEMENS Technical Skill Development Centres have been established under this program in the ECE and ME Departmental buildings, which were inaugurated by our beloved Chancellor on 26-12-2016. With these Skill Developmental Centers not only our regular students get benefit but also useful for the unemployed youth and dropout students to enhance their employability which is in tune with the vision and strong desire of our Hon'ble Chief Minister Sri Nara Chandrababu Naidu garu. Our Institute is also considered as a centre for implementing Prime Minister Skill Development Scheme. The aim of these programs is to improve the skills of the students for improvement/better employability. The Institute is providing soft skills training to students from PUC level till the Engineering level through the IB Group, a social enterprise that works to develop talented manpower for the industry needs. This has resulted in improvement in internship and placement figures and in enhancing the overall quality of students.

This skill development project is unique as it offers new and innovative approaches which is scalable, blended and digital self-access solutions that have been developed, based on an extensive research about the needs of the learners and required parameters of facilitating skills.

In order to increase employment opportunities for the youth and align them to the vision of a 'Skilled India', a state-of-the-art skill development centre was launched in R K Valley on Monday, 26th December 2016.

Inauguration of skill development centre by Honorable Chancellor of RGUKT-AP



Figure: Inauguration of skill development centre by Honorable Chancellor of RGUKT-AP

The occasion was graced by the Chancellor of RGUKT-AP Prof. Raj Reddy, Vice Chancellor Prof. V Ramachandra Raju, the Apex committee members Prof. M Venkateswarlu and Prof. V. Venkaiah, IIIT R K Valley Director Prof. G. Bhagavannarayana, IIIT Ongole Director Prof. E Viswanatha Reddy and Administrative Officer Dr. S. Amarendra Kumar. The Chancellor said that there was

an urgent need to promote other skills in the university apart from regular curriculum. "Students should be encouraged to learn skill development". Further He said "The youth here have immense potential to do well for themselves and thus we are making this decision to set up an iconic skill development centre in the university to empower the local youth with skill sets of their choice and increase their employability,"

APSSDC Skill Development Labs

The goal is quality in the classroom, where learners have access to high quality technology enabled learning and assessment programs and teachers are competent, motivated, and able to support and achieve the best for their learners. The skill centre will offer trainings in four groups of trades: Civil, Mechanical, Electrical and Electronics and Computers.

Name of the Laboratories

Skill Development labs provide hands-on practice a live environment with enabled services and real-world scenarios. The labs like Electronics –Home, Electronics-Office, Electrical- Home, Electrical-Office, Auto-4-Wheeler, Auto-2-Wheeler and CBT Labs are at hand. The in-house labs are by far the most flexible ones and are ready for usage.

8. Infrastructure and Institutional Development



8.1 Infrastructure

In the area of Infrastructure and Institutional Development we are doing our level best to advance our existing set of academic blocks, laboratories, staff quarters etc. In pursuit of this we have completed the construction of Central Library Building through NBCC, which was inaugurated on 15-8-2016 by the Hon'ble HRD Minister Sri Ganta Srinivasa Rao garu and our Chancellor Raj Reddy garu. Departmental buildings like ECE, CSE and ME, Laundry buildings are also at the verge of completion. A Cafeteria has also been built considering all aesthetics and will serve as a place of refreshment and relaxation as well as one to one interaction for both the staff and students. Apart from this we have also started reading rooms in hostels with subscriptions to major news-papers and magazines enabling students to stay updated with the latest developments as they can anytime make use of the reading room.



Figure: The new departmental buildings at the verge of completing construction



Figure: the new departmental buildings under construction

Three faculty quarter buildings have been commissioned and a children's playground with many recreation items for the children surrounded by a walking track has been built to provide staff welfare measures. The dining halls have been completely whitewashed and necessary repairs have been done in hostels to provide hygienic environment. Besides other committees like anti-ragging, a Student Council has been exclusively constituted for promoting Student Welfare Measures.

8.2 Existing infrastructure

Academic Block-I



Figure: The Academic Block-I

The construction of Academic Block-I (AB-I) was completed in the month of July 2010 and immediately occupied by the IIIT R.K. Valley officials. The construction cost of the building is Rs. 2707 Lakhs. The AB-I has become the centre for administration as the Director's chamber and offices are being situated in this very building. The classes for first year engineering students (B. Tech. Program) is being conducted in AB-I. There are 44 classrooms in AB-I, sufficient to accommodate 100 students in each classroom. Apart from classrooms, the AB-I comprises of 12 labs, Central Library and four staff rooms for engineering faculty.

The classes for CSE, MME and Chemical Engineering are conducting in AB-I. The details of AB-I are given in below Table.

Table: Infrastructure details of Academic Block-1

S No	Name of Infrastructure	Number
1	Class rooms	44
2	Labs	12
3	Staff Rooms	4
4	Director Room	1
5	UPS Rooms	2
6	Server Rooms	2
7	Library	1
8	Extra Rooms	4
9	Diesel Generator(12.5 KVA & 32.5 KVA)	2

Academic Block-II



Figure: The Academic Block-II

The construction of Academic Block-II (AB-II) was completed in the month of July 2012 and immediately occupied by the IIIT R.K. Valley officials. The construction cost of the building is Rs. 2581 Lakhs. The AB-II has become the centre for administration as the Administrative officer's room and office are situated in this very building. There are 39 classrooms in AB-II, each with a dimension of 11.5x7.9

m sufficient to accommodate 100 students in each classroom. Apart from classrooms, the AB-II comprises of 20 labs, four staff rooms for engineering faculty and others. Currently, the classes for Civil Engineering, Mechanical Engineering and ECE are conducted in AB-II. The details of AB-II are given in below Table.

Table: infrastructure details at AB-II

S No	Name of Infrastructure	Number	Dimensions
1	Class rooms	39	11.90x7.5 m
2	Labs	20	
3	Staff Rooms	4	
4	Administrative Officer's Room	1	
5	UPS Rooms	2	
6	Server Rooms	2	
7	Library	1	
8	Extra activity Rooms	1	
9	Diesel Generator(12.5 KVA & 32.5 KVA)	2	

Lab Complex



Figure: the lab complex for PUC students

The lab complex is constructed to provide centralised lab facilities for PUC, first and second year of engineering students. The lab complex is comprises of four floors in which the ground floor, first and second floors are equipped, respectively, with ECE, Physics and Chemistry lab facilities. The third floor is a huge seminar room used for institute lectures. The construction of Lab Complex was completed in the month of August, 2013. The institute spent Rs. 350 Lakhs to complete the construction of the Lab Complex building.

Hostels

The Institute provides free hostel accommodation to all the students along with providing cots, beds, bed-spreads, uniforms and shoes. hostels. Every room is provided with a fan, tube lights and connected with common bath rooms at either ends of hostel's corridor. All the hostels are equipped with modern facilities to provide a homely stay for the students in the campus.

Boys Hostel-I



Figure: Boys Hostel-I

Since IIIT R.K. Valley is a fully residential campus, the Boy's Hostel-1 (BH-1) is constructed to provide accommodation for engineering students. The construction cost of BH-1 is 2325 lakhs. The BH-1 is equipped with all modern amenities to provide high quality accommodation for the students. The BH-1 comprises of 332 rooms for students which are generally called at IIIT as "Dorms", 24 guest rooms and 6 TV rooms etc. The details are furnished in the Table.

Table: the details of infrastructure in BH-I

S No	Name of Infrastructure	No of Articles	Dimension
1	Hostel Rooms	332	6.11x4.18 m
2	Guest rooms	24	
3	Landry rooms	4	
4	TV & Other Rooms	6 + 6	
5	Store rooms	8	3.00x4.18 m
6	Electrical Rooms	8	3.00x4.18 m
7	Total no. of Toilets	24	
8	Ph Toilets	2	
9	WC Rooms	172	
10	Bath rooms	172	
11	Urinals	80	
12	Wash Basins	176	

Girls Hostel-I



Since IIIT R.K. Valley is a fully residential campus and all the students stay in the campus, separate hostel facility is provided for girl students. The Girl's Hostel-1 (GH-1) is constructed to provide accommodation for engineering students. The construction cost of GH-1 is 2000 lakhs. The GH-1 is equipped with all modern amenities to provide high quality accommodation for the students. The GH-1 comprises of 256 rooms for students which are generally called at IIIT as "Dorms", 24 guest rooms and 6 TV rooms etc. The details are furnished in the Table.

Table: the details of infrastructure at GH-I

S. No	Name of Infrastructure	Number	Dimension
1	Hostel Rooms	256	6.11x4.18 m
2	Guest rooms	24	
3	Landry rooms	4	
4	TV & Other Rooms	6 + 6	
5	Store rooms	8	3.00x4.18 m
6	Electrical Rooms	8	
7	Total no. of Toilets	24	
8	Ph Toilets	2	
9	WC Rooms	180	
10	Bath rooms	180	
11	Wash Basins	172	

Boys Hostel-II



The Boy's Hostel-2 (BH-2) is constructed to provide accommodation for engineering students in par with increase in student community. The construction cost of BH-2 is 2370 Lakhs. The BH-2 is equipped with all modern amenities to provide high quality accommodation for the students. The BH-2 comprises of 732 rooms each of dimension 3×4.18 m for students which are generally called at IIIT as "Dorms", 2 warden rooms and 4 rooms for Cafeteria and each room dimension is 6.11×4.18 m etc. The details are furnished in the Table.

Table: the details of Boy's Hostel-II

S No	Name of Infrastructure	Number	Dimension
1	Hostel Rooms	732	3.00x4.18 m
2	Warden rooms	2	6.11x4.18 m
3	Landry rooms	2	6.11x4.18 m
4	Iron Rooms	4	6.11x4.18 m
5	Cafeteria Rooms	4	6.11x4.18 m
6	Store rooms	8	3.00x4.18 m