



WELCOME

IQAC 20th Regular Meeting

V.R.SIDDHARTHA ENGINEERING COLLEGE

Saturday, 12th Sept 2020

Agenda

A) Action taken report on the proposals of 17th ,18th & 19th IQAC meetings.

B) Issues open for discussion

1) NIRF & ATAL Innovation – for better ranking

2) e – Content development - recording / Lecture capturing system

3) Any other item with the permission of Chairperson.

A) Action Taken Report on resolutions of 17th IQAC meeting

1) Extension activity by involving Technical expertise under Unnat Bharat Abhiyan.

2) New Industry contacts for taking up real time student projects.
(kept pending due to Covid19, the 17th Meeting was held just before Covid Lockdown)

A) Action Taken Report on resolutions of 18th IQAC meeting

1) Completion of pending syllabus & conduct of Internal examinations online

2) Engaging the faculty and students during Lockdown through online courses

(In view of Lockdown due to Covid19.....)

A) Action Taken Report on resolutions of 18th IQAC meeting

1. Completion of pending syllabus & conduct of Internal examinations online

a) Completion of Syllabus:

- About **75 % - 85%** of the syllabus for **2nd / 3rd / 4th year B.Tech / M. Tech / MCA/ MBA** of the ongoing even semester of 2019-20 was **covered in the regular mode** by the time of lockdown.
- Since the class work for **1st B.Tech / MBA / MCA / M. Tech** commenced little later in the academic year, the syllabus was covered up to **50 - 60%** by the time of lockdown.
- The rest of syllabus was also **covered through online classes** utilizing Zoom, Google Meet, Cisco WebEx digital platforms. For which training sessions were conducted for the faculty to train them for online teaching.

A) Action Taken Report on resolutions of 18th IQAC meeting

1. Completion of pending syllabus & conduct of Internal examinations online

b) Conduct of Continuous Evaluation Tests

- In the continuous evaluation, conduct of only **second midterm examinations** is pending for II, III and IV B Tech / M.Tech / MBA / MCA courses by the time of COVID lockdown. As per the guidelines of the UGC, it was conducted through MOODLE platform successfully.
- Evaluation in **laboratory courses** is almost completed for all sections before lockdown itself. For remaining few cases evaluation is arranged through **online interaction**.
- Evaluation in **Major Projects, Mini Projects** and term papers is **completed** through online platforms.
- Subsequently, all internal theory exams are completed even for **1st year B.Tech** through **MOODLE platform**.

•c) Conduct of semester end examinations for Final B.Tech

- **Semester end examinations (offline)** for the academic year 2019-20 is scheduled from **14th Sept. 2020** as per the guidelines of UGC & JNTUK.

A) Action Taken Report on resolutions of 18th IQAC meeting

2. Engaging the faculty and students during Lockdown through online courses

- VRSEC was fully succeeded in **engaging** both the **Faculty and students** during lockdown period, because of its prior planning & implementation.
- All the faculty & students were alerted by the HODs from the day one of lockdown for their **value addition** through “**Coursera**” **online platform**.
- Faculty & students completed **courses on Higher education, Skill development & New technologies relevant to industry & employment and Research**.

A) Action Taken Report on resolutions of 18th IQAC meeting

2. Engaging the faculty and students during Lockdown through online courses

Completed online Courses - Coursera

- Total courses completed: 8387
- Total learning hours: 54361
- Faculty/students completed One course: 997
- Two to Five courses: 1454
- Six to Fifteen courses: 233
- More than Fifteen courses: 29

A) Action Taken Report on resolutions of 18th IQAC meeting

2. Engaging the faculty and students during Lockdown through online courses

Satisfaction survey:

Faculty Perspective - Impact of online learning through Coursera

Faculty Response	Completely agree	Mostly agree	Slightly agree
Great Learning Experience	55.6%	37.4%	7.0%
Knowledge on Recent Technologies	31.5%	48.0%	20.3%

Faculty Response	Teaching-Learning	Research	Both
Value addition	43.6 %	7.0 %	49.4 %

A) Action Taken Report on resolutions of 18th IQAC meeting

2. Engaging the faculty and students during Lockdown through online courses

Satisfaction survey:

Student Perspective - Impact of online learning through Coursera

Student Response	Strongly agree	Agree	Neutral
Value addition	86.1%	11.2%	2.7%
Knowledge on Recent Technologies	94.4%	5.6 %	---
Enhancement of skills	94.1 %	5.9 %	---
Help to Higher studies	54.6%	27.7%	17.7%

A) Action Taken Report on resolutions of 19th IQAC meeting

Agenda: Conduct of Class work for 2020-21, till normal conditions exist

Approved modes of online teaching

Option:1

Paper based teaching-Camera focusing on paper & write on it and lecturing

Option:2

White board based teaching - Camera focusing on white board along with faculty, while lecturing

Option:3

Teaching using Tablet – Stylus pen / slides

Senior Faculty are teaching & Junior faculty are coordinating the students

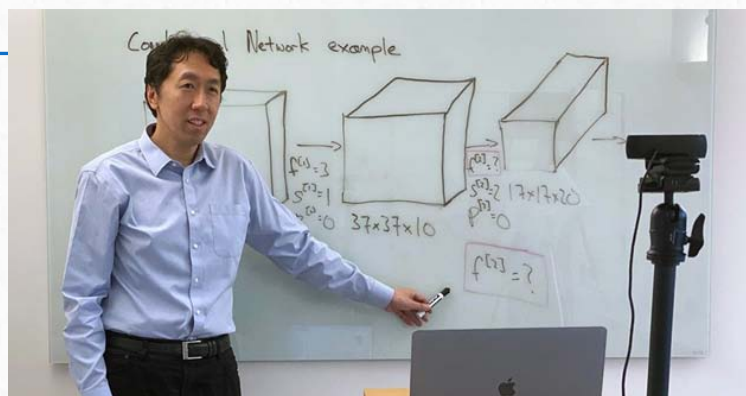
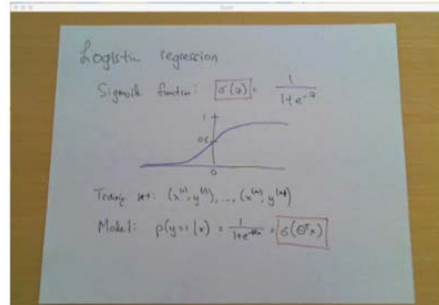
A) Action Taken Report on resolutions of 19th IQAC meeting

Agenda: Conduct of Class work for 2020-21, till normal conditions exist

Approved modes of online teaching



Option:1



Option:2



Option:3

B) Issues open for discussion

- 1) NIRF & ATAL Innovation – for better ranking**
- 2) e – Content development - Recording / Lecture capturing system.**
- 3) Any other item with the permission of Chairperson.**

B) Issues open for discussion

1) Status of VRSEC in NIRF Ranking.

India Rankings 2020- Rank: 156

(1st Rank among Private Engineering Colleges in AP)

India Rankings 2019- Rank: 171

India Rankings 2018- Rank: 151-200 (band)

NIRF - Parameter wise marks – Ranking weightage

S.No.	Parameters	Marks
1.	Teaching, Learning & Resources (TLR) Ranking weight: 0.30	100
	A. Student Strength including Doctoral Students(SS): 20 marks B. Faculty-student ratio with emphasis on permanent faculty (FSR): 30 marks C. Combined metric for Faculty with PhD (or equivalent) and Experience (FQE): 20 marks D. Financial Resources and their Utilisation (FRU): 30 marks	
2.	Research and Professional Practice (RP) Ranking weight: 0.30	100
	A. Combined metric for Publications (PU): 35 marks B. Combined metric for Quality of Publications (QP): 40 marks C. IPR and Patents: Published and Granted (IPR): 15 marks D. Footprint of Projects and Professional Practice (FPPP): 10 marks	

NIRF - Parameter wise marks – Ranking weightage

3.	Graduation Outcomes (GO) Ranking weight: 0.20	100
	<ul style="list-style-type: none"> A. Combined metric for Placement and Higher Studies (GPH): 40 marks B. Metric for University Examinations (GUE): 15 marks C. Median Salary (GMS): 25 marks D. Metric for Number of Ph.D. Students Graduated (GPHD): 20 marks 	
4.	Outreach and Inclusivity (OI) Ranking weight: 0.10	100
	<ul style="list-style-type: none"> A. Percentage of Students from other States/Countries (Region Diversity RD): 30 marks B. Percentage of Women (Women Diversity WD): 30 marks C. Economically and Socially Challenged Students (ESCS): 20 marks D. Facilities for Physically Challenged Students (PCS): 20 marks 	
5.	Perception (PR) Ranking weight: 0.10	100
	A. Peer Perception: Employers & Academic Peer (PR): 100 marks	

B) Issues open for discussion:

NIRF Ranking - Peer Institutions

- PSG - PSG College of Technology, Coimbatore
- CoEP - College of Engineering, Pune
- TCE - Thyagarajar College of Engineering, Madurai
- RVCE - R V College of Engineering, Bangalore
- BMS - B M S College of Engineering, Bangalore
- CIT - Coimbatore Institute of Technology, Coimbatore
- SIT - Siddaganga Institute of Technology, Tumkur
- SSR - Sri Sairam Engineering College, Chennai

B) Issues open for discussion: NIRF Ranking

Comparison of parameter wise scores with peer Institutions

S. No	Institution	TLR	RP	GO	OI	PR	Total Score [#]	NIRF2020 Rank
1	PSG	69.35	19.73	52.14	48.69	51.77	47.21	49
2	CoEP	61.94	21.89	67.56	51.85	29.40	46.79	50
3	TCE	59.67	18.32	59.11	51.54	27.44	43.11	64
4	RVCE	63.06	13.29	59.79	48.30	13.20	41.02	70
5	BMS	62.07	11.92	55.53	52.58	17.79	40.35	73
6	CIT	64.87	6.88	45.81	48.63	26.86	38.24	90
7	SIT	60.33	13.44	54.58	50.17	1.63	38.23	91
8	SSR	57.03	6.36	58.74	58.23	3.20	36.91	108
9	VRSEC	55.02	5.36	47.11	53.23	2.69	33.13	156

VRSEC – Parameter wise score - NIRF-2019

Velagapudi Ramakrishna Siddhartha Engineering College (IR-E-C-18010)

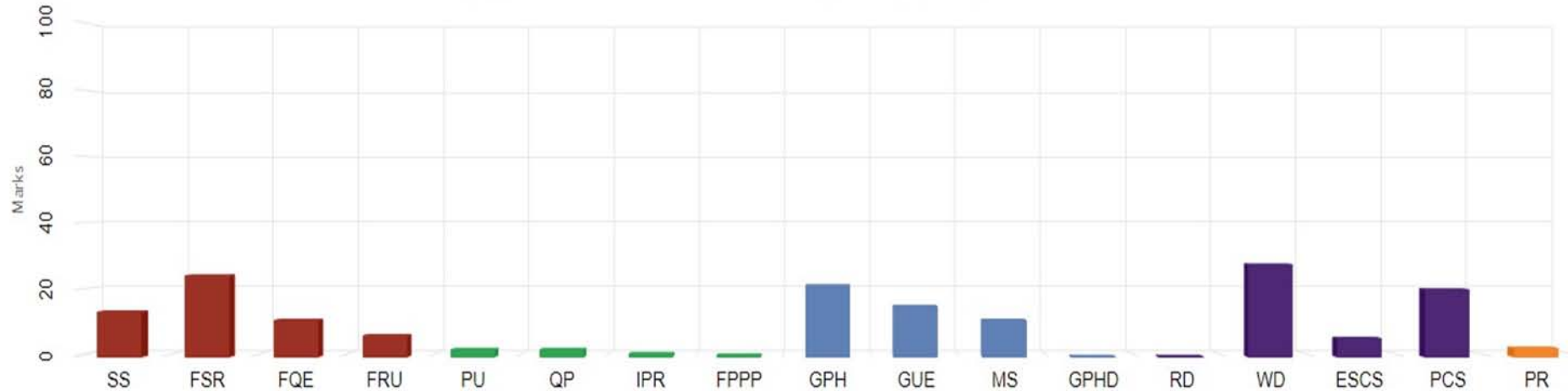


	TLR				RP				GO				OI			PR	
	SS	FSR	FQE	FRU	PU	QP	IPR	FPPP	GPHE	GUE	MS	GPHD	RD	WD	ESCS	PCS	PREMP
Score	13.50	23.24	10.27	5.91	1.34	1.67	1.00	0.56	19.76	15.00	11.44	0.00	0.12	26.51	1.81	20.00	2.02
Total	20.00	30.00	20.00	30.00	35.00	40.00	15.00	10.00	40.00	15.00	25.00	20.00	30.00	30.00	20.00	20.00	100.00

TLR	RPC	GO	OI	Perception	Total	Rank
15.87/30	1.37/30	9.24/20	4.85/10	0.20/10	31.53/100	171
52.92/100	4.57/100	46.21/100	48.45/100	2.02/100		

VRSEC – Parameter wise score NIRF 2020

Velagapudi Ramakrishna Siddhartha Engineering College (IR-E-C-18010)



	TLR				RP				GO				OI			PR	
	SS	FSR	FQE	FRU	PU	QP	IPR	FPPP	GPH	GUE	MS	GPHD	RD	WD	ESCS	PCS	PR
Score	13.50	24.03	11.03	6.46	1.91	1.99	1.00	0.46	21.21	15.00	10.90	0.00	0.16	27.60	5.47	20.00	2.69
Total	20.00	30.00	20.00	30.00	35.00	40.00	15.00	10.00	40.00	15.00	25.00	20.00	30.00	30.00	20.00	20.00	100.00

TLR	RPC	GO	OI	Perception	Total	Rank
16.51/30	1.61/30	9.42/20	5.32/10	0.27/10	33.13/100	156
55.02/100	5.36/100	47.11/100	53.23/100	2.69/100		

NIRF Ranking – where we are lagging

S N o	Parame ter	Lagging in	Marks secured	Remarks
1.	Student strength (SS)	Ph.D scholars admissions	4.05 / 6	<ul style="list-style-type: none"> In consultation with JNTUK, we need to offer Ph.D program through departmental research centers. <i>Not in our control</i>
2.	Faculty with Ph.D (FQE)	This parameter is 32.86% at present.	3.3 / 6	<ul style="list-style-type: none"> About 50% of faculty should be Ph.D holders with minimum experience 10 to 12 years. <i>There is scope for improvement.</i>
3.	Financial Resources & their Utilization(FRU)	25%(Capital Expenditure per student over 3 years) + 75%(Operational/Recurring Capital Expenditure per student over 3 years)	1.94 / 9	<ul style="list-style-type: none"> Our institute overall budget should be reached from 45.88 to 60 Crores. Care should be taken in accounting the amounts related to procurement of books, Journals, etc. <i>There is lot of scope for improvement.</i>

NIRF Ranking – where we are lagging

S. No	Parameter	Lagging in	Marks secured	Remarks
4.	Combined metric for publications (PU)	No of publications in scopus indexed / SCI papers	0.57/10.5	<ul style="list-style-type: none"> There is lot of scope for improvement.
	Quality publications (QP)	<ul style="list-style-type: none"> Citations of papers are counted i.e. Quality of publications 	0.6 / 12	<ul style="list-style-type: none"> Every faculty should publish either in Scopus indexed / SCI papers. There is scope for improvement
5.	Patents published & Granted (IPR)	<ul style="list-style-type: none"> Patents granted (100% weightage); Published (50% weightage) Patents <i>granted</i> in last 3 years are considered 	0.3 / 4.5	<ul style="list-style-type: none"> There is scope for improvement

NIRF Ranking – where we are lagging

S. No	Parameter	Lagging in	Marks secured	Remarks
6.	Footprints of Projects & Professional Practice (FPPP)	<ul style="list-style-type: none"> Research grants received from various funding agencies, in that financial year.(75% weightage) Consultancy. (25% weightage) 	0.14 / 3	<ul style="list-style-type: none"> Identifying more funding agencies over popular ones like DST, AICTE, etc. Good proposals to acquire research grants. <i>There is scope for improvement</i>
7.	Placement and Higher Studies (GPH)	<ul style="list-style-type: none"> UG/PG students placed UG/PG students selected for Higher studies 3 years data is considered 	4.24 / 8	<ul style="list-style-type: none"> More focus is required wrt placements & higher studies The relevant document proofs must be collected by the Proctors/faculty in-charge without fail <i>Still there is a scope</i>
8.	Median Salary (GMS)	<ul style="list-style-type: none"> The median salary over 3 years is considered 	2.18 / 5	<ul style="list-style-type: none"> It needs focus on core engineering branches. <i>Still there is a scope</i>

NIRF Ranking – where we are lagging

S. No	Parameter	Lagging in	Marks secured	Remarks
9.	1.Regional diversity-students from other states (RD), 2.Economically challenged (ESCS)	1. Students from other states; 2. Scholarships to Economically challenged.	1. 0.016 / 3 2. 0.55 / 2	<ul style="list-style-type: none"> Not in our control Still there is a scope in 2nd sub parameter (scholarships / concessions to Economically challenged students)
10.	Perception (PR)	Data collected from Large category of employers, professionals from reputed organizations	0.27 / 10	<ul style="list-style-type: none"> Periodical communication wrt achievements of VRSEC to be sent.

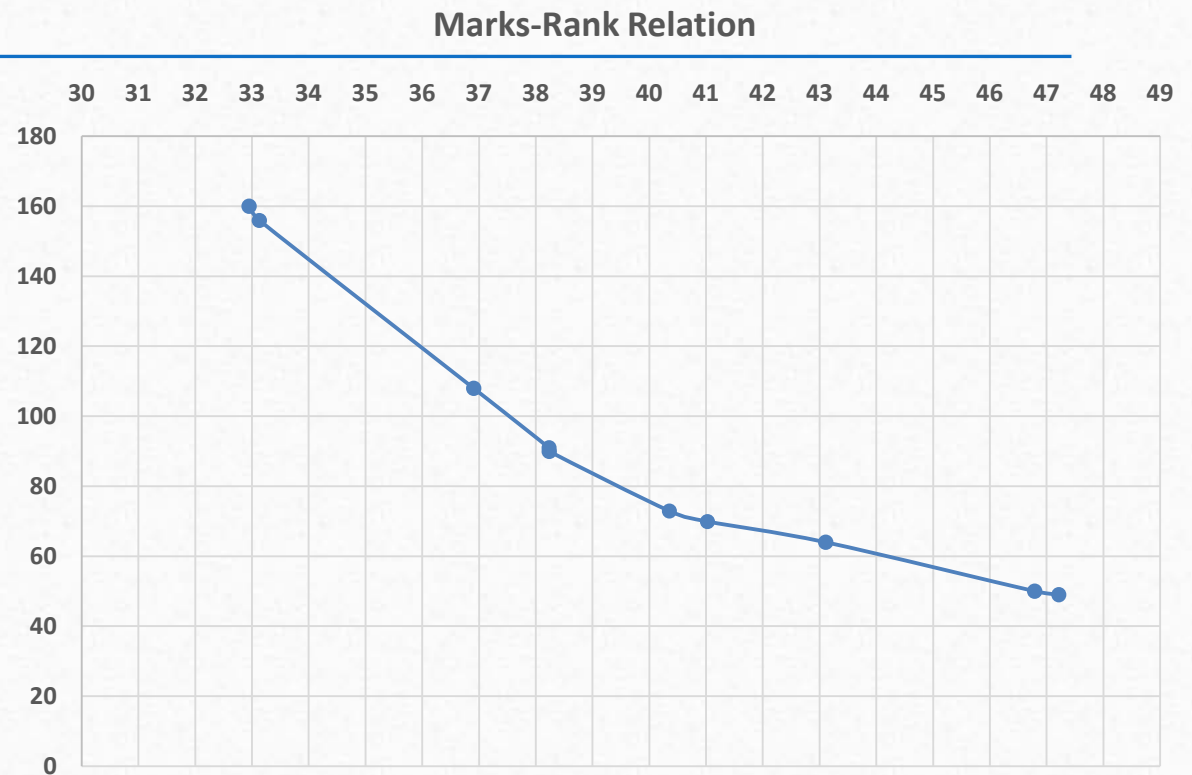
NIRF Ranking below 100

Requirement: Roughly above 38 Marks.

Present Score: 33.13 Marks, required 5 marks more

The curve can be divided into two parts

- *Linear curve from rank 90 to 160, where the slope of line is 0.75Mark / 10 rank.*
- *Non-linear curve from rank 50 to 80 where the slope of line is 2.50 Marks / 10 rank*
- *Therefore getting rank just below 100 is not so difficult.*



NIRF Ranking below 100

Parameters where there is more scope to score further marks with minimum effort

S.No	Parameter	Max Marks	Secured	Remarks
<u>1</u>	<u>Faculty with PhD (FQE)</u>	<u>6M</u>	<u>3.31</u>	<u>Parameter to be focused</u>
<u>2</u>	<u>Financial Resources & their Utilization (FRU)</u>	<u>9M</u>	<u>1.94</u>	<u>Parameter to be focused</u>
<u>3</u>	<u>Combined metric for publications (PU)</u>	<u>10.5M</u>	<u>0.57</u>	<u>Parameter to be focused</u>
<u>4</u>	<u>Quality publications (QP) - Citations</u>	<u>12M</u>	<u>0.60</u>	<u>Parameter to be focused</u>
<u>5</u>	<u>Patents published & Granted (IPR)</u>	<u>4.5M</u>	<u>0.30</u>	<u>Parameter to be focused</u>
6	Footprints of Projects and Professional Practice (FPPP)	3M	0.14	Parameter to be focused
7	Combined Metric for Placement and Higher Studies (GPH)	8M	4.24	Still there is a scope
8	Median Salary (GMS)	5M	2.18	Still there is a scope
9	Economically challenged (ESCS)	2M	0.55	Still there is a scope

There is lot of scope for getting rank below 100 by improving R&D, Ph.Ds; FR & their Utilization.

ATAL Innovations–Rank 2019-20

ATAL Ranking of Institutions on Innovations
Achievements (ARIIA) in 2019-20

**“Band A” - Rank between 6-25 in the category of
Private / self- financed Institutes**

ATAL Innovations–Identified gaps–recommendations for betterment

S.N o	Parameter	Performance Remark by MHRD	Requirement
1	Activities on IPR, Innovation, Start-up and Entrepreneurship Organized (I &E Awareness Among Students & Faculties)	Very good	<ul style="list-style-type: none"> ➤ Organization of activities related to IPR, Innovation, Start-up and Entrepreneurship. ➤ Enhancement of Student participation in the national level and international level competitions.
2	Innovation, Pre-Incubation & Incubation Centre Facilities and Services. (I&E Infrastructures & Facilities)	Good	<ul style="list-style-type: none"> ➤ Establishment of full-fledged Incubation centres in depts. ➤ Funding /Support may be received from DBT / BIRAC / DST / NSTEDB / NIDHI /AIM / NITI Ayog / MEITY / MSME / CSR / State Govt. /Private <p style="text-align: center;">with the following Registrations</p> <ol style="list-style-type: none"> 1. SPV section 8 Company / Society Act 2. Associate with Academic Department 3. Established by private entity & housed at institute <p>else Own Resource</p>

ATAL Innovations–Identified gaps–recommendations for betterment

S.N o	Parameter	Performance Remark by MHRD	Requirement
3	Annual Budget spent on Innovations (Innovations Supported by institute)	Good	➤ Min 2% Budget provision to promote innovation / Start-ups on campus
4	Startups supported by institute	Need to Improve	Needs to be established full-fledged Incubation centres on specific theme.
5	Co-Incubation and Partnership	Need to Improve	Co- incubation partnership is to be established with the outside incubation centres
6	Seed fund, angel fund and venture fund support raised by above innovations and startups	Need to Improve	It is required to identify permanent investors to our innovations and start-ups through our incubation centres.

ATAL Innovations–Identified gaps–recommendations for betterment

S.N o	Parameter	Performance Remark by MHRD	Recommendations
7	Courses on Innovation, IPR and Entrepreneurship Development Offered by Institute during the Academic Period	Good	More Courses are to be added in curriculum design in future, relevant to Innovation, IPR and Entrepreneurship .
8	Tech transferred and commercialization	Need to Improve	Self income should be generated by incubation centres
9	Budget (Expense and Revenue) on Innovation / IPR / Entrepreneurship	Need to Improve	Separate head in the financial audit report for the activities on IPR, Innovation, Start-up and Entrepreneurship .

ATAL Innovations– Need improvement

S.No	Requirement
4	Establishment of full-fledged Incubation centre
5	Establishment of Co- incubation partnership with the outside incubation centres
6	Identification of permanent investors to our innovations and start-ups
8	Generation of self income by incubation centres & commercialization
9	Maintaining separate head in the financial audit report for the activities on IPR, Innovation, Start-up and Entrepreneurship.

e-Content development - Recording / Lecture capturing facility

Need of the hour

- (a) Online teaching / e-Learning during COVID pandemic situation**
 - (b) Its enhancing significant role in future education**
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Benefits

- (a) helps to supplement and complement the process of teaching and learning in higher education**
- (b) promotes an ability to learn independently in students**
- (c) helps slow learners to follow the lectures on their own phase**
- (d) provides students to sit at home and gain knowledge and skills**
- (e) helps students during examination preparation and subject revisions**

Keeping the above points in view VRSEC is planning to develop e-Content in all branches of Engg.

e-Content development - Recording / Lecture capturing facility

Facilities for e-Content development

- Two video cameras
- Room acoustics with green mat on walls, furniture
- Appropriate lighting for lecture recording
- Video processing and mixing software and equipment
- High end computer

- To be setup

- Camera installed in classroom capable of capturing both board and lecturer
- Automatically record complete classroom experience
- A media server to capture recorded lecture over network
- Adaptive and secure videos accessible from web and mobile applications
- Platform for collaborative learning, content sharing, advance search and analytics
- Seamless integration with Blackboard, Moodle, Canvas, D2L and other LMSs

- To be setup
- Rs. 25 Lakhs proposed in budget proposals for 2020-2021

- Digital interactive boards installed in 9 classrooms
- Built-in audio speakers, Wi-Fi connectivity
- Projector, Computer
- Board (writing) lecture recording
- Tools for creating shapes and objects
- Uninterrupted power system

- A total number of 9 systems installed in all engineering branches and first year and are in use.

e-Content development-Recording/Lecturing capturing facility

Guidelines for e-Content development

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- e-Content maximum duration of each one: 30 minutes
 - The copy rights of the recording is under college (VRSEC).
 - Editing committee edit the videos
 - e-Content development committee scrutinize the edited video before uploading to VRSEC website.
 - A Coordinator may be appointed to look after it in their department.
 - VRSEC YouTube channel for students may be developed after recording enough videos

**Any other item with the permission of
Chairman**

THANK YOU