



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution		DRIEMS
Name of the head of the Institution		DR. RAJENDRA KUMAR DAS
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		0671-2595062
Mobile no.		9838486086
Registered Email		info@driems.ac.in
Alternate Email		iqac@driems.ac.in
Address		At- Kairapari, PO- Kotsahi (Tangi), Dist- Cuttack
City/Town		CUTTACK
State/UT		Orissa
Pincode		754022

2. Institutional Status					
Autonomous Status (Provide date of Conformant of Autonomous Status)		28-Dec-2017			
Type of Institution		Co-education			
Location		Rural			
Financial Status		Self financed			
Name of the IQAC co-ordinator/Director		Dr. Alok Ranjan Biswal			
Phone no/Alternate Phone no.		06712595061			
Mobile no.		9937966005			
Registered Email		info@driems.ac.in			
Alternate Email		iqac@driems.ac.in			
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)		https://www.driems.ac.in/driems-degree/aqar/ORCOGN14394-DRIEMS%202017-18.pdf			
4. Whether Academic Calendar prepared during the year		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		https://www.driems.ac.in/driems-degree/n_docs/ACADEMIC%20CALENDAR%20EVEN%20SEM.docx			
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.05	2014	05-May-2014	04-May-2019
2	A	3.05	2018	04-Dec-2018	31-Dec-2023
6. Date of Establishment of IQAC			29-May-2009		
7. Internal Quality Assurance System					

Quality initiatives by IQAC during the year for promoting quality culture

Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Department of Compute Science & Engineering conducted STC on	18-Jun-2018 05	45
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8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/ Faculty	Scheme	Funding Agency	Year of award with duration	Amount
No Data Entered/Not Applicable!!!				
No Files Uploaded !!!				

9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

12. Significant contributions made by IQAC during the current year(maximum five bullets)

05 nos.of Seminar conducted under BPUT TEQIPIII in association with VTU and AKU Board of Studies meeting conducted in respective departments Academic Audit conducted Faculty Seminar Boot Camp for startup

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achievements/Outcomes

Participation in ISTE Best Engineering College Award	Awarded Best Engineering College Award
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Governing Body	09-Nov-2018

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

No

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2018

Date of Submission

20-Dec-2018

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief description and a list of modules currently operational (maximum 500 words)

MIS Cell is introduced to provide facilities through online process. Through this system everyone continuously monitors : e knowledge, e resources, monthly e magazine, e student feedback, e attendance, online quiz etc.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	Under Graduate (UG)	Electronics Telecommunication Engineering	07/06/2018
BTech	Under Graduate (UG)	Mechanical Engineering	29/05/2018
BTech	Under Graduate (UG)	Computer Science & Engineering	07/06/2018
BTech	Under Graduate (UG)	Civil Engineering	06/07/2018
BTech	Under Graduate	Electrical	23/05/2018

	(UG)	Engineering	
BTech	Under Graduate (UG)	Electrical and Electronics Engineering	26/05/2018
Mtech	Post Graduate (PG)	Electronics and telecommunication Engineering	07/06/2018
Mtech	Post Graduate (PG)	Mechanical System Design	29/05/2018
Mtech	Post Graduate (PG)	Computer Science and Engineering	07/06/2018
Mtech	Post Graduate (PG)	Structural Engineering	06/07/2018

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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
Mtech	ENTC-PG	01/07/2018	Modern Digital Communication Techniques- ECT501	01/08/2018

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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
Mtech	UG /PG-EEE	01/07/2018
Mtech	UG /PG-EE	01/07/2018
Mtech	UG /PG- CE	06/07/2018
Mtech	UG /PG-CSE	01/07/2018
Mtech	UG /PG- ME	29/05/2018
Mtech	UG /PG-ENTC	01/07/2018

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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
Nil	NIL	Nil

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
STAAD PRO	09/09/2018	48
Self-Configured	30/07/2018	17

Wireless Sensor Network		
VLSI Design	09/11/2018	40
SOLID WORKS	01/03/2019	46
AUTOCAD	01/08/2018	27
Python	30/07/2018	62
Web Designing using HTML and CSS	15/08/2018	53
AUTOCAD	07/09/2018	50
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	ENTC	11
BTech	ME	67
BTech	CSE	15
BTech	CE	19
BTech	EE	14
BTech	EEE	11
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
<p>The institution collects the feedback on curriculum aspects and courses from different stakeholders such as the students, alumni, Faculty and Employers. Institution established Academic Council in order to ensure and analyze the academic excellence at student and faculty levels. Periodical analysis is made by Academic Council from the following: student performance, faculty performance in every semester, utilization of infrastructure and requirements for quality enrichment. DRIEMS Autonomous Engineering College thoroughly reviews the curriculum for every academic year in the board of studies meeting. The college maintains an IQAC as a quality consistence and quality enhancement measure. Institute collects the feedback physically from stockholders viz. Students, Parents and Teachers on Curriculum which is prescribed by the Board of Study meeting. The college conducts annual Alumni Meet, in which suggestions and feedback is received from Alumni students. Feedback from industrial management, R D establishments and professionals is obtained through college website's feedback blog. The provided feedback data is presented to the Academic Council Meeting for necessary implementation in curriculum. Alumni surveys are conducted during alumni interaction at the alumni association</p>

meeting held every year. Whenever any alumni visit the college, feedback is taken. Further, college website invites alumni to provide feedback through online. Feedback from industry, R D establishments, professional bodies also are obtained online. The feedback collected is analyzed and their suggestions are considered and placed before the Academic council for discussion and for possible incorporation at various aspects. Action Taken on feedback from the stake holders: After collecting and assessing the feedback from the various stake holders on curriculum aspects, the valuable suggestions if any, will make notice to the BOS meeting for possible changes in the course structure for the next curriculum regulation. The College follows a continuous review system of the curriculum. The College established an IQAC as a Quality sustenance and Quality enhancement measure. The IQAC has been infusing a sense of belongingness into the entire teaching faculty of the Institution.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	Computer Science & Engg.	120	63	63

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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	943	59	156	2	8

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
166	150	Nil	11	6	Nil

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

The Institute has implemented the Proctorial system for closely monitoring the students through the faculty members. The objective of the Proctorial system is to carry out academic and personal counselling of the students from time to time and to exercise an effective control and influence over the students and to assist them in academic as well as overall development. Each teaching staff of the department is designated as proctor and is allotted with the responsibility of 20 students. The proctor maintains all the information for each of his/her ward, in terms of class attendance, marks secured by the student in college/university examinations, absence from college examinations, Non-payment of college dues, any act of misconduct of the student. These information are sent to the parent/guardian of each student. The proctor conducts meetings with the students twice in a month

and submits the report to the Head of the department.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1002	166	1:6

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
0	0	0	0	0

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	SUSHANTA KU SETHY	Associate Professor	SARBAPALLI GURU SAMMN-2018 FROM BIY BIKSH PARISAD, SARALA BHAWAN, CUTTACK
2019	SUSHANTA KU SETHY	Associate Professor	BISWESWARAYA PRATIBHA PURASKAR FROM EVER GREEN FORUM
2019	Prof. (Dr.) J.N. Biswal	Associate Professor	PhD. from KIIT University, Bhubaneswar.
2019	BISWAJIT JENA	Assistant Professor	SUPER TEACHER IN LECTURE NOTES
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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	UG	I Semester	21/12/2018	31/12/2019
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
18	241	7.46

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the

institution are stated and displayed in website of the institution (to provide the weblink)

<https://www.driems.ac.in/driems-degree/computer-science-po.php>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
UG	BTech	Computer Science & Engineering	50	47	94.00
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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

https://www.driems.ac.in/driems-degree/igac/2018-19_SSS.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

Yes
Name of the teacher getting seed money
Dr. S. S. DASH
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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
International	Dr. Ranjan Kumar Mohanty	Membership	11/09/2018	Royal Society of Literature, U.K
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3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Nil	0	NIL	0	0
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Recent Trends in Industrial IoT	Computer Science Engineering	21/08/2019
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
NIL	NIL	NIL	Nil	NIL
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
1	IoT Laboratory	Kernel Software Technology Pvt.Ltd.	DRIEMS Incubation Centre	Software Development	04/02/2019
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Electrical Engineering	1
Mechanical Engineering	1

3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Computer Science Engineering	4	1.18
International	Computer Science Engineering	6	1.23
International	Basic Science Humanities and Social Sciences	4	1.45
International	Electrical Engineering	5	4.5
International	Mechanical Engineering	4	3.45
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
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Civil Engineering	2
Engineering Physics	2
Electrical Engineering	4
Electronics Telecommunication Engineering	7
Mechanical Engineering	1
Civil Engineering	2
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
NIL	Nil	0	Nil
No file uploaded.			

3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
ON ABSOLUTE INDEXED RIESZ SUMMABILITY OF ORTHOGONAL SERIES	Dr. Ranjan Kumar Jati	IJCAM	2018	0	Nil	0
Ultrasonic studies on ion solvent interaction of Tetra-n-Butyl ammonium bromide in aqueous solution of 1,3 dioxalane and 2,3-Dimethoxy propane at different temperatures	Dr. D.Sarangi	Asian journal of chemistry	2018	0	Nil	0
Ultrasonic investigations of metal chlorides	Dr. Bidyadhar Swain	Journal of Pure and Applied Ultrasonics	2018	0	Nil	0

in aqueous ethanol systems.						
Design and Analysis of Hybrid Fuzzy PID Controller for Diverse Source of Power System using DE Optimization Technique	Dr. Pratap Chandra Pradhan	ARNP Journal of Engineering and Applied Sciences	2019	0	Nil	0
Performance Assessment of Fuzzy Logic Controller for Load Frequency Control in multi source multi area system	Anurekha Nayak	International Journal of Renewable energy Research	2019	0	Nil	0
Development of a suitable Plant Layout using Computerized Relative Allocation of Facility Techniques	Dr. J.N.Biswal	IJRTE	2019	0	Nil	0
Finite Element Based Vibration Analysis of an Axially Functionally Graded Non prismatic Beam	Dr. A.R. Biswal	IJME	2018	0	Nil	0
Finite Element	D.R.BISWAL	IJME	2018	0	Nil	0

Based Vibration Analysis of an Axially Functionally Graded Non prismatic Beam						
Finite Element Based Vibration Analysis of an Axially Functionally Graded Non prismatic Beam	R.R.SENA PATI	IJME	2018	0	Nil	0
A TISM based study of SSCM Enablers : An Indian coal-fired thermal power plant perspective	Dr. J.N.Biswal	IJSAEM	2018	0	Nil	0
No file uploaded.						

3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
NIL	NIL	NIL	Nil	Nil	Nil	Nil
No file uploaded.						

3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	19	39	2	11
Presented papers	15	5	1	0
Resource persons	0	0	4	0
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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Computer Science Engineering	ERP package	Info science World	225000
Computer Science Engineering	Website Design and Maintenance	SJSC Group of Industries	300000
Electrical Engineering	Energy saving	ORICLEAN Pvt. Ltd.	50000
Mechanical Engineering	Supply Chain Management and Industrial Automation	Oriclean Pvt. Ltd.	120000
Civil Engineering	Concrete Mix Design	Sri Durga Condev (P) Ltd.	42288
Civil Engineering	Structural Drawing	Sri Durga Condev (P) Ltd.	76305
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Mechanical Engineering	Supply Chain Management and Industrial Automation	Oriclean Pvt. Ltd.	120000	60
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3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Blood Donation	Red Cross	39	168
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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Blood Donation	Highest Donor	Red Cross	127
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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Gender	Unnat Bharat	Adopted	27	239

Sensitisation	Abhijan NSS Unit	Village and Institute campus		
Plantation	Unnat Bharat Abhijan NSS Unit	Plantation at Adopted Village and Institute campus	8	55
Swachh Bharat	Unnat Bharat Abhijan NSS Unit	Adopted Village Cleaning	12	67
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3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
BOOT CAMP	180	IED ODISHA	1
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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Training	Sharing of Research Facilities	Oriclean Pvt.Ltd., Kairapari, Cuttack	14/01/2019	19/01/2019	Employees of Oriclean
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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
CETR	22/01/2019	Skill development Training	60
Kernel Software Technology Pvt. Ltd	02/07/2018	Training on IoT	17
SAK Robotics	04/05/2018	To conduct Seminar on Recent Advances in Robotics	25
ORICLEAN Pvt. Ltd.	02/03/2018	Training	6
Oltron Technology	02/01/2019	Industrial Collaboration	1
Oriclean Pvt.Ltd.	20/02/2019	Training	60

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
575	536

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Class rooms	Newly Added
Campus Area	Existing
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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
Libsys	Fully	6.0	2012

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	32438	9729000	148	64528	32586	9793528
Reference Books	5549	1661700	50	16850	5599	1678550
e-Books	256	Nill	198	Nill	454	Nill
Journals	83	189950	11	24585	94	214535
e-Journals	172	156550	84	76455	256	233005
Digital Database	Nill	Nill	Nill	Nill	Nill	Nill
CD & Video	1355	Nill	63	Nill	1418	Nill
Library Automation	1	253325	Nill	Nill	1	253325
Weeding (hard & soft)	Nill	Nill	Nill	Nill	Nill	Nill

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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
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NIL	NIL	NIL	Nil
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	340	11	59	2	1	5	9	50	0
Added	150	1	1	0	0	0	0	20	0
Total	490	12	60	2	1	5	9	70	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

70 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
A Review of Techniques in Practice for Sensing Ground Vibration Due to Blasting in Open Cast Mining (Cyber-physical Systems and Digital Twins)	https://link.springer.com/chapter/10.1007/978-3-030-23162-0_28
Note for Programming in C by Shekharesh Barik	https://lecturenotes.in/notes/18412-note-for-programming-in-c-c-by-shekharesh-barik
Note for Design Analysis of Algorithm by Shekharesh Barik	https://lecturenotes.in/notes/17784-note-for-design-and-analysis-of-algorithm-daa-by-shekharesh-barik
Note for Internet of Things - IoT by Surajit Mohanty	https://lecturenotes.in/notes/29289-note-for-internet-of-things-iot-by-surajit-mohanty/22
IoT by Surajit Mohanty	https://www.driems.ac.in/driems-degree/lncse.php
Note For Water Resources Engineering By Biswajit Jena	https://lecturenotes.in/notes/19286-water-resources-engineering
Note For Water Supply And Sanitary Engineering By Biswajit Jena	https://lecturenotes.in/notes/22112-water-supply-and-sanitary-engineering
Note For Structural Dynamics And Earth Quake Engineering By Biswajit Jena	https://lecturenotes.in/notes/16610-structural-dynamics-and-earthquake-engineering
Note For Material Testing Lab Manual By Biswajit Jena	https://lecturenotes.in/practicals/1494

Note For Irrigation Engineering By
Biswajit Jena

<https://lecturenotes.in/notes/26793-irrigation-engineering>

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
35	28.36	45	39.08

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)

The college has provided desktops and internet facility to all Departments. The college has its own software for managing the academic activities through intranet. The college has its own website. Bulk SMS and email is used to communicate with the students for delivering notice, information regarding attendance, and other reports to parents, course plan, assignments etc. All the Departments and Computer Labs are connected to LAN with Internet Facility. Class rooms, Hostels, Canteens, Library and Open areas are covered under Wi-Fi. Adequate computer access is provided to faculty/staff/students. Training to faculty/staff/students on ICT .Wi-Fi enabled campus . Moving towards paperless office.

<https://www.driems.ac.in/driems-degree/iqac-procedures-policies.php>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Career, extracurricular achievements	123	1791200
Financial Support from Other Sources			
a) National	PRERANA E-KALYAN	150	9750000
b) International	NIL	0	0
No file uploaded.			

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Personal Counselling	03/08/2018	161	ACE Institute of Training, Kolkata
Yoga Meditation	10/08/2018	90	DRIEMS
Bridge Courses	02/08/2018	138	DRIEMS
Language Lab	06/09/2018	102	HSS DEPARTMENT, DRIEMS

Remedial Coaching	12/10/2018	83	CONCERNED DEPARTMENTS
Soft skill development,	07/10/2018	161	ACE Institute of Training, Kolkata
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2018	1.Guidance for competitive exam 2.Career Counselling	133	161	2	160
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
2	2	1

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
28	1559	154	2	41	31
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	1	UG	DRIEMS	PARALA MAHARAJA	PG
2019	2	UG	DRIEMS	VSSUT, BURLA	PG
2019	1	UG	DRIEMS	DRIEMS	PG
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
Any Other	1
No file uploaded.	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
BADMINTON SINGLE (MEN)	COLLEGE	16
BADMINTON SINGLE (WOMEN)	COLLEGE	18
BADMINTON DOUBLE (MEN)	COLLEGE	8
BADMINTON DOUBLE (WOMEN)	COLLEGE	12
MUSIC CHAIR (GIRLS)	COLLEGE	25
CHESS (BOYS)	COLLEGE	6
100 Mt. RACE (WOMEN)	COLLEGE	13
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5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
Nil	NIL	Nil	Nil	Nil	Nil	NIL
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The Students' Council is a student body comprising 40 student representatives of which 10 members are elected and 20 members are nominated representing the respective departments. The Council conducted various academic and extra-curricular programmes and initiated several student welfare measures. The Students' Council initiated two important initiatives - The Blood Donors Forum and the Nature Club. The Blood Donors Forum is a forum of students, teachers and staff who are willing to donate blood. At present, Mr. Rajeev Agarwal is the coordinator of Blood Donors Forum. The Nature Club was formed to organise various nature related programmes and to take up eco friendly initiatives.

Different students from different branch has been nominated for various committee like:

1. IQA CELL: Name of the students as members: Mr. Mahavir Biswal, ME, 4th year Ms. Gayatri Das, CSE, 4th year Mr. Biswa Ranjan Mohanty, CE, 3rd Year
2. Anti-Ragging Committee of the Institution : Mr. Yugant Parida, EEE, 3rd Year Ms. Priyanka Kumari, ETC, 2nd Year Mr. Subham Kumar, CE, 4th Year
3. Sports Fitness Committee: Ms. Sonal Kumari, ETC, 3rd Year Ms. Madhumala Mitra, CSE, 3rd year Mr. Gourav Das, CSE, 4th year
4. Environment Committee: Mr. Deepankar Rout, CSE, 4th year

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Registration no 18135/88 of 2012-2013 under the act XXI of 1860. To create a

self-inspired and proceeding with DRIEMS Alumni association to encourage more noteworthy coordinated effort and association for common prosperity and advancement. Today DRIEMS is a well known and reputed institution not in the state of Odisha but it is a top ranked autonomous college in India. DRIEMS providing the best up-date education to its students which help to add on values to the society through its alumni for the best of mankind. It would be an understatement to reveal that today DRIEMS is having its essence in each and every part of the Odisha as well as in India in the form of its Alumni. The alumnus is the key factor of the institution to make its name and fame at top. Our Graduates are outshining in the world arena and making our nation pride. Alumni Meets provides an opportunity to reunite with their friends and faculty members to rejuvenate past memories and share experience, knowledge and insights of their past and present life. It enables us to entertain regular feedbacks of our Alumni. Alumni Network creates a platform for the existing students to have better job prospects in the various parts of real world with their technical skills and knowledge. The Alumni Association was formed in the year 2012-13 under the title "DRIEMS Alumni Association" with the Reg. No: 18135/88. Keeping in view the betterment of the existing students, an alumni meet from different branches of the under graduate and post graduate programs organized once in a year where the alumni share their views and give suggestions to their junior students. Such get together are mutually beneficial for the institution and the alumni. In various occasions the alumni visit the institution to deliver guest lectures and seminars for the students in their areas of expertise and motivate the young minds. Flourishing entrepreneurs among the alumnus are invited to talk on their success stories at various occasions of the institute. The alumni also help the final year students of the various streams to get their projects, placements and summer internship in their companies or to assist them get it through their reference. They also assist the students for placement in public and private sectors and the regular alumni association meetings pave the way for the successful placements of the students. The faculty members and students work with incredible genuineness and truthfulness to contact the graduated alumni in India and abroad and to include them in social exercises attaining socially importance and pertinent work which plans to enhance the relationship as well as the institution also.

5.4.2 – No. of registered Alumni:

1860

5.4.3 – Alumni contribution during the year (in Rupees) :

350000

5.4.4 – Meetings/activities organized by Alumni Association :

The alumni association of DRIEMS organizes seminar, workshops, internship programs in regular interval. Alumni along with experts from industries are invited to share their experience to the students. This helps the students to explore the real time environments in the current scenario of industry. It enables them to bridge the gap between industry and academics

Event name	Date
Alumni Meet	29 September 2018

1.Er.Sumit kumar Ghosh (Associative project manager, Accenture) 2.Er.Shradhanjali Mohapatra (Sr. Test Lead, Redbricks) 3.Er.Anurag Routroy (Sr. Tech Lead, Mcafee) To motivate and guide the students towards the working environment in various industries/companies depending upon new Technologies.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

A flexible governance mechanism allows the institution to make significant strides towards the realization of its goals. Governance is based on the themes of: 1. Autonomy and oversight: Each school and administrative function sets their own individual strategies along with the Chairman of the institution.

Along with the strategy, a set of targets and boundary conditions are prescribed against which the progress towards realization of the strategy is measured. 2. Synergy between academia and administration: Administrative and administrative tracks are kept separate since the people requirements of individuals in the two tracks are different. Shared services (HR, finance, payroll management, estate management, international relations, etc.) centres are established and operated that service all the Faculties. 3. Transparency and accountability: Transparency is present at two levels -institution to external stakeholders and within the institution. For external stakeholders, annual reports, research publications, academic and process reports are published. Internally, a 360 degree feedback process along with recourse for appraisals is present. To ensure accountability, targets are set every year during the strategy decision phase, against which each function is measured. 4. External advisory: Statutory academic bodies like Board of Management, Academic Council and Boards of Studies are represented by external members from academia and industry who provide useful inputs which are incorporated into the system.

5. Faculty input: All the statutory bodies of the institute have faculty members representation as mandated by the UGC regulations which is detailed below: Statutory Body Total strength of faculty members Board of Management 12 33 Academic Council 67 89.5 Faculty General Board of Studies 20 90 Research Advisory Committee 22 77.3 Planning and Monitoring Board 10 50 Departmental Boards of Studies 10 80 Further every Faculty conducts HoD's meetings periodically wherein faculty input on academics, administration and research is discussed and decisions taken. At the department level, faculty provide their input on various student issues in departmental meetings so that the interests of the main stake holders, namely, students, are taken care of. In addition to the above, 1. Faculty members are part of Class Committees wherein they usher in changes in teaching methodology and evaluation methodology after interacting with the students. In various committees constituted from time to time for the smooth running of the institution, 100 of the membership is from faculty side so that there is no unnecessary interference from management.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	Faculty members regularly attended the meetings of Board of Studies (BoS) for Curriculum development organized by the different departments in the Institution. The Board of Studies consists of Members from the affiliated Universities/ Industries / NGOs / and Student Community where ever applicable. The Faculty members suggested the Board of study for implementing different courses closely related with the Industry. Departments introduce new electives in emerging areas on a regular basis as per current

and projected needs. The Courses comprise Lectures, Tutorials and Laboratories where faculty members and teaching associates involved completely during the academic year.

Teaching and Learning

The Institution's Teaching, Learning and Assessment strategies are continually reviewed, ideas for improvement identified, and implemented. Some of these consists of Implementation of outcome based education, Academic research, Guest lectures, Industry visits and lab lectures, Mentoring, Tutorial teaching etc. The Seminars/Group Discussions/Presentations are highly encouraged and it is a continuous practice to conduct faculty seminars in weekly basis on their research and recent buzzing topics. Apart from regular academic courses the Enrichment courses are encouraged in the departments so as to keep in pace with the present scenario. The institute creates a culture of instilling and nurturing creativity among the learners through various academic activities

Examination and Evaluation

All the Semester Examinations are conducted under the supervision of the Controller of Examinations headed by the Principal of the Institution. The centralized paper evaluation is undertaken in the office of the Exam Control Division itself and the results are declared after the approval of the Conducting board of Examiners of the Institution. Some of the associated task in Examination Section includes: Monitoring the performance of the students by means of Continuous Assessment Test and End Semester Exams, Communication of evaluation methods to the students by faculty at the beginning of each Semester, Autonomous End Semester Examination papers are being set by External Experts. Combining the Internal level marks and Semester level marks final Grade is awarded to the student., Declaration of Results and conducting Special examination for failed students, Automation of the Examination Cell to ensure timely declaration of results to keep the Academic calendar on schedule.

Admission of Students

The admissions of the students are strictly followed as per rules and regulation based on the Government of

Odisha and AICTE norms. To ensure publicity and transparency in the admission process, a separate Admissions Cell exists, and they advertise in local National dailies, and in our Website. Through counselling system, the students are admitted based on the marks obtained in higher secondary and Ranks in Joint Entrance Examination through merit cum reservation basis.

Research and Development

An R D cell has been constituted in the Institution whose prime objectives are

- To identify research priorities and initiate programmes.
- To seek research grants and promote focused research of national and international importance.
- To accelerate new collaborations and strengthen existing ones.
- To publish research findings in national and international reputed publications.
- To provide logistics support for researchers to implement ideas into tangible outputs.
- To convert UG projects in to intellectual properties and sharing with industries for product development.
- To persuade the faculty and staff member to follow the code of ethics and transparency related to plagiarism with published literatures.
- Emphasis on incubation centre/ cell functioning.
- To facilitate providing seed money to newly joined faculty members.
- To link with MSME, DST, DBT, CSIR etc for receiving sponsored projects.
- To conduct regular seminar/conference/workshop related to Research Development.
- To visit adopted villages under PMKVY and find out the drawbacks or deficiency of the villagers and to focus on those deficiencies to find out low cost engineering solutions research / startup project by the students.

Library, ICT and Physical Infrastructure / Instrumentation

Library The Institution consists of a Central Library named as KNOWLEDGE GARDEN which is fully computerized with LIBSYS software that is user friendly. It helps in accessing a wide range of materials both in print and electronic version. The library has facilities like CD-ROMs, online databases and photocopiers for students. The digital library is an integral part of Knowledge Garden. KNOWLEDGE GARDEN is a well-stocked computerized library

having nearly 40000 volumes besides e-journals is a hub of educational excellence. The library has nearly 2600 sq. mtr. of reading area for the users.

We have Open-Access systems where students are allowed to browse their documents through terminals it is quite easy to search their reading material.

Documents are kept in the library as per standard classification scheme and also follows AACR-2 cataloguing rules.

The catalogue cabinet and computer system (OPAC search) at the entrance of library to apprise the users for reflecting the stock of library.

Library provides membership to all its students, faculties, and administrative staff. The Membership form is available

at the circulation counter. The students are provided with a library period in their weekly time table in order to enhance knowledge. Apart from

this, the library is kept open from 9.00 A.M. to 5.00 P.M. Staff members

and students use the library after their class hour. Every year Central library is added with new books and

journals. ICT Infrastructure The Institution have LCD projectors, HP, Dell Desktops, HP printers, Internet switches, Laser printers, UPS, Power Generator, Application software and Systems software. Every department has

individual LCD projector, system with internet connection, Classrooms,

Seminar Halls and Conference Rooms are equipped with Computers and Video

Projectors / LED Panels, LAN Connection for Internet for all buildings of the

Institution. Sports And Cultural

Facilities Only a fit body can team up with a fit mind Staying physically fit

and mentally refreshed is a pre-requisite for every student. There is a

Sports Centre, functioning to ensure the needs of sports activities of all

the Institutes in our educational complex. A large playground in the

campus is well equipped for cricket, hockey, football, basketball and other

Indian games. It is the training and facilities that have helped DRIEMS in

bringing laurels at various

competitions. The latest facilities consist of swimming pool, billiards,

squash court, badminton, table tennis, gymnastics various indoor games. It has

been believed in the age-old saying and

thus a large platform has been provided for our students to showcase their talents in music, drama, dance and other cultural activities. DRIEMS has a 600-seated air-conditioned auditorium and a large open air theatre. This theatre boasts of an ultra modern sound system, which is capable of being reconfigured to suit to different needs. The stage has a full-fledged lighting system with dozens of spots, flood lights dimmers.

Human Resource Management

Being an Educational Institution, Faculty is the main Human Resource of the Institution. The management assesses adequate human power requirement. Various Induction training programmes are conducted for new faculty members. In order for quality enhancement measures the faculty members are deputed to Faculty development programmes in subject and capacity building domains. Keeping in view of the quality initiative programme staff members are encouraged to organize Developmental Training Programme and Workshops/Seminars for enhancing the multi-skills among them. A performance appraisal form named Personal Appraisal Report (PAR) has been initiated for Professors, Associate Professors and Assistant Professors for annual quality assurance in the Institution. The departments set achievable targets for the faculty members in the academic year for all parameters teaching, results, self development and contribution to the department etc.

Industry Interaction / Collaboration

The Institution has an Industry Institute Partnership Cell (IIPC), Entrepreneurship Cell (EDC), Career Development Cell (CDC) headed by Assistant Directors, eminent Professors and members from Faculty Fraternities. Various Seminars /Workshops/ Industry Expert Talks have been conducted in these cells so as to aware among students for exposure of Industrial atmosphere and subsequent help in placement of young graduating Engineers in Industries across the Country. Apart from these the Institution facilitating visits by senior industry leaders for interaction with faculty and students, Seeking the help of companies to spare working products / prototypes for

academic demonstration purposes and Facilitating in-plant training, industry visits, summer and final semester internship for students across all disciplines and campuses through these cells

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
<p>Planning and Development</p>	<p>The Institution is well equipped with e-governance systems that include computerization and management of processes such as registration, admission, student information, classes, time table, attendance, library, salary and expenses, examinations, grades, hostels, and reports. Many of the software available allow stakeholders to choose from the available modules to suit their needs for monitoring of these aspects. The Vision, Mission Statement and strategic plan of the Institution are displayed on website. The Code of Conduct for various elements of Organization is displayed on the Institution Website.</p>
<p>Administration</p>	<p>The Notice for the meetings is circulated through digital media such as whats app, Intramail or webmail of the concerned members. Biometric attendance is in place to record the attendance of all staff members. The attendance of the students has been maintained in Management Information System (MIS). The MIS has also incorporated with model questions, Video lectures and other academic materials related to students benefit.</p>
<p>Finance and Accounts</p>	<p>The Finance and accounts is managed through online mode. This has helps keeping records of receipt of funds, projects, consultancy income, donations, staff salary and all types of purchases and payment of various utility bills and taxes. The payment of student fees is also maintained trough online mode. All important finance matters and administration matters are maintained in a cloud based information database.</p>
<p>Student Admission and Support</p>	<p>The admission procedures have been displayed in the Website regularly. The Students seeking admission in the Institution need to apply in online mode. Students are allotted to the institution in online platform. The</p>

fees of the students can be deposited through online mode

Examination

The Students fill up the Exam Forms in online mode. The question papers are received from the University in Online mode. The Institution has been selected for evaluation centre where the entire evaluation processes are carried out. It has been completely monitored by the University Personnel. The evaluation centre is not only applicable to in-house Faculty members but also open for other faculty members nominated by the University. The evaluation process is completely paperless and even biometric attendance has been kept for faculty members for keeping their attendance report. The declaration of results is notified in the University website and in the institution website too so as to easy access by the students and faculty members. Each student has an unique ID and Password through which they can glance the entire semester wise result at any time and at any place.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Sushanta Kumar Sethy	Workshop on Unnat Bharat Abhiyan at NIT, Rourkela	Nill	3000
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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	Nill	MS OFFICE	18/12/2018	20/12/2018	12	18
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the	Number of teachers	From Date	To date	Duration
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professional development programme	who attended			
ICT Based Short Term Training Programme on Introduction to Network Security from 24th June 2019 to 28th June 2019 by NITTTR Kolkata at DRIEMS Autonomous Engg. College, Cuttack	22	24/06/2019	28/06/2019	5
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
11	11	8	8

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> • Free Transport facilities to and from their home to College. • Subsidized canteen facility. • Free medical checkup and treatments at Hospitals run by College Management members • Orientation Programme, Refresher Course. • Duty Leaves (DL) and Casual Leaves (CL) of 15 Days allowed to Faculty Members. • Provision of Guest house in case of Emergency • Free lodging and fooding in Guest house during hostel visit. 	<ul style="list-style-type: none"> • Free Transport facilities to and from their home to College • Short term Training Programme, • Medical facility • Provision of Provident Fund (PF) to the staff (If applicable as per rules of Govt). • Awards for best worker in Independence Day and Republic Day celebration. • Duty Leaves (DL) and Casual Leaves (CL)15 Days allowed to Faculty Members 	<ul style="list-style-type: none"> • Subsidized Transport facilities to all day scholars near about 70 Kms from campus • Provision of Scholarship • Accommodation facility (Hostel) for both Boys and Girls. • Playground facility. • Gymnasium facility. • Indoor games such as Snooker, Billiards, Badminton etc. • Swimming facilities. • Common Room/Recreational Centre. • Canteen. • 24X7 Ambulance facilities. • Transport facilities to hostel boarders for marketing after the college hours.

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

A financial committee has been constituted to allocate funds for various activities and it was placed before the Governing Body for getting approval. At the end of the financial year, the overall account details are audited by a Chartered Accountant.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
ORICLEAN PVT.LTD	169550	CONSULTANCY WORK
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6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	Null	Yes	Principal Dean (Academic)
Administrative	No	Null	Yes	Director (Administration)

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

CSE Dept. : Parent - Teacher meeting organised on 10th November 2018 Parent - Teacher meeting organised on 17th February 2019 Parent - Teacher meeting organised on 20th October 2018 ME Dept. : 1-A meeting was held for 7th semester students on Dt: 16-09-2018(11am) regarding academic progress of their ward and for valuable suggestions for improving the teaching learning systems. 2- A meeting was held for 5th semester students on Dt:06-09-2018(11am) regarding academic progress of their ward and for valuable suggestions for improving the teaching learning systems. 3- A meeting was held for 3rd semester students on Dt:007-08-2018(10.30am) regarding academic progress of their ward and for valuable suggestions for improving the teaching learning systems. EE Dept. : Parent - Teacher meeting organised on 11th November 2018 Parent - Teacher meeting organised on 18th February 2019 Parent - Teacher meeting organised on 21st October 2018

6.5.3 – Development programmes for support staff (at least three)

CSE Dept. : ICT Based Short Term Training Programme on Introduction to Network Security from 24th June 2019 to 28th June 2019 by NITTTT Kolkata at DRIEMS Autonomous Engg. College, Cuttack EE Dept. : One day workshop in INDUSTRIAL Automation on 9th Nov.2018 in collaboration with CTTC , Bhubaneswar

6.5.4 – Post Accreditation initiative(s) (mention at least three)

ME Dept. : (1)Setup new laboratory with modern equipment. (2) focus on non-conventional energy sources. (3)Fund generation. EE Dept: (1)Setup new laboratory with modern equipment. (2) focus on RD Activites and generating huge amount of funds (3) Stress on creating centre of excellence in collaboration with research industry 4) Focus on hybrid power generation. CSE Dept. : With reference to letter number NBA/ACCR-988/2004 dated 19/07/2008 the Department of Computer Science and Engineering of DRIEMS has been accredited for 3 years w.e.f 19/07/2008. A comprehensive report mentioning the strength and weakness of our department submitted by the chairman of expert committee. The department initiates necessary action to overcome shortcoming obs Observation-1 Workplace for computer needs improvement. Action Taken Previously exiting laboratories (in five nos) has been reconfigured to provide better workplace and new

laboratories (in three nos) have been set up with adequate workplace for users. Observation-2 Adequate number computers for lab activities. Action Taken In the 2008 the department had 5 (five) laboratories with 221 number of system. In the year 2010 the department had set-up 3 (three) new laboratories with 96 numbers of systems equipped with up-to-date lab resources: • Java programming lab • Software Engineering lab • Graphics and multimedia lab Observation-3 Budgetary provision for research is necessary and organized plan for its utilization should be worked out for in-house research. Scope for consultancy needs to be pursued. Action Taken On each financial year the budget is put up for research and publication work. The utilization is also worked out properly. The department has also initiated various consultancy works. The department has its own journal (International Journal of Intelligence Computing and Applied Sciences). The consultancy work has been carried out in collaboration with career line. Software projects are developed for various institutions and companies.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
d) NBA or any other quality audit	No

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	National workshop on "Scope of Entrepreneurship in Electrical and Electronics Engineering" [SEEE-2018]	12/07/2018	12/07/2018	13/07/2018	140
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Gender sensitisation Training programme	27/07/2018	31/08/2018	32	48
Crime against Women and Children	14/11/2018	14/11/2018	40	45
International	08/03/2019	08/03/2019	35	22

Women's day

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

0

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	Yes	1
Ramp/Rails	Yes	1
Braille Software/facilities	No	Nil
Rest Rooms	Yes	1
Scribes for examination	Yes	1
Special skill development for differently abled students	No	Nil
Nil	No	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2018	2	3	05/12/2018	01	Unnat bharat aviyan	Literacy, sanitation health	35
2018	2	3	10/12/2018	01	Unnat bharat aviyan	Literacy, sanitation health	48
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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
NIL	Nil	NIL

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Induction programme	01/08/2018	21/08/2018	147
WORKSHOP ON HUMAN VALUES ETHICS	10/01/2019	11/01/2019	40

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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

- Students staff using bicycles Due to the rapid growth of environment pollution it has been kept mandatory for all not to use motorcycle inside the Institution Campus. For this a Motorcycle stand has been made near the front gates where all staff members need to keep their motorcycle in the stand and proceed to the respective buildings through walking or through the solar powered or battery operated vehicles. All staff members uses bicycle instead for their movement from one building to other.

- Battery operated and Solar vehicles used for transportation within the campus The Institution has battery operated vehicles which help staff members for their transportation inside the campus. Keeping in view of this the department of Mechanical engineering has manufactured two solar powered vehicles for easy transportation inside the campus. It has been keep in practice and suggested that all departments need to prepare their own solar powered vehicles for easy transportation inside the campus

- Pedestrian friendly roads The institution has pedestrian friendly roads for easy transportation from one place to another. Apart from the main road, Pedestrian roads are made which connects all the buildings inside the campus.

- Plastic-free campus Paperless office The institution has made a practice not to use plastic inside the campus as well as hostel avenues. The dustbins are placed at various places such as near bathrooms, staircases, near pedestrian roads and even near the freak out points. These dustbins are cleaned and maintenance is being done by the maintenance teams. It has been clearly instructed to everyone not to use plastics inside the campus. Being an educational institution in which quite difficult to maintain paperless work still necessary steps are being taken to make paperless work in every field which is under process.

- Green landscaping with trees and plants The Institution has been covered with lavish green trees and herbs which are quite eye catching to everyone. Well trained and hardworking members are being used for the complete maintenance of the entire campus. Gardening and Plantations are being done on everyday basis as a practice where sophisticated machineries are used for the maintenance. A well furnished and designed cascade system has been made for watering the greenery grass in the campus.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice I Title of the Practice: Socio-Economical Transformation through Technical Intervention Objective As a committed stakeholder to education, the Institution tries to create a sustainable environment and bring about a transformation in the neighbourhood through technical intervention. The proactive steps are taken in the concerned area of energy, green environment, health and digital environment. Context The Institution offers this course under non-credit compulsory course structure. The course component is designed to provide an understanding of society, its current and projected needs and to find a concrete solution through technology-based collaborated solution. As this course is a blend of curriculum courses with developmental action and societal growth with the learning community as changing agent, which is directly related continuous infield intervention. Bridging the gap between the controlled environment of the Institution and problems encountered at ground level is a challenge for the practice. Some of the other challenges encountered through the course are creating awareness, building trust in the midst of

illiteracy, poverty and non-existent infrastructure. But proactive collective value orientation resulted from technical knowledge input by the students far outweighs the problems encountered. The practice The SETTI as it is known in the Institution is imparted through a non-credit course structure. It consists of field work segment and project submission. The departments have a designated co-coordinator for this course, with a Chief co-coordinator at the central level. The implementation of this practice involves various administration and extension branches of the Institution ranging from student co-coordinator, faculty co-coordinator, NSS division, Public Relation Division to Institution administration. The course designed for every student is field work of 40 hours per year. The 1st year work acts as an expository to the course. The Institution has adopted 5 neighbourhood villages for this noble purpose. The names of the respective villages are Bandalo, Bhatimunda, Kandarkana, Poiguin and Anjua. The 1st year students are taken to these villages on guided tour during the 1st 2-3 weeks of the programme. During this time they try to acclimatize themselves to the life, lively food and environment of the village. The 1st year students also engage themselves with various community development programmes as customized by the Institution keeping in view the specific need of a village. The young students also perform various cultural programmes for the village audience. All these programmes are designed to communicate social messages in alignment with the concern of MHRD, State Government, UN and UNICEF. In the 2nd year students are asked to associate themselves with one village and identify problems pertaining to that village and its people. They are asked to submit a report on the problem. In the 3rd year students try to bring about a concrete solution to the identified problems through the technical skill gained in their chosen branch of engineering. Three best projects are chosen out of total submitted reports. These projects are handed over to the R D Division to implement and monitor in the concern village and field. Evidence of Success • Due to first-hand experience of society and societal requirements mostly a large number of students have shown interest industry sponsored projects, internship and field training. • As the students climb through stairs of higher education they also become agents of change by creating new platforms and networks of their personal norms, voice, network and capacity input. Problems Encountered • There is no neutral independent platform for academia and targeted social impact group interface. As a result, the whole process of transformation becomes time consuming and gets obscured in the long run. • In the absence of a well-defined policy for such initiatives from the Government side students have to go through many obstacles at Government and village level. • At the stage of implementation and expansion lack of funds also acts as a hindrance to many transformational projects. Best Practice II Title: Student-Teacher and Ameliorate Service (STAS) Objective DRIEMS (Autonomous) because of its priority to students of rural background has been a recipient of students with limited academic preparedness and performance. STAS, as a practice was started to lead a strong academic foundation for students in the 1st year. This will create the required confidence in students to reach their maximum potential and convert challenges into opportunities in the final year. Context Students with limited academic preparedness cannot be expected to face the cutting edge competition of placement drives, competitive examinations and entrance into research programmes. It is equally unreasonable to expect the Institution to close these gaps through curriculum based classroom teaching. Most of the times students needs vary from requiring guidance in one subject to all and also from individual coaching to group learning. To overcome this challenge the Institution follows a well-devised remedial programme covering 4 years of B.Tech. Programme. At a micro level the STAS helps students to gain conceptual clarity in certain fundamental subjects and their applications to the related field. At a macro level this practice helps the Institution to its targeted incremental average in result (as set every year) and also enhances the confidence level to face on and off campus placement drives. The Practice

That STAS is practiced in the institution with rigorous vigor detailed attention. • Analysis of student's academic preparedness As soon as a student enrolls himself/herself in to the B.Tech course of DRIEMS he/she is asked to appear for a diagnostic test on fundamental subjects of Physics, Chemistry, Math, English. The question papers for these tests are prepared well in advance by faculty members of concerned Department. Based on the test score, the departments decide on the academic preparedness level of the student for B.Tech programme. They also decide the role of STAS on the student's academic life. Academic standard evaluation is a continuous process at DRIEMS. This process is practiced through surprise tests, Internals, Quiz and interaction with faculty members. • Identification of Learning ability and Learning Need The faculty members at DRIEMS understand that each student is unique and is different from the other in terms of learning ability, learning need and academic performance. At this stage of SAS the departments decide on the depth of remedial help needed for each student. Senior faculty members guide their juniors on the strategies to be adopted for every student. Some of the strategies include group/individual mentoring, choice and range of subjects, curriculum based teaching or intensive teaching and guidance on beyond curriculum teaching for high achievers. • Teaching/Learning Process STAS focuses on refinement of learning process with holistic approach. Two faculty members per day are assigned duty under STAS programme for this practice. These faculty members stay back after college hours to guide students on the required subject. They also provide appropriate assistance to the student on other subjects, encouragement to understand their own capability and enhancement of self-confidence to face examination. • Peer Support Programme Advanced learners of the programme are identified and trained by department to help their college mates with group teaching and self-study sessions. This type of exercise creates an environment of cooperation and brotherhood in the college. • Evaluation Learning progress of the practice is regularly assessed through surprise tests, feedback from students, parents, teachers and performance in the examination. Evidence of Success Feedback received from students and parents speak of a positive growth in the academic performance in maximum students enrolled in STAS. The high achiever groups get benefitted through personal involvement in the teaching/learning process and develop research interest in their chosen field. They also learn to Master and apply their critical thinking skills and creative skills for team work. Students, irrespective of their level of achievements, experience learning in a conducive and nurturing environment. This helps them to be better individuals and to stand for fellow beings in their day-to-day life.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

https://www.driems.ac.in/driems-degree/igac/2018-19_best%20practices.pdf

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

The vision of DRIEMS is to be a premier academic and multi-faceted Institution to foster diversity, value added education and research. It aims at growing with sustainable and retainable innovations to transform techno kids into world class leaders. • In the extended vision, the Institute has set up an "Innovation Eco System" to nurture the young engineering students who pose outstanding innovative ideas. Those who are interested to start their own startup companies are always encouraged with different skills. The main objective of eco system for innovation is that if students could develop and sustain their products or services in their markets/workplaces, they could create new job opportunities for the societal transformation of them. As

leaders from learners. Good quality research work of students and faculty members are to be published in the National and International reputed conferences and Journals. DRIEMS is also taking steps to convert a few innovative ideas into patents. DRIEMS remains committed to build a leadership, conscious citizenship and active participation of engineers for furthering developmental goals of the nation. The thrust on academics in the Institution aims at developing creative and critical thinking to nurture innovation and excellence. DRIEMS discerns its students making capable of acquiring global skills for entrepreneurship, professional efficiency and improving quality of life in the civil society. The Institution is recognized as centre of excellence for its extension, research and teaching-learning in several areas. The mission of DRIEMS works firmly to meet the test of time and the Institution provokes empowering the workforce particularly for social and national development keeping the global scenario in the mind. Institutional education aims towards capacity building for entrepreneurship, enhanced economy for quality of life in the society. Institute encourages students to work on their innovative and entrepreneurial ideas providing separate workspace on the campus with Wi-Fi Internet connectivity, required laboratory infrastructure in terms of hardware and licensed software under guidance of qualified and experienced faculty members and industry experts. • Entrepreneurship Development Cell (EDC) and students avail complete freedom for their self and career development during extra hours using laboratory equipments and Internet. • The students are encouraged and trained by faculty members, Career Development Cell (CDC) and outside agencies to develop new products with skill to provide services and prepare them commercially bright with accessible components in the global market. Students are also assisted financially by the Institute in terms of encouragement awards or seed money to start their research and developmental works. DRIEMS has been supporting these initiatives for last two years. As Government of India has launched many initiatives such as Make-in-India, Smart India Hackathon and Unnat Bharat Abhiyan, etc. Government agencies also have been encouraging young techno kids to start their own startup companies with a purpose to create employibilities for economically challenged youngsters in rural areas. It is an untold, but visible interest of students to involve in these Government initiatives. • On regular basis, the students are asked to make presentations of their innovative ideas in their respective branches

Provide the weblink of the institution

<https://www.driems.ac.in/driems-degree/igac-institutional-distinctiveness.php>

8.Future Plans of Actions for Next Academic Year

1. Undertaking funded R and D projects and consultancy works.
2. Planning to increase more number of MOUs with industries.
3. Increasing the number of journal and conference publications.
4. To promote entrepreneurship skills of students through venture development center.
5. Planning to increase the number participation in online certification courses such as SWAYAM NPTEL, MOOC'S Etc.
6. Improving the security and safety in the campus.
7. Adapting innovative teaching and learning methods
8. Planning to achieve more than 85 of the students placement with medium salary of 4 lakhs per annum
9. Planning to achieve more than 20 of the students should get eligible scores in GATE examinations.
10. Planning to encourage more than 3 of the students to become an entrepreneur.