



OP JINDAL UNIVERSITY, RAIGARH

ANNUAL REPORT

The YEAR 2019-20

Part A

General Information

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01. About OPJU:

Founded by the Jindal Education and Welfare Society (JEWS), OP Jindal University (OPJU) was set up to bring high-quality education to its students based on a world-class curriculum, the latest teaching methodology, and committed faculty members. The multidisciplinary university aims to develop young professionals and future leaders who will not only power growth the development in the state but also make a mark globally.

At the core of the university's philosophy and approach lies the belief that students learn best when exposed to real-world situations and nurtured through enriching interactions with practitioners and professors. We at OPJU believe that every student has an innate potential that can be unlocked through quality teaching and mentorship.

OP Jindal University was established by an Act of legislature in the state assembly of Chhattisgarh in 2014. It is promoted by Jindal Steel and Power Limited, India's fastest growing STEEL & POWER Company and is an industrial conglomerate of the US \$ 15 Billion Jindal Organisation. OPJU is student-oriented and research-driven. It aims to offer an education that fosters the growth of innovative thinking, technical excellence and builds leadership skills. The learning ambiance at OPJU will nurture the spirit of creativity, problem solving, entrepreneurship and innovation encourages learning by doing, and above all adding value to the education to serve the society for a great cause. Our Engineering education ensure that students of the School of Engineering at OP Jindal University are transformed into industry-ready engineers who are skilled enough to take on challenges, bear responsibilities and emerge as leaders in the various fields of engineering.

1.1 Vision

The pursuit of knowledge through experience is the cornerstone of OP Jindal University. We aim to build an institution where students learn by doing, where real-world challenges find practical solutions and innovation happens not by chance, but by design.

1.2 Mission

In pursuit of its vision, OPJU will

- Adopt an Experiential pedagogy across its programs, to make students understand the concepts and give them the ability to solve real-world problems.
- Embed liberal education to develop well-rounded professionals who can work at multiple levels of responsibilities.
- Leverage technology to enable teaching by faculty and practitioners from around the world.
- Partner with world-leading institutions, both from academia and industry to create an eco-system to meet the needs of the steel and affiliated industries.
- Facilitate best-in-class student experiences through investment in technology, academic and residential amenities, and sports and recreational facilities.

- Create an “Industry” focused environment to foster research to solve real-world problems.

1.3 Values

- Measure success through student outcomes.
- Foster an environment of academic freedom.
- Maintain the highest standards of ethics and integrity in all its operations.
- Develop sustainable practices and concern for the environment.
- To remain accessible to all facets of society without consideration of economic status.

02. Schools under OP Jindal University:

- School of Engineering (SOE)
- School of Management (SOM)
- School of Science (SOS)

03. Departments in SoE:

- Civil Engineering
- Computer Science and Engineering
- Electrical Engineering
- Mechanical Engineering
- Metallurgical and Materials Engineering

04. Department-wise Laboratory details:

Civil Engineering

1. Material testing
2. Surveying Store
3. Fluid Mechanics
4. Transportation Engineering
5. Geotechnical Engineering - I
6. Geotechnical Engineering - II
7. Environmental Engineering
8. Structural Engineering Design - I
9. Structural Engineering Design - II
10. Structural Engineering Designing - III
11. Civil Engineering Drawing
12. Theory of Structure
13. Concrete Technology
14. Professional Practice

▪ **Computer Science& Engineering**

1. Internet of Things (IoT)
2. C/C++Lab
3. J2EE/Network Security
4. Unix/Linux
5. Web Technology
6. Stab/Auto cad
7. Computer Graphics/ AI
8. Android
9. Network
10. Dot Net
11. Big Data Analytics
12. Machine learning
13. Python Lab
14. Cloud computing Lab

▪ **Electrical Engineering**

1. Basic Electrical & Electronics Engineering
2. EEE Workshop
3. Electronic Devices & Circuit
4. Electric Circuits & Network Analysis
5. Electrical Machines-I
6. Digital Electronics
7. Power system simulation
8. Advanced Microprocessors and Architectures
9. Electrical Machines-II
10. Linear Integrated Circuit
11. Control system
12. Power Electronics
13. Power System Protection & Switchgear
14. Digital Signal Processing (DSP)
15. Electrical Drives
16. Microcontroller and embedded system
17. Matlab Simulation
18. Transmission line simulator
19. High Voltage
20. Advance Communication (Additional)
21. Lab View (Software) (Additional)

▪ **Mechanical Engineering**

1. Mechanical Engineering & strength of the material
2. Heat & Mass Transfer
3. Automobile
4. Theory of Machines
5. Internal Combustion Engine
6. Refrigeration & Air Conditioning
7. Robotics
8. Advanced CAM
9. Advanced CAD
10. Thermodynamics
11. Fluid mechanics and Hydraulics machines
12. Thermal Engineering
13. Workshop
14. Manufacturing practice
15. Thermo fluid
16. Power Plant Engineering Lab-I & II
17. Numerical Method
18. Matlab

▪ **Metallurgical & Materials Engineering**

1. Introduction to Physical Metallurgy
2. Mineral Dressing
3. Introduction to Material Science
4. Fuels, Furnaces & Refractories
5. Deformation Behaviour and Testing of Materials
6. Non Destructive Testing
7. Heat Treatment of Materials
8. Transport Phenomena in Metallurgical Process
9. Mechanical Working Process
10. Materials Characterization
11. Steel Making
12. Computer Application in Metallurgical Process
13. Corrosion and Protection of Materials
14. Foundry Metallurgy Lab

5. Centre of Excellences:

The University is having Six Centres of Excellence to nurture innovation, research, and entrepreneurship among students.

Centre for Research Excellence (CRE)

The Centre for Research Excellence (CRE) has been established at OP Jindal University (OPJU), Raigarh which aims to nurture research culture at the university into challenging areas of Engineering, Technology, Science, Humanities, and Management, including multidisciplinary fields. The CRE is a faculty-initiated activity at OPJU designed to increase the impact and prominence of scholarly research throughout the university. Under the auspices of the University Research Committee, the CRE will promote advancement, leadership, and excellence in the pursuit of all areas of research, university-wide. The core of the CRE will be a group of OPJU faculty experts who are both accomplished and committed to promoting a culture of research excellence @OPJU.

Centre for Steel Technology and Product Development (CSTPD)

The OP Jindal University (OPJU) is the ONLY private university dedicated to meet the challenges of the country's iron and steel industry by establishing a dedicated center to promote research, knowledge sharing, provide training and programs to meet the needs of the industry in the areas of Steel Technology, Power Technology, Welding Technology and Environmental and Waste Management. The Centre of Steel Technology and Product Development (CSTPD) has been established at OPJU, Raigarh by the Jindal and Steel and Power Ltd. (JSPL) Group to cater to the needs of the entire Indian Iron & Steel producers and User Industries. OPJU is considered to be India's Steel University established under the JSPL flagship.

Centre for Industry-Academia Collaboration (CIAC)

Under this center, University has formed The Industry Advisory Board (IAB) which ensures that the University stays at the forefront of multidisciplinary operations and responds quickly to industry needs. Offering guidance and support consistent with the program's mission and objectives, the IAB actively assists OPJU in achieving its academic and research goals through industry leadership, cooperation, feedback, and acquisition of technical and other support. Through IAB, universities expect to improve the quality of professional education adequately and meet the needs of the industry and academia based on the cross-fertilization of ideas for systems improvement.

Centre of Innovation, Entrepreneurship, and Leadership (CIE)

CIE@OPJU nurtures innovative minds and fosters a vibrant ecosystem to support OUT-OF-THE-BOX-THINKING and encourages entrepreneurship instincts of the young generation. Our mission is to unleash the spirit of innovation and entrepreneurship at the OP Jindal University. At CIE we cultivate a rare breed of budding entrepreneurs by incubating, accelerating, mentoring, and supporting innovative start-ups via building connections between our campus and the Industry leaders, Government agencies, and curators of the innovations. In keeping with the commitment of the university towards the Government's "make in India", "Skill India" and "Start-up India" initiatives, we have created an ecosystem on the campus to support and bridge the gap between theory and practice.

Centre for Corporate Education & Training (CCET)

The Centre for Corporate Education and Training develop programs to support the people that make the organization thrive. CCET operates in a dynamic business environment and it is important that training methodologies are current, push boundaries and bring about actionable changes in the participants. This center is equipped with the right resources, knowledge of skills, and tools required to train manpower in various levels and across various sectors. A core activity at OPJU, CCET works closely with its partners to meet their manpower training and skilling needs in the technical, functional, and behavioral areas.

Centre for Social Empowerment (CSE)

The Centre for Social Empowerment works towards socio-economic empowerment, ensuring a better quality of life and Equality amongst various sections of the society, livelihood enhancement of the people residing in the target community. CSE Concentrates on the empowerment of weaker sections of the society and women of the rural areas; the Centre includes the participation of all stakeholders: students, faculty, NSS, NGO, and the local community. CSE at the University encourage and propel faculty and students to imbibe the qualities of enlightened leadership and thereby instill in them a level of trust and confidence in themselves and the community.

6.

Central Library:

Total No. of Books	No. of hard copy Journals	No. of E-Journals	No. of Books purchased in 2019-20	Amount spent in purchasing the books in the year 2019-20
26396	103	--	831	6,21,000.00

7. Global Partners:

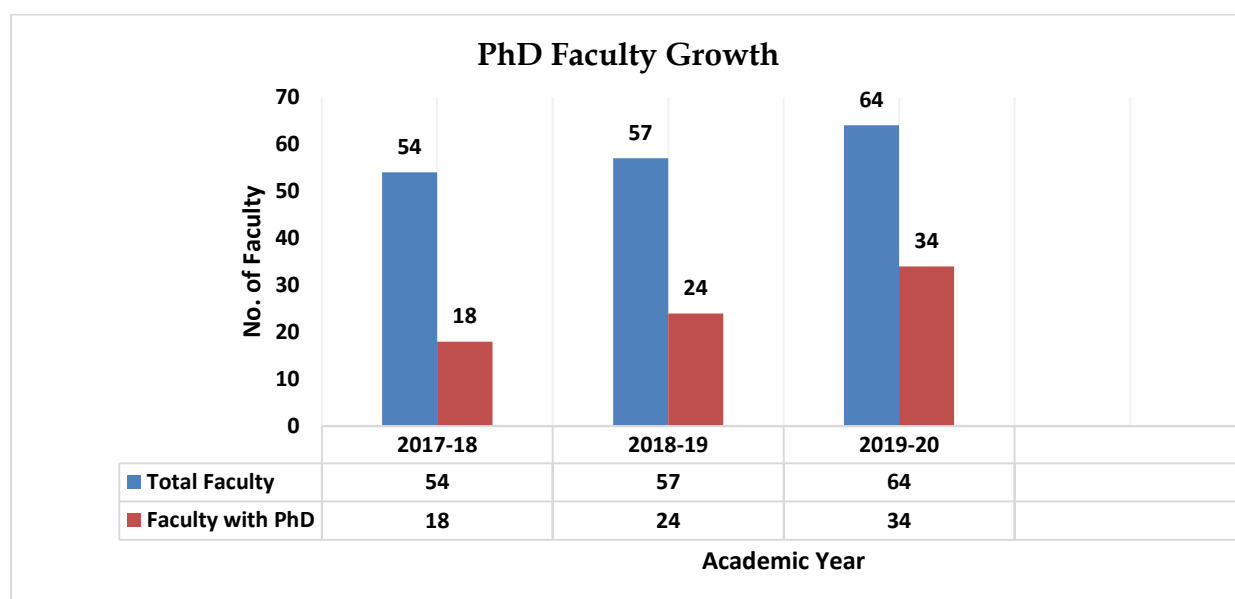
We have forged global partnerships for student and faculty exchange, research, and curriculum collaboration.

- ✚ University of Colorado School of Mines, Colorado, USA
- ✚ Texas University, Dallas, Naveen Jindal School of Management
- ✚ Changwon National University, South Korea
- ✚ Anhui University of Technology, China

8. Teaching Staff:

School	Department	Professor	Associate Professor	Assistant Professor	Total
School of Engineering	CSE	01	--	07	08
	Mechanical	02	01	06	09
	EE	01	02	07	10
	MME	01	02	05	08
	Civil	01	--	05	06
	Basic Sciences & Humanities	02	02	09	13
School of Management	Management	01	03	06	10
Grand Total		09	10	45	64

8.1 PhD Faculty Growth



PART-B

MAJOR ACHEIVEMENTS

&

ACTIVITIES IN THE YEAR

2019-20

9. Student's Results:

For Academic Session July to December-2019-20

✚ School of Engineering(SOE):

B. TECH - VII [2016 BATCH]									
Session	Month & Semester	Course	Branch	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	December-2019	B. Tech	Civil	7 th	Regular	42	39	3	93%
			CSE	7 th	Regular	62	54	8	87%
			EEE	7 th	Regular	32	28	4	88%
			Mechanical	7 th	Regular	48	43	5	90%
			Metallurgy	7 th	Regular	18	18	0	100%
			Total					202	182
B. TECH - V [2017 BATCH]									
Session	Month & Semester	Course	Branch	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	December-2019	B. Tech	Civil	5th	REGULAR	28	21	7	75%
			CSE	5th	REGULAR	29	23	6	79%
			EEE	5th	REGULAR	17	12	5	71%
			Mechanical	5th	REGULAR	32	25	7	78%
			Metallurgy	5th	REGULAR	42	39	3	93%
			Total					148	120
B. TECH -III [2018 BATCH]									
Session	Month & Semester	Course	Branch	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	December-2019	B. Tech	Civil	3rd	REGULAR	9	8	1	89%
			CSE	3rd	REGULAR	40	24	16	60%
			EEE	3rd	REGULAR	19	10	9	53%
			Mechanical	3rd	REGULAR	47	35	12	74%
			Metallurgy	3rd	REGULAR	72	59	13	82%
			Total					187	136
B. TECH -I [2019 BATCH]									
Session	Month & Semester	Course	Branch	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	December-2019	B. Tech	Civil	1 st	REGULAR	17	10	7	59%
			CSE	1 st	REGULAR	58	46	12	79%
			EEE	1 st	REGULAR	20	14	6	70%
			Mechanical	1 st	REGULAR	47	37	10	79%
			Metallurgy	1st	REGULAR	27	14	13	52%
			Total					169	121

DIPLOMA -I [2019 BATCH]									
Session	Month & Semester	Course	Branch	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	December-2019	Diploma	EE	1 st	REGULAR	16	10	6	63%
			MECHANICAL	1 st	REGULAR	21	10	11	48%
			METALLURGY	1 st	REGULAR	9	5	4	56%
			Total			46	25	21	

M. TECH -I [2019 BATCH]									
Session	Month & Semester	Course	Branch	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	December-2019	M. Tech	CIVIL (Structural Engineering)	1 st	REGULAR	10	8	2	80%
			CSE (Computer Science & Engineering)	1 st	REGULAR	2	1	1	50%
			EEE (Power Electronics & Power System)	1 st	REGULAR	6	6	0	100%
			MECHANICAL (Power Plant Engineering & Energy Management)	1 st	REGULAR	14	13	1	93%
			METALLURGY (Material Science & Technology)	1 st	REGULAR	13	10	3	77%
			Total			45	38	7	84%

M. TECH -III [2018 BATCH]									
Session	Month & Semester	Course	Branch	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	December-2019	M. Tech	EEE (Power Electronics & Power System)	1 st	REGULAR	2	2	0	100%
			MECHANICAL (Power Plant Engineering & Energy Management)	1 st	REGULAR	6	6	0	100%
			METALLURGY (Material Science & Technology)	1 st	REGULAR	5	5	0	100%
			Total			13	13	0	100%

🚩 **School of Management (SOM):**

BBA -V [2017 BATCH]								
Session	Month & Semester	Course	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	December-2019	BBA	5 th	REGULAR	36	30	6	83%

BBA -III [2016 BATCH]								
Session	Month & Semester	Course	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	December-2019	BBA	3rd	REGULAR	47	28	19	60%

BBA -I [2016 BATCH]								
Session	Month & Semester	Course	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	December-2019	BBA	3rd	REGULAR	97	57	40	59%

MBA -III [2018 BATCH]								
Session	Month & Semester	Course	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	December-2019	MBA	3rd	REGULAR	33	33	0	100%

MBA -I [2019 BATCH]								
Session	Month & Semester	Course	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	December-2019	MBA	1st	REGULAR	41	38	3	93%

 School of Science (SOS):

B.Sc. -III [2018 BATCH]								
Session	Month & Semester	Course	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	December-2019	B.Sc.	3rd	REGULAR	23	18	5	78%

B.Sc. -I [2019 BATCH]								
Session	Month & Semester	Course	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	December-2019	B.Sc.	1st	REGULAR	23	16	7	70%

M.Sc. -III [2018 BATCH]								
Session	Month & Semester	Course	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	December-2019	M.Sc. (Physics)	3rd	REGULAR	5	4	1	80%

M.Sc. -I [2019 BATCH]								
Session	Month & Semester	Course	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	December-2019	M.Sc. (Physics)	1st	REGULAR	7	7	0	100%
		M.Sc. (Chemistry)	1st	REGULAR	9	8	1	89%

For Academic Session January to June-2019-20

 School of Engineering

B. TECH - VIII [2016 BATCH]									
Session	Month & Semester	Course	Branch	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	June-2020	B. Tech	Civil	8 th	REGULAR	42	42	0	100%
			CSE	8 th	REGULAR	62	62	0	100%
			EEE	8 th	REGULAR	32	32	0	100%
			Mechanical	8 th	REGULAR	49	49	0	100%
			Metallurgy	8 th	REGULAR	18	18	0	100%
			Total			203	203	0	100%

B. TECH - VI [2017 BATCH]									
Session	Month & Semester	Course	Branch	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	June-2020	B. Tech	Civil	6 th	REGULAR	30	30	0	100%
			CSE	6 th	REGULAR	29	29	0	100%
			EEE	6 th	REGULAR	16	16	0	100%
			Mechanical	6 th	REGULAR	33	32	1	97%
			Metallurgy	6 th	REGULAR	42	42	0	100%
			Total			150	149	0	99%

B. TECH - IV [2018 BATCH]									
Session	Month & Semester	Course	Branch	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	June-2020	B. Tech	Civil	4 th	REGULAR	10	10	0	100%
			CSE	4 th	REGULAR	39	39	0	100%
			EEE	4 th	REGULAR	18	18	0	100%
			Mechanical	4 th	REGULAR	43	43	0	100%
			Metallurgy	4 th	REGULAR	68	65	3	96%
			Total			178	175	3	98%

B. TECH - II [2019 BATCH]									
Session	Month & Semester	Course	Branch	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	June-2020	B. Tech	Civil	2 nd	REGULAR	17	17	0	100%
			CSE	2 nd	REGULAR	58	58	0	100%
			EEE	2 nd	REGULAR	20	19	1	95%
			Mechanical	2 nd	REGULAR	47	47	0	100%
			Metallurgy	2 nd	REGULAR	27	25	2	93%
			Total			169	166	3	98%

DIPLOMA - II [2019 BATCH]									
Session	Month & Semester	Course	Branch	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	June-2020	Diploma	EEE	2 nd	REGULAR	16	15	1	94%
			Mechanical	2 nd	REGULAR	20	18	2	90%
			Metallurgy	2 nd	REGULAR	9	9	0	100%
			Total			45	42	3	98%

M. TECH -IV [2018 BATCH]									
Session	Month & Semester	Course	Branch	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	June-2020	M. Tech	EEE (Power Electronics & Power System)	4 th	REGULAR	2	2	0	100%
			MECHANICAL (Power Plant Engineering & Energy Management)	4 th	REGULAR	6	6	0	100%
			METALLURGY (Material Science & Technology)	4 th	REGULAR	7	7	0	100%
			Total			15	15	0	100%

M. TECH -II [2019 BATCH]									
Session	Month & Semester	Course	Branch	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	June-2020	M. Tech	CIVIL (Structural Engineering)	2 nd	REGULAR	8	8	0	100%
			CSE (Computer Science & Engineering)	2 nd	REGULAR	2	2	0	100%
			EEE (Power Electronics & Power System)	2 nd	REGULAR	6	6	0	100%
			MECHANICAL (Power Plant Engineering & Energy Management)	2 nd	REGULAR	14	14	0	100%
			METALLURGY (Material Science & Technology)	2 nd	REGULAR	12	12	0	100%
			Total			42	42	0	100%

School of Management (SOM)

BBA -VI [2017 BATCH]								
Session	Month & Semester	Course	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	June-2020	BBA	6 th	REGULAR	36	36	0	100%

BBA -IV [2018 BATCH]								
Session	Month & Semester	Course	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	June-2020	BBA	4 th	REGULAR	45	44	1	98%

BBA -II [2019 BATCH]								
Session	Month & Semester	Course	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	June-2020	BBA	2 nd	REGULAR	94	92	2	98%

MBA -IV [2018 BATCH]								
Session	Month & Semester	Course	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	June-2020	MBA	4 th	REGULAR	33	33	0	100%

MBA -II [2019 BATCH]								
Session	Month & Semester	Course	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	June-2020	MBA	2 nd	REGULAR	31	41	0	100%

School of Science

B.Sc. -IV [2018 BATCH]								
Session	Month & Semester	Course	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	June-2020	B.Sc.	4 th	REGULAR	23	23	0	100%

B.Sc. -II [2019 BATCH]								
Session	Month & Semester	Course	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	June-2020	B.Sc.	2 nd	REGULAR	21	21	0	100%

M.Sc. -IV [2018 BATCH]								
Session	Month & Semester	Course	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	June-2020	M.Sc. (Physics)	4 th	REGULAR	5	5	0	100%

M.Sc. -II [2019 BATCH]								
Session	Month & Semester	Course	Sem.	Status	Regd.	Pass	Fail	Pass %
2019-20	June-2020	M.Sc. (Physics)	2 nd	REGULAR	7	7	0	100%
		M.Sc.(Chemistry)	2 nd	REGULAR	9	9	0	100%
					16	16	0	100%

10. Placements:

The university has excellent internship and placement records. The curriculum is aligned to industry and one full semester internships are compulsory for the engineering students which results in 37% of internships converted into placement in the year 2019-20. Overall 80% of our students placed in 2019-20. Mr. Sujeet Soni got placed with Amazon @32 LPA, a Couple of students got placed on Byju's @10LPA and few students got placed in GMR energy and AxleSys during COVID-19.

Placements Snapshot 2019-20

Sector wise breakup of Students Placed



INR 7.0 LPA
Highest Package

INR 4.75 LPA
Average Package

128
Associate Companies

INR 7.25 LPA
SoE
Highest Package

INR 5.10 LPA
SoM
Highest Package

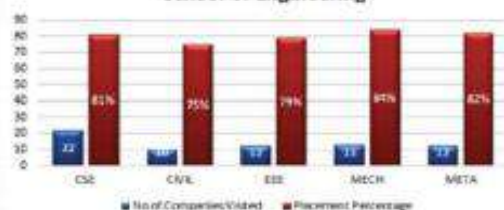
Geographic Diversity (India)



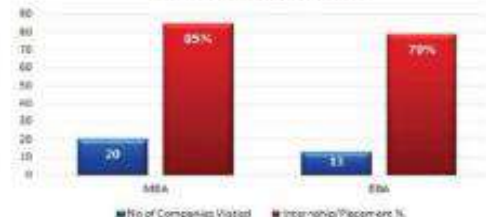
AVERAGE CTC (IN LAKHS INR)
TOP 50% OF THE BATCH



School of Engineering



School of Management



Our Prestigious Recruiters



11. Status of the Admission

11.1 Yearly Admission Scenario

S. No.	School	Course	2017-18	2018-19	2019-20	2020-21
1.	School of Engineering	Diploma	NA	NA	43	45
		B. Tech	141	170	235	230
		M. Tech	23	23	48	60
		PhD	10	06	03	05
		Total	174	199	327	340
2	School of Management	BBA	36	50	96	65
		B. Com(H)	NA	NA	NA	30
		MBA	38	44	41	44
		PhD	03	02	02	01
		Total	77	96	142	140
3.	School of Science	B. Sc. (H)	NA	27	25	40
		M. Sc.	NA	05	18	08
		PhD	NA	03	04	02
		Total	NA	35	47	50
Grand Total (SOE+SOM+SOS)			251	330	505	530

11.2 State wise Admission Analysis

S No	State	Programs									Total
		Dip.	B. Tech.	B. Tech. (LE)	M Tech	BBA	B.Com. (Hon.)	MBA	B.Sc.	M.Sc.	
1	CG	35	110	24	38	53	27	27	46	01	359
2	JH	02	19	13	04	04	01	02	-	01	46
3	Odisha	05	12	08	06	06	02	03	-	-	42
4	Bihar	03	03	01	-	02	-	02	-	-	11
5	MH	-	-	18	-	-	-	-	-	-	18
6	UP	-	-	01	02	-	-	05	-	-	08
7	Telangana	-	01	-	09	-	-	-	-	-	10
8	AP	-	02	03	-	-	-	-	-	-	05
9	WB	-	-	11	01	-	-	02	-	-	14
10	Gujrat	-	01	01	-	-	-	-	-	-	02
11	Rajasthan	-	01	-	-	-	-	-	-	-	01
12	MP	-	-	-	01	-	-	03	01	-	05
13	TN	-	01	-	-	-	-	-	-	-	01
Total		45	170	80	60	65	30	44	46	02	530

11.3 Overall Admission Scenario

S. No.	Particular	2017-18	2018-19	2019-20	2020-21
1	Number of students Graduated	318	396	396	376
2	Number of students admitted	236	330	505	530
3	Number of admissions from other States	46 (19.49%)	84 (25.45%)	146 (28.06%)	171 (32.26%)
4	Number of admissions from other Country	00	00	01	00
5	Number of States from where students admitted	06	10	15	14
6	Number of students admitted in hostels	76	116	180	-
7	Total Number of students in hostels	405	415	452	-
8.	Average Class 12 th percentage (UG)	66.72%	64.38%	69.32%	72.46%

12. Publication details 2019-20:

S.No.	Main Author (Internal)	Co-authors (Internal)	Title of Paper with Journal Details
1	Dr. Mahashakti Mahamaya	---	Coal mine overburden soft shale as a controlled low strength material, International Journal of Mining, Reclamation and Environment, 1-23, 2020
2	Dr. Sandeep Biswal	---	Study of the Impact of Switching Transient Over-voltages on Ferro- Resonance of CCVT in Series & Shunt Compensated Power Systems, IEEE Transactions on Industrial Informatics, 16(8), 5032-5041, 2019
3	Dr. Sandeep Biswal	---	Amplitude Based Directional Relaying Scheme For Transmission Line During Single Pole Tripping, Electric Power Systems Research, 184, 106290, 2020
4	Dr. Sandeep Biswal	---	Detection of current transformer saturation phenomenon for the secured operation of the smart power network, Electric Power Systems Research, 175, 105926, 2019
5	Dr. A.K. Srivastava	---	Investigation of electrochemical corrosion behavior of additive manufactured Ti-6Al-4V alloy for medical implants in different electrolytes, Journal of Alloys and Compounds, 514620, 2020
6	Dr. A.K. Srivastava	---	Strength - Ductility trade-off in dual-phase steel tailored via controlled phase transformation, Journal of Materials Engineering Performance, 2020
7	Prof. Neeraj Kumar Verma	---	Influence of B4C on dry sliding wear behavior of B4C/AlMgSi composites synthesized by a powder metallurgy route, Metals and Materials International, 1-12, 2020
8	Prof. Neeraj Kumar Verma	---	Influence of various heat treatment procedures and the corrosion behavior of Al-Zn-Mg-Cu alloys, Materials Research Express, 6 (12), 126554, 2020
9	Prof. Sibnath Kayal		Thermoresponsive magnetic Polymer Composite Nanoparticles for Biomedical Applications, Materials Today: Proceedings,

			2020
10	Dr. Diptimayee Swain	-	Performance enhancement of shunt active power filter with the application of an adaptive controller, IET Journal, 2020
11	Dr. Biplob Kumar	Dr. Deepayan Priyadarshi	Design and control of seven DOF redundant manipulator arm, Australian Journal of Mechanical Engineering, 1-12, 2019
12	Dr. Siddharth Chakrabarti	-	Estimation of Global Solar Radiation for the tropical wet climate region of India: A theory of Experimentation Approach, 146, 2044-2059, 2020
13	Prof. L.R. Bhandarkar	Dr. Siddharth Chakrabarti	Multi response optimization of process parameters during machining of aluminium by satisfaction function, International Journal of Recent Technology and Engineering (IJRTE), 8(3), 2019
14	Dr. Mahesh Bhiwapurkar	--	Rolling Contact fatigue behaviour of rail weldment under various load conditions in Indian Railways aspect, International Journal of Mechanical and Production Engineering Research and Development, 2020
15	Dr. Mahesh Bhiwapurkar		Mechanical Faults detection in steel plant with infrared thermography: Field Cases, (Book chapter) Springer 2020 (Book Chapter)
16	Prof. Anurag Vijayawargia	Dr. Mahesh Bhiwapurkar	Biomechanical evaluation of manual material handling task in the workplace: A Comprehensive Review, Springer 2020 (Book Chapter)
17	Dr. Mahesh Bhiwapurkar	-	Analysis of causes of rail derailment in India and corrective measures, Springer, 2020 (Book Chapter)
18	Dr. Siddharth Chakrabarti	Prof. Akash Pandey	A systematic approach for a better thermal management of photovoltaic systems: A Review, Journal of Computational and Applied Research in Mechanical Engg., 2020.
19	Dr. Chandan Ghanty	--	Luminescence characteristics of O ⁶⁺ ion beam and γ -ray irradiated Ca ₉ La (PO ₄) ₅ (SiO ₄)F ₂ : Eu phosphor, Radiation effects and defects in solids, 1-15, 2020

20	Dr. Chandan Ghanty	-	Tailoring the luminescent properties of $\text{Ca}_9\text{La}(\text{PO}_4)_5(\text{SiO}_4)\text{F}$ 2:1 mol% Eu^{3+} phosphor via doping of chloride, molybdate, vanadate, sulfate, and tungstate ions, Journal of Material Science: Materials in Electronics, 31(4), 3426-3440, 2020
21	Dr. Chandan Ghanty	-	Synthesis of novel Eu^{2+} activated $\text{K}_3\text{Ca}_2(\text{SO}_4)_3\text{F}$ down-conversion phosphor for near UV excited white light-emitting diode, Journal of Molecular structure, 1212, 127957, 2020
22	Dr. Girish C Mishra	-	Combustion synthesis and spectroscopic investigation of $\text{CaNa}_2(\text{SO}_4)_2\text{:Eu}^{3+}$ phosphor, Journal of Molecular structure, 128838, 2020
23	Dr. R.S. Singh	-	A review on recent advances in electrochromic devices-A material approach, Advanced Engineering Materials, 2020
24	Dr. Girish Mishra	-	"Thermoluminescence study of Eu^{3+} doped $\text{Na}_2\text{Sr}_2\text{Al}_2\text{PO}_4\text{Cl}_9$ phosphor via doping of singly, doubly and triply ionized ions", Ceramics International, 46(1), 132-155, 2020
25	Prof. Manas Ranjan Mishra	-	Stability analysis and multiple solutions of a hydromagnetic dissipative flow over a stretching /shrinking sheet, Bulgarian Chemical Communications 52 (2), 259-271, 2020
26	Dr. Girish Mishra	--	Thermo-luminescence study and Evaluation of trapping parameters $\text{CaTiO}_3\text{:RE}$ ($\text{RE}=\text{Eu}^{3+}$, Dy^{3+}) phosphor for TLD applications, Journal of Molecular structure, 2020
27	Dr. Adil Khan	--	An integrated model of brand experience and brand love for halal brands: a survey of halal fast food consumers in Malaysia, Journal of Islamic Marketing, 2020
28	Dr. Adil Khan	--	Consumer's E-Loyalty for E-Grocery Shopping in a Metro City of India: Role of Flow and TAM Antecedents, International Journal of E-Adoption, 2020
29	Dr. Adil Khan	--	Role of halal literacy and religiosity in buying intention of halal branded food products in India, Journal of Islamic Marketing, 2020
30	Dr. Adil Khan	--	An examination of consumers' adoption of the internet of things (IoT) in Indian banks, Operations, Information and Technology, 2020
31	Dr. Jayalaxmi Samal	--	Bharatiya Yog Sansthan: Reshaping Society through Yog, Emerald Emerging Markets Case Studies, 2020

12.1 “Patents” filled by faculty members of OP Jindal University.

- i. Dr. A.R. Kadam, **Dr. Girish C. Mishra**, Dr. Sanjay J. Dhoble, Application No. 201921035528, Patent No. 350918, “Process for Synthesis of Ce³⁺, Eu²⁺ Co-Doped BaSiF₆ Phosphor”. Granted, Issued on 04/09/2019.
- ii. Dr. Sanjay J. Dhoble, Dr. Anup P. Bhat, Dr. Swati V. Joshi, Dr. Birendra Singh, **Dr. Prashant Bokare**, Dr. Nirupama Dhoble, Application No. 201921008367, “Gamma Radiation Shielding Composite Materials”, Published, Application Awaiting Examination.
- iii. **Dr. Siddharth Chakrabarti, Dr. Satish Kanhed**, Application No. 201921036338 A, “Steam Generation Device for Steam Turbine”, Published, One Examination done.
- iv. **Dr. Siddharth Chakrabarti, Dr. Satish Kanhed**, Application No. 201921049004, “Device for Effective Generation and Utilization of Steam for Steam Turbine”, Published, Application Awaiting Examination.
- v. **Dr. Siddharth Chakrabarti, Dr. Trinath Talapaneni, Dr. Satish Kanhed**, Application No. 201921038156, “A Device for Utilization of Microwave for Agglomeration of Fines by Sintering Route in Steel Plants”. Patent Application Filed.
- vi. **Dr. Siddharth Chakrabarti**, Dr. Hemlata Nayak, **Dr. Satish Kanhed**, Application No. 201921049003, “Welding with the help of microwave application”, Published, Application Awaiting Examination.
- vii. **Dr. Siddharth Chakrabarti, Dr. Satish Kanhed**, Dr. Piyush Sharma, Application No. 201921049005, “Use of solar energy in sintering and hence welding of metal / ceramic powders”, Published, Application Awaiting Examination.
- viii. **Dr. Siddharth Chakrabarti, Dr. Trinath Talapaneni, Dr. Satish Kanhed**, Application No. 202021047105, “Microwave-Assisted Steel Producer and Converter”, Patent Application Filed.

13. International Conference, National Tech Fest and Other activities:

4th International Conference on Advances in Steel, Power and Construction Technology, November 21-22, 2019)

After the grand success of the Third International Conference on “ADVANCES IN STEEL, POWER AND CONSTRUCTION TECHNOLOGY” held at OP Jindal University during March 22-23, 2017, the OP Jindal University in association with Jindal Steel & Power Limited, Raigarh, India, Association for Iron and Steel Technology (AIST) USA, ASM International USA, Sinosteel China and Anhui University of Technology, (AHUT) China have organized for Fourth International Conference-cum-exhibition on Steel, Power and Construction Technology at OP Jindal University, Raigarh, Chhattisgarh, India during November 21-22, 2019.



This conference explored the new horizon of innovations from distinguished researchers, scientists, and eminent authors in academia and industry, the world over working for the advancements in Steel, Power, and Construction Technology. The conference created a path to establish a research relation for the authors and listeners for national and international collaboration and networking.

It was a conference-cum-exhibition on Steel, Power, and Construction Industries focusing upon valued enhancement from mining to steel production and delivery of the steel products to end customers. The level of per capita consumption of steel is treated as an important index of the level of socio-economic development and living standard of the people in any country. Therefore, no developing country can afford to ignore these sectors of the industries.

The conference witnessed the Third “Industry-Academia Conclave (IAC-2019) “Realizing Education towards Industry needs” at the university campus. The objective is to bring together experts from Industry and R & D Organizations to discuss some prime issues concerning the relationship between Industry and academia based societal requirement. The conclave encompassed keynote addresses the brainstorming sessions on needs and expectations of industry from academic institutions.

Objectives;

- i. To provide the platform for academicians, corporate, researchers, and students to contribute towards the vision of the conference with the blend of their experiences and expertise.
- ii. To create awareness about the latest products, technology, and services.
- iii. To foster the analytical skills in the core and non-core domains of the participants.
- iv. To propagate knowledge about new applications of steel amongst the user segments.
- v. To contribute the pool of resourceful knowledge and ideas to carve its niche.
- vi. To provide an opportunity to all participants for networking and collaboration in future projects.
- vii. To serve as a platform to discussing the future growth avenues for the industry and the requirements to reach the desired level.
- viii. Opportunity to release new product developments and understand the current market dynamics.
- ix. To debate over opportunities and challenges in the path of the Steel Industry in the country of the next decade.

3rd Industry-Academia Conclave (IAC 2019), November 21-22, 2019

OPJU has organized its 3rd Industry-Academia Conclave (IAC-2019) on “Realigning Education towards Industry Needs” at the University Campus during November 21-22, 2019 in association with Jindal Steel and Power Limited, Raigarh, India along with “4th Edition of International Conference on “Advances in Steel, Power and Construction Technology” (ICASPCT-2019)”. The event was held in association with ASM International USA, Association for Iron & Steel Technology (AIST) the USA, The Minerals, Metals & Materials Society (TMS) the USA, Anhui University of Technology (AHUT) China, Sinosteel China, and Jindal Steel and Power Limited (JSPL), India at OP Jindal University, Raigarh, India.

The IAC sessions were attended by Mr. Lokesh Ranjan Srivastava, CEO, TAL Aerospace Limited, Hyderabad, Mr. Birendra Agarwal, Executive Director, Bajaj Power Limited, New Delhi, Dr. Ankita Singh, Vice President, and Global HR Head, CIGNEX Datamatics, Mr. Sasianand, Fronius India Private Limited, Mr. Vijay Kumar, Head (External Affairs& CSD), Tata Hitachi Construction Machinery, Bangalore, Mr. Nadeem Kazim, Chief Human Resource Officer, TIL Tractors, Kolkata, Mr. P Bhawe, General Manager, AFCONS Infrastructure Pvt Ltd, Mumbai, Mr. Nimish Jain, Managing Director, Solaris,

Mumbai, Mr. Pradeep Patra, Sr. Vice President, Jindal South West, Dr. Amitanshu Paittnaik, Sr. Scientist, DTRL DRDO, New Delhi, Mr. Shikar Shenoy, Director, Steel Plant Specialities LLP, Mumbai, Dr. Allabaksh Naikodi, Head-R&D, Mahindra Electric Private Limited, Bangalore and others.



The IAC aims to bridge the gap between the industry and the academic community, provide a common platform for the exchange of ideas and bring a system to develop collaboration between the two. This two-day conclave will help the participants to discuss and understand today's industry needs and seek inputs from the industry for shaping the curriculum. This initiative will also provide opportunities to increase engagement through internships, projects, and industry visits in the long term.

NATIONAL LEVEL WORKSHOPS CONDUCTED IN A.Y. 2019-20

✚ Organized a National Level workshop 04-05 November 2019.

OP Jindal University Raigarh has organized a 2-day National workshop on "**Advances in Basic Science & Technology**" on 4th-5th November at the university campus. Which is aimed at imparting quality education with a gist of practical learning to students. To promote this noble vision this workshop is aimed to bridge the gap between industry & academicians and also to promote the ongoing advancements in Basic Science. This national-level workshop will be inaugurated by Dr. PK Bajpai, Dean (Phys.) Central University along with Dr. RK Pandey, Professor, Central University Bilaspur.



✚ Organized National Level workshops sponsored by National Commission for Women (NCW), 18 December 2019.

NCW sponsored workshop on "**Promoting positive mental health amongst the women**" of Raigarh (C.G.) organized at OPJU, Raigarh (C.G.) on 18th December 2019. OP Jindal University, Raigarh has successfully conducted the NCW sponsored workshop on "Promoting positive mental health amongst women of Raigarh (C.G.)" on 18th December 2019. With an overwhelming response of the women of the Raigarh district of Chhattisgarh, a total of 207 women has participated in the workshop. In this workshop, 8 resource persons have covered various aspects related to the mental health of the women. At the end of the workshop, participants have shared their experiences and given their feedback.



✚ **Organized National Level workshops sponsored by National Commission for Women (NCW) on 18th January 2020.**

A One-day 'Legal Awareness program on **"Outraging of modesty of women and Rape and Sexual assault"** sponsored by the National Commission for Women (NCW), New Delhi successfully organized at OP Jindal University, Raigarh on 18 January 2020. The program aims to provide practical knowledge about the basic legal rights and remedies provided under various laws related to women, enabling them to face challenges in real-life situations, making men aware of women's rights, and various justice delivery systems available for redressal of their problems/grievances.



Hon'ble Mr. Ramashankar Prasad, District Judge, Raigarh was the chief guest of the Program. Honorable District Judge advised the participants to develop the right mindset and asked the participants to develop the thinking that they will not commit the crime and will not let it happen.

Mrs. Nimisha Pandey, Deputy Superintendent of Police, while advising the participants to avoid crime and threats, said that they should exchange messages on social media carefully and safely and do not misuse the law. Through his work experience, she shared information about various types of crimes against women and explained ways to avoid them. Mrs. Sharda Agarwal, Additional Chief Electoral Officer, Chhattisgarh, suggested avoiding sexual harassment at the workplace through her presentation and her experiences on the topic 'outraging of modesty of women and sexual harassment at workplace - prevention and settlement'. She said that women often become victims of sexual harassment due to a lack of awareness, so be aware of sexual harassment right from the beginning and if any kind of incident is tried, then you should complain at the appropriate forum. She hoped that the women involved in the program will work wherever they can, without fear, and will not be victims of any kind of violence due to their awareness.

National Level Tech-Fest during February 20-23, 2020

The Four-days National Level Tech Fest “Technorollix 2020 was organized by OP Jindal University, Raigarh (CG), the amalgamation of fun and technology during February 20-22, 2020. The objective of the Tech Fest was to bring together the dynamic, innovative, and enterprising students of various Engineering and Management Institutions from all over India into a common platform to participate in different competitive events along with the students of OPJU to showcase their talent and exchange of ideas. Mr. D. K. Saraogi, Executive Director, JSPL, Raigarh was the Chief Guest of the function and the fest was inaugurated by him on the evening of 20th February 2020.

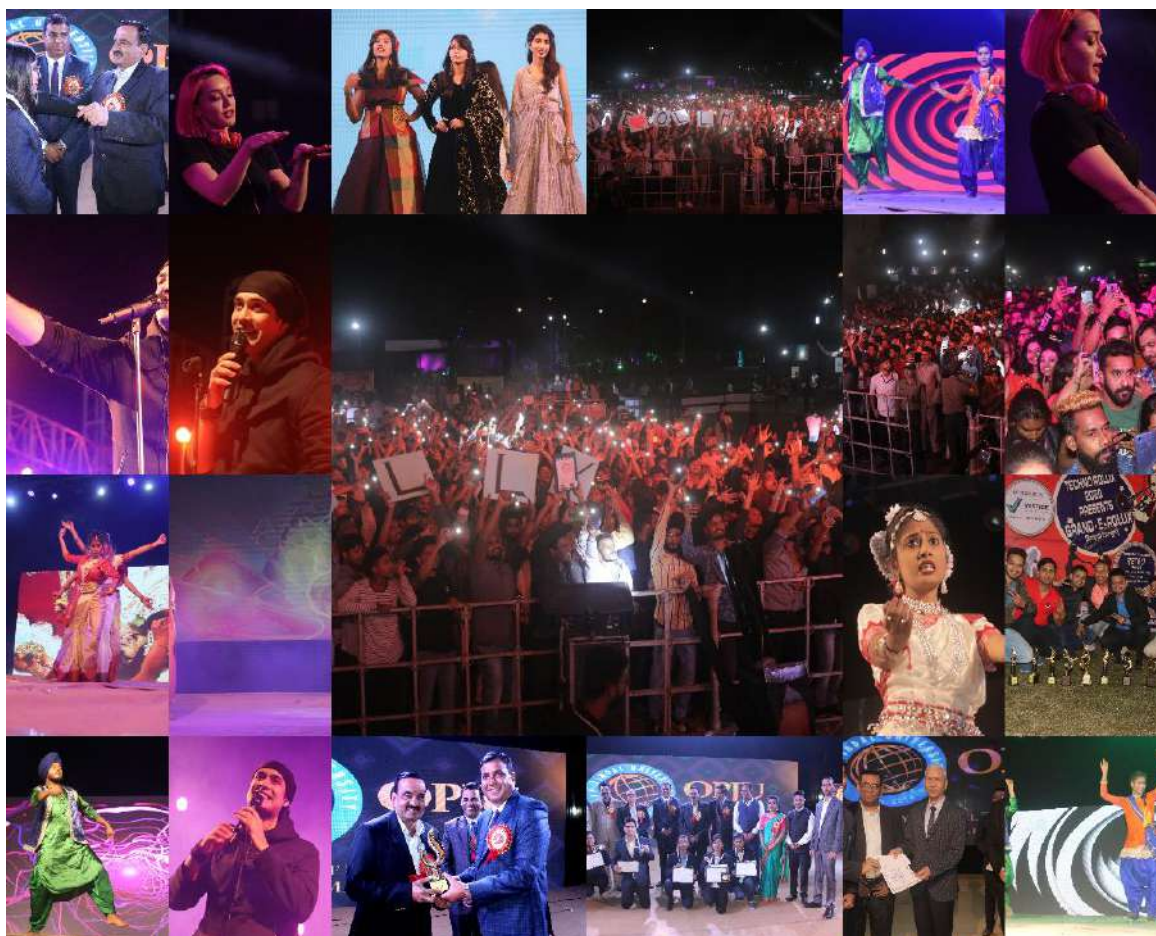


The Tech-Fest was comprising of more than twenty different competitive events ranging from Innovative Technical Models, Technical Papers, Quiz, Tech-talks, Yuva Sabha, who is the Boss, Fashion Show, LAN games, etc. Yuva – Sabha (The Mock Parliament) excited them with new thought-provoking ideas. In addition to our students, a large number of students from different parts of the country have also participated in this festival.

The main attraction was to witness the celebrity night program “JUnoon” which was featured the talented singer **Jubin Nautiyal** with his melodious voice.

A Glimpse of Cultural Night @ OPJU

OPJU congratulated all the participants, organizers and opined that these type of events will promote practical learning.



14. Workshop/Seminars/ Training Programmes conducted:

Workshops conducted by Computer Science and Engineering Department

- i. A one-week workshop on “Data Analytics and Machine Learning” was organized from 30th September 2019 to 4th October-2019. Around 60 students participated in this program.
- ii. A one-day Online webinar on Deep Learning was conducted on 29th May 2020 by Professor R N Shukla, Assistant Professor, Department of Computer Science and Engineering of OPJU, around 90 students participated in this program.
- iii. One-day Online Edge Computing was conducted on 8th June 2020 by Professor Umashankar Pandey, Assistant Professor, Department of Computer Science and Engineering of OPJU, around 85 students participated in this program.
- iv. One-day Online Seminar on IEEE Web Tech Series was conducted on 18th June 2020 by Dr. Gurveen Vaseer, Assistant Professor, Department of Computer Science and Engineering of OPJU, around 120 students participated in this program.
- v. 8 weeks of Training on “Machine Learning” was conducted from 1st June 2020 to 31st July 2020 by the Department of Computer Science of OP Jindal University Raigarh, Professor Manish Bhagwani, Dept. of CSE, was the Trainer. Around 30 students participated in this program.
- vi. Two weeks of online FDP on “Python for Data Analytics” was conducted from 20th July 2020 to 03 August 2020 by Dr. Gurveen Vaseer, Assistant Professor, Department of Computer Science and Engineering of OPJU, around 10 students participated in the FDP.

Workshops conducted by Electrical and Electronics Engineering Dept.

- i. O P Jindal University had organized the “Electric Bike Racing Championship 2020 (EBRC) Session – 5” during the period 13th to 16th January 2020 mentored by Dr. Srikant Prasad, HoD, EE, OPJU in collaboration with AMT MotoCorp. AMT MotoCorp has been organizing E-Bike Racing Challenge every year across different Universities of India to provide a platform for young engineering students to work together and move towards electric and pollution-free energy. In previous times (2019-20) the students from ten different Universities participated in EBRC at OPJU. The competition was an eco-friendly venture based upon the Engineering design and manufacturing of Electric bikes completely by the students. The main aim of the event was to generate the interest of the student in the field of eco-bikes and to bring a new revolution in the field of biking which can be commercialized as a usable product for the future generation. Besides the comprehensive knowledge of manufacturing and fabricating a single seated DC motor-driven vehicle to maneuver on all types of terrains the E-bike Racing Challenge had a chance for participants to win many awards.

There are a total of 15 no. of teams from across India have been participated in this event in OPJU, Raigarh campus for four days.

Modified Auto Club, AP Shah Institute of Technology, Thane, Mumbai, MH won this event for their best performance among all the categories.

- ii. Two days' webinar on "Fundamentals of solar energy" on May 16th -17th 2020. The session was addressed by Mr. Rajan Bharne, Director, Solarise India Pvt Ltd. & Mrs. Priyanka Dhamecha. The main objectives of the session were to create awareness about the solar energy uses, solar module design, specifications, its connection with the grid, and its importance nowadays.
- iii. An Online webinar on "Career opportunities in SAP" on 30th may 2020 was organized by the Department of Electrical and Electronics Engineering and the session taken by Mr. Bishesh Jyoti Nayak, Program Manager, Sales Operation SAP SE(Germany). Prof. Pushpanjali S Hota, Assistant Professor, OPJU was the coordinator of the program. Around 70 students participated in this program.

Workshops conducted by Mechanical Engineering Department

- i. Two days' guest lecture organized on Artificial Intelligence and Internship/Training at DTRL, DRDO, New Delhi during April 15-16, 2019. The lecture was addressed by Dr. Amitanshu Pattnaik, Sr Scientist, DTRL. The total participants were around 85 in this program.
- ii. An Online webinar on "COVID-19 could be an accelerant to the adaption of digitization in Manufacturing" was conducted on 12 May 2020 by OPJU. The eminent personality from industries Mr. Aditya Srivastava, VP Volvo Eicher Commercial Vehicle Ltd, Mr. Nishant Jairath, Director Metalman Auto Pvt. Ltd Mr. AkilurRehman, Chief Technology Officer, ABB India, Mr. Sunil Sagane, Head E/I Thyssenkrupp Industries Ind. Pvt. Ltd Mr. Thirumakillango, Former Senior Technical Director, AT and T Bell Labs, USA Mr. Yuvraj Sharda, Head Strategy, Sun Mobility have shared their Ideas on this program. Around 150 students and staff members have attended the program.
- iii. An online guest lecture on "Impact of Post Covid-19 on Industry 4.0" was conducted by Mr. Sabyasachi Biswas, ED, IBM Kolkata on 16 May 2020. The total no. of participants was around 75 in this program.
- iv. An online guest lecture on "3D Printing- A revolution in manufacturing Technology" addressed by Dr. Surya Kumar S, Dept. of Mechanical and aerospace engineering, IIT-Hyderabad on 6 June 2020 association with OPJU. There were around 84 participants in the program.
- v. An online guest lecture on "Vision 2030 challenges and opportunities in realizing transition to full Evs" was conducted by OPJU. Dr. Arun Sampath Chief engineer and Head, Innovation and Global Technology Centre, Mahindra Electric Ltd, Bangalore & association were presented on the webinar. Around 125 students and staff members participated in this program.

- vi. An online webinar on “Electric Vehicle” was conducted with the association of IEEE, CIAC & OPJU on 20 June 2020. Mr. Atul Arya, Head Energy System Division, Panasonic India, Gurgaon, and Mr. Bhavesh Kumar, Director- SIMULIA, Dassault Systems, Chennai were presented at the workshop. Around 76 students have participated in the program.
- vii. An online workshop on “5G Technologies” was conducted with the association of IEEE, CIAC & OPJU on 27 June 2020. Dr. Ashutosh Dutta, Scientist and Professor Johns Hopkins University, United States, and Mr. Mrityunjay Singh Sr. Vice President Infosys Pune India was presented in the workshop. Around 76 students have participated in the program.
- viii. An online webinar was conducted on “Basic industrial Pneumatics” by the CCET team of the University on 12 May 2020. Dr. Mahesh Bhiwapurkar, Professor-Department of Mechanical Engineering addressed the webinar. Around 115 students participated in the webinar.
- ix. An online webinar was conducted on “Basic Industrial Hydraulics” by the CCET team of the University on 23 May 2020. Dr. Siddharth Chakrabarti, HOD & Professor addressed the webinar. Around 85 students participated in the webinar.
- x. An online quiz based on “Power Generation Technology” was organized from 15th to 23rd July 2020 by OPJU with the association of CRED A, SESI & JPL Tamnar. There were around 3500 students who participated in the quiz.
- xi. A Faculty Development Program on “Hydroelectric Power Plant” was conducted on 25th July 2020 by Prof. Mukesh S Desai, Sr. Assistant Professor, Dept. of Mechanical Engineering of OPJU. There were around 80 participants who joined the program.
- xii. A Faculty Development Program on “Advances in Solar Photovoltaic” was conducted on 25th July 2020 by Mr. Yogesh Kumar Singh, Sr. Research Scientist, National Institute of Solar Energy. There were around 65 participants who joined the program.
- xiii. A six days’ workshop was conducted on "Solar Electric Solar Vehicle" from 11 to 16 September 2020 with the association of AMT Motocorp & SESI & CIAC and OPJU. The total no. of participants was around 110 in this program.

Workshops/Seminars conducted by Civil Engineering Department

- i. A Guest lecture on “Technical Know-How on Civil Engineering Construction site” was conducted on 14 September 2019 by Mr. Gagan Wasan, Deputy Manager at State Urban Development Authority, Chhattisgarh with the association on OPJU. A total of 45 students participated in the program.
- ii. A Guest lecture on “ERP-SAP modules” was conducted on 10th October 2019 by Mr. Aditya Vikram, Software manager, SSD Punjipathra, Raigarh with the association of OPJU. A total of 30 students participated in the program.
- iii. A Guest lecture on “Challenges in design and construction of world’s tallest bridge” was conducted on 14th Feb 2020 by Mr. Ankala Saibab, Chief Engineer, Indian Railway with the association of OPJU. A total of 40 students participated in the program.
- iv. An online webinar on “Post Covid-19 scenario in Civil Engineering” was conducted on 05 May 2020. Mr. Puranchandra bhav General Manager, Afcons Infrastructure Ltd. Mumbai, Mr. Vinod Patrikar, Executive Director, Crescent Engineers, Mumbai, Mr. Amrendra Jaltare, Vice President, Artifact Projects Ltd. Mr. Sunil Dhangar, Managing Director, M/S Tensa India Engineering Pvt. Ltd., Mumbai were present in the webinar. A total of 52 students and staff members have participated in the webinar.
- v. An online webinar on “Earthquake Safety of Building in India” was conducted on 9 May 2020 addressed by Dr. Pradeep Kumar, Professor and Registrar Dept. of Civil Engineering, IIIT, Hyderabad. A total of 55 students have participated in the webinar.
- vi. A Guest lecture on Bridge construction: challenges and opportunities” was conducted on 12th May 2020 by Mr. Avinash Sangamnerkar, Chapekar, and Company, Nagpur. A total of 44 students attended the program.
- vii. An online webinar on “Foundation on Expansive Soils: Problems and Possible Remedials” was conducted on dated 14 May 2020 addressed by Dr. Laxmikant Yadu, Associate Professor, Dept. of Civil Engineering, NIT, Raipur. A total of 50 students have participated in the webinar.
- viii. An online webinar conducted on “END OF COVID 19: Data Mining Approach” was conducted on 14 May 2020 addressed Dr. P. S. Bokare, Professor and Dean, Dept. of Civil Engineering, OPJU. A total of 50 students have participated in the webinar.
- ix. An online webinar conducted on “Road safety in India” on 15 May 2020 was addressed by Dr. Vishrut Landge, NIT Nagpur. A total of 53 students have participated in the webinar.
- x. An online webinar conducted on “Mix Design and Self-Healing of Concrete” on 30 May 2020 addressed by Dr. Meena Murmu, NIT, Raipur. A total of 45 students have participated in the webinar.
- xi. A workshop on “STAADPro V8i” from 1st June to 30th June 2020 was conducted by the Department of Civil Engineering. Mr. Gopal Gouda, Lab assistant was the trainer of the workshop.

Workshops/Seminars conducted by Metallurgical Engineering Department

- i. A workshop on Fatigue and its Crack Prediction was conducted on 22 November 2019 by Dr. Pawan Kumar Research Professor University of Johannesburg South Africa with the association of OPJU. A total of 37 students participated in the program.
- ii. An online webinar on “Industrial Aspects of Heat Treatment of Steels – I” was conducted on May 01, 2020, by Mr. Srivatsa Kulkarni, Project Honeywell Aerospace Pvt. Ltd., Bangalore, Mr. Sharad Srivastava, NSPL Dr. M Kalyan Phani Prof Izhar Hussain. A total of 90 students attended the program.
- iii. An online webinar on “Industrial Aspects of Heat Treatment of Steels–II” was conducted on May 02, 2020, by Mr. Srivatsa Kulkarni, Project Honeywell Aerospace Pvt. Ltd., Bangalore, Mr. P Mallikarjun Rao, NSPL, Dr. Vatsala Chaturvedi, Dr. Ashok Srivastava. A total of 80 students attended the program.
- iv. An online webinar on “Metallurgy of Rail Steels” was conducted on 10 May 2020 by Dr. M Kalyan Phani & the CCET team of OPJU. A total of 90 students have participated in the program.
- v. An online webinar on “Alternative Routes of Iron Making with Lower Carbon Footprints” was conducted on 16 May 2020 by Dr. Suniti Purohit Research Associate Swinburne University, Australia with the association of OPJU. A total of 60 students participated in the program.
- vi. An online webinar on “Physical Metallurgy: what I See within a Steel part as a Metallurgist?” was conducted on 23rd May 2020 by Dr. Carlos Eduardo Pinedo, Technical Director Heat Tech Ltd., Brazil with the association of OPJU. A total of 102 students participated in the program.
- vii. An online webinar on “Application of Physical Metallurgy to Forging and Steel Industry” dated 24 May 2020 by Mr. Srivatsa Kulkarni Honeywell Aerospace Pvt. Ltd. Bangalore with the association of OPJU. A total of 80 students participated in the webinar.
- viii. An online webinar on “New developments in Oxygen Steelmaking” was conducted on 4 June 2020 by Dr. Geoffrey Brooks, Director Swinburne University, Australia with the association of OPJU. A total of 100 students participated in the program.
- ix. Online webinars were conducted on “Prospects and Opportunities of Metallurgy” dated 14, 21, and 28 June 2020 by Govt, Polytechnic HODs of Andhra, Telangana, Karnataka, Chhattisgarh, Jharkhand, Maharastra, Orissa, and Wes Bengal with the association of OPJU. More than 300 students and staff members participated in the program.

Workshops/Seminars conducted by School of Science Department-

- i. A National workshop/Seminar was conducted on Advances in Basic Science and Technology (Nov. 4-5 2019)
- ii. Dr. Rajiv Shankar Kher, Professor, Atal Bihari Bajpai University, Bilaspur, delivered a Lecture on Science, Technology, and Scientific Attitude (12th Feb 2020)
- iii. An online webinar was conducted on 24th May 2020 “The Prospectus on Quantum Computing Wherein Resource Person – Mr. Shirish Panda, Scientist D, Govt of India, New Delhi.
- iv. An online webinar on “How to make online teaching more effective- a guideline” organized on 28th May 2020 by Dr. Girish C Mishra Professor, Physics & Mr. Nitin Upadhyaya, Asst Professor, CSE
- v. Dr. Dhanesh Singh, Professor & Head Department of Chemistry, KG Science College delivered a guest lecture to M.Sc. Chemistry students in Spectroscopy (Jan to June 2020).

Workshops/Seminars conducted by School of Management Department-

- i. A program on “Corporate Connect-I” was conducted on 22 July 2019. Key Speaker Dr. Ratikanta Dash, Head (HR) was delivered the lecture on the theme. The program was held with the association of L & T Kansabahal, Rourkela.
- ii. A program on “Corporate Connect-II” was conducted on 02 August 2019. Key Speaker Dr. R K Singh, VP (HR) was delivered the lecture on the theme. The program was held with the association of TRL Krosaki Refectories Ltd.
- iii. A workshop on Systat Software Training Program was conducted on 2 December 2019 with the association of OPJU. The training was delivered by Mr. Chehtan from Systems software. A total of 60 students and staff members participated in the workshop.
- iv. A guest lecture on the “Benefits of Yes+ program” was conducted on 15th Jan 2020 delivered by Ms. Davinderjit Kaur, Arts of Living Foundation with the association of OPJU. A total of 50 staff members attended the program.
- v. A guest lecture on “Rights Vs Duties” was organized on 17 Jan 2020 with the association of OPJU & delivered by Dr. Sumeet Gupta, Professor IIM, Raipur.
- vi. A “Happiness program” based on the art of living is organized from 22 January to 26 January at the OPJU campus. The program was delivered by Mr. Harjeet Singh, Trainer, Art of Living program.
- vii. A guest lecture on “First impression and Etiquette: Self-grooming and personal hygiene” was conducted on 24th January 2020 by NH Goel Finishing School and associated with OPJU.
- viii. A guest lecture on the “Yes+ program” was conducted from 4th February to 8th February-2020 delivered by Mr. Harjeet Singh, Trainer, Arts of Living Foundation with the association of OPJU. A total of 45 staff members attended the program.
- ix. An awareness program on “Intellectual Property Rights (IPR)” was conducted on 26th February 2020. Which was delivered by Dr. Jaya Prakash Rath, Assistant Professor, Department of Management and association with MSME.

✚ **The Art of Living's 'Happiness Programme' was conducted for staff members and the students of the University.**

The Art of Living's 'Happiness Programme' was conducted for the faculty members of OPJU during January 21-25, 2020. More than 25 faculties of various streams were being leveraged on this program. Also for the overall development of students 'Youth Empowerment and Skills (YES +!)' workshop was conducted for the students of OPJU during 20-23 January 2020. Around 50 participants were being leveraged on this program. These programs were taught by very senior and experienced international Art of Living teachers Mr. Avinash Tikku, Mr. Harjeet Singh, and Mrs. Shailja Chandrakar.



15. MOU Signed during 2019-20:

i) Tata Power Skill Development Institute (TPSDI)

OP Jindal University has established an MOU with Tata Power Skill Development Institute (TPSDI) to offer courses of training at TPSDI for bringing about Power Plant Familiarization for students undergoing the curriculums and/or desirous of taking the industry certification courses/facilities. TSPDI has a unique training approach designed for delivering skills with speed, scale, and standards. This understanding describes the joint and individual obligations that TPSDI and OPJU agree to fulfill, to realize the potential of their synergy.

ii) Fortis OP Jindal Hospital & Research Centre Raigarh

The MOU was made between OP Jindal University, Raigarh, and Fortis OP Jindal Hospital & Research Centre Raigarh to providing medical facilities to the employees their families, and students of OP Jindal University.

16. Scholarships:

16.1 OPJEMS Scholarship

The OPJEMS Scholarship is aimed at promoting academic and leadership excellence and is awarded to meritorious students who emulate the vision and values of Shri O. P. Jindal and have the potential to become leaders in entrepreneurial excellence and innovation.

OP Jindal Engineering and Management Scholarships (OPJEMS) are awarded based on merit. The first three toppers of the 2nd, 3rd, and 4th year based on the academic performance of the previous year about Civil, EEE, Mechanical and Metallurgical Engineering students are eligible to appear the test. Students from all over India (24 Engineering and 17 Management) participated in the program. The following 06 students of OP Jindal University have been awarded the OPJEMS Scholarship during the year 2019-20.



List of students awarded OPJEMS in A.Y. 2019-20

S. No.	Name of the students with Branch & Semester	Scholarship amount
1.	Vedika Poddar-MBA-4 th Semester	Rs. 1,50,000.00
2.	Submit Kumar Mondal, EEE-4 th Sem.	Rs. 85,000.00 awarded to each
3.	Suraj Dhankar, EEE-8 th Semester	
4.	Riddhi Rawal, EEE-8 th Semester	
5.	Saba, Civil-8 th Semester	
6.	Narendra Mahawar, Mechanical-8 th Semester	

16.2 Entry Level Scholarships awarded in the A.Y. 2019-20

Receiving of meritorious scholarship always becomes a proud and pleasure moment and it gives great financial support to anyone, but the most important is that one should get the right place to recognize his/her talent. OPJU provides excellent opportunities for its meritorious and needy students to acknowledge their talent and help them to realize their dreams. In the year 2019-20, University distributed scholarships worth Rs. 59.66 Lacs to 262 deserving students.



S. No.	Course	Total No. of students benefited	Scholarship Amount Rs. (in Lacs)
1	B. Tech	173	43.69
2	BBA	48	8.90
3	MBA	20	6.0
4	B.Sc.	18	1.33
5	M. Sc	03	0.08
6	Total	262	60.00

17. National Academic depository (NAD):

OP Jindal University (OPJU), Raigarh has already done the registration formalities in NAD through its authorized depository, CDSL Ventures Limited (CVL) on dated September 21, 2017, and University has started uploading the data.

The details of the Award uploaded is given below:-

S. No.	Course Name	Event Year	Event Name	Unapproved Awards	Approved Awards	Total
1	B.TECH. IN CIVIL ENGINEERING	JUN-2019	4_Sem8_Degree	0	52	52
2	B.TECH. IN COMPUTER SCIENCE & ENGINEERING	JUN-2019	4_Sem8_Degree	0	54	54
3	B.TECH. IN ELECTRICAL & ELECTRONICS ENGINEERING	JUN-2019	4_Sem8_Degree	0	50	50
4	B.TECH. IN MECHANICAL ENGINEERING	JUN-2019	4_Sem8_Degree	0	50	50
5	B.TECH. IN METALLURGY	JUN-2019	4_Sem8_Degree	0	38	38
6	BACHELOR OF BUSINESS ADMINISTRATION	JUN-2019	3_Sem6_Degree	0	45	45
7	M TECH IN POWER ELECTRONICS AND POWER SYSTEM	JUN-2019	2_Sem4_Degree	0	3	3
8	M TECH IN POWER ELECTRONICS AND POWER SYSTEM	MAY-2018	2_Sem4_Degree	0	4	4
9	M.TECH. IN MS&T	JUN-2019	2_Sem4_Degree	0	5	5
10	M.TECH. IN MS&T	MAY-2017	2_Sem4_Degree	0	9	9
11	M.TECH. IN MS&T	MAY-2018	2_Sem4_Degree	0	3	3
12	M.TECH. IN PPE&EM	JUN-2019	2_Sem4_Degree	0	8	8
13	M.TECH. IN PPE&EM	MAY-2017	2_Sem4_Degree	0	8	8
14	M.TECH. IN PPE&EM	MAY-2018	2_Sem4_Degree	0	8	8
15	MASTER OF BUSINESS ADMINISTRATION	MAY-2018	2_Sem4_Degree	0	0	0
16	MASTER OF BUSINESS ADMINISTRATION	JUN-2019	2_Sem4_Degree	0	38	38
17	MASTER OF BUSINESS ADMINISTRATION	MAY-2018	2_Sem4_Degree	0	20	20
18	MTECH IN COMPUTER SCIENCE AND ENGINEERING	JUN-2019	2_Sem4_Degree	0	6	6
19	MTECH IN COMPUTER SCIENCE AND ENGINEERING	MAY-2018	2_Sem4_Degree	0	4	4
Total :				0	405	405

18. Membership and Approval:

- i. OP Jindal University has extended AICTE approval for its B. Tech, M. Tech, and MBA courses for the Academic Year 2020-21.
- ii. OP Jindal University is a regular member of the Association of Indian Universities (AIU), New Delhi.

19. National Level Awards:

In the year University has awarded the following four prestigious National level awards:

- i. OP Jindal University achieved the award of **“Emerging University of India”** at 14th World Education Summit held on 9-10 August- 2019, New Delhi.



- ii. OP Jindal University achieved the award of **“India’s Most Trusted Technical University”** at India’s most Trusted Brands, Companies & Education Award-IBC-2019 New Delhi.



- iii. OP Jindal University has been awarded **“Emerging University of Steel Technology and Management of India”** on the **“Auropath Global Awards-2019”** ceremony on 2nd November-2019 at Raipur.



- iv. OP Jindal University has secured **6th rank amongst cleanest Higher Education Institutions in India under Residential Category** by MHRD on 3rd December-2019 at AICTE, New Delhi.



20. **Organized Alumni Meet:**

- i) OP Jindal University, Raigarh has organized its 1st Alumni meet in Bangalore On October 12, 2019.



- ii) OP Jindal University, Raigarh has organized its 2nd Alumni meet at the premises of the University in December-2019.



21. Sports activities in the year 2019-20:

S. No.	Event	Participants
1	Sports Orientation program for 1 st Year	340
2	Open Competition for fresher's (Fatafat Tournament)	45
3	5-A Side Football	50
4	Tug of war (girls & boys)	150
5	Badminton (Girls & boys)	20
6	4-A Side Basketball	32
7.	Inter Branch Football Tournament	109
8.	Five-A-Side Football tournament	20
9.	Five -A Side Night Volleyball Tournament	30
10	AIU Sports Tournament	38
11	Inter-University Badminton Tournament (Boys & Girls)	10
12	Inter-University Cricket Tournament	16
13	Inter-University Basketball Tournament	12
14	Open Badminton Tournament (Boys, Girls, Staff & Faculty)	98
15	Open Table Tennis Tournament (Boys, Girls, Staff & Faculty)	26
16	Inter Branch Kabaddi Tournament (Boys)	72
17	Inter Branch Kabaddi Tournament(Girls)	20
18.	Inter Branch Cricket Tournament (Boys, Staff & Faculty) (JPL)	135
19.	Chess Tournament (Boys, Girls, Staff & Faculty)	56
20	Open Body Building Competition (Boys, Staff & Faculty)	08
21.	Inter Branch Volleyball Tournament	82
22.	Inter Branch Basketball Tournament	72
23.	Open Bench Press Competition	36
24.	Trekking for 1 st Year Students (Batch wise)	340



22. COVID-19 Crisis and Education: A Student Cantered Online Approach @ OPJU, Raigarh:

Introduction

COVID-19 pandemic has affected every sector of life across the globe, be it the economy, businesses, manufacturing, or education. The rapidly evolving situation around the pandemic poses a whole lot of challenges to the functioning of higher education institutes in the country and the whole world. Probably universities and regulatory bodies never thought of such a situation and we did not have a contingency plan in place. Universities, under such unprecedented situations, didn't have many options and were forced to go online. This sudden paradigm shift is set to disrupt the university functioning and creating lots of issues, challenges, and conflicts, but at the same time, it offers an opportunity to evolve ourselves and transform the Higher Education Sector across the globe.

To deal with the unprecedented situation OP Jindal University(OPJU) immediately started online teaching, learning, assessment and went digital to take care of all day to day operations. Further, OPJU also conducted the examination and evaluation in an online manner and all other administrative activities have been put online during COVID-19. This article illustrates the evolution and adaption of the new online functioning model for the effective engagement of all the stakeholders of OPJU for teaching-learning, examination, research activities, placements and internships, and overall holistic development during COVID-19 and lockdowns.

Gainful Engagement of Students

At the beginning of the COVID-19 outbreak it was challenging to complete the course with meaningful engagement and at the same time take care of students' emotional and mental status. At OPJU we quickly evolved a model and framed SOPs to minimize the academic loss and actively engage the students in online classes, laboratories, evaluations, and different related activities, as below:

a) Online teaching-learning

OPJU was quick to adapt to the situation and shifted to the online mode of teaching-learning. Faculties started using Zoom, Google Hangouts/meet, Skype, Google classrooms, Moodle Learning Management System (LMS), Virtual Labs, Google forms, YouTube, etc to deliver classes, submitting assignments, and conducting laboratories. Usually, any change is resistive, and changing the mindset is difficult, especially of the faculties. We conducted many online faculty development programs to gear up to adapt to changing pedagogies and helped quickly re-orienting faculties to the online mode. As we were already using Virtual Programming Lab (VPL) over the model with jail server for programming laboratories, so it didn't cause any problems to us except writing a lot of test cases. For many other labs, we are using virtual labs available online and recommended by AICTE.

b) Continuous online evaluation

Research findings suggest that students learn better by attempting more and more quizzes and so at OPJU we started paying more attention to quizzes, case studies, and short assignments for continuous evaluation. The Moodle proved to be a very useful tool at OPJU in uploading course material, assignments, case studies, and quizzes. The students submit the assignments on Moodle that are evaluated by faculties and feedback is shared immediately. Daily short quizzes on all subjects of 10-15 questions with 25-30 minutes, with gamification, were found to be very effective.

c) Webinars, Faculty Development Programs, and Virtual Sessions:

To make students and faculties emotionally stable and to expose them to contemporary and future needs of the industry and market, we organized many webinars and sessions. During COVID-19, till now, OPJU has hosted 150+ webinars and FDPs on different topics. Some of the FDPs are:

- i. FDP on “Recent Advances in Process Metallurgy” in association with ASM International USA, and Indian Institute of Metals(IIM), inaugurated by Chairman JSPL Mr. Naveen Jindalji.
- ii. A weekly Tech-Web series with IEEE Bombay section having speakers from universities abroad and industry experts.
- iii. FDP on “Mechatronics, Automation, and Robotics” with 1000+ registrations and speakers from IITs, NITs, Industries, and abroad.
- iv. An Online International Conference on “Role of Innovation, Entrepreneurship, and Management for Sustainable Development” is scheduled for Sept 2020
- v. A Virtual HR Summit is scheduled on the theme “Challenges, Opportunities and Market Scenario” during 26-30 November 2020

d) Examination and Evaluation:

OPJU is having a good IT infrastructure, competent manpower and has created a robust and secured platform and mechanisms to handle all the issues and problems of bandwidth, poor connectivity, and diverse gadgets, etc. It conducted the examinations for all the semesters in an online manner and the results too have been declared. The practical examination, projects/dissertations, and viva-voce were also conducted in an online manner. Probably OPJU is the first university in India to do this.

Functioning of Career Development Centre(CDC)

Our approx. 80% of students had already been placed before lockdown but students and parents were anxious by the new emerging pandemic situation. We are in continuous touch with our recruiters and had talks with them one on one and almost all of them are willing to honor the offers made. We also started contacting companies and extended them all the help and support for conducting virtual campus drives, from arranging online tests over OPJU MOODLE to Group Discussions (GDs) and Personal Interviews (PIs) in a virtual online fashion. Indeed, some of our best placements took place during the COVID-19

period. Mr. Sujeet Soni got placed with Amazon @32 LPA, a Couple of students got placed on Byju's @10LPA and few students got placed in GMR energy and AxleSys during COVID-19. Overall more than 85% of eligible students have been placed from OPJU at an average package of 6.2 LPA. Probably OPJU's placement record is best in central India. We @OPJU are leveraging online tools for conducting mock interviews, preparing digital portfolios, reviewing resumes, and grooming them. Our faculty members and counselors are interacting with each student and helping him revising career goals and preparation.

Internships:

Getting into a good internship has always been a challenge for students and the COVID -19 scenario makes it even difficult but the Choice Based Internship model of OP Jindal University addresses this issue to a larger extent by including R&D projects, entrepreneurship activities, project-based online courses, and social engineering initiatives as part of internships.

During COVID-19 all our students of B. Tech. 4th and 6th Semesters, BBA 4th semester, and MBA 3rd semester are undergoing internships. 20 students are undergoing physical internships, 72 are for Virtual Internships, 192 have opted for On-line Courses, 28 are involved in R&D, 72 are doing Entrepreneurships and 16 are undergoing university offered Internship course with projects.

Research and Development:

Our teachers have significantly enhanced their interest in research and their capabilities to publish papers and bid for funded R&D projects during the COVID-19 period. During March and April 2020, our faculty communicated 60+ research papers, published 12+ articles in various magazines and newspapers, submitted 8 funded R & D Project proposals, filed two patents, completed five book chapters and a few faculty members are writing books. We also created communities of common interest and found that there is an upsurge in the creativity of our faculty and students.

During this crisis, OPJU has been selected by NITT Aayog to establish Atal Community Innovation Centre (ACIC) under its flagship program Atal Innovation Mission (AIM). This will help to create an eco-system @OPJU to promote entrepreneurship and start-ups.

The Way Forward:

History proves that such devastating circumstances always give birth to innovations and breakthrough improvements in the system. The COVID-19 pandemic forced higher education institutions across the globe to leverage the technologies and effectively use them to disseminate the knowledge. The situation hard-pressed the much-desired push to the universities to go digital in a full-fledged manner. It helped OPJU to explore and experience new possibilities to do things differently and with greater flexibility.

We at OPJU strongly believe that during COVID -19 technology has stepped into the breach and now it will continue to play a key role in all operations of the university functioning. We believe that a 6" screen can never be a replacement for a 6 feet teacher and 6 feet

blackboard in the classroom. However, we would like to and continue harnessing the power of technology-driven solutions in teaching-learning-evaluation, admission, administration, research, etc. We are in the process of designing a new prototype and post-COVID OPJU will adopt this new blended model, which will be an amalgamation of the best of both - online models and traditional practices. The higher education @ OPJU Post-Covid will be - Different, Better, Superior.

 List of webinars conducted by OPJU during Covid-19 in the A.Y. 2019-20.

S. No.	Title of webinar	Panellist of Webinar	Date	Total No. of Registrations/ participants
1	Webinar on Engineering as a career option with OP Jindal University	Dr. RD Patidar Dr. Ashok Bhansali Dr. Prashant S. Bokare Mr. Dhananjay Dewangan	01-May-20	67
2	Webinar on "Management as a career option" with OP Jindal University	Dr. RD Patidar Dr. Ashok Bhansali Dr. Shesadev Nayak Mr. Dhananjay Dewangan	03-May-20	47
3	Webinar on "Science as a career option" with OP Jindal University	Dr. RD Patidar Dr. Ashok Bhansali Dr. Girish C Mishra Mr. Dhananjay Dewangan	05-May-20	56
4	Webinar on Creating a Culture of Happiness in the Workplace with OP Jindal University	Dr. Shesadev Nayak	06-May-20	149
5	Webinar on Emotional Intelligence @ Workplace with OP Jindal University	Dr. Sanjay Kumar Singh	08-May-20	179
6	Career Guidance Webinar with Top Academic Leaders and Principals Especially for Class XII Students of Jamshedpur	Mrs. Ashu Tiwary Mrs. Moushumi Das Dr. Sweta Shama Mr. Sanjay Jogai Mrs. Sharmila Mukherjee Mrs. Meena Bugli Dr. R D Patidar Dr. Ashok K Srivastava Mr. Dhananjay Dewangan	10-May-20	428
7	Webinar on Metallurgy of Rail Steel with OPJU	Dr. Makkuva Kalyan Phani	10-May-20	154
8	Webinar on "COVID-19 could be an accelerant to the adaption of digitization in Manufacturing"	Mr. Yuraj Sarda Mr. Nishant Jairath Mr. T Ilango Mr. Yuvraj Sarda Mr. Akilur Rehman Mr. Sunil Sagane Dr. Siddharth Chakrabarti	12-May-20	196

9	Webinar on Basic Industrial Pneumatics with OP Jindal University	Dr. Mahesh Bhiwapurkar	12-May-20	92
10	Webinar on "Fundamentals of solar energy" with Department of Electrical & Electronics, OP Jindal University-I	Dr. Srikant Prasad Miss Priyanka Dhamecha Mr. Ranjan Bharne	16-May-20	88
11	Webinar on " Impact of Post Covid-19 on Industry 4.0"	Mr. Sabyasachi Biswas Dr. Siddharth Chakrabarti	16-May-20	109
12	"YOGA THERAPY: A PANACEA FOR EMPLOYEES MENTAL HEALTH ISSUES"	Dr. Jayalaxmi Samal	16-May-20	203
13	Webinar on "Fundamentals of solar energy" with Department of Electrical & Electronics, OP Jindal University - II	Dr. Srikant Prasad Miss Priyanka Dhamecha Mr. Ranjan Bharne	17-May-20	39
14	Webinar on Adopting the Changing Organizational Culture	Dr. Jaya Prakash Rath	18-May-20	140
15	The future of Education post-Covid-19 followed by a Career Guidance Webinar with OP Jindal University	Mr. Rakesh Sharma Mr. Satish Kumar Pandey Dr. Girish Chandra Mishra Dr. R D Patidar Mr. Tuna Biswal Mr. R.K. Trivedi Mr. Harilal Pradhan Mr. Dhananjay Dewangan Mr. Ram Chandra Sharma	18-May-20	393
16	Webinar on "Post Covid-19 Urban Traffic & Transportation Scenario in India" with OP Jindal University	Mr. Ashish Kumar Panda Dr. Akhilesh Kumar Maurya Dr. Ashish Verma Dr. Girish C Mishra	19-May-20	109
17	The future of Education post-Covid-19 followed by a Career Guidance Webinar with OP Jindal University	Mrs. Rajshree Sridhar Iyer Mr. KAILASH PAWAR Dr. Sanjay Gupta Dr. R D Patidar Mr. Rajeev Kumar Singh Mr. DS Rao Mr. Dhananjay Dewangan Dr. Surendra Dwivedi Dr. Sanjay Gupta	19-May-20	153
18	Webinar on "Building Self-Reliant Bhartiya Startup & Innovation Ecosystem"	Dr. R D Patidar Dr. Unnat P Pandit	20-May-20	526
19	Webinar on When will Covid 19 end?-- A Data Mining Approach	Dr. Prashant S. Bokare	21-May-20	95
20	The future of Education post-Covid-19 followed by a Career	Mrs. Mamta Shukla Mr. Alok Shrivastava	21-May-20	262

	Guidance Webinar with OP Jindal University	Dr. R D Patidar Mr. Gajendra Bhoi Mr. Saket Jeswani Mr. Arvind Kumar Varma Mrs. Mamta Singh Mr. Dhananjay Dewangan		
21	The future of Education post-Covid-19 followed by a Career Guidance Webinar with OP Jindal University	Mrs. Pratima Rajgor Mr. Dhananjay Dewangan Dr. Ashish Sharma Dr. Ashish Sharma Mr. SV Chandra Shekhar Mr. Shiladitya Ghosh Mr. B.N Kumar Dr. R D Patidar Mr. Sarang Mukadam	22-May-20	427
22	Webinar on "Working Principle and Construction Of Turbine With Generation Of Electricity In Wind Power Plant"	Dr. Srikant Prasad Mr. Srinivasan Subramani	23-May-20	84
23	Webinar on Basic Industrial Hydraulics with OP Jindal University, Raigarh	Dr. Siddharth S Chakrabarti	23-May-20	148
24	The future of Education post-Covid-19 followed by a Career Guidance Webinar with OP Jindal University	Mr. Jayesh Number Mrs. G R Madhulika Mr. Raman Mishra Dr. Prerna Hiradhar Mr. Ashish Degwekar Mr. Dhananjay Dewangan Dr. R D Patidar Mr. Akash Pandey Mr. Rohandeep Singh Chawla	24-May-20	340
25	The future of Education post-Covid-19 followed by a Career Guidance Webinar with OP Jindal University	Mr. Nitesh Agarwal Dr. Chirabrata Dutta Dr. Rakesh Patra Mr. Dilip Patel Mrs. Balbinder Kaur Dr. R D Patidar Mr. Nitesh Agarwal Mr. Pawan Kumar Sinha Mr. Arvind Kumar Sharma	25-May-20	128
26	Re-Bootting and Innovation in education post-Covid-19 followed by a career guidance webinar with OP Jindal University	Dr. Shesadev Nayak Mrs. Sasmita Patnaik Dr. Biswa Mohana Jena Mr. Khageswar Dash Dr. R D Patidar Mr. Pawan Kumar Sinha Dr. Satyajit Sahu	26-May-20	56

		Dr. Naresh Chandra Agrawal		
27	Re-Bootting and Innovation in education post-Covid-19 followed by a career guidance webinar with OP Jindal University	Mr. Pawan Sinha CA Srikant Sharma Dr. Rabi Shankar Pandia Mr. Kshamanidhi Jhankar Dr. R D Patidar Mr. Ashutosh Purohit Mr. Ashutosh Purohit Mr. R K Panigrahi Dr. Shesadev Nayak Mr. Sanjay Kumar Mishra Dr. Rabi Shankar Pandia Ms. Babita Mishra	27-May-20	412
28	Webinar on Artificial Intelligence/Machine Learning for Power and Steel Plant Professional	Mr. Boben Anto Mr. Arun Jose	27-May-20	145
29	Webinar on "Circular Economy: A Key to Sustainability" with OP Jindal University	Mr. Ajay Ku Mohanty Dr. ShesadevNayak	27-May-20	148
30	Webinar on "Re-inventing Applications of IoT post Covid-19" Organized by Department of Electrical Engineering	Dr. Suraj Sharma	28-May-20	41
31	How to make online teaching more effective: A guideline	Mr. Nitin Upadhyay	28-May-20	44
32	Deep Learning model deployment with Open VINO toolkit for Computer Vision Applications	Mr. Pradeep Singh Chauhan	29-May-20	83
33	Re-Bootting and Innovation in education post-Covid-19 followed by a career guidance webinar with OP Jindal University	Dr. Padmini Mishra Mr. Sudhir Mishra Dr. Shesadev Nayak Mr. Pawan Sinha Dr. Pradip Kumar Nanda Dr. Srikant Mohanty Mr. Santosh Biswal	30-May-20	84
34	"Career Opportunities in SAP" with OP Jindal University	Mr. Bishesh Jyoti Naik Mrs. Pushpanjali Shadangi	30-May-20	81
35	Webinar on Harmonics causes, effects, and remediation techniques	Dr. R D Patidar	31-May-20	215
36	Webinar on " The Prospects of Quantum computing "	Dr. Prashant S. Bokare Mr. Shirish Panda	31-May-20	40
37	Virtual Samar Camp	All Subject experts	1 to 15 th - Jun-20	369

- i) OPJU provided support to establish a Hospital in Punjipathra Village having 200 beds in Punjipathra with the help of JSPL, Raigarh during Covid-19.



(Visit of local administration for inspection of proposed Covid hospital)



(Area identified for the proposed Covid-Hospital)

ii) Other initiatives are taken by OP Jindal University during Covid-19.



23. Balance Sheet

BALANCE SHEET

FINANCIAL YEAR

2019-20

O.P. JINDAL UNIVERSITY

BALANCE SHEET AS AT 31ST MARCH 2020

LIABILITIES	As at 31.03.2020	As at 31.03.2019		ASSETS	As at 31.03.2020	As at 31.03.2019
<u>CAPITAL FUND</u>						
Opening Balance	(6,16,93,940)	(2,37,96,959)		Fixed Assets (Annexure 'A')	3,91,92,630	3,14,21,474
Add: Excess of Income Over Expenses transferred from Income & Expenditure A/c.	2,15,23,796	(3,78,96,981)		Current Assets (Annexure 'B')	4,92,06,800	4,15,81,968
	(4,01,70,144)	(6,16,93,940)		Accounting Policies & Notes to the Accounts (Annexure 'D')		
<u>CURRENT LIABILITIES & PROVISIONS</u>						
Current Liabilities & Provisions (Annexure 'C')	12,85,69,574	13,46,97,382				
Total	8,83,99,430	7,30,03,442		Total	8,83,99,430	7,30,03,442

In terms of our annexed report of even date.

For Agrawal Dinesh & Co.
Chartered Accountants



D.K. Agrawal
Partner

For O.P Jindal University, Raigarh



Dr. R.D. Patidar
Officiating Vice Chancellor



Anurag Vijaywargiya
Registrar

Place: Raigarh
Date: 28/11/2020
UDIN: 20076969AAAAJD2199



O.P. JINDAL UNIVERSITY
RAIGARH (C.G.)

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDING ON 31.03.2020

	EXPENDITURE	AMOUNT	AMOUNT		INCOME	AMOUNT	AMOUNT
		2019-20	2018-19			2019-20	2018-19
To	General Running & Maintenance	2,10,75,829	2,29,17,012	By	College Fees	13,79,09,316	12,42,15,393
To	Advertisement & Recruitment Exp.	15,31,247	7,86,676	By	Fine	8,88,567	2,25,491
To	Personnel Expenses	10,40,54,421	9,04,03,896	By	Mess Charges	1,80,70,873	1,69,47,704
To	Professional & Consultancy Fees	4,39,258	93,08,576	By	Bus Charges	58,95,000	42,03,750
To	Retainership Charges	29,39,676	24,27,311	By	Miscellaneous Income	75,45,886	35,28,153
To	Travelling & Conveyance	24,10,952	18,50,474	By	Donations	3,95,21,000	1,00,000
To	Audit Fees	37,760	23,600	By	Excess of Expenditure over Income		3,78,96,981
To	Depreciation	48,58,614	38,99,934		Transferred to Balance Sheet		
To	Scholarships	50,64,000	44,34,000				
To	Fees Concession	38,39,823	23,11,251				
To	Staff Welfare	8,21,370	21,80,357				
To	Mess Expenses	1,55,48,379	1,45,93,737				
To	Hire Charges	29,91,240	28,92,616				
To	Printing & Stationary	9,65,976	9,37,033				
To	Processing Fees	19,35,063	37,75,743				
To	Admission Expenses	56,51,416	55,01,629				
To	Bank Charges	51,513	22,463				
To	Administration Charges on PF	2,05,790	2,57,422				
To	Office Expenses	2,43,776	1,71,672				
To	Miscellaneous Expenses	5,84,616	4,15,901				
To	Training & Placement Expenses	4,02,141	76,665				
To	Telephone Charges	19,83,686	17,32,180				
To	Workshop & Cultural Activities	24,96,446	39,35,446				
To	Insurance Expenses	24,664	8,731				
To	Interest	-	5,05,534				
To	Postage & Courier	16,533	30,204				
To	Lab Consumables	9,85,768	4,97,688				
To	Books & Periodicals	9,54,086	3,18,153				
To	Security Expenses	52,72,538	62,00,191				
To	Power & Electricity	-	37,61,825				
To	Study Material Expenses	91,532					
To	House Rent	8,28,733	9,39,552				
To	Excess of Income over Expenditure	2,15,23,796					
	Total	20,98,30,642	18,71,17,472		Total	20,98,30,642	18,71,17,472

In terms of our annexed report of even date.

For Agrawal Dinesh & Co.
Chartered Accountants

D.K. Agrawal
Partner

Place: Raigarh
Date: 28/11/2020



For O.P Jindal University

Dr. R.D. Patidar
Officiating Vice Chancellor

Anurag Vijaywargiya
Registrar

O.P. JINDAL UNIVERSITY
RUN BY : JINDAL EDUCATION & WELFARE SOCIETY
RAIGARH (C.G.)

Schedule Forming Part of Balance Sheet as on 31st March 2020

Calculation of depreciation as per Income Tax Act for the year 2019-20

		Opening	Additions		Deletions		Depreciation			Closing
Fixed Assets	Rate	WDV as on 01.04.2019	Used for 180 days or more	Used for less than 180 days	Sale/ Transfer/Return made During 2019-20	Total as on 31.03.2020	Used for 180 days or more	Used for less than 180 days	Total Depreciation for Twelve Months	WDV as on 31.03.2020
Building	10%	1,12,80,689.23	94871	30,005	-	1,14,05,565	11,37,556	1,500	11,39,056	1,02,66,509
Capital Work in Progress	0%	-	-	-	-	-	-	-	-	-
Air Conditioner	10%	12,21,192	74,674	19,12,012	-	32,07,878	1,29,587	95,601	2,25,187	29,82,691
Library Books & Periodicals	60%	3,16,709	-	3,80,568	-	6,97,277	1,26,684	76,114	2,02,797	4,94,480
Furniture & Fittings	10%	1,69,76,023	7,95,134	6,92,929	16,100	1,84,47,986	17,75,506	34,646	18,10,162	1,66,37,834
Computers	60%	7,37,447	11,06,605	3,51,050	3,400	21,91,702	7,36,261	70,210	8,06,471	13,85,231
Lab Equipment	15%	-	9,086	58,15,784	-	58,24,870	1,363	4,36,184	4,37,547	53,87,323
Camera	15%	1,21,887	-	13,86,552	-	15,08,439	18,283	1,03,991	1,22,274	13,86,164
Motor Vehicles	15%	6,93,337	-	-	-	6,93,337	1,04,000	-	1,04,001	5,89,336
Biometric Machine	15%	74,191	-	-	-	74,191	11,129	-	11,129	63,062
		3,14,21,474	20,80,370	1,05,68,900	19,500	4,40,51,244	40,40,367	8,16,746	48,58,614	3,91,92,630

Details of Own Assets :

Details of Own Assets:		Opening		Additions		Deletions		Depreciation on Assets				Closing
Fixed Assets	Rate	WDV as on 01.04.2020	Used for 180 days or more	Used for less than 180 days	Sale/ Transfer/Return made During 2019-20	Total as on 31.03.2020	Used for 180 days or more	Used for less than 180 days	Total Depreciation for Twelve Months	WDV as on 31.03.2020		
Building		1,12,80,689	94,871	30,005	-	1,14,05,565	11,37,556	1,500	11,39,056	1,02,66,509		
Boys Hostel	10%	76,65,425			-	76,65,425	7,66,543		7,66,543	68,98,883		
Borewel	10%		94,871	30,005	-	1,24,876	9,487	1,500	10,987	1,13,889		
Canteen Building	10%	12,79,339			-	12,79,339	1,27,934	-	1,27,934	11,51,405		
Elevator	10%	23,35,925			-	23,35,925	2,33,592	-	2,33,592	21,02,332		
Girls Hostel	10%	-			-	-	-	-	-	-		
Capital Work in Progress	0%				-	-	-	-	-	-		
Air Conditioner	10%	12,21,192	74,674	19,12,012	-	32,07,878	1,29,587	95,601	2,25,187	29,82,691		
Library Books & Periodicals	40%	3,16,709		3,80,568	-	6,97,277	1,26,684	76,114	2,02,797	4,94,480		
Furniture & Fittings	10%	1,69,76,023	7,95,134	6,92,929	16,100	1,84,47,986	17,75,506	34,646	18,10,152	1,66,37,834		
Furniture	10%	1,26,17,728	1,69,559	2,32,798	-	1,30,20,085	12,78,729	11,640	12,90,369	1,17,29,717		
Electrical Item & Fittings	10%	32,99,088	5,72,491	4,26,560	-	42,97,139	3,87,058	21,328	4,08,386	38,88,753		
Geyser	10%	29,761	33,984	33,571	-	97,316	6,375	1,679	8,053	89,263		
Grinding Machine	10%	17,717			-	17,717	1,772		1,772	15,945		
Induction Heater	10%	3,871			-	3,871	387	-	387	3,484		
Kitchen Utensils	10%	2,87,022	19,100		16,100	2,90,022	29,002	-	29,002	2,61,020		
LCD TV	10%	82,570			-	82,570	8,257	-	8,257	74,313		
Microwave	10%	25,549			-	25,549	2,555	-	2,555	22,994		
Projector	10%	3,43,683			-	3,43,683	34,368	-	34,368	3,09,315		
Refrigerator	10%	57,971			-	57,971	5,797	-	5,797	52,174		
Submersible Pump	10%	20,571			-	20,571	2,057	-	2,057	18,514		
Videocon Set Top Box	10%	8,990			-	8,990	899	-	899	8,091		
Washing Machine	10%	20,913			-	20,913	2,091	-	2,091	18,822		
Water Filter & Cooler	10%	1,61,589			-	1,61,589	16,159	-	16,159	1,45,430		
Computers	40%	7,37,447	11,06,605	3,51,050	3,400	21,91,702	7,36,261	70,210	8,06,471	13,85,231		
Computers	40%	4,46,699	44,605	2,09,450	3,400	6,97,354	1,95,162	41,890	2,37,052	4,60,302		
Computer Software	40%	2,90,747	10,62,000	1,41,600		14,94,347	5,41,099	28,320	5,69,419	9,24,928		
Camera	15%	1,21,887		13,86,552		15,08,439	18,283	1,03,991	1,22,274	13,86,164		
Lab Equipment	15%		9,086	58,15,784		58,24,870	1,363	4,36,184	4,37,547	53,87,323		
Motor Vehicles	15%	6,93,337			-	6,93,337	1,04,000		1,04,001	5,89,336		
Cycle	15%	3,929			-	3,929	589	-	590	3,339		
Scorpio	15%	6,89,407			-	6,89,407	1,03,411		1,03,411	5,85,996		
Biometric Machine	15%	74,191			-	74,191	11,129		11,129	63,062		
		3,14,21,474	20,80,370	1,05,68,900	19,500	4,40,51,244	40,40,367	8,18,246	48,58,614	3,91,92,630		

For Agrawal Dinesh & Co.
Chartered Accountants

D.K. Agrawal
Partner

For O.P Jindal University

Dr. R.D. Patidar
Officiating Vice Chancellor

Anurag Vijaywargiya
Registrar

Place: Raigarh
Date: 28/11/2020



O.P JINDAL UNIVERSITY
RAIGARH (C.G.)

ANNEXURE - B:
Current Assets

PARTICULARS	2019-20	2018-19
(A) Loan & Advances		
Security Deposit (AICTE)	8,00,000	-
Security Deposit (Coffee Day)	-	25,000
Security Deposits (Telephone)	4,000	4,000
Loans & Advances	2,21,973	53,435
Accrued Interest on SBI	1,47,255	-
Others		
Prepaid Expenses	11,60,071	16,73,430
TDS Receivable	7,20,740	6,64,717
Advance to Creditors	6,54,096	1,67,078
O P Jindal Institute of Technology	1,28,50,896	1,19,16,496
(B) Sundry Receivables		
Fees Receivable	1,05,74,688	40,24,904
Other Receivable	31,089	85,337
Sundry Debtor	46,58,780	51,60,100
(D) Cash & Bank Balance		
Cash in Hand	13,088	20,964
Balance With Banks		
Central Bank Of India	-	-
ICICI Bank, Gharghoda	11,020	16,259
Punjab National Bank	32,00,094	29,45,874
SBI, Gerwani	1,41,59,010	1,48,24,374
TOTAL	4,92,06,800	4,15,81,968

For Agrawal Dinesh & Co.
Chartered Accountants

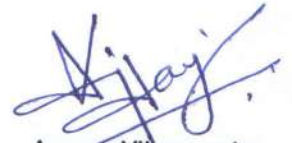


D.K. Agrawal
Partner

For O.P.Jindal University



Dr. R.D. Patidar
Officiating Vice Chancellor



Anurag Vijaywargiya
Registrar

Place: Raigarh
Date: 28/11/2020



O.P JINDAL UNIVERSITY
RAIGARH (C.G.)

ANNEXURE - C:

Current Liabilities & Provision

PARTICULARS	2019-20	2018-19
Admn. Charges on P.F payable	18,726	15,770
Advance Fees Received	3,95,44,081	3,84,25,494
Cauton Fee	53,07,832	56,92,182
Hostel Cauton Fee	41,44,500	43,22,375
Excess Fee Refundable	26,91,687	20,49,702
Expenses Payable	5,01,251	10,05,529
Blazer Fee Payable	1,61,643	32,550
Mediclaime Payable	-	30,711
National Service Scheme	15,000	15,000
Jindal Steel & Power Ltd	4,14,78,357	6,51,39,222
Gratuity Payable	78,20,117	-
O P Jindal Institute of Technology	-	-
P.F. Employer Share	3,54,261	3,42,798
Membership Fees (ASM)	-	27,600
P.F. Staff Share	3,54,261	3,42,798
ESIC Employer Share	12,421	18,992
ESIC Staff Share	2,879	7,008
TDS Payable	7,72,119	8,29,738
GST Payable	31,495	17,938
M Tech Internship	2,45,000	2,45,000
Salary Payable	56,20,112	58,52,726
Welfare Scheme (HRD)	29,08,845	23,59,902
Enterprenership Club	5,000	-
Photography Club	2,000	-
Social Empowerment Club	3,000	-
State Planning Commision	-	-
	11,19,94,588	12,67,73,035
Sundry Creditors	1,65,74,986	79,24,347
TOTAL	12,85,69,574	13,46,97,382

For Agrawal Dinesh & Co.
Chartered Accountants

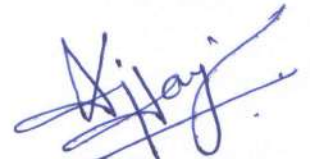


D.K. Agrawal
Partner

For O.P Jindal University



Dr. R.D. Patidar
Officiating Vice Chancellor



Anurag Vijaywargiya
Registrar

Place: Raigarh
Date: 28/11/2020



ANNEXURE D

ACCOUNTING POLICIES AND NOTES TO THE ACCOUNTS

- 1.Accounts of the institute has been prepared under the historical cost and convention basis.
Accrual system of accounting has been followed by the Institute during the year.
 - 2.Fixed assets have been valued at historical cost basis.
 - 3.Depreciation for the year has been calculated on the WDV at the rates prescribed
by the Income Tax Act. 1961.
 - 4.Sundry creditors, loan & advances are subject to the confirmation from parties.
 - 5.Cash balance has been taken as certified and verified by the Management Committee.
 - 6.Previous year figures have been regrouped and rearranged wherever considered necessary.
- In terms of our annexed report of even date.

Place: Raigarh
Date: 28/11/2020

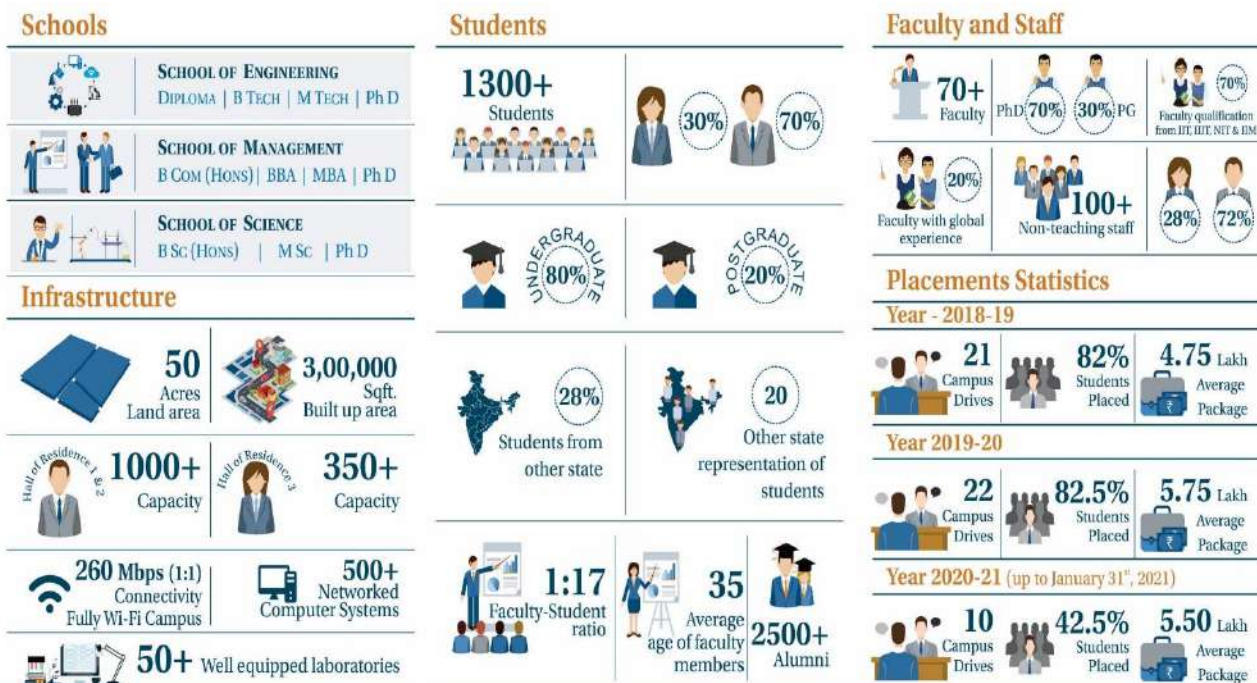
For Agrawal Dinesh & Co.
Chartered Accountants



D.K. Agrawal
Partner



24. OPJU At A Glance



Recognition & Memberships



Collaborations



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