

IPS ACADEMY

INSTITUTE OF ENGINEERING & SCIENCE (A UGC Autonomous Institute, Affiliated To RGPV)



1.4.2 Feedback Analysis and Action Taken Report of the Institute 2020-2021

The Internal Quality Assurance Cell (IQAC) of the IPS Academy, Institute of Engineering & Science designs and collects feedback from its stakeholders to monitor and evaluate its performance quality on curriculum and curriculum related issues. The feedback forms were collected from students, teachers, employers, and alumni.

The feedback targets following different content for different stakeholders.

- Institute collects student's feedback through student exit survey, it addresses outcome of the curriculum and it's learning related issues in terms of Multidisciplinary work, communication skills and life-long learning etc. Institute also collects the feedback of students on the curriculum.
- Institute collects teachers feedback, the feedback addresses issues like suitability the course and its need base, outcomes of the curriculum, relationship with course content and corresponding reference material, availability of reference materials in terms with curriculum, evaluation methods and curriculum delivery, etc.
- For employers, it addresses issues like general communication skills, developing solutions to real life problems, working in a team, creative challenges to challenges, organization skills, learning of new techniques, integration of technology for work as learnt through the curriculum.
- For alumni, it aimed for responses on adequateness of courses curriculum, curriculum appropriate for employability, sufficiency of syllabus content in context of current professional standards and curriculum design in context of development of self-directed learning and problem solving approach.

Kindly refer the action taken report which is attached herewith.





Knowledge, Skill, Value

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After taking feedback of various stakeholders about Curriculum Gap we have taken certain actions as and when required.

Subject	Gap Identified in Curriculum	Action Taken
Process Piping Design	Suggestion to include various materials of piping systems manufacturing.	Covered in Extra Classes
Chemical Reaction Engineering	Metabolism reaction mechanism to be included	Covered in Extra Classes
Chemical process Control Lab	New equipment which relate automatic control of processes.	Suggestion is disused with head have been forwarded to purchase committee.
Fluid Mechanics	Basic knowledge about Computational fluid dynamics (CFD)	Expert lecture was conducted on CFD.
Fluid Mechanics	Fluidization should be discussed in detail.	Elective subject on Fluidization has been introduced in the syllabus.
Fuel Technology	Study about alternate fuels	This topic is covered in STTP.
Thermodynamics	Prediction of activity coefficient in non ideal mixtures	UNIQUAC and UNIFAC methods are covered in extra classes.
Mass Transfer	Process intensification techniques like reactive distillation, reactive extraction.	Covered in Extra Classes
Chemical process calculation	Combustion calculation should be studied in detail.	Covered in Extra Classes
Industrial psychology and management	Detail study of stress management.	Covered in expert lecture.

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(A UGC Autonomous Institute, Affiliated to RGPV) DEPARTMENT OFCHEMICAL ENGINEERING Knowledge Village, Rajendra Nagar, A.B. Road, Indore (M.P.), 452012





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Knowledge, Skill, Value

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After taking students feed back about Curriculum Gap we have taken certain actions as and when required after various brain storming sessions with faculties, senior professors, principal and alumina.

S.NO.	Subject	Gap Identified in Curriculum (by Students)	Action Taken
1	NDT	Detailed explanation required Testing & application in the civil engineering	Testing & Application of NDT test included and explained in beyond the syllabus.
2	Traffic Engineering	Traffic studies including design of signals, traffic at conjunction included	Covered in classroom teaching
3	Infrastructure Engineering	Software training also included in the curriculum with one case study of site execution	15 days training organized for Staad Pro.
4	Water Resources Engineering	Detailed study of flood routing	Covered in classroom teaching with extra time requirement.
5	Design of Hydraulic Structures	Reinforcement & mix design of dam also included	Students were given assignment to study and design of Dam.





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S.NO.	Subject	Gap Identified in Curriculum	Action Taken
1	Data Structures & Algorithm	Conversion of infix expression to prefix expression and Evaluation of prefix expression is not covered	I have covered these topics in classroom sessions
2	Distributed System	No gap identified	NA
3	Analysis & Design of Algorithms	Recurrence relation using recurrence tree & longest increasing subsequence are not included	I have covered these topic in classroom sessions



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COMPUTER SCIENCE & ENGINEERING DEPARTMENT

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S.NO.	Subject	Gap Identified in Curriculum	Action Taken
1	Basic Electrical & Electronics Engg.	Norton's theorem, Maximum power transfer theorem.	Included in syllabus
2	Wireless Communication	Lack of practical exposure & WSN include in details	Course beyond syllabus
3	Microprocessor and Microcontrollers	ARM Processor, AVR Series Controller, Introduction with Arduino, PIC controller	Covered in ESR syllabus
4	Digital Signal Processing	DSP Processor	Included in Syllabus
5	VLSI Design	Introduction of MOS characteristics, Second Order effects, Power Dissipation	Included in Syllabus



ENGINEERING & SCIENCE INSTITUTE OF ELECTRONICS & COMMUNICATION ENGINEERING

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S.NO.	Subject	Gap Identified in Curriculum	Action Taken
1	JAVA	Not in Curriculum	Included in autonomy syllabus
2	Python	Not in Curriculum	Included in autonomy syllabus
3	Embedded system & Robotics	Robotic arm	Included in autonomy syllabus
4	Digital Communication	Simulation based practical experiment	Some experiments performed in MATLAB
5	Microprocessor &Microcontrollers	Robotics Engineering	Included in Embedded system & Robotics
6	Internet of Things	Not in Curriculum	Included in autonomy syllabus
7	Artificial Intelligence	Not in Curriculum	Included in autonomy syllabus
8	Smart Vehicles	Not in CurriculumEV technology added in h scheme.	



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Action Taken for Curriculum Gap

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After taking teacher's feedback about Curriculum Gap we have taken certain actions as and when required after various brain storming sessions with senior professors and principal.

S.NO.	Subject	Gap Identified in Curriculum	Action Taken
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y based subject ed Subject PEC- FT601 (A) – Specia Fire Hazards added in Professiona Elective Courses category in sixth semester Subject HSMC- FT302 Industrial Psychology added in third semester
blogy subject Subject HSMC- FT302 Industrial Psychology added in third semester
Ils subject It is an essential part of curriculum and not feasible to exclude
se storage Subject as suggest added in curriculum as departmental electiv category
ral tools and iring Syllabus has been developed aid and PPE according to suggestions syllabus
bid for soning and be in syllabus suggested suggested
OISD norms included in subject PCC -FT701 Fire Fighting Installation

Knowledge Village, Rajendra Nagar, A.B. Road, Indore (M.P.). 452





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S.NO.	Subject	Gap Identified in Curriculum	Action Taken
1	Manufacturing Process	Working of vertical milling machine	Covered through you tube video in tutorial class
2	Software Lab	Latest software training	Software covered in FEM/CFD Lab
3	Automobile engineering	Introduce E-Vehicle & Hybrid vehicles	Added in syllabus in BoS
4	Dynamics of machines	It should be compulsory instead of elective subject	In this year university scheme was followed
5	Machine Design	It should introduce in syllabus	Subject added in syllabus in BoS
7	Heat and mass transfer	Heat pipe and its application	Covered through NPTEL lectures

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S. No.	Subject	Gap Identified in Curriculum	Action Taken
1	Dynamics of machines	Some topics common from machine design it should be separate	Syllabus changed in BoS
2	Kinematics of Machines	Include gear design	Added in syllabus after BoS meeting
3	Entrepreneurship and Management Concepts	Include digital marketing	Added in syllabus after BoS meeting
4	Production Planning and Control	Work study with related to the company	Discuss case study in tutorial class
5	Manufacturing Process	Add auto ancillary process in syllabus	Topic covered in CBS through PPT's
6	CAD/CAM/CIM	Additive manufacturing and 3D Printing	Covered through 3D printing machine

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Feedback Analysis Report 2020-2021

The Internal Quality Assurance Cell (IQAC) of the IPS Academy, Institute of Engineering & Science designs and collects feedback from its stakeholders to monitor and evaluate its performance quality on curriculum and curriculum related issues. The feedback forms were collected from students, teachers, employers, and alumni in the prescribed format.

The report of feedback analysis is submitted to Principal of the Institute than the feedback report was forwarded to IQAC for necessary action and thereafter the analysis is shared with all head of departments and they are instructed to take necessary measures through BoS/Academic council and actions as to comply with the issues raised by the learners.

Student Feedback

1. Engineering knowledge

Description	Excellent	Very Good	Good	Average	Below Average
% Response	51.56	24.17	21.91	1.29	1.07



2. Problem analysis

Description	Excellent	Very Good	Good	Average	Below Average
% Response	47.38	22.56	23.69	3.89	2.48



3. Design/development of solutions

Description	Excellent	Very Good	Good	Average	Below Average
% Response	50.79	21.85	23.81	2.13	1.42



4. Conduct investigations of complex problems

Description	Excellent	Very Good	Good	Average	Below Average
% Response	50.68	23.16	21.80	3.27	1.09





5. Modern tool usage

Description	Excellent	Very Good	Good	Average	Below Average
% Response	48.04	24.85	.22.31	3.15	1.66



6. The engineer and society

Description	Excellent	Very Good	Good	Average	Below Average
% Response	48.87	26.14	19.81	3.30	1.87





7. Environment and sustainability

Description	Excellent	Very Good	Good	Average	Below Average
% Response	49.76	26.12	21.54	1.62	0.97



8. Ethics

Description	Excellent	Very Good	Good	Average	Below Average
% Response	45.95	24.97	25.08	2.33	1.66





9. Individual and team work

Description	Excellent	Very Good	Good	Average	Below Average
% Response	48.58	25.98	21.44	2.46	1.53



10. Communication

Description	Excellent	Very Good	Good	Average	Below Average
% Response	48.55	19.81	27.23	2.51	1.90





11. Project management and finance

Description	Excellent	Very Good	Good	Average	Below Average
% Response	51.80	21.86	21.86	2.95	1.53



12. Life-long learning

Description	Excellent	Very Good	Good	Average	Below Average
% Response	43.97	26.49	23.90	3.38	2.25





Alumni Feedback

Description	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
% Response	76.92	23.08	0.00	0.00	0.00





2. The curriculum accommodates courses with experiential learning (hands-on)

Description	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
% Response	65.52	28.45	5.17	0.86	0.00





3. The institute and the department have adequate infrastructure to conduct the UG/PG program

Description	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
% Response	74.42	25.58	0.00	0.00	0.00



4. The institute-industry tie ups were useful for me

Description	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
% Response	60.50	35.29	3.36	0.84	0.00





Description	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
% Response	82.44	16.03	1.53	0.00	0.00





6. How do you rate the acquired managerial and communication skills help your professional growth?

Description	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
% Response	51.28	46.15	1.71	0.85	0.00





7. The learning ambience at the institute is good

Description	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
% Response	67.23	30.25	1.68	0.84	0.00



8. The institute is student-centric in all its academic initiatives

Description	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
% Response	58.54	41.46	0.00	0.00	0.00





9. All the academic processes of the institute is transparent

Description	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
% Response	66.67	33.33	0.00	0.00	0.00



10. The institute provides sufficient opportunity to participate in co-curricular/extracurricular activities

Description	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
% Response	81.30	14.63	3.25	0.81	0.00





Employer Feedback

1. How satisfied are you with the performance of our graduate?

Description	Excellent	Very Good	Good	Fair	Poor
% Response	40.00	30.00	20.00	10.00	0.00



2. Performance in their training period / initial stage of employment

Description	Excellent	Very Good	Good	Fair	Poor
% Response	33.33	50.00	16.67	0.00	0.00





3. Breadth and Depth of knowledge

Description	Excellent	Very Good	Good	Fair	Poor
% Response	30.77	46.15	15.38	7.69	0.00



4. Team work capacity of our graduates

Description	Excellent	Very Good	Good	Fair	Poor
% Response	61.54	23.08	15.38	0.00	0.00





5. How do you rate their written and communication abilities?

Description	Excellent	Very Good	Good	Fair	Poor
% Response	33.33	50.00	16.67	0.00	0.00



6. Rate their knowledge in core subject, advanced tools and software

Description	Excellent	Very Good	Good	Fair	Poor
% Response	0.00	66.67	22.22	11.11	0.00





7. Capability in finding solutions of practical issue

Description	Excellent	Very Good	Good	Fair	Poor
% Response	0.00	42.86	28.57	28.57	0.00



8. Ability to take initiative

Description	Excellent	Very Good	Good	Fair	Poor
% Response	50.00	37.50	0.00	12.50	0.00





9. Ability to be a lifelong learner

Description	Excellent	Very Good	Good	Fair	Poor
% Response	36.36	27.27	36.36	0.00	0.00



