

BEST PRACTICE: 1

Title of the Practice:

Holistic development - Nurturing Sports Competencies

Objectives

- To inculcate sports culture among the GNITS students, as participation in sports provide an opportunity for the student to prove their mettle and develop their wholesome personality.
- To train the students in different sporting events to improve their fitness, skills and play the game with more proficiency.
- To train the and prepare the college teams in different sporting events by experienced coaches to participate in various state level, national level sports competitions and All India Inter-University championships to perform their best to get many prizes to the Institute.

The context

The name, fame and prestige of any educational Institute can be elevated with their sports achievements at various sports championships.

On the other hand, It has been observed that around 85 percent of the students joining B.Tech programmes are insufficiently physically active due to their hectic entrance exam preparation to get a seat in B.Tech. and facing many health issues. Sports is identified as one of the best holistic approaches for wellness.

The Practice

GNITS has been organising the following sports coaching camps every year by recruiting well experienced and qualified coaches. The sports include Throw ball, Volley ball Basket ball, Table Tennis, Badminton, Kho Kho and Kabaddi.

The students will get the coaching camp information through posters, circulars and group messages.

The coaches trains the students after they assess the student's initial fitness, earlier background and level of participation in that sport. Initially all the interested students will be trained by the coaches for a limited period. Based on the performance during this period, team probables for each sport will be selected to get advanced training to prepare college teams.

Evidence of Success

The following data reflects the evidence of success through the number of titles won by the GNITS at various Sports competitions during the last 5 years.

Table-1. Summary of coaching and sports achievements (2018-23)

Academic Year	No. of coaching	No. of students received	No. of Tournaments	Outcomes of Inter University tournament (IUT) and National
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	camps	advanced training	GNITS Teams participated	championship
2022-23	5	133	17	<ul style="list-style-type: none"> • 64 titles won • 13 IUT and 9 National participants.
2021-22	4	101	16	<ul style="list-style-type: none"> • 38 titles won • 15 IUT and 22 National participants
2020-21	4	136	2	<ul style="list-style-type: none"> • 5 titles won
2019-20	6	172	13	<ul style="list-style-type: none"> • 57 titles won. • Got JNTU Girls Over all championship for the year 2019-20 • 6 IUT and 3 National participants
2018-19	5	134	20	<ul style="list-style-type: none"> • 74 titles won • 8 IUT and National Participants

Problems encountered and Resources required

- Unable to participate in many competitions as the academic year got disturbed and every month one batch of students have exams.
- Additional credits to be awarded to the students for outstanding sports achievements which will motivate many more to take up sports.

BEST PRACTICE: 2

Title of the Best Practice 2:

Embedding Research and Innovation Excellence

Objectives of the Practice

- Elevate R&D and skill enhancement within curriculum through research projects, fostering
- inventive thinking and hackathon participation.
- Strengthen interdisciplinary collaboration to broaden research perspectives enhance the
- institution's global recognition, and drive publications and consultancy projects.
- Seek financial advancements through patents, funded projects, and novel funding avenues while promoting collaboration on research and consultancy projects.
- Prepare students for practical challenges, with a focus on experiential learning and hackathon
- engagements.

The Context

GNITS realized the imperative need to transform its students from conventional educational paradigms into active contributors in the realm of new discoveries and innovations. This initiated a rigorous practice of seamlessly integrating Research & Innovation into the existing curriculum, with a clear objective. The ultimate aim was to shape a forward-looking educational model that nurtured both knowledge acquisition and innovation.

The Practice

GNITS's commitment to a holistic and practical approach towards research methodologies, institution introduced hobby projects as early as the 2nd year of undergraduate studies. During 3rd and 4th year, the focus shifted to a more comprehensive mini-project and major projects leading to tangible products and prototypes, marking presence in national hackathons. Towards Innovation, Several hackathons, Idea pitching contests, Design thinking workshops are conducted leading to 8 start-ups.

Evidence of Success

These achievements which include numerous publications, patents, projects, and successful participation in hackathons.

<i>Academic Year</i>	<i>Training Programs conducted on Emerging Technologies</i>	<i>students Involved</i>	<i>Projects Implemented</i>	<i>Outcomes</i>
2022-2023	59	3240	392	93 publications 4 Patents 11 Research Proposals 8 Products 168 student awards. 06 Innovation Events
2021-2022	48	2545	356	53 Publications

				7 Patents 8 Research Proposals 3 Products 107 Student awards 07 Innovation Events
2020-2021	26	1895	390	51 Publications 8 Patents 6 Research Proposals submitted 2 Products developed 108 Students in higher studies / awards.
2019-2020	28	1430	385	68 Publications 2 Patents 13 Research Proposals 124 Students awards. 05 Innovation Events
2018-2019	23	3050	315	44 Publications 2 Patents 1 Research Proposals 2 Products 163 Students awards 01 Innovation Events

Problems Encountered and Resources Required.

- The ongoing need for faculty development and training to align with R&D objectives.
- Complexities in forging and maintaining industry and academic collaborations through MOUs.
- Continuous access to up-to-date research journals and databases was essential.
- The requirement for expert mentors and industry consultants to keep research relevant.
- Organizing workshops, global exposure trips, and consultations to maintain the cutting-edgerelevance of R&D activities.

Notes (Additional information)

When considering the adoption of an R&D-centric approach like GNITS's, institutions should be prepared for both initial resistance and long-term cultural shifts. Stakeholder buy-in is essential; thus, continuous advocacy and showcasing tangible benefits of such an approach can ease the transition.

Leveraging alumni who have benefitted from R&D experiences can be a powerful tool for persuasion.