

SUMMER INTERNSHIP PROGRAM
at
DEPARTMENT OF MEDICAL EDUCATION
Jaipur, Rajasthan

A REPORT BY

NISHU

Master of Business Administration

Healthcare Analytics

Roll no-0020

2024-26

Under the Mentorship of
Dr. Ritu Vashishtha
Assistant Professor, School of digital Health





राजस्थान सरकार
निदेशालय चिकित्सा शिक्षा, जयपुर
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CERTIFICATE

This is to certify that Ms. NISHU of MBA Healthcare Analytics (2024-26) of IIHMR University, Jaipur has worked with our organization for her summer internship from 15/05/2025 to 29/07/2025. The overall performance shown by her during the period was excellent.

Date: - 29/07/2025


(Iqbal Khan)
Commissioner,
Medical Education

IIHMR University Faculty Mentor Approval

This is to certify that **Ms. Nishu** of academic year 2024-26 **School of Digital Health** has prepared a poster with respect to her summer internship held during May-July 2025.

She has carried out work as per the guidelines. Her poster is approved for presentation.

Date: 30/07/2025

A blue ink signature of Dr. Ritu Vashishtha, written in a cursive style.

Dr. Ritu Vashishtha

Assistant Professor

Reporting Format (Weekly)

Name of the Organization: Department of Medical Education, Rajasthan
Area/ Department/ Project of Summer Internship Program: MAA Yojna
Name of the Student: Nishu
Roll no: 0020 **Stream:** Healthcare Analytics
Week no: 1 **From:** 15/05/2025 to 16/05/2025

Activity Done	Reported at DME, Went for meeting led by Secretary Sir about real-time updates in IHMS of SMS and linked hospitals. Then met Commissioner Sir , got us a task assigned about MAA Yojana , why insurance claims are rejected in Govt. Hospitals (as compared to private ones).
Linking theory (Classroom learning) with practice at your organization	Lessons from Principles of Management, Healthcare Delivery System, Health Economics, Digital Health, e-Health.
Gaps identified on the working area.	Major Gaps- Tasks were assigned to people (local vendors) from Secretary or GOR (Govt. of Rajasthan) got delayed and even after regular follow up meetings they weren't got done, they always ask for new date or they say that it will be done by next week or month.
Suggestions for improvement	Deadline (like the term suggests), It must be the end point of time where the task must complete (regardless of how, why or anything).
Plan for the next week	A task is assigned by Additional Director sir, to work in the team of IHMS .

Signature of the Student

Nishu

Approved by the IIHMR University's Mentor

Reporting Format (Weekly)

Name of the organization: Department of Medical Education, Rajasthan

Area/ Department/ Project of Summer Internship Program: PG Seats & Faculty sanction

Name of the Student: Nishu

Roll no: 0020

Stream: Healthcare Analytics

Week no: 2 From: 19/05/2025 **to** 23/05/2025

Activity Done	Reported to Laksh Agarwal sir, He is the consultant at DME. Met with others intern from IIT Jodhpur, Laksh sir provided the excel sheet for practice. Sir assigned the task on calculate PG seats across all govt. hospitals and sanctioned seats as well. We have did Gap analysis to find out how many faculty members does a govt. college requires and accordingly sanctioned PG seats.
Linking theory (Classroom learning) with practice at your organization	Lessons from Principles of Management, Healthcare Delivery System, Health Economics, Finance and budgeting.
Gaps identified on the working area.	Major Gaps- lack of authentic and structural data. Lack of support from satellite hospitals.
Suggestions for improvement	Deadline (like the term suggests), It must be the end point of time where the task must complete (regardless of how, why or anything).
Plan for the next week	A task is assigned by Mr. Laksh Agarwal sir , Consultant at DME

Signature of the Student

Nishu

Approved by the IIHMR University's Mentor

Reporting Format (Weekly)

Name of the Organization: Department of Medical Education, Rajasthan

Area/ Department/ Project of Summer Internship Program: PG Seats & Faculty sanction at RajMES.

Name of the Student: Nishu

Roll no: 0020

Stream: Healthcare Analytics

Week no: 3 **From:** 26/05/2025 **to** 30/05/2025

Activity Done	Reported to Laksh Agarwal sir, Sir assigned the task on calculate PG seats across all govt. hospitals under RajMes and sanctioned seats as well. We have did Gap analysis to find out how many faculty members does a govt. college requires and accordingly sanctioned PG seats.
Linking theory (Classroom learning) with practice at your organisation	Lessons from Principles of Management, Healthcare Delivery System, Health Economics, Finance and budgeting.
Gaps identified on the working area.	Major Gaps- lack of authentic and structural data. Lack of support from satellite hospitals.
Suggestions for improvement	Deadline (like the term suggests), It must be the end point of time where the task must complete (regardless of how, why or anything).
Plan for the next week	A task is assigned by Mr. Laksh Agarwal sir , Consultant at DME.

Signature of the Student

Nishu

Approved by the IIHMR University's Mentor

Reporting Format (Weekly)

Name of the Organization: Department of Medical Education, Rajasthan

Area/ Department/ Project of Summer Internship Program: Comparison of Rajasthan's healthcare with other states.

Name of the Student: Nishu

Roll no: 0020

Stream: Healthcare Analytics

Week no: 4 From: 02/06/2025 **to** 06/06/2025

Activity Done	Reported to Laksh Agarwal sir, Sir assigned the task on comparison of Rajasthan's Dental colleges and seats with other states. I have did comparative study to find out Rajasthan's healthcare stands at which place across the country. Secretary sir needs this data to showcase in front of Health Minister of Rajasthan.
Linking theory (Classroom learning) with practice at your organisation	Lessons from Principles of Management, Healthcare Delivery System, Health Economics, Data analysis.
Gaps identified on the working area.	Major Gaps- lack of authentic and structural data.
Suggestions for improvement	Deadline (like the term suggests), It must be the end point of time where the task must complete (regardless of how, why or anything).
Plan for the next week	A task is assigned by Mr. Laksh Agarwal sir , Consultant at DME.

Signature of the Student

Nishu

Approved by the IIHMR University's Mentor

Reporting Format (Weekly)

Name of the Organization: Department of Medical Education, Rajasthan

Area/ Department/ Project of Summer Internship Program: PG Seats created under CSS and Non-CSS

Name of the Student: Nishu

Roll no: 0020

Stream: Healthcare Analytics

Week no: 5 From: 09/06/2025 **to** 13/06/2025

Activity Done	Reported to Dr. Manoj Upadhyay, Sir assigned the task on PG seats created under CSS and Non-CSS after 2019 in Various medical colleges under DME. Secretary sir needs this data to analyse the budget of the government regarding the PG seats.
Linking theory (Classroom learning) with practice at your organisation	Lessons from Principles of Management, Healthcare Delivery System, Health Economics, Data analysis, Healthcare financial analytics.
Gaps identified on the working area.	Major Gaps- lack of authentic and structural data, and also lack of support from the satellite hospitals.
Suggestions for improvement	Deadline (like the term suggests), It must be the end point of time where the task must complete (regardless of how, why or anything).
Plan for the next week	A task is assigned by Rashmi gupta ma'am. She is RAS officer and additional director of academics at DME.

Signature of the Student

Nishu

Approved by the IIHMR University's Mentor

Reporting Format (Weekly)

Name of the Organization: Department of Medical Education, Rajasthan

Area/ Department/ Project of Summer Internship Program: PG Seats created under CSS and Non-CSS and budget analysis at DME

Name of the Student: Nishu

Roll no: 0020

Stream: Healthcare Analytics

Week no: 6 From: 16/06/2025 **to** 20/06/2025

Activity Done	Reported to Dr. Manoj Upadhyay, Sir assigned the task on PG seats created under CSS and Non-CSS after 2019 in Various medical colleges under DME. Secretary sir needs this data to analyse the budget of the government regarding the PG seats.
Linking theory (Classroom learning) with practice at your organisation	Lessons from Principles of Management, Healthcare Delivery System, Health Economics, Data analysis, Healthcare financial analytics.
Gaps identified on the working area.	Major Gaps- lack of authentic and structural data, and also lack of support from the satellite hospitals.
Suggestions for improvement	Deadline (like the term suggests), It must be the end point of time where the task must complete (regardless of how, why or anything).
Plan for the next week	A task is assigned by Rashmi gupta ma'am. She is RAS officer and additional director of academics at DME.

Signature of the Student

Nishu

Approved by the IIHMR University's Mento

Reporting Format (Weekly)

Name of the Organisation: Department of Medical Education, Rajasthan

Area/ Department/ Project of Summer Internship Program: PG Seats created under CSS and Non-CSS and budget analysis at RajMES

Name of the Student: Nishu

Roll no: 0020

Stream: Healthcare Analytics

Week no: 7 **From:** 23/06/2025 **to** 27/06/2025

Activity Done	Reported to Lakh Agarwal, Sir assigned the task on PG seats created under CSS and Non-CSS after 2019 in Various medical colleges under RajMES. Secretary sir needs this data to analyse the budget of the government regarding the PG seats and how many PG Seats govt can create in Medical colleges under Rajmes.
Linking theory (Classroom learning) with practice at your organisation	Lessons from Principles of Management, Healthcare Delivery System, Health Economics, Data analysis, Healthcare financial analytics.
Gaps identified on the working area.	Major Gaps- lack of authentic and structural data, and also lack of support from the satellite hospitals.
Suggestions for improvement	Deadline (like the term suggests), It must be the end point of time where the task must complete (regardless of how, why or anything).
Plan for the next week	A task is assigned by Mamta ma'am. She is RAS officer and additional director of academics at RajMES.

Signature of the Student

Nishu

Approved by the IIHMR University's Mentor

Reporting Format (Weekly)

Name of the Organization: Department of Medical Education, Rajasthan

Area/ Department/ Project of Summer Internship Program: Distribution of Faculty in various DME colleges under NMC norms and budget analysis of the salaries of faculty.

Name of the Student: Nishu

Roll no: 0020

Stream: Healthcare Analytics

Week no: 8 **From:** 30/06/2025 **to** 06/07/2025

Activity Done	Reported to Laksh Agarwal, Sir assigned the task on Distribution of Faculty in various DME colleges under NMC norms and budget analysis of the salaries of faculty. Secretary sir needs this data to analyse the budget of the government regarding the PG seats. Collect the data of UG seats under various quota from RajMES colleges. Attend meeting on recruitment of various post on Ophthalmology and made whole same data for ENT as well.
Linking theory (Classroom learning) with practice at your organisation	Lessons from Principles of Management, Healthcare Delivery System, Health Economics, Data analysis, Healthcare financial analytics.
Gaps identified on the working area.	Major Gaps- lack of authentic and structural data, and also difficulties in finding the NMC norms on PG seats.
Suggestions for improvement	Deadline (like the term suggests), It must be the end point of time where the task must complete (regardless of how, why or anything).
Plan for the next week	A task is assigned by Rashmi gupta ma'am. She is RAS officer and additional director of academics at DME. We finally get the data Access of MAA yojana.

Signature of the Student

Nishu

Approved by the IIHMR University's Mentor

Reporting Format (Weekly)

Name of the Organization: Department of Medical Education, Rajasthan

Area/ Department/ Project of Summer Internship Program: Distribution of Faculty in various DME colleges under NMC norms and budget analysis of the salaries of faculty.

Name of the Student: Nishu

Roll no: 0020

Stream: Healthcare Analytics

Week no: 9 **From:** 07/07/2025 **to** 11/07/2025

Activity Done	Reported to Laksh Agarwal, Sir assigned the task on Distribution of Faculty in various DME colleges under NMC norms and budget analysis of the salaries of faculty. Secretary sir needs Dashboard of this data to analyse the Faculty distribution across the DME medical colleges
Linking theory (Classroom learning) with practice at your organisation	Lessons from Principles of Management, Healthcare Delivery System, Health Economics, Data analysis, Data visualization.
Gaps identified on the working area.	Major Gaps- lack of structural data.
Suggestions for improvement	Deadline (like the term suggests), It must be the end point of time where the task must complete (regardless of how, why or anything).
Plan for the next week	A task is assigned by Laksh Agarwal sir. He is Consultant at DME. We finally get the data Access of MAA yojana.

Signature of the Student

Nishu

Approved by the IIHMR University's Mentor

Reporting Format (Weekly)

Name of the Organization: Department of Medical Education, Rajasthan

Area/ Department/ Project of Summer Internship Program: PG Seats and Faculty Data analysis,

Name of the Student: NISHU

Roll no: 0020

Stream: Healthcare Analytics

Week no: 10 **From:** 14/07/2025 **to** 18/07/2025

Activity Done	Updated PG seats data, Assisted with Bond Calculation sheet, found out Sanctioned seats on which new admissions will be done. Appointed to Janana Hospital for compiled a growth report. Secretary sir needs this report to deeply observe the functioning of the hospital.
Linking theory (Classroom learning) with practice at your organisation	Lessons from Principles of Management, Healthcare Delivery System, Health Economics, Healthcare financial analytics, Quantitative Data analysis and Organisation Behaviour.
Gaps identified on the working area.	Major Gaps- lack of authentic collected data, and difficulties in finding the NMC norms on PG seats, difficult to co-operate with hospital staff.
Suggestions for improvement	Deadline (like the term suggests), It must be the end point of time where the task must complete (regardless of how, why or anything).
Plan for the next week	Compiling the SIP work.

Signature of the Student

Nishu

Approved by the IIHMR University's Mentor

Compiled Reporting Format

Name of the Organization: Department of Medical Education, Jaipur, Rajasthan.

Area/ Department/ Project of Summer Internship Program: PG Seats Analysis & MAA Yojana

Name of the Student: Nishu

Roll no: 0020

Stream: Healthcare Analytics

Activity Done	• Analyzed PG seat distribution between DME and RajMES medical colleges. • Observed faculty data (seniority, specialization, and institutional trends). • Helped in manpower requirement analysis of Ophthalmology and ENT departments. • Analyzed MAA Yojna rejection rates (hospital-wise and package-wise). • Detected top-performing and worst-performing hospitals under MAA Yojna. • Performed 8-year performance review of Janana Hospital (maternal care, patient load, scheme utilization). • Performed comparative study of growth of Dental colleges with other states colleges..
Linking theory (Classroom learning)	• Principles of Management – Applied in project planning, organization, and implementation of projects such as PG seats and faculty gap analysis. • Organizational Behavior – Practiced team working and coordination in working with consultants, officers, and hospital personnel in DME and RajMES. • Healthcare Economics & Finance –Applied in PG Bond study, PG seats budget analysis under

with practice at your organization	CSS/Non-CSS, and faculty salary planning. • Health Policy & Public Health – Learned to align state government schemes (such as MAA Yojna) with national healthcare priorities. • Data Analytics & Data Quality –Used while analyzing PG seats, faculty gaps, and rejection patterns in MAA Yojna. Provided completeness and accuracy of datasets for decision-making purposes. • Change Management – Noticed difficulties while introducing digital data systems and dashboards in the hospital network. • Information Systems – Worked with IHMS (Integrated Health Management System) and state-run hospitals' data to analyze. • KPI/KRAs in Healthcare –Recounted performance indicators while conducting comparative study of Rajasthan's healthcare vis-à-vis other states. • Decision Making & Evidence-based Policy – Employed data analysis to propose faculty allocation, hospital performance enhancement, and scheme usage insights. • Excel & Quantitative Analysis – Employed Excel heavily for PG seat calculations, gap analysis, and rejection rate studies. • Healthcare Compliance –Comprehended norms under NMC (National Medical Commission) while studying faculty distribution. • HR Analytics (Healthcare Context) – Used in manpower analysis of Ophthalmology and ENT departments. • Data-driven Decision Making –Assisted DME officers with dashboards and reports
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	that informed budgeting, recruitment, and manpower deployment
Gaps identified on the working area.	• Faculty Deficiencies – Insufficient teaching staff in government medical colleges, impacting PG seat sanction. • Unstructured Information – No centralized, standardized information gathering across RajMES and DME institutions. • Procrastination in Task Completion – Tasks delegated to departments or vendors either get delayed even after repeated follow-ups. • High Rejection Rate under MAA Yojna – Specific specialties and hospitals experience permanently higher claim rejection rates. • Limited Cooperation from Hospitals – Challenges to collect original data and cooperation from satellite hospitals. • No Accountability – No rigid ownership of work, which results in repetitive delay and incomplete work. • Inefficient Queue Management Systems (QMS) – Token generation problems, patient flow problems, and display system failures at hospitals. • Budgetary Constraints – Insufficient funds for appointing more faculty and establishing new PG seats. • Resistance to Information Systems – Employees struggled to conform to IHMS and other computerized health management systems. • Diverse Reporting Standards – Various hospitals employing disparate formats, making inter-district comparison hard.

	• Manpower Deficiencies in Specialties - Important departments such as Ophthalmology, ENT, and Anesthesiology reported severe deficiencies in manpower. • Duplicate Data & Errors – Existence of multiple data sources causing duplication, inconsistency, and error in analysis. • Lack of Real-Time Monitoring – Most data refreshed on a monthly/annual basis rather than real-time, leading to reporting delays. • Limited Use of Analytics – Data gathered but not maximally used for predictive analysis or planning.
Suggestions for improvement	• Establish digitized and centralized data management systems. • Hire more faculty and residents according to gaps identified. • Enhance monitoring of MAA Yojna claims with accountability measures. • Enforce strict deadlines to ensure timely completion of tasks. • Hiring of Data Analysts across different departments to keep standardized, error-free, and updated datasets. • Appointment of Hospital Management Staff to check administrative efficiency, deadline of tasks, and interdepartmental coordination.
	• Hard Skills (Technical Learning): • Data Analytics: Hands-on training in PG seat, faculty shortage, and hospital performance data analysis. • Excel & Quantitative Tools: Employed Excel for PG

Key Learnings	seat calculation, gap analysis, and rejection trends under MAA Yojna. • Dashboard Preparation: Prepared visual dashboards for faculty distribution and hospital data reporting. • Budget & Financial Analysis: PG seat under CSS/Non-CSS budget, and faculty salary planning. • Healthcare Compliance Knowledge: Familiarity with NMC norms, RMC registration rules, and medical college compliance. • Information Systems: Familiarity with IHMS (Integrated Health Management System) and actual hospital data systems. • Data Quality & Reporting: Maintained precision, completeness, and normalization of data in various projects. • Policy & Scheme Analysis: Assessed MAA Yojna rejection trends and hospital performance indicators. • Soft Skills (Professional Learnings): • Good Communication Skills: Enhanced official communication with senior officers, consultants, and hospital personnel. • Teamwork & Collaboration: Cooperated effectively with interns, consultants, and government officials. • Problem-Solving: Overcame issues of missing/unstructured data and modified analysis methods. • Time Management: Picked up task prioritization, meeting deadlines, and managing multiple projects. • Adaptability: Adapted to government office work culture as well as field-level hospital interactions. • Critical Thinking: Recognized systemic gaps
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	and suggested practical, data-based solutions. • Professionalism: Picked up punctuality, responsibility, and accountability in a government environment. • Decision-Making: Applied evidence and data analysis to inform policy and administrative choices
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Signature of the Student

Nishu

Approved by the IIHMR University's Mentor