

CAMPUS MANAGEMENT SYSTEM (UNDERGRADUATE)

Rawalpindi Medical University Rawalpindi

By: Hafiz Shahid Rasool Director IT

Department of Information Technology Rawalpindi Medical University Rawalpindi

	DOCUMENT INFORMATION
Document Title	Campus Management System (CMS) Undergraduate MBBS
Owner	Director IT
Version	1.0
Status	Approved
Prepared by	Hafiz Muhammad Mudassir, Developer (Software & Web)
Approved by	Vice Chancellor
Date released	May 05, 2021
Classification	Rawalpindi Medical University

	TECHNICAL PROPOSAL
Problem Statement	The Campus Management System (CMS) at Rawalpindi Medical University (RMU) is essential to transition from manual processes to a modern, digitalized approach. This initiative will address current inefficiencies, improve data management, enhance communication, and optimize resource utilization, ultimately leading to a more effective and responsive educational environment.
Scope of Work	The proposed system will include all aspects of undergraduate educational activities, integrating both academic and clinical faculty members of RMU who are involved in the educational process.
Objectives	 To streamline administrative and academic processes. To enhance communication and collaboration among students, faculty, and staff. To provide real-time access to information and services. To improve the overall efficiency of campus operations.
Technical Specifications	 The CMS is built on a multi-tier architecture, consisting of: 1. Presentation Layer: The user interface, accessible via web browsers and mobile applications. 2. Application Layer: The core functionality, including business logic and process management. 3. Data Layer: The database management system (DBMS) that stores and retrieves data.
	 The system uses a combination of technologies such as: Front-end: HTML, CSS, JavaScript, and modern frameworks like Bootstrap. Back-end: Server-side languages PHP and modern framework like Yii 2. Database: Relational databases like MySQL maria DB.
Implementation Plan	 Phase 1: Planning and Requirement Analysis Communicate all departments to gather detailed requirements Define project scope, objectives, and deliverables Develop a detailed project plan with timelines and milestones
	 Phase 2: System Design Design the system architecture and data models Create wireframes and prototypes for user interfaces Define integration points with existing systems Phase 3: Development and Testing Develop system modules using Agile methodology Student Registration
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	• Assessment							
	• Examination							
	• Reporting							
	Conduct unit, integration, and system testing							
	• Perform user acceptance testing (UAT) with a group of end-use							
	Phase 4: Deployment and Training							
	• Deploy the system in a staged approach (e.g., pilot phase followed by full rollout)							
	 Provide training sessions for end users Offer ongoing support and maintenance 							
	Phase 5: Maintenance and Support							
	Monitoring: Continuous monitoring of system performance and security.							
	Support: Establishment of support desk at RMU and via support email.							
	Updates: Regular updates to the system for improvements and security patches.							
Budgetary Arrangements	RMU own Resources, Annual IT Budget							
Risk Management	User Adoption: Deliver thorough training and support to facilitate a seamless transition.							
	System Downtime: Establish redundancy and failover mechanisms to minimize operational disruptions.							
	Data Security: Implement robust security measures such as encryption and multi-factor authentication to prevent breaches.							

Student Registration

RU		R/	AWALPINDI MEDI J329+WJ2, Tipu Rd, Ch				PINDI		:: te: 21 Aug, 20	-)23
ANEDICAL ST	Mail		STUDE	NT ADM	MISSION FORM					
Registration I Roll No: Seat Type: Program Enro	329 OPEN MERI	r	BS-0328 and Bachelor of Surgery-(MB	BS)	Institute: Mobile No: Admission Date: Session:	Rawalpindi M 3348372800 2023-02-13 2022-23	edical Col	lege		
PERSONAL DE	TAILS									
Full Name			ADIL IMRAN		CNIC/Passport	l.		3740165799509	Ì	
Gender			Male		Father's Name			imran azam		
Mobile Num	ber		3348372800		Father's CNIC/P	assport		3740130226605		
Date of Birth	í.		200 <mark>4-05-1</mark> 3		Domicile / Distr	rict		Punjab / Rawalp	indi	
Email			adilimran744@gmai.com	Religion			Islam			
Current Address			village and p.o Jatli Tehsil Gujar Khan Dist. Rawalpindi		Permanent Address			village and p.o Jatli Tehsil Gujar Khan Dist. Rawalpindi		
Nationality			PAKISTANI		Institute			Rawalpindi Medical College		
Blood Group	í.		0+		Program			Bachelor of Medicine and Bachelor of Surgery-(MBBS)		
ls Foreigner			No		Is Migrated			No		
GUARDIAN D	ETAILS				ан. Т					
Name			imran azam		Email			imranazamath@	gmail.com	
Phone Numb	er		3359443162		Mobile Number					
Address			village and p.o Jatli Tehsil Guja Dist. Rawalpindi	r Khan	CNIC/Passport			3740130226605		
Relation			FATHER		Income			100000		
EDUCATION [DETAILS									
Certificate Name	Reg No.	Roll No	. Institution	Board/	/University	Obtained Marks	Total Marks	Grade /Division	Passing Year	Result Date
SSC	18807610164	<u>941003</u>	Al amir Foundation Education System Daultala	BISE-R	awalpindi	1060	1100	a+	2020	2020-0 30
HSSC	20080810010	<u>743770</u>	lawrance college gora gali murree	BISE-R	awalpindi	1018	1100	a+	2022	2022-10 20
MDCAT	3740165799509	<u>2203998</u>	l pmc		n Medical ission (PMC)	186	200	a+	2022	2022-1 13

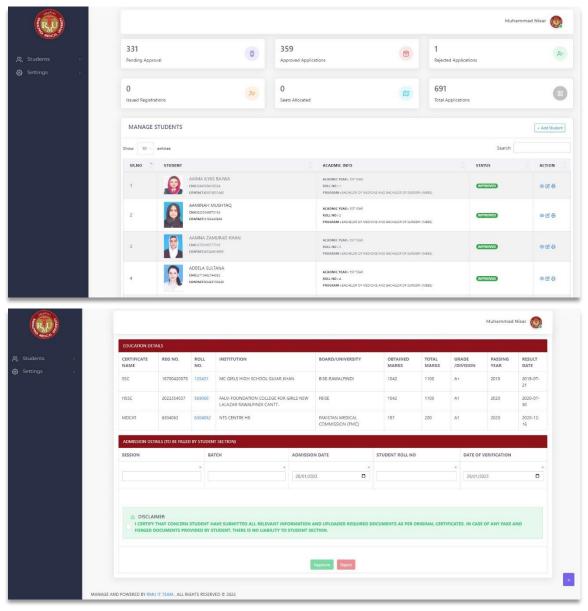
Employee Registration

M			
Acos N	EMPLOYEE REGIST	RATION DETAILS	
ull Name: DR. ARSALAN MAI INIC: 3740503752023 Aobile: 0334391629 Ilood Group: A+ Lesume: View PERSONAL DETAILS	NZOOR MUGHAL Employee (Departmen Designation Pay Scale:		
Full Name:	DR. ARSALAN MANZOOR MUGHAL	Father/Guardian Name:	Manzpor Ahmad
CNIC:	3740503752023	CNIC Valid upto:	19 Oct, 2023
Passport No:	AC0942002	Passport Valid upto:	2015-06-03
Address Present/Postal:	House no 288-H, St 14, Chaklala Scheme 3, Rawalpindi	Address Permanent:	House no 12-D/2, 7th Road Satellit Town, Rawalpindi
Date of Birth:	28 Dec, 1983	Nationality:	Pakistan
Dual Nationality:	No	Country of Dual Nationality:	
Marital Status:	Married	Gender:	Male
Languages:	URDU, ENGLISH	Blood Group:	A+
Domicile Province:	Punjab	Domicile District:	Rawalpindi
Mobile:	0334391629	Telephone/ landline No:	
Religion:	Islam	Email:	arsalanmanzoor@gmail.com
Employee Code:	0289	NTN No:	3428447-8
SPOUSE DETAILS			
Name:	Fatima Ali Raza Mughal	CNIC:	
Mobile No:	03403076497	Occupation:	Doctor- Department of Community Medicine
Organization:	Foundation University Medical College	8	
BANK DETAILS			
Bank Name	UBL	Branch and Code	DHA-2 Islamabad, 0109
Account Title	PK24UNIL09000242988461	Account No	Arsalan Manzoor Mughal
EMPLOYMENT DETAILS			
Employment Type:	Gazetted	Employment Mode:	Regular
Employment Category:	Faculty	Post Sanctioned by:	Govt. of Punjab
Appointment Quota:	Open	Date of First Entry into Govt. Service on Regular Basis	2018-12-27
Designation:	Assistant Professor	Date of Joining on Current Designation:	27 Dec, 2018

E-Cards Management

					Search:		RAWALPINDI MEDICAL UNIVERSITY Tipu Raad, Rawaipindi Telephone: +92:51-9300504 (-92:51-920755) Email:info@rmur.edu.pk
	ROLL	STUDENT	ACADEMIC YEAR INFO	CARD TYPE	ALREADY PRINTED	LAST PRINTED	SHAKEEL AHMAD S/O GULA JAN Roll No:
ø	30	AQSA MEHFOOZ CNIC:374(55850)978 Contact:3325382364	Acdamic Year : 1st Year Bach: 50 Program : Bachelor of Medicine and Bachelor of Surgery-(MBES)	Non Boarder	Yes	20 Feb, 2023 01:42 am	Address BML 50/05 HOSTEL NO.1 TIPU ROAD EXMALTING Tet: 0330205155 Mobile: 03309285155
8	1	AAIRA AMIN CNIC:3520286786132 Contact:03129929530	Acdamic Year : 1st Year Batch: 50 Program : Bachelor of Medicine and Bachelor of Surgery-(WBS)	Non Boarder	Yes	18 Feb, 2023 09:03 am	((R))) RAWALPINDI MEDICAL UNIVERSITY
S	254	SHAHZEEN YOUSAF CNIC6110181226038 Contact:335556609200	Acdamic Year: 1st Year Bach: 50 Program: Bachelor of Medicine and Bachelor of Surgery-(WBBS)	Non Boarder	Yes	07 Mar, 2023 10:31 am	Telephone: +92-51-3303050-4 (+92-51-9290755) Email:Init@immu.edu.pk DEEMA ABDUIRAMMARY VOUNIS MARAR D/O ABDUI RehMAN MATAR RehMAN MATAR Both Ne: 271 Batch No: 421
Ø	63	EMAN FATIMA MALI CNIC:3710557544146 Contact:3229345979	K Acdamic Year : 1st Near Batch : 50 Program : Bachelor of Medicine and Bachelor of Surgery-(MBBS)	Non Boarder	Yes	18 Feb, 2023 09:03 am	Session: _2021-22_ Valid Under _2021-22_ Address: Grits. Hostel: Revealed: Medical. University Banal Block Remaining Tet335517830_ Mobile:03517830_ BG017C00

Admission



Verification and Registration

ow 10 \$	entries								Se	arch:		
SR.NO	STUDENT			ACADMIC INFO					STATUS		ACTION	
1		AQSA MEI CNIC:3740558 Contact:3325	1509978	Acadmic Year : 1st Year Roll No : 30 Program : Bachelor of Medicine	and Bachelor of Sur	gery-(MBBS)			Verified		₽ @	
										Prev	vious 🚹 M	Jext
RU		f		I MEDICAL UNI				PINDI	Form No: Print Date		g, 2023	
Menc P	/			STUDENT REGISTRA	TION FOR	M						
Registratic No.: Name: Roll No: Seat Type: Program Enrolled:	AQSA 30 OPEN Bachel		/IBBS-30 ine and Bachelor of	Institute: Father's Name: Mobile No: Admission Date Session:	Rawalpin CH. SHAE 3325282: 2023-01- 2022-23	CEEL AHR		ge				
EDUCATIO	N DETAILS											
Certificate	Reg No.	Roll No.	Institution	Board/University	Marks	Grade	Year	Status	Ref. Doc			
SSC	2028552002	177205	502 Model College for Girls	FBISE	1077/1100	A+	2020	Netfred	VERIFIED SSC (pert ATT	ACHED AS PE	R
HSSC	2028552002	567058	Army Public College , Fort Road, Rawalpindi	FBISE	1065/1100	A+	2022	Verified	VERIFIED ISSC ROLL NO	CERT A	TTACHED AS	PER
MDCAT	37405-	2204637	PMC	Pakistan Medical Commission (PMC)	195/200	A+	2022	Neitfied	https://pmdc.p	ik/result,	/MDCATResu	it A

Academic Module

ANAGE MODU	LES				+ + Add Modu
w 10 v entries				Se	earch:
SR.NO 💍 N	AME BLOCK	STARTDATE	ENDDATE WEEKS	YEAR	ACTIONS
1 H	si, iepatobiliary IND iarasitology	2023-01-01	2023-02-04 5	3rd Year	• 6 5
wing 1 to 1 of 1 entries		C			(Previous 1) Next
st Year 2nd Year	r 3rd Year 4th Year	Final Year			
Found	ation Module	Blood	and Immunity	Musculoskeleta	l Module II (MSK-II)
Start Date	13 Feb, 2023	Start Date	24 Jul, 2023	Start Date	15 May, 2023
End Date	26 Mar, 2023	End Date	26 Aug, 2023	End Date	24 Jun, 2023
Academic Year	1st Year	Academic Year	1st Year	Academic Year	1st Year
Create	Timetable	Create	ssions	Create	Timetable
Musc	uloskeletal - I	Cardiov	ascular module		
Start Date	27 Mar, 2023	Start Date	28 Aug, 2023		
	13 May, 2023	End Date	30 Sep, 2023		
End Date					

Schedule and Timetable

10 🗢	entries				Searc	h:
R.NO	ТҮРЕ	DATE	START/END	SUBJECT	STATUS	ACTIONS
	Interactive Lecture	13 Feb, 2023	08:00:00 / 11:00:00	Office of Vice Chancellor	Approved	0
	Interactive Lecture	13 Feb, 2023	11:00:00 / 11:40:00	Anatomy	Approved	0
	Interactive Lecture	13 Feb, 2023	11:40:00 / 12:20:00	Physiology	Approved	0
	Interactive Lecture	13 Feb, 2023	12:20:00 / 14:00:00	Anatomy	Approved	0
	LGIS	14 Feb, 2023	08:00:00 / 09:00:00	Psychiatry	Approved	0
	LGIS	14 Feb, 2023	08:00:00 / 09:00:00	Psychiatry	Approved	0
	LGIS	14 Feb, 2023	09:00:00 / 10:00:00	Pharmacology	Approved	۲
	LGIS	14 Feb, 2023	09:00:00 / 10:00:00	Pathology	Approved	0
	LGIS	14 Feb, 2023	10:00:00 / 11:00:00	Community Medicine	Approved	0
D	LGIS	14 Feb, 2023	10:00:00 / 11:00:00	Community Medicine	Approved	۲

FILTER ≡ < > August 2023 Month Week Day List View All Sessions Z Exams Dates Sun Mon Wed Thu Fri Sat Tue Vacations Holidays 8a SGD/Dissection | Do
 8a SGD/Dissection | Anl 8a SGD/Dissection | Joi
 8a SGD/Dissection | Dis 8a SGD/Dissection | Sol 8a Interactive Lecture [Extra-Cirricular Activities • 10a Interactive Lecture | • 10a Interactive Lecture | 10a Interactive Lecture |
 0 10a PBL | Anemia 8a LGIS | Measles / Mur • 8a LGIS | Acute Diarrho +13 more +11 more +12 more +13 more +12 more +14 more 8a SGD/Dissection | Sol
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 Ola Interactive Lecture |
 Ola Interactive Lecture | • 10a Interactive Lecture | +12 more +13 more +7 more +9 more +6 more +8 more 15 15 14 10 10a Interactive Lecture |
 8a SGD/Dissection | Rat 8a Interactive Lecture | 8a Biomedical Activity | 8a SGD/Dissection | Dis • 9a Interactive Lecture | • 9a Interactive Lecture | • 10a Interactive Lecture | +10 more +12 more +8 more +9 more +6 more 29 30 8a SGD/Dissection | The
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 8a LGIS | Muashrat 11 8a SGD/Dissection | Per 12:20p Practical | exami
 9a LGIS | Introduction a
 8a LGIS | Introduction a
 9a LGIS | Heart Sounds
 8a LGIS | Mumaamlat 1 • 10a LGIS | Chest radiogr +4 more +14 more +7 more +9 more +4 more +7 more 8a SGD/Dissection | He:
 8a SGD/Dissection | He:
 98a SGD/Disse • 8a LGIS | Stigma to men 10a LGIS | Development
 0 10a LGIS | Edema
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 0 8a LGIS | Mumaamlat 1 • 9a LGIS | Mutarotations +7 more +7 more +5 more +5 more +6 more +7 more

Attendance

		DR. ARSALAN MANZ	ZOOR MUGHAL
ATTENDANCE SHEET			Mark As Attend
ashboards Department	NAME	ROLL NO	ATTENDANCE
ettings > Anatomy	ABEERA ASAD	2	
Teacher	ADDAN FATIMA	4	
DR. ARSALAN MANZOOR MUGHAL	AENA REHMAN	6	
Session Type	AIMA ALI	8	
LGIS	AIMAN SARFRAZ	10	
Session Date	AIMEN JAMIL	12	
17 May, 2023			
Batch	ALEESHA ZAFAR	14	
Even	ALISHA ZEESHAN	16	0
Торіс	Alishba Sikandar	18	
Muscle I	AMAL ABBAS	20	
· · · · · · · · · · · · · · · · · · ·	AMNA	22	
Total Students In Session : 180	AMNA IDREES	24	
Total Present : 178	Amna Zafar	26	
Total Absent : 2	ANOSHIA SEHAR	28	

Assessment

Assessme	ents						+ Add New
Show 10 ~	entries	Search:					
SR.NO 🖔	ТҮРЕ	MODULE	DEPARTMENT	DATE	FOCAL PERSON	STATUS	ACTIONS
1	Module	Foundation Module	Anatomy	15 Jan, 2024	PROF. DR. AYESHA YOUSAF	Final Approved Result	≔ © Ĉ ⊄ ∎
2	Clinical	Foundation Module	Medical Education	15 Jan, 2024	PROF. DR. IFRA SAEED	Final Approved Result	≔ © 🗹 🛍
3	Clinical	Musculoskeletal - I	Medical Education	15 Jan, 2024	PROF. DR. IFRA SAEED	Final Approved Result	≔ © ໕ ₪
4	Clinical	Musculoskeletal Module II (MSK-II)	Medical Education	15 Jan, 2024	PROF. DR. IFRA SAEED	Active	≔ © Ľ ů

Module Result: 1st Year | Foundation Module

					MARKS DIST	RIBUTION		
SR #	ROLL NO	STUDENT	MCQS (20)	SEQS (20)	THEORY TOTAL (40)	VIVA VOCE (60)	LMS (10)	GRAND TOTAL
1	1	AAIRA AMIN	16	12	28	37	7	72
2	2	ABEERA ASAD	14	17	31	40	7	78
3	3	ADAN FARRUKH	15	15	30	43	6	79
4	4	ADDAN FATIMA	16	16	32	46	7	85
5	5	ADDEN FATIMA	14	14	28	30	7	65

Examination

ADD NEW EXAM					
Program	Choose Exam	Start Time		End Time	
Select	Select	:	O	:	Q
Study Year	Exam Category	Exam Title			
Select	Select				
Session	Exam Date	Exam Module			
E.g. 20XX-XX	ddyyyy	Select			
					Submit

MANAGE EXAMS

Show 10 $^{\prime\prime}$ er	tries					Search:	
SR.NO		EXAM CAT	PROGRAM/SESSION	STUDY YEAR	EXAM DATE	TIMINGS	ACTIONS
1	Physiology Theory Examination Musculoskeletal Module II (MSK-II)	Theory	MBBS-[2022-2023]	First Proff	2023-06-21	08:30:00 till 09:30:00	๏๕ ฃ
2	Biochemistry Theory Examination and Allied Musculoskeletal Module II (MSK-II)	Theory	MBBS-[2022-2023]	First Proff	2023-06-22	08:30:00 till 09:30:00	๏๔ ฃ

Reporting

STUDENT	ACADEMIC YEAR INFO	ROLL #	ATTENDED SESSIONS	TOTAL PRESENT	TOTAL ABSENT	ATTENDANCE AVG.
Aamina Sohail CNIC:3820165592746 Contact:03155606510	Acdamic Year : 1st Year Batch : 51 Program : Bachelor of Medicine and Bachelor of Surgery	1	284	266	18	93.66%
Aamna Babar Khan CNIC:3330269267272 Contact:03319977882	Acdamic Year : 1st Year Batch : 51 Program : Bachelor of Medicine and Bachelor of Surgery	2	288	274	14	95.14%
Aatika Ijaz CNIC:3720401581446 Contact:03184746338	Acdamic Year : 1st Year Batch : 51 Program : Bachelor of Medicine and Bachelor of Surgery	3	284	242	42	85.21%
Aatika maryum CNIC:374052958970 Contact:03330769486	Acdamic Year : 1st Year Batch : 51 Program : Bachelor of Medicine and Bachelor of Surgery	4	288	279	9	96.88%
Abeeha Waseem CNIC:6110105485844 Contact:03355157711	Acdamic Year : 1st Year Batch : 51 Program : Bachelor of Medicine and Bachelor of Surgery	5	284	270	14	95.07%

SUMMARY OF SYSTEM IMPLEMENTATION AND IMPACT ANALYSIS					
System Title	Campus Management System (CMS) Undergraduate				
Implementation Status	Successful				
Implementation Date	December 01, 2021				
Proposed by	RMU IT Team				
Application Specification Areas	Software Engineering, SDLC, Programming Logic, Coding, Application Framework, RDBMS, Software Development.				
Supervised by	Hafiz Shahid Rasool (Director IT)				
Target Users	Faculty, Students, Module Supervisors, Admission, HR, Administration				
Impact Area	Public Sector University (Government of Pakistan)				
Current Status	Implemented				
Executing Department	Department of Information Technology				
Impact Analysis & Conclusion	The implementation of a campus management system at Rawalpindi Medical University (RMU) has automated key academic processes from admission to examination, significantly improving data accuracy and yielding a positive environmental impact. Since its deployment in 01-12-2021, the system has offered automated solutions for faculty and students to monitor their activities through a user-friendly dashboard. With its robust architecture and strong security measures, the system ensures a reliable and efficient management of academic processes, contributing to the smooth functioning of the university. A CMS can transform the management of campus operations, leading to a more effective and engaging environment for students, faculty, and staff.				