

MINUTES OF MEETING OF ACADEMIC COUNCIL HELD ON
29 NOVEMBER 2021

General

Academic Council meeting of Jaypee University of Information Technology, Waknaghat was held on 29 November, 2021 at 11.00 a.m. in online mode through Google Meet. Prof. S. C. Saxena extended welcome to Prof. Rajendra Kumar Sharma, Vice Chancellor, JUIT for taking over the responsibility of Chairman – Academic Council.

The Chairman, Academic Council extended warm welcome to all the members present in the meeting and expressed thanks to outstation members Sh. Sunil Sharma, Prof. S.C. Saxena, Dr. Satish Kumar, Prof. Lalit Kumar Awasthi and Lt. Gen Ravindra Mohan Chadha, PVSM, AVSM (Retd.) for their presence in the meeting.

He also appreciated the contributions made by Prof. Vinod Kumar, Advisor, JUIT, the outgoing members of the Council, and welcomed the newly inducted members Prof. Rajiv Ganguly – Professor, Civil Engineering Department and Prof. Vivek Sehgal – Head, Computer Science & Engineering Department.

Attendance

The following members were present:-

Chairman

Prof. Rajendra Kumar Sharma Vice Chancellor, JUIT, Waknaghat

Head of the Other Institution of the Trust

Prof. S.C. Saxena Pro-Chancellor, JIIT, Noida

Distinguished Academician nominated by the Pro-Chancellor

Dr. Satish Kumar Ex-Director, NIT Kurukshetra
Prof. Lalit Kumar Awasthi Professor, NIT, Hamirpur, Ex-Director, NIT-Jalandhar

Industry Professional nominated by the Pro-Chancellor

Sh. Sunil Sharma Executive Vice Chairman, Jaiprakash Associates Ltd.
Lt Gen Ravindra Mohan Chadha, Director, Jaiprakash Power Ventures Ltd.
PVSM, AVSM (Retd.)

Special Invitee

Prof. Vinod Kumar Advisor, JUIT, Waknaghat

The Dean of all Faculty of the University

Prof. Ashok Kumar Gupta Dean (Academics & Research)

Heads of the Departments / Centres of the University

Prof. Karanjeet Singh HoD Mathematics
Prof. P. B. Barman HoD PMS
Prof. Sudhir Kumar HoD BT & BI
Prof. Ashish Kumar HoD CE
Prof. Vivek Sehgal HoD CSE/IT
Dr. Rajiv Kumar HoD ECE
Dr. Anupriya Kaur HoD HSS

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY

(Established under HP Legislative Assembly Act No. 14 of 2002 and UGC Section 2(f) Approved)

Professors other than Heads of Departments

Prof. Sunil Kumar Khah Deptt. of PMS
Prof. Rajiv Ganguly Deptt. Of CE

Non-Member Secretary

Maj Gen Rakesh Bassi, SM (Retd.) Registrar and Dean of Students

Leave of Absence, if any

All members were present.

Agenda Items

ITEM NO.1/2021 CONFIRMATION OF MINUTES OF LAST MEETING OF THE ACADEMIC COUNCIL -2

Minutes of the meeting of the last ACM held on 28 July 2021 were forwarded to the members and no comments were received. The minutes of the last ACM as per **Annexure – 1** were confirmed.

ITEM NO. 2/2021-2 ACTION TAKEN REPORT ON THE MINUTES OF THE MEETING OF THE LAST ACADEMIC COUNCIL HELD ON 28 JULY 2021

The actions taken on the items approved in the last ACM dated 28 July 2021 were noted by the members.

ITEM NO. 3/2021-2 APPROVAL FOR CHANGE IN ELIGIBILITY CRITERIA FOR ADMISSION TO BTECH – 2ND YEAR THROUGH LATERAL ENTRY (DIPLOMA HOLDERS)

Students having 03 years Diploma in the same branch or relevant branches of Engineering are offered a seat to BTech – 2nd Year program through lateral entry in the same specialization. However, AICTE allows lateral entry admission to BTech – 2nd year program from multidisciplinary specializations. The relevant extract of AICTE Handbook – 2021-22 is attached at **Annexure – 2**.

The item was placed before the members of the Academic Council to broaden our pool of candidates by modifications in the entry level eligibility criteria as per AICTE guidelines as under:-

Admission Branch	Existing Eligibility	Proposed Eligibility
BTech – CSE BTech - IT	Diploma in CSE / IT	Diploma in CSE / IT or in a relevant discipline.
BTech – ECE	Diploma in ECE / EE	Diploma in ECE / EE or in a relevant discipline.
BTech – CE	Diploma in CE	Diploma in Civil Engg. or in a relevant discipline.
BTech – ECM	-	Diploma in ECE / IT / CSE / EE or in a relevant discipline

Council was of the opinion that Chairman Academic Council can constitute a committee every year before start of the admission process for finalizing entry level qualifications for admissions during that particular Academic Year other than the above approved eligibility criteria.

Academic Council considered the proposed modifications in the entry level eligibility criteria and approved the same.

ITEM NO. 4/2021-2 APPROVAL FOR CALCULATING SGPA and CGPA UPTO 02 DECIMAL PLACES

SGPA and CGPA is being shown in the Grade-Sheet / Transcript / Provisional Degree Certificate up to 01 Decimal place. The need of awarding SGPA and CGPA up to 02 decimal points was felt as all other Universities / Institutions are awarding SGPA and CGPA up to 02 decimal places. This will also help in deciding the merit of the students in case of a tie while awarding Certification / Medals etc. The item was placed before the members of the council for consideration.

After deliberations on the item, members unanimously agreed to the proposal and approved the item.

ITEM NO. 5/2021-2 APPROVAL FOR LIST OF EXPERTS FOR CONDUCTING INTERVIEWS OF THE FACULTY POSITIONS OF VARIOUS DEPARTMENTS

Lists of Experts for conducting interviews for the faculty positions of various departments were placed before the Academic Council for its approval.

The proposed list of subject experts for departments mentioned below are as per Annexure mentioned against each department:-

Deptt. of BT/BI – Annexure – 3
Deptt. of CSE / IT – Annexure – 4
Deptt. of PMS – Annexure – 5
Deptt. of HSS – Annexure – 6

The Academic Council considered the proposed list of the subject experts and approved the same.

ITEM NO. 6/2021-2 APPROVAL FOR DEDICATED ADMISSION CELL MANNED BY DEDICATED STAFF

Considering round the year Admission activities, the need for manning of the admission cell round the year by dedicated staff was felt in order to make the Admission Cell more responsive to candidates as in turn help in achieving targeted admissions. The dedicated team will plan the admission activities like advertisement, participation in Education Expos, conduct of School / Polytechnic outreach programs and attending admission related queries of the admission aspirants.

Accordingly, manning of Admission Cell by two dedicated staff was proposed for the approval of the Academic Council.

Members of the Council were of the opinion that this proposal was an administrative

matter and as such approval be accorded by the Vice-Chancellor after consent of appropriate authority.

ITEM NO. 7/2021-2 NOTING OF THE MINUTES OF MEETING OF BOARD OF STUDIES (BoS) OF VARIOUS DEPARTMENTS

7.1 Academic Council considered the Minutes of Board of Studies (BoS) of Department of Biotechnology and Bioinformatics held on 17.11.2021 as given in **Annexure – 7** and noted the contents.

7.2 Academic Council considered the Minutes of Board of Studies (BoS) of Department of Computer Science & Engineering held on 20.11.2021 as given in **Annexure – 8** and noted the contents.

7.3 Academic Council considered the Minutes of Board of Studies (BoS) of Department of Electronics & Communication Engineering held on 18.11.2021 as given in **Annexure – 9** and noted the contents.

Prof. S.C. Saxena suggested some amendments in the Annexure – 9 - Item No. 02 “To consider revision in the Course Structure of ECE as Minor Program”.

Annexure – I “Slight Modification in Minor Degree in ECE” – Prof. Saxena suggested that the proposal restricted the choice to students in the Minor specialization and more flexibility needs to be given to the students for earning additional 20 credits towards minor specialization. The item needs to be reviewed and decided for further deliberations. The item was deferred for next council meeting.

7.4 Academic Council considered the Minutes of Board of Studies (BoS) of Department of Civil Engineering held on 16.11.2021 as given in **Annexure – 10** and noted the contents.

Prof. S. C. Saxena gave his observations on Agenda Item 2 of the Annexure – 10 and emphasised that the basic structure of the program should not be changed but courses as per the need of the specialization be included. The item was deferred for next council meeting.

Chairman – Academic Council brought forward the need for Internship Embedded Degree Program and the existing system of internship by the students in their final year who have been selected in some companies and are attending condensed semester due to internship in the selected company. The pool of such students should be increased so that students get opportunity of internship in the chosen area / company.

Prof. Saxena advised that internship embedded degree programs have various implications and this should be well planned, monitored and mentored way before consideration.

7.5 Academic Council considered the Minutes of Board of Studies (BoS) of Department of Humanities & Social Sciences held on 20.11.2021 as given in **Annexure – 11** and noted the contents.

ITEM NO. 8/2021-2 APPROVAL FOR INTRODUCTION OF NEW PROGRAMMES / COURSES OF VARIOUS DEPARTMENTS

8.1 APPROVAL FOR INTRODUCTION OF NEW UNDERGRADUATE PROGRAMME – BTECH (CIVIL ENGINEERING WITH COMPUTER APPLICATION)

Considering the rapid advances in the field of Computer Science, the present practice of Civil Engineering applications in real life include Design of Smart Highway System, Sensor based technology for monitoring of pollution, Cyber Security of Buildings, Use of Data analysis techniques for feasibility of construction projects, Use of AI systems for predicting soil and rock property, bearing capacity and slope stability determination. The need for incorporating latest computer based applications with Civil Engineering is in vogue. The proposed nomenclature of the Program is approved by the AICTE and included in the AICTE Handbook – 2021-22 (Copy of the relevant page of AICTE Handbook is at **Annexure – 12**).

Accordingly, Department of Civil Engineering proposed introduction of New Undergraduate BTech in Civil Engineering with Computer Application with a sanctioned intake of 30 seats to the program from the Academic Session 2022-23 for approval of the Academic Council. The proposed Course Scheme of the Program is as per **Annexure – 13**.

The proposal was well appreciated but Prof. S.C. Saxena suggested that before introduction of a new program, there is a need to work on the demand of the program, admission status in other institutions and placement status of the program.

Prof. Satish Kumar was in support of the concept of Computer Application embedded degree program with Civil Engineering and suggested for inclusion of courses related to Autocad, Finite Element Methods, Building Design, Structural Analysis of the Buildings, Roads and Bridges. He requested Prof. Ashok Kumar Gupta to analyse above factors before the introduction of a new program. It was decided that a detailed analysis of above factors be sent to Prof. Saxena for review at his level.

The item was deferred and to be considered in the next meeting of the Academic Council.

8.2 APPROVAL FOR INTRODUCTION OF NEW PROFESSIONAL ELECTIVE – DEPTT. OF COMPUTER SC & ENGG. AND INFORMATION TECHNOLOGY

Department of Computer Science & Engineering and Information Technology through its BoS held on 20.11.2021 recommended for introduction of new Professional Elective as under:-

Professional Elective – VI	Machine Learning Engineering for Production	3-0-0
----------------------------	---	-------

The approved course content is as per **Annexure – 14**. The above change is proposed to be effective from 2021-22 admission batch.

Members considered the recommendation of the departmental BoS and approved introduction of proposed Professional Elective – VI.

ITEM NO. 9/2021-2 APPROVAL FOR CHANGE/MODIFICATION IN SCHEME OF COURSES OF VARIOUS DEPARTMENTS

9.1 APPROVAL FOR MODIFICATION IN COURSE SCHEME OF BTECH (CIVIL ENGINEERING)

Industrial Training enables the students to work on real life projects, increase familiarity with current market trends, improve their existing technical skills and learn in-demand technical skills. Industrial Training provides an adequate platform to the students for experiencing corporate work culture, teachings about professional ethics and also improves communication and interpersonal skills.

Considering all above, Department of Civil Engineering through its BoS held on 16.11.2021 recommended for modification in Course Scheme of BTech (Civil Engineering) Program for approval of the Academic Council. The modified Course Scheme of the Program is as per **Annexure – 15**.

The item was considered by the Academic Council and it was decided that this proposal required further deliberations as it involves major structural changes in the Course Structure.

The item was deferred and can be included in the next meeting of the Academic Council with deliberated facts and figures.

9.2 APPROVAL FOR MODIFICATION IN COURSE SCHEME OF BTECH (BIOINFORMATICS)

Considering the demand of computer related streams and thereby employability of the students, Department of Biotechnology & Bioinformatics proposed for modification of Course Scheme of BTech (Bioinformatics) program by including courses on Information Science, Data Science, Artificial Intelligence, Machine Learning. The item was placed for getting in principal approval of the Academic Council before restructure of the Course Scheme of the program.

Academic Council considered the item and Prof. S.C. Saxena suggested that BTech Bioinformatics Program should have at least 50% computer oriented courses in the Course Scheme.

Council agreed for restructuring of the Course Scheme of BTech Bioinformatics and was of the opinion that BTech Bioinformatics program should be more attractive than BTech Biotechnology program.

9.3 APPROVAL FOR MODIFICATION IN COURSE SCHEME OF BTECH – ELECTRONICS & COMM. ENGINEERING - MINOR PROGRAM

Departmental BoS of Electronics & Communication Engineering during the meeting held on 18.11.2021 recommended for modification in the Course Scheme of BTech ECE Minor Program. The proposed modification is as per **Annexure – 16**.

The item was considered and it was decided to consider the item in next meeting of the Council after intense deliberations on the item.

9.4 APPROVAL FOR CHANGE IN CREDITS OF PROFESSIONAL ELECTIVES / INTRODUCTION OF TWO NEW LAB COURSES – DEPTT. OF ELECTRONICS & COMMUNICATION ENGG

Departmental BoS of Electronics & Communication Engineering during the meeting held on 18.11.2021 recommended for introduction of two new Lab Courses for Professional Elective Courses. The proposed modification in Professional Electives are as under:-

Optical Communication System	(02 Credits)	(2-0-0) Revised Credits
Optical Communication System Lab	(01 Credit)	(0-0-2) New to be introduced
Optical Networks	(02 Credits)	(2-0-0) Revised Credits
Optical Networks Lab	(01 Credit)	(0-0-2) New to be introduced

The approved course contents of the courses are as per **Annexure – 17**. The above changes are proposed to be effective from 2021-22 admission batch.

The item was considered and council approved above modification in the Professional Electives with inclusion of two new labs.

ITEM NO. 10/2021-2 APPROVAL FOR ADDITION OF OPEN ELECTIVES BY VARIOUS DEPARTMENTS

Various Departments at JUIT proposed for offering new State-of-Art Open Electives. The details of proposed Open Electives are as under:-

Deptt.	Open Elective	Credit	Course Contents
CE	Remote Sensing and Geomatics	3	As per Annexure - 18
	Introduction of Sustainable Engineering and Energy Efficient Buildings	3	
ECE	Digital Image Processing using Python	3	As per Annexure - 19
	Renewable Energy Systems	3	
	Biomedical Imaging System	3	
CSE / IT	Digital Twin – Fundamental Concepts of Application in Advanced Manufacturing	3	As per Annexure - 20
	Affective Computing	3	
BT/BI	Human Disease and Diagnostics	3	As per Annexure - 21
	Computational Biology For Engineers	3	
PMS	Computational Nanostructures & Nanotechnology	3	To be developed.
	Bio-Sensors	3	
MATHS	Soft Computing and Optimization Algorithms	3	To be developed.
	Linear Algebra for Data Science and Machine Learning	3	
HSS	Digital Product Management	3	To be developed.
	Investment Analysis and Portfolio Management	3	

Prof. S.C. Saxena suggested that Electives are optional courses and these should not have a pre-requisite course. The approved course contents of the courses are as per Annexure mentioned against each.

The item was approved with a modification of removing the pre-requisite criterion.

ITEM NO. SEAT RATIFICATION FOR ACADEMIC SESSION 2022-23
11/2021-2

Sanctioned strength for various courses for the Academic Session – 2022-23 was proposed for approval of the Academic Council as under:-

Undergraduate Programs (BTech)	
Program	Approved Intake for AS-2022-23
Computer Science & Engineering	360
Information Technology	60
Civil Engineering	30
Civil Engineering with Computer Application	30
Biotechnology	30
Bioinformatics	30
Electronics & Communication Engineering	30
Electronics & Computer Engineering	30
Total	600

Post Graduate Programs (MSc)	
Program	Approved Intake for AS-2022-23
Biotechnology	30
Microbiology	30
Total	60

Post Graduate Programs (MTech)	
Program	Approved Intake for AS-2022-23
Computer Science & Engineering (CSE)	18
CSE with specialisation in Information Security	
CSE with specialisation in Data Science	
Electronics & Communication Engineering (ECE)	18
ECE with specialisation in Internet of Things	
Biotechnology	18
Construction Management	18
Structural Engineering	
Environmental Engineering	
Total	72

Note: PG Program (MTech) seat intake for each department will be 18 seats. A program will run with 5 or more students only.

Doctoral Programs (PhD)	
Program	Approved Intake for AS-2022-23
Computer Science & Engineering	Seats subject to availability of Supervisor in each department.
Civil Engineering	
Biotechnology	
Bioinformatics	
Electronics & Communication Engg	
Mathematics	
Physics & Materials Science	
Humanities & Social Sciences	

After deliberations, Academic Council approved above sanctioned intake for the Academic Session 2022-23.

ITEM NO. REPORTING ITEMS.
12/2021-2

The following Reporting Items were noted by the Academic Council:-

12.1 APPROVAL FOR CONDUCT OF T3 EXAM (FOR STUDENTS OTHER THAN NEW ADMISSIONS) / END TERM EXAM (FOR NEWLY ADMITTED STUDENTS) IN PAPER / PEN MODE

Chairman Academic Council apprised the members about the decision taken for conduct of T3 Final Exam (for students other than new admission) and End Term Exam (for newly admitted students) in Paper / Pen Mode. Schedule of Examination is as under:-

2 nd Year Students	-	07-11 December 2021
3 rd Year Students	-	14-20 December 2021
4 th Year Students	-	23-27 December 2021
1 st Year Students	-	02-08 February 2022

Copy of the approval is as per **Annexure – 22**.

12.2 CHANGE IN EVALUATION SCHEME OF NEWLY ADMITTED FIRST SEMESTER STUDENTS OF BTECH, MTECH, MSC & PHD – ADMITTED IN ACADEMIC SESSION 2021-22

Chairman Academic Council apprised the members about the change in Evaluation Scheme of newly admitted First Semester students due to long ongoing admission process for the Academic Year – 2021-22 as admissions are allowed up to 30 November 2021 as per revised admission calendar announced by AICTE dated 25.10.2021. Copy of the same is as per **Annexure - 23**. The approved evaluation scheme is as under:-

Theory Courses:

Mid-Term Examination	-	30 Marks
End-Term Examination	-	45 Marks
Teacher's Assessment	-	25 Marks

Practical Courses:

Mid-Term Viva-Voce Examination (P1)	-	20 Marks
End-Term Viva-Voce Examination (P2)	-	20 Marks
Teacher's Assessment (P3)	-	60 Marks

Copy of the approval is as per **Annexure – 24**.

Prof. Saxena suggested that this practice of change in evaluation system should not be repeated as regulatory bodies are stressing on continuous evaluation process.

12.3 EARNING / TRANSFER OF CREDITS – UNIVERSITY OF FLORIDA (UFL), USA

Members were apprised of the decision taken for earning / transfer of credits for students attending University of Florida (UFL), USA in the last semester as communicated by Dr. Vikas Saxena of JIIT Noida vide e-mail dated 10.09.2021 (Copy placed at **Annexure – 25**). As per the decision, the following has been implemented:-

1. Students registering for 8th semester studies at UFL will take up total 12 credits irrespective of branch specialization and the same will be transferred / equated to the 8th semester credit requirement of the specialized branch i.e. CSE/IT/ECE.
2. The balance credits of 8th Semester, if any irrespective to the specialization will be added to the Projects credits of the specific specialization.

Copy of the approval by Chairman – Academic Council is as per **Annexure – 26**.

12.4 DEGREE FORMAT – MSC (BIOTECHNOLOGY) PROGRAM

Members were apprised of the approved Degree format for MSc (Biotechnology) Program. Copy of the approval and approved Degree Format is as per **Annexure – 27**.

12.5 ADMISSION STATUS – ACADEMIC SESSION 2021-22

Members were apprised of the admission status for the Academic Session 2021-22 as on 27.11.2021. The sanctioned strength vis-a-vis admission status as on 27.11.2021 is as under:-

UG Programs (BTech)	Sanctioned	Admitted
Computer Sc. & Engg.	330	309
Information Technology	60	47
Electronics & Comm. Engg.	30	11
Electronics & Computer Engg.	30	16
Civil Engineering	60	12
Biotechnology	30	13
Bioinformatics	30	09
Total	570	417

PG Programs (MTech)	Sanctioned	Admitted
Computer Science & Engineering	12	-
CSE (Information Security)	12	-
CSE (Data Science)	12	-
Electronics & Communication Engineering	12	-
ECE (Internet of Things)	12	06
Biotechnology	12	07
BT (Industrial Biotechnology)	12	-
BT (Medical Biotechnology)	12	-
Civil (Construction Management)	12	-
Civil (Structural Engineering)	12	06
Civil (Environmental Engineering)	12	-
Total	132	19

PG Programs (MSc)	Sanctioned	Admitted
Biotechnology	30	26
Microbiology	30	09
Total	60	35

Doctoral Programs (PhD)	Sanctioned	Admitted
Computer Science & Engineering	-	07
Civil Engineering	-	06
Biotechnology	-	01
Bioinformatics	-	01
Electronics & Communication Engg	-	05
Mathematics	-	01
Physics & Materials Science	-	02
Humanities & Social Sciences	-	02
Total	-	25

12.6 COURSE CONTENTS OF ALREADY APPROVED COURSES OF DEPTT. OF HUMANITIES & SOCIAL SCIENCES

Chairman apprised the members about the approval of Course Contents of following courses of Humanities & Social Sciences through its BoS held on 20.11.2021:-

- Life Skills and Effective Communication (1-0-0) (21B11HS211)
- Life Skills and Effective Communication Lab (0-0-2) (21B17HS271)
- Professional Communication Practice (Audit) (0-0-2)(21B11HS311)

The approved course contents of the courses are as per **Annexure – 28**.

12.7 MODIFICATION IN ALREADY APPROVED COURSE CONTENTS OF COURSES OF DEPTT. OF COMPUTER SC. & ENGINEERING AND INFORMATION TECHNOLOGY

Chairman apprised the members about the approval for modification in Courses Contents of following courses of Computer Science & Engineering and Information Technology through its BoS held on 20.11.2021:-

- Python Programming Lab (18B17CI374)
- Object Oriented Systems and Programming (18B11CI311)

- Object Oriented Systems and Programming Lab (18B17CI371)
- IT Workshop Lab (18B17CI372)

The approved course contents of the courses are as per **Annexure – 29**. The above modification will be effective from the batch admitted in 2021-22.

12.8 MODIFICATION IN COURSE CONTENTS OF ALREADY APPROVED COURSE OF DEPTT. OF ELECTRONICS & COMMUNICATION ENGG

Chairman apprised the members for modifications in course contents of already approved course of Deptt. of Electronics & Communication Engg as approved by the BoS held on 18.11.2021.

The modified course content of **Advance Communication Lab (18B17EC673)** is as per **Annexure – 30**.

12.9 PLACEMENT CALENDAR

Members were apprised of the activities planned for students in their 2nd & 3rd year of studies to improve the campus placements.. Placement Calendar has been designed which includes training on personality development, communication skills & resume building, group discussions, aptitude training and mock interview sessions. The approved Placement Calendar is as per **Annexure – 31**. Lt Gen RM Chadha, PVSM, AVSM (Retd) suggested that he would like to speak to students of the passout batch going for placements. Chairman informed that as and when JUIT opens up for On Campus student activity for final year students in full we shall arrange for the meeting.

ITEM NO. ANY OTHER ITEM WITH THE PERMISSION OF THE CHAIR
13/2021-2

13.1 OPENING OF UNIVERSITY FOR THE NEXT SEMESTER

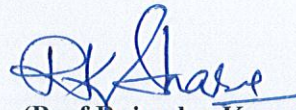
The issue of mode of opening of the University for the next semester was also discussed and Academic Council was of the opinion that JUIT should wait for the Govt directives in this regard especially in view of the new COVID variant “Omicron”.

There being no other point, meeting ended with a vote of thanks to the Chair.



(Maj Gen Rakesh Bassi, SM (Retd))
Registrar & Non-Member Secretary

Confirmed



(Prof Rajendra Kumar Sharma)
Chairman, Academic Council &
Vice-Chancellor, JUIT, W