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College of Technology Kevin Street : Proposal for Site Development

City of Dublin Vocational Education Committee

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College of Technology Kevin Street Dublin 8

City of Dublin Vocational Education Committee



1. Outline of Proposal.
2. The Development and Plans of the College.
3. Analysis of existing and proposed student needs
at the COLLEGE OF TECHNOLOGY,
4. Location of the COLLEGE OF TECHNOLOGY
at KEVIN STREET.

Proposal for Site Development

- Appendix 1: Map of existing roads in recent years.
- Appendix 2: Current occupancy of existing areas - North/South
- Appendix 3: Proposed occupancy of existing areas - North/South.

1. The College of Technology at Kevin Street, opened in 1968, replaced premises which had been in use as Technical Schools since 1887. The new building, on a site of 2 acres and providing almost 200,000 square feet of accommodation, cost £2m. including equipment, thus applying an inflation factor of 6, the replacement cost of the building is now of the order of £12m. Some years ago, an additional site, about 1¼ acres, was acquired at the rear of the College - the Pleasant Street site which has a building potential of 100,000 sq. feet.
2. Student enrolment patterns remained reasonably stable into the early seventies, frequently with small class groups. In 1974/75 there were approximately 500 wholetime students and 600 apprentice electricians. For the session 1980/81 the number of wholetime students registered at the College had increased, roughly, 100% to 985, while the apprentices likewise doubled to 1200. The College responded immediately to the requests in 1979 by the HEA and the Manpower Consultative Committee, with regard to the provision of new courses and/or additional places on existing courses in areas showing evidence of manpower shortages which threaten the Government's job-creation programme. In parallel with this development there is a very extensive and growing use of the College in the provision of evening courses.
3. There are a number of deficiencies and weaknesses in the basic design of the College -
 - (a) Class-room accommodation is low in relation to the available specialist laboratories;
 - (b) Class-rooms are of a uniform size and were originally designed for relatively small class-groups of 20 students, giving rise to inflexibility in time-tabling of classes of varying sizes;
 - (c) Teaching staff office and working accommodation is virtually non-existent.
 - (d) Library and canteen and other facilities are less than adequate for the present student population.
4. The current heavy demand has necessitated the College using sub-standard accommodation on the Pleasant Street site and both staff and students are reluctant to accept these arrangements, and in some cases, have refused to use these rooms.
5. The Committee formally proposes to the Minister that the standard and extent of the accommodation provided at the College be no less than those established and maintained at a level obtaining in similar institutions elsewhere in the state. Further, the Committee propose that the class-room facilities be provided to ensure that more effective use be made of the College's specialist laboratories in line with the Committee's policy of maximising use of expensive resources.
6. The Committee has considered carefully the current enrolment pattern of students which results in an equivalent wholetime student intake of approximately 1400. Having regard to the existing amenities, to the matter of manpower shortages in key areas and to the commitment given to assist in the alleviation of such shortages, and to level of student demand for entry to the courses offered by the College, the Committee proposes that part of its site at Pleasant Street be developed as a

matter of urgency. The first phase of the development would cater for the needs of approximately 700-800 additional equivalent whole-time students and would also have provision for library, canteen, student and staff facilities appropriate to an institute of 2,200 students; it is anticipated that this first phase be completed by 1985.

- 7. The Committee, wishing to fully utilise this valuable centre-city site, proposes that a second phase development on the remainder of the site would be completed by the end of the decade and would make further provision for 800 EWTs.

The Committee further wishes to provide further details of its proposals in a later report of the Committee, which will be submitted to the Council in the next few months. It is anticipated that the Committee will be able to report on the progress of the development in the next few months.

Since the College was founded in 1854, it has been a centre of learning and research in the field of education. It has a long and distinguished history and has produced many of the leading figures in the field of education in Ireland and abroad. The College has a strong tradition of excellence in its teaching and research and has a reputation for its high standards of education.

The Committee is aware of the need to ensure that the College continues to meet the needs of the community and to provide a high quality of education. It is therefore proposing a development which will provide for the needs of the community and will ensure that the College continues to provide a high quality of education.

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1. Historical Development

The Dublin Municipal Technical Schools were established in 1885, following the successful Artisans Exhibition held in that year. The Schools were formally opened in 1887 and occupied the site of the Gleeson Hall in the present College. The schools initially operated under a Board of Governors, coming under the control of the Corporation of the City of Dublin in 1896.

The Technical Schools were set-up to provide evening classes of instruction in a wide range of crafts, arts, science, technical and commercial studies. With the growth in student demand, it was necessary to acquire premises in 18 Rutland (later Parnell) Square in 1905, and to transfer certain activities from Kevin Street. By the end of the decade further premises had been acquired at Bolton Street.

Links between the College and the University of London and its external degree in Science dates back as far as 1907. By the same token, both Kevin Street, and later Bolton Street, enjoyed close contact with personnel from both Universities in Dublin who provided invaluable assistance in realising the potential and dynamic of this new system. By the outbreak of the First World War, the College was deeply involved, not alone in science and engineering, generally, but particularly in the telecommunications field and, for example, in the training of radio officers.

With the commencement of the Apprentice Scholarship Scheme in 1920, wholetime day courses increased significantly and with the establishment of the Irish Free State two years later, responsibility for the Technical Schools passed to the Department of Education. The Minister for Education appointed an advisory committee on technical education in 1926, which in turn led to the Vocational Education Act in 1930. This Act established the City of Dublin Vocational Education Committee with responsibility for the management function of all the Technical Institutions in the City.

In the 1950s, as a result of the relationship with the Universities and the various Professional Institutions, third-level wholetime courses were conducted to the standards set up by these bodies and at this point the student population became significant in size; in the 1960s the technical level courses became an important feature of the Colleges; the evening activities grew in size and diversity; Research and Development work became a feature of the system, particularly in the 1970s.

Today, the total student population of the College is approximately 4000 in attendance on courses organised on a variety of bases.

2. The level of courses offered by the College are:

- (i) Degree level or courses designed to meet, totally or partially, academic requirements for admission to membership of Professional Institutions;
- (ii) Higher Technician or Technician Engineer courses;
- (iii) Intermediate and Junior technician courses;
- (iv) Craft-apprenticeship courses;
- (v) Post-graduate.

3.(a) The College is engaged in the provision of courses in the following areas:

- Engineering: Electrical, Electronic, Telecommunications
- Science: Chemistry, Physics, Biology
- Paramedical Science: Medical Laboratory Sciences, Ophthalmic Optics, Dietetics and Human Nutrition, Nursing, Physiological Measurements
- Languages: French, German, Russian
- Mathematics: Applied Mathematics, Computer Science, Statistics
- Photography: For Technicians and Professional practitioners
- Bakery: Management, apprenticeship
- Electrical Installation: apprenticeship

3.(b) The following wholetime third-level courses are offered by the College:

- (i) Diploma in Applied Science - 4 years
Specialisations: Chemistry and Physics
Physics and Maths
Maths and Chemistry
- (ii) Honours Diploma in Electrical Engineering - 4 years
Specialisations: Communications Engineering
Electrical Power
- (iii) Council for Engineering Institutions. Part (2) Final Exam. - 1 year
(for Technician Engineers, e.g. see (viii) and (ix) below)
- (iv) Diploma (Post-Graduate) for Translators - 2 years
- (v) Diploma in Ophthalmic and Dispensing Optics - 4 years
- (vi) Diploma in Dietetics and Nutrition - 4 years
- (vii) Diploma in Applied Science - 3 years
Specialisations: Physics
Chemistry
Biology
- (viii) Diploma in Electrical Engineering for Technician Engineers - 3 years
- (ix) Diploma in Telecommunications & Electronics for Technician Engineers - 3 years
- (x) Diploma in Radio and Electronics - 3 years
- (xi) Diploma in Computer Science - 3 years
- (xii) Diploma in Bakery Production and Management - 3 years

- 3.(b) (xiii) Certificate in Medical Laboratory Science - 2 years
 (xiv) Certificate in Electronics - 2 years
 (xv) Certificate in Marine Radar Maintenance - 1 year
- 3.(c) The following are the main part-time and evening courses offered by the College:
- (i) Graduateship of the Institute of Physics - 4 years
 (ii) Graduateship of the Institute of Chemistry - 4 years
 (iii) Graduateship of the Institute of Mathematics and its Applications - 4 years
 (iv) Membership of the Institute of Statisticians - 4 years
 (v) Diploma (Post-Graduate) in Food Science - 2 years
 (vi) Diploma in Medical Laboratory Sciences - 2 years
 (vii) Fellowship in Medical Laboratory Sciences - 2 years
 (viii) Associateship of the Institute of Brewing - 2 years
 (ix) Certificate of the Institute of Meat - 2 years
 (x) Part (ii) - Final Examination for Registered Animal Nursing Auxiliaries - 2 years
 (xi) Science for student Nurses - course run in conjunction with College of Commerce and Nursing Schools of Dublin Hospitals - 3 years
 (xii) Certificate/Diploma in Laboratory Sciences - 2/4 years
 (xiii) Certificate in Medical Physics and Physiological measurements - 3 years
 (xiv) Certificate in Professional Photography - 3 years
 (xv) Advanced Certificate in Professional Photography - 2 years
 (xvi) Certificate for Photographic Technicians - 3 years
 (xvii) Diploma (Post-Graduate) in Applied Linguistics - 1 year
 (xviii) Certificate in Translation Techniques - 1 year
 (xix) City & Guilds Certificate in Electrical Engineering Practices (Day release) - 4 years
 (xx) do (Block release) - 2 years
 (xxi) do (evening) - 4 years
 (xxii) Part (1) Examination, Council of Engineering Institutions - 2 years
 (xxiii) Part (2) Final do do - 2 years
 (xxiv) City & Guilds Certificate in Telecommunications - 4 years
 (xxv) City & Guilds Certificate in Radio, T.V. & Electronics, Evening - 4 years
 (xxvi) City & Guilds Certificate in Radio, T.V. Electronics, Mechanics - 4 years
 (xxvii) Post Office Engineering Technicians course - 2 years

3.(d) The following are the main apprenticeship-level courses:

Electrical Installation	(Block release)	4 years
	(Day release)	4/5 years
Electrical Installation and Maintenance	(16 wks/year)	4 years
Various City & Guilds Certificates for electrical apprentices		
Bakery Practice		4 years
Dental Craftsmen		1 year

4. General Structure of the College

The College is organised on a departmental basis -

- (a) Department of Mathematics
- (b) Department of Physics
- (c) Department of Chemistry & Biology
(Recently, the Department of Education gave approval for this Department to be reorganised as
 - (i) Department of Chemistry;
 - (ii) Department of Biology.)
- (d) Department of Electrical Engineering
- (e) Department of Telecommunications Engineering
- (f) Department of Languages and Industrial Studies
- (g) Department of Electrical Installation.

In addition, there are a number of smaller units -

- (i) Bakery;
- (ii) Mechanical Workshops and Drawing Unit;
- (iii) Physical Education Unit;
- (iv) Chaplancy.

5. The College Staff

The College has an allocated full-time teaching staff of 185 in respect of the current session. In addition, there are about 217 part-time teaching staff engaged by the College; several such staff are employed on a half-time basis while most provide several hours teaching per week. The College is anxious to maintain the practice of employing high-quality part-time staff in order to ensure the continued relevance of College Programmes to industrial and professional practices.

The allocated staff structure is as follows

Principal			1
Senior Lecturer	2		2
Senior Lecturer	(1)		7
Lecturer	(2)	structured	10
Lecturer	(2)	teaching	6
Lecturer	(1)	structured	3
Lecturer	(1)	teaching	129
College Teacher			27
plus part-time hours		30,000 (43 W.T.E)	

6. Accommodation

The original College was acquired in 1885, the adjoining Public Library was built on College property in 1894, and the College itself was extended in 1911. The present building was formally opened in 1968 and has an accommodation of 15,159 sq. m. (excluding the swimming pool). In 1967, a site of 47,000 sq.ft. was acquired at the rear of the building - the Pleasants Street site - the premises concerned having been used as a car assembly plant. Recently, at Church Lane, a premises of 14,000 sq. ft. was acquired.

By the early seventies it was obvious that the accommodation provided by the new College was inadequate in a number of respects. While ample provision had been made in relation to laboratories, and workshops, there were obvious deficiencies in areas such as:

- (a) Classrooms - the majority of the 30 classrooms provided were of a standard size and designed and equipped to cater for a maximum of 15 students. While the installation of new fixed furnishings enabled increased utilisation, the low 10' ceiling prevented seating arrangements on a tiered basis, as had been done in Bolton Street and Cathal Brugha Street. The current practice is to use these rooms for 30 students. Use was made of sub-standard accommodation on the Pleasants Street site, of poor quality pre-fabricated units erected in the car-park and of student circulation-space adjacent to the corridors.
- (b) The Library was originally intended to provide for 40 places for students in what is now the College Conference Room. Instead, the bicycle parking area in the basement was converted to a Library of 4000 sq. ft; seating capacity for approximately 100, and this is in use every day up to 9.30p.m. closing time, six days per week.
- (c) The Canteen was designed for 160. It is used by both staff (all staff) and students. Thus, for example, the evening meal sitting caters for

wholetime students	1,000
apprentices	1,200
part-time day and evening students	1,891
wholetime teaching staff	290
administration staff	30
other support staff	40

- (d) Teaching Staff accommodation - All staff have use of a Common Room and female staff have use of a room. Senior staff, such as Heads of Departments, have use of store-spaces converted as offices.

There are no facilities for other staff to work on teaching or research projects or to prepare lectures, etc., Thus, while there is an expectation that teaching staff members should be on the College premises during each working-day so as to engage in some form of development work for the benefit of the institution; in the vast majority of cases, there is no working space available to staff for this kind of activity.

- (e) Administration Staff office requirements and ancillary services

The situation here is that services such as Student Registration and the Examination section, are divided over several locations, whereas, for efficient operation, these sections should be housed in adjacent quarters. The reprographic unit, which is of growing importance, is located in the basement and this is a source of extreme inconvenience. In general, the accommodation here is cramped.

- (f) Student accommodation - The accommodation of approximately 200 sq. m. is not at all suitable to meet the demands of the 4000 wholetime, part-time and apprentice students. The location of the student facilities, overlooking the main entrance and immediately over the College Conference room, is entirely inappropriate.

7. The development of the College at Kevin Street is desirable for a number of reasons.

- (a) The College has built up a range of expertise which is not alone outstanding at the national level but, in several instances, has secured an international recognition. The area of activities in which the College is involved relate immediately to areas of greatest growth in the economy - electronic engineering, electrical engineering, telecommunications engineering, computer science, elsewhere, the College is the only centre offering courses in a number of branches in the paramedical area.
- (b) Adequate class room accommodation, canteen and library, staff and student facilities are necessary to ensure that standards in the College conform to those applied by the Department in respect of other similar type institutions.

Analysis of existing and proposed stock in relation to wholetime courses

<u>COURSE</u>	<u>Existing Stock EWTS</u>	<u>Proposed Increased Intake</u>	<u>Revised Stock</u>
Electrical Engineering Degree	143	67	210
Radio & Telecomms. Tech. Eng.	86	44	130
Radio & Telecomms. Technician	74	56	130
Electronics Technician	22	68	90
P-T Radio Mechanics	27	13	40 (Part-time)
Elec. Eng., Tech. Engineer	97	33	130
Electrical Technician	4	12	16
Applied Science Degree	132	78	210
Ophthalmic Optics	53	11	64
Human Nutrition	29	35	64
Grad. RIC	12	-	12 (Part-time)
Grad. Inst. Physics	3	3	3 (Part-time)
App. Sc. Technician (Year 1)	100	50	150
do Physics Option (2 + 3)	26	30	56
do Chemistry " (2 + 3)	19	21	40
do Biology " (2 + 3)	38	2	40
Science Lab. Technicians Course	25	-	25
Medical Laboratory Sciences (Certificate)	38	2	40
Advanced Med. Lab. Sc.	57	3	60
Nurses	55	45	100 (Block-Release)
Computer Science	47	23	70
Photography	12	-	12
Bakery Technology	25	-	25
Bakery Apprentices	35	-	35
Electrical Apprentices	400	100	500 (Day & Block Release)

The proposed increase in student intake would require an additional 15 class-spaces approximately, with more intensive utilisation of existing laboratories. Also, there is a requirement for 11 class-spaces to replace the substandard accommodation in use at present.

COLLEGE OF TECHNOLOGY,

KEVIN STREET

Summary of Accommodation Requirements

(teaching space)

	Faculty	Classroom	Chemistry Lab.	Biology Lab.	Electrical Lab.	Physics Lab.	Workshop	Printing Office	TOTAL
Faculty classes period at 35 hours per week	3.47	37.83	3.9	3.00	3.13	6.00	2.78	6.00	68.11
Spaces Required	5	10	7	5	7	9	4	7	68
Use Factor	69.41	62	55.78	602	65.81	616	69.78	705	64,822 Average
Existing Space	5	30	7	5	5	9	5	2	68
Change (Less amount)	-	-	-	-	-	-	1	3	10
Total Space Available	5	30	7	5	5	9	4	7	68
Additional Space Required	-	25	-	-	-	-	-	-	25

x = space in constant use.

COLLEGE OF TECHNOLOGY, KEVIN STREET.

SUMMARY OF ACCOMMODATION REQUIREMENTS (teaching space)

	Lecture Theatre	Classroom	Chemistry Lab.	Biology Lab.	Electrical Lab.	Electronics Lab.	Physics Lab.	Electrical Install. Lab.	Language Lab.	Workshop	Drawing Office	Maths. Lab.	TOTAL
Weekly class period at 35 hours per week	3.47	37.93	3.9	3.00	5.83	4.38	6.00	4.91	0.11	2.79	4.94	0.17	
Spaces Required	5	55	7	5	7	10	9	8	1	4	7	3	121
Use Factor	69.4%	69%	55.7%	60%	83%	43.8%	66.6%	61%	x	69.7%	70%	x	64.82% Average
Existing Space	5	30	7	5	5	10	9	6	1	3	2	3	86
Church Lane Annex	-	-	-	-	2	-	-	2	-	1	5	-	10
Total Space Available	5	30	7	5	7	10	9	8	1	4	7	3	96
Additional space Required	-	25	-	-	-	-	-	-	-	-	-	-	25

x = space in constant use.

Schedule of Accommodation for Phase 1

	<u>Square Metres</u>	
(a) 10 classrooms at 60m ²	600	
(b) 10 classrooms at 55m ²	550	
(c) 5 classrooms at 30m ²	150	1,300m ²
(d) Library		1,200m ²
(e) Canteen and Kitchen		1,220m ²
(f) Academic Staff)		
(g) Non-Academic Staff)		161m ²
(h) Student Communal Space		240m ²
		<hr/> 4,121m ²
	Balance Area:	1,236m ²
		<hr/> 5,357m ²

NOTE

- (1) Existing Canteen to be used as Staff Common Room
- (2) Existing Library to be used as No. 2 Laboratories
- (3) Existing Students Communal Space to be used for Staff Office Space.
- (4) Existing Staff Common Room to be used for Registration Office and General Administrative Space.

COLLEGE OF TECHNOLOGY, Kevin Street

APPENDIX NO. 1

Area of Main Building (excluding swimming pool)	15,159m ²
Area of 1/8 Church Lane	1,218m ²
Area of Proposed New Extension	5,357m ²
	<hr/>
Total:	21,734m ²

STUDENT REGISTRATION

VEC's Projections of E.W.S. provide for a total intake of 2,200 E.W.S. (a nett increase of 800 E.W.S.)

<u>YEARS</u>	<u>NIGHTTIME STUDENTS</u>	<u>ELECTRICIAN APPRENTICES</u>
1974/77	683	1004
1977/78	721	1004
1978/79	797	1052
1979/80	833	1181
1980/81	895	1353

APPENDIX NO. 1.

STUDENT REGISTRATION

<u>YEARS</u>	<u>WHOLETIME STUDENTS</u>	<u>ELECTRICAL APPRENTICE</u>
1976/77	683	1094
1977/78	721	1004
1978/79	797	1062
1979/80	933	1181
1980/81	995	1353

COLLEGE - KEVIN STREET

DEPARTMENT - CHEMISTRY/BIOLOGY.

OCCUPANCY OF TEACHING AREAS IN HOURS PER WEEK.

Weekly Class Hours per Type of Teaching Space.

Course	Lecture Theatre	Class Room	Chemistry Lab.		Biology Lab.		Physics Lab.		Workshop	Drawing	Lang. Lab.	Computer/Maths Lab.	Enrolment	Stock
			G.	S.	G.	S.	G.	S.						
Science Labatory Technicians Course P.S.L.	1B	3	1½		2								18	4
	1A	5	1½				2						18	4
	2	1	2						3½				14	3
	3	6½	3½		3½								18	4
	4	4½	6½		2								34	7
	5	1	2		3½								13	3
Advanced Course in Medical Laboratory Science W.A.M.L. 1 & 2	14½	17½	23		35			9		1			114	57

COLLEGE - KEVIN STREET

DEPARTMENT - MATHEMATICS

OCCUPANCY OF TEACHING AREAS IN HOURS PER WEEK

Weekly Class Hours per Type of Teaching Space

Course		Lecture Theatre	Class Room	Electrical Lab.		Electronic Lab.		Physics Lab.		Lang. Lab.	Work Shop	Drawing	Computer Maths Lab.	Enrol- ment	Stock.
				G.	S.	G.	S.	G.	S.						
Computer Science W.M.T.	1	5	25					2						30	30
	2	1	24					2					2	17	17

COLLEGE - KEVIN STREET

DEPARTMENT - ELECTRICAL INSTALLATION

OCCUPANCY OF TEACHING AREAS IN HOURS PER WEEK

Weekly Class Hours per Type of Teaching Space

Course	Lecture Theatre	Class Room	Electrical Lab.		Electronic Lab.		Physics Lab.		Work Shop	Drawing	Electrical Installation Lab.		Enrolment	Stock.
			G.	S.	G.	S.	G.	S.			G.	S.		
Apprentice Electricians PEI	1A	3	1½							1½			20	4
	1B									4½	1½		20	4
	1C	4½	1½										20	4
	1D	1½								3	1½		20	4
	1E	4½	1½										20	4
	2A	1½								3	1½		17	4
	2B	5									1½		16	4
	2C	4½									1½		17	4
	2D	4½	1½										16	4
	2E	5	1½										15	3
	3A	5	1½								3		17	4
	3B	5	1½								3		18	4
	3C	4½	1½								3		18	4
	4B	5	1								2		20	4
E.S.E.D.									2	33			20	20
P.A.A.	1A	4	3							3			12	4
	1B	3½	3½							3			12	4
	1C	7	1½								1½		12	4
S.E.A.S.	1A	7	1½								1½		20	6
	1B	7	1½								1½		20	6

COLLEGE - KEVIN STREET

DEPARTMENT - ELECTRICAL INSTALLATION

OCCUPANCY OF TEACHING AREAS IN HOURS PER WEEK

Weekly Class Hours per Type of Teaching Space

Course	Lecture Theatre	Class Room	Electrical Lab.		Electronic Lab.		Physics Lab.		Work Shop	Drawing	Electrical Installation Lab.		Enrolment	Stock
			G.	S.	G.	S.	G.	S.			G.	S.		
Apprentice Electricians S.E.S.B.	1J		16½	3			1½			3	6		20	20
	1K		16½	3			1½			3	6		20	20
	2J		16½	1½			1½			3	7½		20	20
	2K		15	3			1½			4½	6		20	20
	3J		15						6	4½	4½		20	20
	3K		15	1½					6	4½	3		20	20
	3G		13½	1½					6	6	3		20	20
	4J		19½	1½					3	3	3		20	20
	4K		18	1½					3	4½	3		22	22
	2L		12	6			1½			7½	3		20	20
	4L		18	1½						7½	3		22	22
	S.E.A.L.	1 A/B		19½	4½			1½		9	3½	8		14
S.E.M.	1		15	1½			1½		7½	3	1½		16	16
	4		12	3					3	12	6		20	20
B.E.S.B.	3A		19	3					2	7	5		17	17
	3B		13	2					2	12½	5½		17	17

COLLEGE - KEVIN STREET.

DEPARTMENT - PHYSICS.

OCCUPANCY OF TEACHING AREAS IN HOURS PER WEEK.

Weekly Class Hours per Type of Teaching Space.

Course	Lecture Theatre	Class room	Chemistry Lab.		Biology Lab.		Physics Lab.		Lang. Lab.	Work Shop	Drawing	Electro Lab.	Electric Lab.	Maths Lab.	Enrolment	Stock.
			G.	S.	G.	S.	G.	S.								
Science Technician W.A.S.	1	19	13	7½		7		6½			8				100	100
	2	2	19					2	2			2	2		20	20
	3	2	19½						3	3		2	2		6	6
Applied Science Degree W.S.A.D.	1	6	21	6				6							58	58
	2	5	28	8				10	3						30	30
	3	3	26	9				6	12					2	30	30
	4	3	26	7				7	7						14	14
Ophthalmic Opticians W.S.O.	1	2	15	3				2½	5		3				16	16
	2		7	2½					20	1					16	16
	3		20½						6						15	12
	4	2	10						14	1					5	4
Professional Photography P.S.P.	1		6½												28	6
	2		1						5½						14	3
	3		3						3½						8	2
	4 & 5								3½						4	1
Graduateship of the Institute of Physics P.S.I.P.	1 & 2		5						2						12	3
Nursing	1 & 2			4				4							220	55

	Lecture Theatre	Class Room	Chemistry Lab.		Biology Lab.		Electrical Lab.		Electronic Lab.		Physics Lab.		Elec. Inst. Lab./Workshop	Lang. Lab.	Work Shop	Drawing Office	Maths Lab
			G.	S.	G.	S.	G.	S.	G.	S.	G.	S.					
Chemistry// Biology	25½	196	87		96						7	13		1	3½	2½	
Maths / Computers	6	49									4						
Electrical Installation		336					62				10½		97	1	49½	140	2
Telecommunications	29	202					28		80	30½	10			1	14½	13	
Electrical Engineering	17	149					56½		28		13½			1	18	10	
Physics	44	220½	47		7		4		4		44	86½		2	9	8	2
<u>TOTAL</u>	121½	1152½	134		103		150½		112	30½	89	99½	97	4	94½	173	6
Weekly Class Periods (i.e. total divided by 35)	3.47	32.9	2.81		2.9		4.3		3.2	0.9	2.5	2.8	2.8	0.11	2.7	4.9	0.7
Spaces Required	4	41	4		3		5		4	1	3	3	3	1	3	5	1
Use Factor Percentage	87	80	96		98		86		80	87	85	95	92	11	90	99	17
Existing Spaces	5	30	7		5		5		7	3	3	6	5	1	2	2	3

COLLEGE OF TECHNOLOGY

KEVIN STREET

Occupancy of Teaching Areas in hours per week

Weekly Class Hours per type of Teaching Space

PROJECTED

Teaching Area	Classroom	Laboratory	Workshop	Other	Total
Engineering	10	5	2	1	18
Science	8	4	1	1	14
Business	6	3	1	1	11
Health	4	2	1	1	8
Art	2	1	1	1	5
Physical Education	1	1	1	1	4
Library	1	1	1	1	4
Administrative	1	1	1	1	4
Faculty Office	1	1	1	1	4
Student Center	1	1	1	1	4
Other	1	1	1	1	4
Total	35	18	10	10	73

COLLEGE - KEVIN STREET

DEPARTMENT - CHEMISTRY/BIOLOGY.

OCCUPANCY OF TEACHING AREAS IN HOURS PER WEEK.

Weekly Class Hours per Type of Teaching Space.

Course	Lecture Theatre	Class Room	Chemistry Lab.		Biology Lab.		Physics Lab.		Workshop	Drawing	Lang. Lab.	Computer/ Maths Lab.	Enrol- ment	Stock
			G.	S.	G.	S.	G.	S.						
Science Labatory Technicians Course P.S.L.														
1B		3	1½		2								18	4
1A		5	1½				2						18	4
2		1	2						3½				14	3
3		6½	3½		3½								18	4
4		4½	6½		2								34	7
5		1	2		3½								13	3
Advanced Course in Medical Laboratory Science W.A.M.L. 1 & 2		14½	17½	23		35		9		1			114	57

COLLEGE - KEVIN STREET

DEPARTMENT - MATHEMATICS

OCCUPANCY OF TEACHING AREAS IN HOURS PER WEEK

Weekly Class Hours per Type of Teaching Space

Course		Lecture Theatre	Class Room	Electrical Lab.		Electronic Lab.		Physics Lab.		Lang. Lab.	Work Shop	Drawing	Computer Maths Lab.	Enrol- ment	Stock.
				G.	S.	G.	S.	G.	S.						
Computer Science W.M.T.	1	5	25					2						30	30
	2	1	24					2					2	25	25
	3		25					2					2	25	25

COLLEGE - KEVIN STREET

DEPARTMENT - ELECTRICAL INSTALLATION

OCCUPANCY OF TEACHING AREAS IN HOURS PER WEEK

Weekly Class Hours per Type of Teaching Space

Course	Lecture Theatre	Class Room	Electrical Lab.		Electronic Lab.		Physics Lab.		Work Shop	Drawing	Electrical Installation Lab.		Enrolment	Stock.
			G.	S.	G.	S.	G.	S.			G.	S.		
Apprentice Electricians PEI	1A	3	1½							1½			20	4
	1B									4½	1½		20	4
	1C	4½	1½										20	4
	1D	1½								3	1½		20	4
	1E	4½	1½										20	4
	2A	1½								3	1½		17	4
	2B	5									1½		16	4
	2C	4½									1½		17	4
	2D	4½	1½										16	4
	2E	5	1½										15	3
	3A	5	1½								3		17	4
	3B	5	1½								3		18	4
	3C	4½	1½								3		18	4
	4B	5	1								2		20	4
E.S.E.D.									2	33			20	20
P.A.A.	1A	4	3							3			12	4
	1B	3½	3½							3			12	4
	1C	7	1½								1½		12	4
S.E.A.S.	1A	7	1½								1½		20	6
	1B	7	1½								1½		20	6

COLLEGE - KEVIN STREET

DEPARTMENT - ELECTRICAL INSTALLATION

OCCUPANCY OF TEACHING AREAS IN HOURS PER WEEK

Weekly Class Hours per Type of Teaching Space

Course	Lecture Theatre	Class Room	Electrical Lab.		Electronic Lab.		Physics Lab.		Work Shop	Drawing	Electrical Installation Lab.		Enrolment	Stock
			G.	S.	G.	S.	G.	S.			G.	S.		
Apprentice Electricians S.E.S.B.	1J	16½	3				1½			3	6		20	20
	1K	16½	3				1½			3	6		20	20
	2J	16½	1½				1½			3	7½		20	20
	2K	15	3				1½			4½	6		20	20
	3J	15							6	4½	4½		20	20
	3K	15	1½						6	4½	3		20	20
	3G	13½	1½						6	6	3		20	20
	4J	19½	1½						3	3	3		20	20
	4K	18	1½						3	4½	3		22	22
	2L	12	6					1½		7½	3		20	20
4L	18	1½							7½	3		22	22	
S.E.A.L.	1 A/B	19½	4½				1½		9	3½	8		14	14
S.E.M.	1	15	1½				1½		7½	3	1½		16	16
	4	12	3						3	12	6		20	20
B.E.S.B.	3A	19	3						2	7	5		17	17
	3B	13	2						2	12½	5½		17	17
Additional 100 EWTS - 500 Apprentices (Day Release) = 25 groups of 20 students.		75	37½								75		500	100

COLLEGE - KEVIN STREET.

DEPARTMENT - PHYSICS.

OCCUPANCY OF TEACHING AREAS IN HOURS PER WEEK.

Weekly Class Hours per Type of Teaching Space.

Course		Lecture Theatre	Class room	Chemistry Lab.		Biology Lab.		Physics Lab.		Lang. Lab.	Work Shop	Drawing	Electro Lab.	Electric Lab.	Maths Lab.	Enrolment	Stock.
				G.	S.	G.	S.	G.	S.								
Science Technician W.A.S. Physics	1.	19	43	10		9		9				8				150	150
	2	2	19					2	2		3		4	4		27	27
	3	2	19½						6		6		4	4		27	27
Applied Science Degree W.S.A.D.	1	6	51	6				6								60	60
	2	5	28	8				10	3							50	50
	3	3	26	9				6	12						2	50	50
	4	3	26	7				7	7							50	50
Ophthalmic Opticians W.S.O.	1	2	15	3				2½	5		3					16	16
	2		7	2½					20	1						16	16
	3		20½						6							16	16
	4	2	10						14	1						16	16
Professional Photography P.S.P.	1		6½													28	6
	2		1						5½							14	3
	3		3						3½							8	2
	4 & 5								3½							4	1
Graduateship of the Institute of Physics P.S.I.P.	1 & 2		5						2							24	6
Nursing	1 & 2			4				4								220	55

	Lecture Theatre	Class Room	Chemistry Lab.		Biology Lab.		Electrical Lab.		Electronic Lab.		Physics Lab.		Elec. Inst. Lab./ Workshop	Lang Lab.	Work Shop	Drawing Office	Maths Lab.
			G.	S.	G.	S.	G.	S.	G.	S.	G.	S.					
Chemistry/ Biology	25½	196	87		96						7	13		1	3½	2	
Maths/ Computers	6	74									6						4
Electrical Installation		411					99½				10½		172		49½	140	
Telecommunications	29	217					36		93	18½	18			1	14½	13	
Electrical Engineering	17	149					60½		34		13½				18	10	
Physics	44	280½	49½		9		8		8		46½	89½		2	12	8	2
TOTAL	121½	1327½	136½		105		204		135	18½	101½	102½	172	4	97½	173	6
Weekly Class Periods	3.47	37.93	3.9		3		5.83		3.86	0.52	2.9	2.93	4.91	0.11	2.79	4.94	0.17
Spaces required	4	50	4		3		6		4	1	3	3	5	1	3	5	1
Use Factor%	87	75	97		100		97		96	53	97	98	98	11	93	99	17
Existing Spaces	5	30	7		5		5		7	3	3	6	5	1	2	2	3
Church Lane Annexe (to be provided)													5			4	