Date.12:08:2019					
Expt. No. Page No. Page No.					
Aim: Engineering application of nanomaterials					
Apparatus: XRD pattern, peak fitting program.					
SLO: To determine the allerage crystallite size from					
SLO: To determine the average crystallite size from the given X-ray diffraction (XRV) pattern of					
a polycrystallite material.					
O					
formula to use: The Schorror equation is to calculate					
the ey orystalite size. This nothed gives qualifortine					
The Schower equation is:					
D= KX Here, B(in radian) = Peak width					
Bcos0 D= (rystallity siz)					
N= X ray mandongth. 0= Peak position					
0 0					
Rata given -					
Uaudengen of the X-ray used: 1.546h					
Mandengen of the X-ray wed: 1.546A					
Schorord constant: 0.94 Cassining that crystallifes					
are sprovical in shape					
Paralle					
the average orystalling size is So. Jznu.					
The allowing Supplement Supplemen					
Teacher's Signature :					

Date.... Page No....

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8	Peak Centers Cicles	FWHM (hdg.)	FWHR9 after instrumental broadering correction (7 dg)	FWHM/2 (in Radiay)	Aug. ough
	D 28.57	0.320	O-91	5.4810-3	52-25
(D 47.54	0.371	0-261	6-29×103	50.07
	③56. 3 7	0.406	0.396	6.908N63	47-60
	9 37.153 559.13	0-379	0.329	5-72710-3	57,98

APPL Mean = 50.32

